BANGLADESH WATER DEVELOPMENT BOARD LOCAL GOVERNMENT ENGINEERING DEPARTMENT

PREPARATORY SURVEY ON UPPER MEGHNA RIVER BASIN WATERSHED MANAGEMENT IMPROVEMENT PROJECT IN THE PEOPLE'S REPUBLIC OF BANGLADESH

FINAL REPORT VOLUME-II APPENDIXES

FEBRUARY 2014

JAPAN INTERNATIONAL COOPERATION AGENCY

NIPPON KOEI CO., LTD.

4R JR 14-014 BANGLADESH WATER DEVELOPMENT BOARD LOCAL GOVERNMENT ENGINEERING DEPARTMENT

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FINAL REPORT

List of Reports

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Exchange Rate

US\$ 1.00 = BDT 77.8 = JPY 99.7 as of October 2013

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Appendix 2.1 Questionnaire Sheet of Household Survey

	ſ	No.					
Part ASocio-economic ConditionsName of Haor ()
Name of t	he enumerator			Date of the inte	erview		
Name of t	he field supervisor			Checked by the □yes	e super	visor □No	
Upazila:		Union		Gram (Village)	:		
Name of the respondent				Age	5	Sex	

Name of the respondent	Age	Sex
Name of the household head	Age	Sex
Number of Family Members		

A.1 Household Profile

Names of Family Members	Sex	Age	Education Level	Occupation

A.2 Household Characteristics

Descriptions	Please TICK or indicate					
Ownership of house						
Ownership of housing yard						
Type of house	Pacca	Semi-pacca	Kacha.			
Power source (electricity)	Yes	No	If No, specif	у()
Drinking water source (rainy season)	SW	DTW	River	Other()
Drinking water source (dry season)	SW	DTW	River	Other()
Domestic water source	SW	DTW	River	Other()
Quality of drinking water	Good	Bad	If Bad*, spec	cify()	
Sanitary (toilet)	Septic	Pit	Others ()	
Fuel (for Cooking)	Wood/Cro	p Residue	Kerosene	Dung	Other()

Remarks: * If water is BAD, specify salty, muddy, etc.

A.3 Household Assets

	Items	No.		Items	No.
1.	Motorcycle		5.	Radio	
2.	Bicycle		6.	TV	
3.	Boat		7.	Other()	
4.	Ox-cart		8	Other()	

A.4 Household Income & Expenditure

How do you classify yourself (in terms of main source of income)?

1. Farmer	2. Fisher	3. Farm Labour	4. Others ()

(1) Income from agriculture & fishery (for 2012) by season

Please put 1, 2, 3 - - - in order of importance/amount of earnings

		D	ry Season	Ra	ainy Season
	Income Sources	Order	Amount	Order	Amount
			(Tk/season)		(Tk/season)
1.	Paddy cultivation				
2.	Other crops cultivation				
3.	Inland fishing				
4.	Fish culture				
5.	Poultry farming				
6	Dairy farming				
7.	Others ()				
8.					
9.					

(2) Household income from NON-FARM sources (for 2012) by season $(1 - 2)^2$

Please put 1, 2, 3 - - - in order of importance/amount of earnings

		Dr	y Season	Rair	ny Season
	Descriptions	Order	Amount (Tk/season)	Order	Amount (Tk/season)
1.	Salary (working in government, etc.)				
2	Wages from casual work				
3.	Business/trade				
4.	Cottage industry				
5	Farm labour				
6.	Casual labour				
7.	Remittances				
8	Others (specify below)				
9					

(3) Household expenditure (for 2012)

(Please provide average monthly or annually).

	Descriptions	Monthly (tk)	Annually (tk)
1.	Food		
2	Farming Expenses (crop & livestock)		
3	Farming Expenses (fishery)		
4.	Utilities (water, electricity, etc.)		
5	Fuel for cooking, etc.		
6.	Clothing		
7.	Health care & medical		
8.	Education		
9.	Travel & communication		
10.	Social functions including entertainment		
11	Repayment of loans / debts		
12.	Savings		
	Others (specify)		

(4) When your income is not sufficient for living expenses and farm expenses and when you suffered from flooding, how do you make the shortage (balance)

(Please TICK where applicable).

		When		
	Description	Income Is	Suffered from	
		Insufficient	Flood	
1.	Pawn jewellery			
2.	Borrow from relatives / friends			
3.	Borrow (or take credit) from village shops/money lenders			
4.	Sell property			
5.	Others (specify)			

Part B Crop Production & Livestock

B.1 Holding Size & Farming Asset

		Upland Field		
Irrigation/Rainfed	Irrigated			
Tenure Status 1/				
Area (acre)				

1/: own, rented, tenant, sharecropped, etc.

(2) Irrigation/water charge per season: (

tk/season)

(:	3) Holding	g size of animal 8	z poultry at prese	nt		
	Buffalo	Goat	Sheep	Chicken	Duck	

(3) Holding size of animal & poultry at present

(4) Farming asset (farm machinery, equipment, tools etc.)

	Descriptions	No.		Descriptions
1.	Power tiller		9.	Low lift pump
2.	Power thresher		10.	STW(shallow tube well)
3.	Pedal thresher		11.	Double lift pump
4.	Bullock cart		12.	Rice mill
5.	Draught animal (buffalos)		13.	Parboil equipment
6.	Plough		14.	Grain storage container
7.	Land leveller (ladder)		15.	Others (specify)
8	Pedal pump			

B.2 Cropped Area & Production of Major Crops in 2012/2013

1.	Crop/Variety (HYV/local)	bolo/HYV		
2.	Season	Rabi		
3.	Cropped area (acre)			
4.	Yield (kg/acre)			
5.	Production (kg)			
6.	Marketed volume (kg)			
7.	Selling price per kg (tk/kg)			

1.	Crop/Variety (HYV/local)
2.	Season
3.	Cropped area (acre)
4.	Yield (kg/acre)
5.	Production (kg)
6.	Marketed volume (kg)
7.	Selling price per kg (tk/kg)

B.3 Cropped Area & Production of Other Crops in 2012/2013

	Descriptions	Kharif 1	Kharif 2	Rabi	Year Round
1.	Production (kg)				
2	Selling price per kg (tk/kg)				

B.4 Livestock Production & Sale in 2012/2013

Descriptions	Monthly	Annual	Descriptions	Monthly	Annual
Egg Prod. (chicken) (kg)			Sale Sheep (head)	-	
Egg prods. (duck) (kg)			Sale Buffalo (head)	-	
Sale of Chicken (bird)			Sale Cattle (head)	-	
Sale of Duck (bird)			Cow Milk Prod. (lit.)		
Sale of Goat (head)	-		Goat/Sheep Milk Prod. (lit.)		

Part C Fisheries

C.1 General

(1) What type of fisheries activities are you involved? (Please tick where applicable)

1.	Open water fishing		
2.	Pond fish culture (fish farming)		
3.	Both open water fishing & pond fish culture (fish farming)		
4.	Others (specify): (e.g.) Integrated fish culture with poultry		
5.	Years of experience in fish culture		years
6.	Do you keep record of fish farming (season or by cycle)?	1. Yes	2. No

(2) What are your productive assets (Please select and list others) for fisheries?

Descriptions	No.	Descriptions	No.	Descriptions	No.
Ponds		Refrigerator		Fishing net	
Boats		Feed mixer		Generator	
Pump					

C.2 Fish Farming (Fish Culture),

(1) Number of ponds, area and ownership

	Descriptions	No.	Area	Ownership	
1.	Nursery ponds			Own	Rented
2.	Rearing ponds			Own	Rented
	Total – Fish Farm Area				

(2) Source of water supply and charges (if any)

Descriptions	Yes or No	Water Charges (tk/month)	Descriptions	Yes or No	Water Charges (tk/month)
River		(ut monut)	Irrigation canals		(((()))))))))))))))))))))))))))))))))))
Open water bodies			Others (specify)		

(3)	Descriptions	Season-1	Season-2	All Year Around
1.	Extensive			
2.	Semi-intensive			
3.	Intensive			
4.	Mono-culture			
5.	Poly-culture			
6.	Poultry-fish culture			
7.	Rice-fish culture			

(3) Type of aquaculture system or practice

(4) Type of fish species cultured, stocking density (pieces/sq. meter) and production (kg/cycle or kg/year), selling prices & survival rate

Name of Species	No of cycles/year	Stocking density (pcs./sq m2)	Production per cycle (kg/cycle)	Annual Production (kg/year)	Selling Price (tk/kg)	Survival Rate/Cycle (%)
Catla						
Rohu						
Mirigal						
Silver carp						
Bighead						
Common carps						
Tilapia						
Prawn						
Others						

(5) Source of fry and fingerlings and buying price (tk/piece)

	Name of Species	Govt. Hatchery	Private Hatchery	Other source
1.	Catla	tk/pcs.	tk/pcs	tk/pcs
2.	Rohu	tk/pcs	tk/pcs	tk/pcs
3.	Mirigal	tk/pcs	tk/pcs	tk/pcs
4.	Silver carp	tk/pcs	tk/pcs	tk/pcs
5	Bighead	tk/pcs	tk/pcs	tk/pcs
6.	Common carps	tk/pcs	tk/pcs	tk/pcs
7.	Tilapia species	tk/pcs	tk/pcs	tk/pcs
8.	Freshwater prawn	tk/pcs	tk/pcs	tk/pcs
9.	Others (specify)	tk/pcs	tk/pcs	tk/pcs

C.3	Open Water Fishing (Inland Capture Fishing)							
(1)	Wha	t are the fishing	ng seasons? (In	dicate	from what m	onth to mont	h).	
a.	Season	from	to		b. Season	from	to	
(2)	Whe	re do you con	duct your fishi	ng ope	erations?			
a. R	iver	b. Bheels/Ox-	bow lakes	c. Fl	oodplain	d. Others (sp	becify)	
(3)	Purp	ose of fishing	: 1. For elf co	onsum	ption 2	2. For sale		3. For both
(4)	How	much do you	pay for captur	e fishi	ng per seasor	n: (tk/kg)
(5)	Freq	uency of fishi	ng?			times p	er week	
(6)	Prod	uctive assets	for capture fish	ing (o	pen water fisl	hing)		
		Descriptions	N	0.		Descriptions		No.
1.	Boats w	ith engine			Cast nets			
	Boats w	ithout engine			Push nets			
3.	Gill nets	3			Hook & li	nes		
4.	Seine nets Other (specify)							
5.	Lift nets	3						
(7)	Aver	age fish catch	volume (kg) (Provid	le an estimate	of catch per	trip or mo	nth)
		Fish Categor	ry	K	g/trip	Kg/mont	h	Kg/season
					1			

	Fish Category	Kg/trip	Kg/month	Kg/season
1.	Big carps			
2.	Small carps			
3.	Cat fish			
4.	Snake head			
5.	Small varieties			
6.	Others (specify)			

Part D Marketing, Agricultural Support Services, Organizations

D.1 Marketing of Products

(1) Prevailing marketing channel of crops, please Tick where applicable.

			Commodity	
	Market Channel	Paddy		
1.	To a collector (who visits the farm)			
2	To a wholesaler in the village			
3	To a wholesaler in nearby town or village			
4	To a retailer in the village			
5	To Farmers Organization (Cooperative)			
6	Others (specify)			

(2)	Prevailing marketing channel of fish & livestock products -1, please Tick where applicable.				
	Market Channel	Fish	Egg	Chicken/	Animal
				Duck	
1.	To a collector (who visits the farm)				
2	To a wholesaler in the village				
3	To a wholesaler in nearby town or village				
4	To a retailer in the village				
5	To Farmers Organization (Cooperative)				
6	Others (specify)				

D. 2 Extension Services

(1) What kind of extension services of government, NGOs and donors you are currently provided with? Please tell us in detail.

Crop sub-sector	
Fishery sub-sector	
Livestock sub-sector	

1	(2)	Are you satisfied wi	1 1 1	· 0.10	· · · · 1	1 / 11	C
1	24	Are voll satisfied wi	th such sunnort s	services? If not	catictied r	Meace tell ne	reasons for
۰.	41		in such support s		sausiicu, p	nease ten us	Teasons for.

Crop sub-sector	
Fishery sub-sector	
Livestock sub-sector	

(5) Frequency of	visits of extension personnel, please put O on relevant frequency	
Extension Personnel	Frequency of Visits	
Agriculture (DAE)1. once/2 weeks, 2. once/3-4weeks, 3. Once/1-3months, 4. Seldom - no		
	1. once/2 weeks, 2. once/3-4weeks, 3. Once/1-3months, 4. Seldom - no	
	1. once/2 weeks, 2. once/3-4weeks, 3. Once/1-3months, 4. Seldom - no	
	1. once/2 weeks, 2. once/3-4weeks, 3. Once/1-3months, 4. Seldom - no	
	1. once/2 weeks, 2. once/3-4weeks, 3. Once/1-3months, 4. Seldom - no	

D.3 Farm Inputs Supply

Where & how do you procure farm inputs for farming, fishery & livestock

Commodity	Where & how do you procure
Seed	
Fertilizer	
Agro-chemicals	
Livestock feed	
Chicks/ducling	
Fish fingering/fry	
Fishing gear	

D. 4 Accessibility to Farm Credit: 1. Easy, 2. Difficult, 3. No access

D. 5 Farmers/Rural Organizations

(1) Your Membership in Farmers Organizations 1/; Activities & Obligations

Farmers Organization	Major Activities	Obligations

1/: KSS, WA, etc.

Part E Development Activities/Projects

E.1 Are you participating in Agriculture & Other Development Interventions/Activities (crop/fishery/livestock & others) implemented by Government, NGOs & Donors ?

Activities/Projects & Agency	Major Activities

E. 2 Are you going to positively participate and fulfil obligations in development interventions envisaged under the present Project ?

Part F Problems/Constraints, Needs & Future Aspirations

F.1 Problems/Constraints

What are the specific **Problems / Constraints** that you face in crop, fishery & livestock production?

(1)	Crop sub-sector
-----	-----------------

Your Suggestion to Improve		

(2) Fishery sub-sector

Problems/Constraints	Your Suggestion to Improve		

(3)	Livestock sub-sector	
	Problems/Constraints	Your Suggestion to Improve

(4) Other sectors

Problems/Constraints	Your Suggestion to Improve			

F.2 Immediate Needs

What are your Immediate Needs to Improve Crop, Fishery & Livestock Production and Income?(1) Crop sub-sector

(2) Fishery sub-sector

(3) Livestock sub-sector

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(4) Other sectors

F.3 Future Aspirations

Please tell us about your Future Aspirations for crop, fishery & livestock production & other sectors. (1) Crop sub-sector

(2) Fishery sub-sector

(3) Livestock sub-sector

(4) Other sectors

Part G Losses Caused by Floods

Please inform us lossess of production & assets you suffered from Flash Flood

	L	osses of Production	on	Losses of	Maximum Flash Flood
	Production was xx% of normal years			Assets	Depth in Your Lowland
Year	Boro Rice Other Crops		Fish Prod.	(tk)	Field (m)
2004					
2010					

Appendix 2.2 Findings from the Household Survey, July/2013

Part A Socio-economic Conditions

Table A.1: Target Projects & Upazilas for Household Survey

District	Upazila		Upazila Related Project/Haor		Project Type	Sample Numbers
Sunamganj	1.	Dharmapasha	Dharmapasha Rui Beel	18,972	New project	71
Kishoreganj	2.	Nikli	Boro Haor (Nikli)	9,147	New project	35
	3.	Mithamaine	Charigram Project	7,829	New project	35
	4.	Austagram	Boro Haor (Austagram)	11,013	New project	37
Netrokona	5.	Purbadhala	Kangsa River Scheme	11,337	Rehabilitation	37
Habiganj	6.	Ajmiriganj	Kairdhala Ratna	11,900	Rehabilitation	70
Brahmanbaria	7.	Bancharampur	Satdona Beel Scheme	5,030	Rehabilitation	35
Netrokona	8.	Khaliajuri	Dhanu River	-	River dredging	35
	Total					355

Table A.2: District-wise No. of Households Sampled and No. of Household Members

District	Sample	No. of he from t	Average No. of		
District	Numbers	Male	Female	Total	Household Member
Sunamganj	71	216	207	423	5.96
Habiganj	70	206	224	430	6.14
Netrokona	72	220	218	438	6.08
Kishoreganj	107	337	280	617	5.77
Brahmanbaria	35	98	94	192	5.49
Total	355	1,077	1,023	2,100	5.92
Total		(51.29%)	(48.71%)		

Table A.3: Distribution of the Respondents and the Head of the Households by their	respective
Age	

1 00	Res	pondents	HI	I Heads
Age (Years)	Number	Share (Column %)	Number	Share (Column %)
20 - 30	25	7.04%	15	4.23%
30 - 40	79	22.25%	72	20.28%
40 - 50	110	30.99%	111	31.27%
50 - 60	91	25.63%	93	26.20%
60 - 70	39	10.99%	48	13.52%
70 - 80	9	2.54%	14	3.94%
80 - 90	2	0.56%	2	0.56%
Total		35	55	

Note: All the respondents were Male and only one household sampled is headed by a Female

Age		S	ex		All		
(Years)	Μ	lale	Fer	nale			
	Number	Share (Row %)	Number	Share (Row %)	Number	Share (Column %)	
0 - 10	239	48.28%	256	51.72%	495	23.57%	
10 - 20	258	50.79%	250	49.21%	508	24.19%	
20 - 30	164	48.96%	171	51.04%	335	15.95%	
30 - 40	116	49.36%	119	50.64%	235	11.19%	
40 - 50	118	54.13%	100	45.87%	218	10.38%	
50 - 60	97	60.25%	64	39.75%	161	7.67%	
60 - 70	56	65.12%	30	34.88%	86	4.10%	
70 - 80	18	43.90%	23	56.10%	41	1.95%	
80 - 90	7	70.00%	3	30.00%	10	0.48%	
90 - 100	4	36.36%	7	63.64%	11	0.52%	
Total	1077	51.29%	1023	48.71%	2100	100.00%	

Table A.4: Age Distribution of Household Members

Table A.5: Education Level of Household Members

		S	All				
Education Level]	Male	Fe	male	All		
	Number	Share (Column %)	Number	Share (Column %)	Number	Share (Column %)	
Illiterate	274	44.26%	243	43.32%	517	43.81%	
Class 1 - 4	59	9.53%	61	10.87%	120	10.17%	
Class 5 - 9	219	35.38%	205	36.54%	424	35.93%	
Secondary School Certificate	37	5.98%	25	4.46%	62	5.25%	
High School Certificate	7	1.13%	3	0.53%	10	0.85%	
BA/BCom/BSc	18	2.91%	21	3.74%	39	3.31%	
Masters or higher	5	0.81%	3	0.53%	8	0.68%	
Total	619	100.00%	561	100.00%	1,180	100.00%	

Note: Household member aged 18 years or above is counted.

Table A.6: Employment Sector of Household Members

		S	All			
Occupation	N	ſale	F	emale		All
Occupation	Number	Share (Column %)	Number Share (Column		Number	Share (Column %)
Farmer	484	78.19%	4	0.71%	488	41.36%
Business	23	3.72%	3	0.53%	26	2.20%
Service	20	3.23%	3	0.53%	23	1.95%
Day labor	12	1.94%	1	0.18%	13	1.10%
Fisherman	5	0.81%	0	0.00%	5	0.42%
Boatman	3	0.48%	0	0.00%	3	0.25%
Driver	3	0.48%	0	0.00%	3	0.25%
Unemployed	9	1.45%	15	2.67%	24	2.03%
Housewife	0	0.00%	447	79.68%	447	37.88%
Dependent, Retired	37	5.98%	57	10.16%	94	7.97%
Student	22	3.55%	27	4.81%	49	4.15%
Disable	1	0.16%	4	0.71%	5	0.42%
Total	619	100.00%	561	100.00%	1,180	100.00%

Note: Household member aged 18 years or above is counted

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Table A.7: Land Holding Condition of Household

		. 0 -									
	(<i>Unit: 1 acre = 0.404686 hectare = 4046.86 square meter</i>)										
	No. of Sampled HHs by Land Holdin				ding Size (i	in Acre)		Average	Operational Farms		
District	0.05 -	0.50 -	1.00 -	1.50 -	2.50 -	7.50+	Total	Land	Operatio		
	0.49	0.99	1.49	2.49	7.49	7.50+	Farm	Holding		Average	
(Land Holding		Si	nall		Medium	Lango	Holdings	Size	Number	Size	
Categories)	Marg	ginal			meanum	Large		(Acre)		(Acre)	
Sunamganj	2	4	13	40	12		71	1.70	71	2.13	
Habiganj	6	18	16	29		1	70	1.46	70	2.23	
Netrokona	13	18	6	13	15	4	69	2.18	71	2.52	
Kishoreganj	1	20	35	41	10		107	1.42	107	1.76	
Brahmanbaria	4	4	10	11	2		31	1.27	35	1.40	
Total	26	64	80	134	39	5	348	1.62	354	2.04	
	7.47	18.39	22.99	38.51							
Share (%)	%	%	%	%	11.21%	1.44%					

Note: 6 HHs are there who don't own any cultivable land but are farming on rented/sharecropped lands

Table A.8: Living Condition of Surveyed Household

	Services									
1	Ownership of house	Ow	vn			100% F				0%
2	Average Size of housing yard		355m2 (8.78 decimal = 0.0878 acre)							
3	Type of house	Pacca 0.:			6 Se	mi-pacca	15.49%	5 Ka	cha	83.94%
4	Power source (electricity)	Connec	nected		42.82%		Not Connected			57.18%
5	Water source									
	Drinking: Rainy season	SW	75.49	%	DTW	23.66%	River	0.85%	Other	0.00%
	Deinking: Dry season	SW	75.21	%	DTW	23.66%	River	1.13%	Other	0.00%
	Domestic Use	SW	56.34	%	DTW	11.55%	River	18.31%	Other	13.80%
6	Quality of drinking water	Good	1			85.35%	B	ad		14.65%
7	Sanitary (toilet)	Septic	11.83	% Pi	t Latrine	72.11%	Open	11.27%	Hanging	4.79%
8	Fuel (for Cooking)	Wood/Crop Residue	82.82	% K	lerosene	1.13%	Dung	16.06%	Other	0.00%

Note:

• <u>Types of houses-</u> Pacca: robust house made of brick and concrete

Semi-pacca: normal house made of brick, timber and corrugated iron roof Kacha: fragile house made of organic materials (bamboo, straw)

• <u>Types of water sources-</u> SW: Shallow Well, DTW: Deep Tube Well

Table A.9: Percentage of Households having some selected Assets/Durables

Assets	Households owning the assets					
	Number					
Motorcycle	11	3.10%				
Bicycle	55	15.49%				
Boat	75	21.13%				
Ox-cart	12	3.38%				
Radio	15	4.23%				
TV	74	20.85%				

							(Unit: TK/year)
	No. of	No. of	Sample	I	A		
District	Household Member	No. of Earner	numbers	Total	Dry Season	Rainy Season	Average Expenditure
Sunamganj	5.96	1.62	71	135,533	107,226	28,306	143,559
Habiganj	6.14	1.66	70	205,465	119,055	86,410	191,636
Netrokona	6.07	1.53	72	163,787	81,808	81,979	169,014
Kishoreganj	5.77	1.85	107	149,291	101,487	47,804	140,736
Brahmanbaria	5.49	2.03	35	170,664	115,908	54,756	179,699
Total	5.91	1.72	355	162,663	103,529	59,134	160,914

Table A.10: Average Annual Income and Consumption Expenditure of Households Surveyed

Table A.11: Summary of Average Household Income per Season

					(Un	it: TK/year)	
	Ave	rage Income (TK)	Share (%)			
	Total	Dry Season	Rainy Season	Total	Dry Season	Rainy Season	
Agriculture and Fishery Income	104,200	72,130	32,069	64.1%	44.3%	19.7%	
Other Income (305 out of 355 HHs)	58,463	31,399	27,064	35.9%	19.3%	16.6%	
Total	162,663	103,529	59,134	100.0%	63.6%	36.4%	

Table A.12: Internal Migration of HH Members for Income Earning Activities by Month

Months	HHs with at least one member going/staying outside the District					
	No. of HHs	%				
January	8	2.25				
February	19	5.35				
March	24	6.76				
April	12	3.38				
May	16	4.51				
June	21	5.92				
July	24	6.76				
August	27	7.61				
September	19	5.35				
October	10	2.82				
November	6	1.69				
December	9	2.54				
At least once in a year	62	17.46				

Note: The information in this regard was collected by the enumerators and was put in the survey questionnaire as a side-note; because the survey questionnaire provided to the enumerators didn't include any question regarding this issue.

				Dry Se	ason		Rainy Season			
	Total Income	Share	Total Income	Share	Count	Average	Total Income	Share	Count	Average
Agruculture and Fishery Income										
Paddy cultivation	24,969,233	43.2%	20,299,073	35.2%	336	60,414	4,670,160	8.1%	126	37,065
Other crops cultivation	1,186,280	2.1%	1,011,820	1.8%	57	17,751	174,460	0.3%	11	15,860
Inland fishing	4,466,200	7.7%	561,500	1.0%	35	16,043	3,904,700	6.8%	129	30,269
Fish culture	763,670	1.3%	458,400	0.8%	19	24,126	305,270	0.5%	15	20,351
Poultry farming	3,212,944	5.6%	1,741,364	3.0%	103	16,906	1,471,580	2.5%	82	17,946
Dairy farming	2,348,922	4.1%	1,497,930	2.6%	104	14,403	850,992	1.5%	64	13,297
Others	43,600	0.1%	36,200	0.1%	2	18,100	7,400	0.0%	2	3,700
Subtotal	36,990,849	64.1%	25,606,287	44.3%	355	72,130	11,384,562	19.7%	355	32,069
Other Income										
Salary (working in government, etc.)	2,241,200	3.9%	981,600	1.7%	30	32,720	1,259,600	2.2%	30	41,987
Business/trade	6,907,620	12.0%	3,732,650	6.5%	106	35,214	3,174,970	5.5%	95	33,421
Cottage industry	0	0.0%		0.0%	0			0.0%	0	
Farm labour	532,500	0.9%	230,500	0.4%	19	12,132	302,000	0.5%	18	16,778
Casual labour	3,728,400	6.5%	2,345,000	4.1%	111	21,126	1,383,400	2.4%	73	18,951
Remittances	2,176,000	3.8%	1,157,000	2.0%	25	46,280	1,019,000	1.8%	18	56,611
Others	5,168,800	9.0%	2,699,900	4.7%	102	26,470	2,468,900	4.3%	75	32,919
Subtotal	20,754,520	35.9%	11,146,650	19.3%	355	31,399	9,607,870	16.6%	355	27,064
Total	57,745,369	100%	36,752,937		355	103,529	20,992,432		355	59,134

 Table A.13: Average Income per Income Source and Season

(Unit: TK/year)

Table A.14: Income Shortage/Insufficiency faced by the Sampled HHs by Month

Months	HHs facing inco	ome shortage
wonths	No. of HHs	%
January	7	1.97
February	152	42.82
March	244	68.73
April	131	36.90
May	31	8.73
June	8	2.25
July	11	3.10
August	25	7.04
September	80	22.54
October	56	15.77
November	17	4.79
December	7	1.97
At least once in a year	305	85.92

Table A.15: Solution for Emergency Cash Needs

	Income Is I	nsufficient	Suffered from Flood		
Countermeasure	Number of Sample	Share (%)	Number of Sample	Share (%)	
Borrow from relatives/friends	175	49.30%	143	40.28%	
Borrow (or take credit) from village shops/money lenders	173	48.73%	195	54.93%	
Sell property	28	7.89%	47	13.24%	
Pawn jewelry	6	1.69%	23	6.48%	
Others	23	6.48%	24	6.76%	

Table A.16: Average Expenditure per Items

				(Unit: TK/year)
	Items	Total Expenditure	Share of Total Expenditure	Average Expenditure per HH
1	Food	23,460,250	41.11%	66,085
2	Farming Expenses (crop & livestock)	12,976,205	22.74%	36,553
3	Farming Expenses (fishery)	1,362,790	2.39%	3,839
4	Utilities (water, electricity, etc.)	966,584	1.69%	2,723
5	Fuel for cooking, etc.	1,949,740	3.42%	5,492
6	Clothing	2,706,116	4.74%	7,623
7	Health care & medical	1,571,660	2.75%	4,427
8	Education	2,149,900	3.77%	6,056
9	Travel & communication	1,986,762	3.48%	5,597
10	Social functions including entertainment	1,539,302	2.70%	4,336
11	Repayment of loans / debts	3,155,040	5.53%	8,887
12	Savings	3,243,610	5.68%	9,137
13	Others	0	0.00%	0
	Total	57,067,959		160,755

Table A.17: Average Annual Income per Main Income Source Category

No. of	N7 0	a 1	Ave	age Income	(TK)	(Unit: TK/year) Average
Household Member	No. of Earner	Sample Number	Total	Dry Season	Rainy Season	Expenditure (TK)
5.91	1.73	323	163,148	106,405	56,744	161,892
6.00	1.66	29	162,507	78,629	83,878	156,008
5.33	1.33	3	111,933	34,667	77,267	103,053
5.91	1.72	355	162,663	103,529	59,134	160,914
	Household Member 5.91 6.00 5.33 5.91	Household Member No. of Earner 5.91 1.73 6.00 1.66 5.33 1.33 5.91 1.72	Household Member No. of Earner Sample Number 5.91 1.73 323 6.00 1.66 29 5.33 1.33 3 5.91 1.72 355	Household Member No. of Earner Sample Number Total 5.91 1.73 323 163,148 6.00 1.66 29 162,507 5.33 1.33 3 111,933 5.91 1.72 355 162,663	Household Member No. of Earner Sample Number Total Dry Season 5.91 1.73 323 163,148 106,405 6.00 1.66 29 162,507 78,629 5.33 1.33 3 111,933 34,667 5.91 1.72 355 162,663 103,529	Household Member No. of Earner Sample Number Total Dry Season Rainy Season 5.91 1.73 323 163,148 106,405 56,744 6.00 1.66 29 162,507 78,629 83,878 5.33 1.33 3 111,933 34,667 77,267

Note: Surveyed households are categorized automatically into farmer, fisher or farm labour by their main source of income

Part B Crop Production & Livestock

Table A.18: Average Size and Distribution of Agricultural Land under the Surveyed Households by Tenure Status and Irrigation Method

(Unit: 1 Decimal = 40.4686 square meter)										
Namel and Tetal			Irrigated				Rain	fed		
Tenure	Number of Samples	Total Area (Acre)	Number of Samples	Total Area (Acre)	%	Average area (Acre)	Number of Samples	Total Area (Acre)	%	Averag e area (Acre)
Own	348	56,465	348	562.0	77.7%	1.62	2	263	0.4%	1.32
Rented	50	5,792	50	57.9	8.0%	1.16	0	0	0.0%	-
Tenant	67	7,973	66	79.4	11.0%	1.20	1	30	0.0%	0.30
Sharecropped	20	2,144	20	21.4	3.0%	1.07	0	0	0.0%	-
Total	354	72,374	354	720.8	99.6%	2.04	3	293	0.4%	0.98

Table A.19: Number of Livestock and Farming Assets Owned by the Surveyed Households

Description		No. of Household having any	Total Number Owned by the Households	Average No. per Household
	Buffalo	193	519	2.69
Holding size of	Goat	40	111	2.78
animal &	Sheep	7	16	2.29
poultry	Chicken	172	5,474	31.83
	Duck	121	8,350	69.01
	Power tiller	10	10	1.00
	Power thresher	15	21	1.40
	Pedal thresher	5	5	1.00
	Bullock cart	14	15	1.07
	Draught animal (buffalos)	8	9	1.13
	Plough	150	169	1.13
	Land leveler (ladder)	220	241	1.10
Farming asset	Pedal pump	17	19	1.12
	Low lift pump	7	8	1.14
	STW(shallow tube well)	48	57	1.19
	Double lift pump	7	8	1.14
	Rice mill	8	10	1.25
	Parboil equipment		357	1.76
	Grain storage container	209	319	1.53
	Others (specify)	78	179	2.29

Table A.20: Per Household Area Under Cultivation, Yield/Decimal, Production/Season,
Marketed Value and Selling Price of Crops

		Paddy		Oth	er Major Cı	rops
Average	Rabi	Kharif1	Kharif2	Rabi	Kharif1	Kharif2
Cropped Area (decimal)	187.97	155.00	150.94	32.02	52.39	31.63
Yeild (kg/dec)	23.27	11.96	16.49	22.41	32.39	34.63
Production (kg)	3,904.43	1,770.75	2,462.08	742.22	379.56	1,107.88
Marketed Value (kg)	22.19	13.50	43.45	68.87	19.39	26.13
Selling Price (Tk/kg)	15.15	13.00	15.81	53.41	19.76	26.50
Number of respondent (N)	353	56	53	54	18	8

Descriptions	No. of Surveyed Households engaged	0	e quantity ced/Sold
Descriptions	in livestock production and sale	Monthly	Yearly
Egg Prod. (chicken) (kg)	81	48.54	410.01
Egg prods. (duck) (kg)	79	177.15	1,409.54
Sale of Chicken (bird)	66	63.86	1,003.44
Sale of Duck (bird)	70	37.18	446.31
Sale of Goat (head)	7	1.00	3.14
Sale Sheep (head)	1	1.00	1.00
Sale Buffalo (head)	12	1.00	1.33
Sale Cattle (head)	32	1.13	1.34
Cow Milk Prod. (lit.)	88	41.78	445.09
Goat/Sheep Milk Prod. (lit.)	1	60.00	360.00

Part C Fisheries

Table A.22: Surveyed Households Involved in Fishing or Fish Farming Activities

Fishing Activities	Number	%
Open water fishing	150	42.25%
Pond fish culture (fish farming)	14	3.94%
Both open water fishing & pond fish culture (fish farming)	5	1.41%
Total Sample	355	

Table A.23: Productive Assets for Fisheries, Owned by the Households involved in Fish Farming

Productive assets for	No. owned by the HH involved in fish farming			
fisheries	Total	Average		
Ponds	23	1.21		
Boats	18	0.95		
Pump	6	0.32		
Refrigerator	5	0.26		
Feed mixer	24	1.26		
Fishing net	43	2.26		
Generator	4	0.21		

Table A.24: No. of Ponds and Average Size of the Ponds used by the Surveyed Households for Fish Farming

(Unii: 1 ucre = 0.404080 necture = 4040.80 square meter)						
Decerintions	No. of sampled	Average No. of	Average area	Owne	ership	
Descriptions	HHs engaged in fish farming	ponds per fish farming households	(acre) of the ponds	Own	Rented	
Nursery ponds	10	1.20	.34	12	0	
Rearing ponds	14	1.07	1.20	11	4	
All	19	1.42	1.06	23	4	

(Unit: 1 acre = 0.404686 hectare = 4046.86 square meter)

Table A.25:	Sources of	Water	Used for	Fish	Farming
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Sources of water	Households using the source		Average charges (Tk/month) paid	
	No.	%	by the HHs	
River	6	31.58%	2,483	
Irrigation canals	2	10.53%	625	
Total	8	42.11%	2,019	

Table A.26: Aquaculture Systems Practiced by the Surveyed Fish Farming Households

Aquaculture	No. of HHs practicing the aquaculture system				
systems/Practices	Season-1	Season-2	All Year Around		
Extensive	1		2		
Semi-intensive	1	1	4		
Intensive	1				
Mono-culture					
Poly-culture	9	8	12		
Poultry-fish culture					
Rice-fish culture					

Table A.27: Information on the Main Species of Fishes Cultured by the Surveyed Households

	Average					
Name of Species	No. of cycles/year	Stocking density (pcs./sq. m)	Production per cycle (kg/cycle)	Annual Production (kg/year)	Selling Price (Tk/kg)	Survival Rate/Cycle (%)
Catla	1.40	260	160	256	142	78.21
Rohu	1.33	799	268	535	134	76.39
Mirigal	1.41	565	194	362	119	66.47
Silver carp	1.71	1,282	578	1,119	95	62.19
Bighead	2.09	1,856	1,726	2,383	89	71.50
Common carps	1.22	204	112	168	103	77.22
Tilapia	1.50	228	65	69	101	78.13
Prawn	2.00	1,000	1,000	2,000	100	50.00
Others	1.63	855	196	1,301	129	56.88

Table A.28: Source of Fry and Fingerlings and Average Buying Price

	(Unit: Tk/piece)				
Name of	Average buying price				
Species	Govt. Hatchery	Private Hatchery	Other source		
Catla		8.33	3.50		
Rohi		2.25	3.07		
Mirigal		2.50	2.15		
Silver carp	3.00	3.50	2.27		
Bighead		1.00	4.00		
Common carps		2.67	1.50		
Tilapia		1.50	4.33		
Prawn			2.00		
Others			4.50		

		Number of	
		Sample	%
Where do you	River	53	26.77%
conduct your	Bheels/Ox-bow lakes	134	67.68%
fishing	Floodplain	1	0.51%
operations?	Others	10	5.05%
Dumosa of	Self-consumption	88	44.44%
Purpose of fishing	Sale	16	8.08%
iisiiiig	Both	94	47.47%
Total no. of HH water fishing	s involved in open	198	

Table A.29: Surveyed Households Involved in Any Sort of Open Water Fishing

Table A.30: No. of Months the Households do Open Water Fishing

	Number of		
No. of months	Sample	%	
1 month	9	4.55	
2 months	3	1.52	
3 months	22	11.11	
4 months	41	20.71	
5 months	37	18.69	s
6 months	43	21.72	97.98
7 months	22	11.11	6
8 months	5	2.53	
9 months	3	1.52	
10 months	3	1.52	
11 months	6	3.03	
12 months	4	2.02	
Total	198	100.00	
Avg. no. of months per HHs involved in open water fishing	5.32 months (n=198)		

Households					
Productive assets for	No. owned by the households involved in open water fishing				
open water fishing	Total	Average/HH			
Boats with engine	22	0.11			
Boats without engine	38	0.19			
Gill nets	17	0.09			
Seine nets	31	0.16			
Lift nets	9	0.05			
Cast nets	88	0.44			
Push nets	114	0.58			
Hook & lines	24	0.12			
Other (specify)	431	2.18			

Name of Species	Kg/Trip	Kg/Month	Kg/Season
Big carps	0.23	1.97	9.56
Small carps	0.98	4.90	16.24
Cat fish	0.04	0.37	1.25
Snake head	0.23	3.47	17.93
Small varieties	4.29	43.40	148.32
Others	1.21	19.87	70.88
Total	6.97	73.98	264.19

Table A.32: Average fish catch volume

Part D Marketing, Agricultural Support Services, Organizations

Table A.33:	Prevailing	Marketing	Channel of	of Paddy	& Other Crops
I GOIC I HOU		1, I'dd He ching	Cinamici (I I GGGG	e other crops

Market Channel	Pa	ddy	Other	Crops
	No.	%	No.	%
Collector (come to farm)	88	18	3	4
Wholesaler in Village	225	46	23	34
Wholesaler in Nearby Town or Village	113	23	26	38
Retailer in Village	61	12	16	24
Cooperatives	2	0.4	0	0
Total Responses*	489	100	68	100
No answer (not marketed)	25		307	

Note: * Multiple responses allowed

	Prevailing marketing channel of fish & livestock products								
Market Channel	Fis	sh	Egg		Chicken/Duck		Animal		
	Number	%	Number	%	Number	%	Number	%	
Collectors (who visits the farm)	12	10.34%	7	10.00%	9	11.39%	4	5.48%	
Wholesaler in the village	42	36.21%	27	38.57%	37	46.84%	14	19.18%	
Wholesaler in nearby town or village	34	29.31%	10	14.29%	19	24.05%	31	42.47%	
Retailer in the village	59	50.86%	48	68.57%	40	50.63%	30	41.10%	
Total No. of HHs selling fish & livestock products	116	32.68%	70	19.72%	79	22.25%	73	20.56%	

Table A.34: Prevailing Marketing Channel of Fish and Livestock Products

Table A.35	: Extension	Services	Provided
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					Serv	ice Provider							
		DAE/UAO									No	NT	
Item		UAO	DAE (Project)	UAO (Not Sufficient)	UAO & NGO	UAO (Visit with No Advice)	Sub- total	NGO	Chemical Dealer	Others	Services Provided	No Answer	Total
No. of	(No.)	77	2	6	3	8	96	8	6	4	226	15	355
Respondents	(%)	22	1	2	1	2	27	2	2	1	64	4	100

				Not Satisfied	Satisfied				
Item		No Services Provided	Not Satisfied	Training or Technical Advices to be Provided*	es to Sub-total Services No Answe		No Answer	Total	
No. of	(No.)	115	63	63	241	23	3	88	355
Respondents	(%)	32	18	18	68	6	1	25	100

Table A.36: Satisfied with Extension Services Provided

Note: *Respondent suggested training & technology transfer requirements assumed to be not satisfied

Table A.37: Frequency of Visits of Extension Personnel

Extension	Extension No response/NA			Once/2 weeks		Once/3-4weeks		Once/1-3months		Seldom - No Visit	
Personnel	Count	%	Count	%	Count	%	Count	%	Count	%	
UAO Staff	29	8%	2	1%	23	6%	53	15%	248	70%	
UFO Staff	173	49%	3	1%	11	3%	11	3%	157	44%	
DLO Staff	222	63%			2	1%	4	1%	127	36%	
NGO	263	74%			3	1%	13	4%	76	21%	

Note: Proportion to total respondents 355

UAO - Upazila Agriculture Office; UFO - Upazila Fishery Office; DLO - District Livestock Office

Table A.38: Farm Inputs Supply - Seeds (Where do you procure seeds?)

Item		L	ocal Supplier	BADC/	Self-		No		
		Local Market/Dealer	Upazila Market/Dealer	Sub-total	DAE	multiplied Seed	Others	Answer	Total
No. of	(No.)	283	5	288	34	3	3	3	355
Respondents	(%)	80	1	81	10	1	1	1	100

Table A.39: Farm Inputs Supply - Fertilizer (Where do you procure fertilizer?)

Item		L	ocal Supplier		No		
		Local Market/Dealer	Upazila/Town Dealer	Sub-total	BADC/DAE	Answer	Total
No. of	(No.)	233	56	289	63	3	355
Respondents	(%)	66	16	81	18	1	100

Table A.40: Farm Inputs Supply - Agrochemicals (Where do you procure agrochemicals?)

Item		L	ocal Supplier			Chemical	No	
		Local Market/Dealer	Upazila/Town Dealer	Sub-total	BADC/DAE	Shop	Answer	Total
No. of	(No.)	280	34	314	21	17	3	355
Respondents	(%)	79	10	88	6	5	1	100

Table A.41: Accessibility to Farm Credit

Item		Easy	Difficult	No Access	No Answer	Total
No. of	(No.)	47	233	75	0	355
Respondents	(%)	13	66	21	0	100

Organization/Agency	Major Activities	Obligations	Problems Reported	No. Respoi	-
			Reporteu	No.	% *
ASA (NGO)	Micro credit & saving	Monthly installment of loan	High interest rate	10	3
Bangladesh Krishi Bank	Agriculture loan			13	4
BRAC	Agriculture loan			4	1
Grameen Bank	Micro credit & saving			15	4
ICM/IPM Club	Integrated crop/pest management (FFS)		No training room	7	2
PAPI (NGO)	Micro credit, saving & training			6	2
Others				11	3
No answer				289	81

Note: *Proportion to total sample farmers 355

Part E Development Activities/Projects

		No. of Respondents		
Organization/Agency	Major Activities	No.	%*	
DAE	Training (compost making/IPM/ICM)	13	4	
ASA (NGO)	Micro credit & saving	4	1	
Grameen Bank	Micro credit & saving	4	1	
PAPI (NGO)	Micro credit, saving & training	6	2	
Akti Bari Akti Khamar	Personnel & social development	5	1	
Others		14	4	
No answer		338	95	

Table A.43:	Participation	in Agriculture	Development	Intervention
	i ai noipanon		Development	inver , entron

Note: *Proportion to total sample farmers 355

Part F Problems/Constraints, Needs & Future Aspirations

Regarding the result of Question from F.1 to F3, please see the result in the Chapter 5.1.14 (2) "Findings of Household Survey" for Agriculture, and Chapter 6.2.1. (4) "Findings of Household Survey" for Fisheries.

Part G Losses Caused by Floods

Table A.44:	Economic	Loss of	the Pr	oduct and	l Asset by	Flash Flood
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	Loss of Production in % (Average per affected HH)						Loss of Asset			
	Bor	o Rice	Othe	Other Crops		Fish Production		Loss of Asset		
Year	No. of samples	Avg. loss of production	No. of samples	Avg. loss of production	No. of samples	Avg. loss of production	No. of samples	Total (TK)	Average (TK)	
2004	<u>284</u>	75%	57	79%	13	79%	133	3,118,000	23,444	
2008	62	66%	1	90%			1	2,500	2,500	
2010	<u>210</u>	53%	37	52%	9	31%	<u>71</u>	995,000	14,014	
2013	84	39%	1	50%	1	23%	46	1,099,000	23,891	

Appendixes 4.1 to 4.9

APPENDIX 4.1 Existing Rural Road

Exsiting Rural Road by Upazila (1/2)

D: / : /		Total Length	Pavement Percentage		
District	Upazila	(km)			
Netrokona	Atpara	314.16	19.1%		
	Bharhatta	535.71	9.6%		
	Durgapur	456.75	16.3%		
	Kalmakanda	715.56	8.0%		
	Kendua	615.66	13.2%		
	Khaliajuri	337.68	4.4%		
	Madan	358.11	21.3%		
	Mohanganj	280.65	23.0%		
	Netrokona-S	703.70	11.0%		
	Purbadhala	726.20	8.5%		
	Total/Average	5,044.18	12.3%		
Kishoreganj	Austagram	308.85	2.7%		
	Baijitpur	357.44	26.3%		
	Bhairab	168.99	36.9%		
	Hossinpur	411.56	17.3%		
	Itna	319.09	3.8%		
	Karimganj	581.95	10.7%		
	Katiadi	474.92	25.8%		
	Kishoreganj-s	522.42	21.8%		
	Kuliarchar	210.36	35.1%		
	Mithamoin	287.85	5.3%		
	Nikhli	216.71	13.6%		
	Pakundia	456.71	19.9%		
	Tarail	324.24	20.8%		
	Total/Average	4,641.09	17.7%		
Sunamhganj	Biswamvarpur	238.72	30.7%		
	Chatak	563.79	31.5%		
	Dakhin Sunamhganj	235.87	23.1%		
	Derai	425.05	20.2%		
	Dharmapasha	404.48	12.8%		
	Doarabazar	343.69	28.7%		
	Jogannathpur	404.28	31.0%		
	Jamalganj	246.37	21.3%		
	Sulla	228.37	10.1%		
	Sunamhganj-s	329.13	27.4%		
	Taherpur	283.56	18.9%		
	Total/Average	3,703.31	23.9%		

Exsiting Rural Road by Upazila (2/2)

District	Upazila	Total Length	Pavement Percentage		
District	Сридни	(km)	(%)		
Habiganj	Azimiriganj	177.08	6.8%		
	Bahubal	589.43	15.2%		
	Baiachong	528.39	11.8%		
	Chunarghat	676.98	25.2%		
	Habiganj-S	388.70	40.9%		
	Lakhai	166.97	17.5%		
	Nabiganj	720.19	24.9%		
	Madhabpur	560.26	24.6%		
	Total/Average	3,808.00	22.1%		
Sylhet	Balaganj	684.36	30.9%		
	Beanibazar	513.01	29.1%		
	Biswanath	504.34	38.0%		
	Companyganj	295.56	20.7%		
	Dakshin Surma	409.47	46.8%		
	Fenchuganj	173.81	39.1%		
	Golapganj	545.45	46.6%		
	Gowainghat	582.88	17.2%		
	Jaintiapur	264.28	19.3%		
	Kanaighat	770.72	15.6%		
	Sylhet-s	601.02	33.5%		
	Zakiganj	510.30	21.2%		
	Total/Average	5,855.20	29.2%		
Maulvibazar	Barlekha	651.48	29.3%		
	Juri	461.21	12.4%		
	Kamalganj	562.50	23.0%		
	Kulaura	1,003.12	20.3%		
	Maulvibazar-s	716.13	46.5%		
	Rajnagar	448.11	37.4%		
	Sreemangal	563.68	25.5%		
	Total/Average	4,406.23	27.8%		
Brahmanbaria	Akhaura	246.44	54.0%		
	Ashuganj	221.70	23.4%		
	Brahmanbaria -S	717.29	39.0%		
	Bancharampur	350.74	37.4%		
	BijoyNagar	-	-		
	Kasba	455.10	55.0%		
	Nabinagar	629.76	18.6%		
	Nasirnagar	415.89	17.0%		
	Sarail	367.03	12.9%		
	Total/Average	3,403.95	31.8%		

Source : LGRD Website

Exsiting Rula Road in the Study Area by Road Class (1/2)

District	Upazila	Upazila Road		Union Road		Village Road	
District	Opazila	Length (km)	Pvement	Length (km)	Pvement	Length (km)	Pvement
Netrokona	Atpara	81.00	59.4%	45.81	16.9%	187.35	2.19
	Bharhatta	54.32	61.2%	63.58	17.6%	417.81	1.79
	Durgapur	65.14	72.7%	73.79	27.6%	317.82	2.29
	Kalmakanda	71.24	41.2%	126.17	20.0%	518.15	0.5%
	Kendua	60.54	83.3%	130.16	15.5%	424.96	2.5%
	Khaliajuri	42.95	24.1%	103.95	2.6%	190.78	0.9%
	Madan	61.76	64.5%	52.13	34.8%	244.22	7.69
	Mohanganj	54.98	73.9%	49.04	21.5%	176.63	7.69
	Netrokona-S	61.46	66.3%	96.97	17.9%	545.27	3.5%
	Purbadhala	67.29	40.9%	117.77	19.6%	541.14	2.09
	Total/Average	620.68	59.2%	859.37	18.2%	3,564.13	2.79
Kishoreganj	Austagram	36.07	0.0%	63.61	12.9%	209.17	0.0%
	Baijitpur	66.11	72.1%	80.91	32.8%	210.42	9.4%
	Bhairab	21.90	100.0%	38.36	58.2%	108.73	16.69
	Hossinpur	36.37	94.2%	51.00	45.5%	324.19	4.29
	Itna	98.12	12.4%	52.33	0.0%	168.64	0.0%
	Karimganj	56.84	62.2%	91.43	10.1%	433.68	4.09
	Katiadi	43.51	100.0%	75.47	61.4%	355.94	9.29
	Kishoreganj-s	52.14	70.5%	60.42	55.4%	409.86	10.79
	Kuliarchar	29.20	100.0%	31.85	38.6%	149.31	21.69
	Mithamoin	36.86	40.1%	38.55	1.2%	212.44	0.09
	Nikhli	55.55	51.6%	17.74	3.8%	143.42	0.19
	Pakundia	37.31	100.0%	77.92	37.6%	341.48	7.29
	Tarail	31.04	85.3%	57.24	42.2%	235.96	7.19
	Total/Average	601.02	61.2%	736.83	32.1%	3,303.24	6.69
Sunamhganj	Biswamvarpur	43.22	52.8%	46.29	62.3%	149.21	14.69
	Chatak	124.25	79.0%	110.62	42.8%	328.92	9.89
	Dakhin Sunamhganj	44.31	41.6%	33.20	40.5%	158.36	14.39
	Derai	63.06	63.0%	141.46	23.2%	220.53	6.09
	Dharmapasha	110.33	29.6%	88.74	13.4%	205.41	3.69
	Doarabazar	47.64	97.5%	81.20	52.5%	214.85	4.59
	Jogannathpur	70.38	89.5%	112.50	35.2%	221.40	10.3
	Jamalganj	46.23	50.1%	51.09	26.3%	149.05	10.79
	Sulla	56.30	24.2%	34.80	19.1%	137.27	2.0
	Sunamhganj-s	58.96	68.5%	57.00	39.5%	213.17	12.8
	Taherpur	68.65	51.6%	57.38	19.9%	157.53	4.3
	Total/Average	733.33	59.1%	814.28	33.2%	2,155.70	8.5

Exsiting Rula Road in the Study Area by Road Class (2/2)

District	Upazila	Upazila	Upazila Road		Union Road		Village Road	
District	Opazila	Length (km)	Pvement	Length (km)	Pvement	Length (km)	Pvement	
Habiganj	Azimiriganj	45.78	9.2%	28.90	7.0%	102.40	5.69	
	Bahubal	25.00	100.0%	65.16	57.7%	499.27	5.49	
	Baiachong	158.93	25.1%	97.95	14.5%	271.51	3.09	
	Chunarghat	98.53	68.7%	50.89	51.0%	527.56	14.69	
	Habiganj-S	44.02	86.4%	56.63	67.3%	288.05	28.89	
	Lakhai	42.66	36.6%	37.45	9.9%	86.86	11.4	
	Nabiganj	92.19	88.8%	118.16	41.3%	509.84	9.6	
	Madhabpur	87.63	83.9%	83.36	30.7%	389.27	9.9	
	Total/Average	594.74	58.1%	538.50	36.4%	2,674.76	11.19	
Sylhet	Balaganj	87.26	77.9%	127.21	61.6%	469.89	13.8	
	Beanibazar	65.26	72.8%	30.45	63.4%	417.30	19.8	
	Biswanath	93.98	96.3%	75.70	68.8%	334.66	14.7	
	Companyganj	36.41	66.0%	61.32	22.2%	197.83	11.9	
	Dakshin Surma	31.25	100.0%	51.18	91.2%	327.04	34.7	
	Fenchuganj	28.69	67.5%	16.50	85.2%	128.62	26.9	
	Golapganj	109.95	72.0%	94.93	66.5%	340.57	32.9	
	Gowainghat	77.43	72.0%	55.24	42.4%	450.21	4.7	
	Jaintiapur	16.56	100.0%	47.75	43.4%	199.97	6.8	
	Kanaighat	113.45	65.4%	58.96	32.1%	598.31	4.5	
	Sylhet-s	39.46	79.1%	69.48	70.3%	492.08	24.7	
	Zakiganj	63.16	78.8%	109.97	23.4%	337.17	9.6	
	Total/Average	762.86	77.0%	798.69	53.2%	4,293.65	16.2	
Maulvibazar	Barlekha	87.66	88.7%	131.25	46.3%	432.57	12.1	
	Juri	23.21	95.7%	60.96	27.0%	377.04	4.9	
	Kamalganj	88.39	85.0%	71.85	32.7%	402.26	7.6	
	Kulaura	43.98	91.2%	162.59	51.6%	796.55	9.9	
	Maulvibazar-s	129.48	97.7%	66.31	62.2%	520.34	31.7	
	Rajnagar	88.89	87.3%	72.41	65.3%	286.81	14.9	
	Sreemangal	77.15	91.3%	95.81	44.6%	390.72	7.9	
	Total/Average	538.76	90.9%	661.18	47.8%	3,206.29	13.1	
Brahmanbaria	Akhaura	24.46	78.4%	44.41	61.4%	177.57	48.8	
	Ashuganj	28.48	74.1%	13.87	90.1%	179.35	10.2	
	Brahmanbaria -S	85.07	76.5%	154.37	60.0%	477.85	25.5	
	Bancharampur	76.09	75.5%	67.16	58.6%	207.49	16.6	
	BijoyNagar							
	Kasba	67.17	84.5%	77.06	91.6%	310.87	39.6	
	Nabinagar	91.47	57.2%	82.97	29.6%	455.32	8.9	
	Nasirnagar	88.33	60.8%	49.47	29.3%	278.09	0.9	
	Sarail	28.53	51.8%	40.12	43.8%	298.38	5.0	
	Total/Average	489.60	69.5%	529.43	56.5%	2,384.92	18.5	

Source : LGRD Website

APPENDIX 4.2 Existing Market Facility

List of Market by Upazila in the Study Area

Division/District	Upazila	Growth Center	Rural Market(Hat)	Total
lhet				
1. Sunamganj	1. Chhatak	5	41	46
0.0	2. Doarabazar	4	23	27
	3. Shalla	3	7	10
	4. South Sunamganji	3	10	13
	5. Bishwamvarpur	3	26	29
	6. Dharmapasha	5	20	25
	7. Jamal Ganji	4	13	17
	8. Tahirpur	4	15	19
	9. Derai	5	17	22
	10. Jagannathpur	5	29	34
	11. Sunamganji Sadar	3	15	18
	Total	44	216	260
2. Sylhet	1. Gowainghat	5	42	47
	2. Sylhet Sadar	4	56	60
	3. Biswanath	4	36	40
	4. Golapganj	5	38	43
	5. Kanaighat	5	26	31
	6. South Shurma	3	28	31
	7. Beanibazar	5	40	45
	8. Fenchuganj	2	17	19
	9. Jaintapur	4	6	10
	10. Zakigannj	6	21	27
	11. Balaganj	5	69	74
	12. Companigannj	4	19	23
	Total	52	398	450
3. Habiganj	1. Habiganj Sadar	4	22	26
	2. Bahubal	4	17	21
	3. Lakhai	3	14	17
	4. Nabiganj	4	58	62
	5. Ajmiriganj	3	3	6
	6. Chunarughat	5	25	30
	7. Baniachong	5	20	25
	8. Madhabpur	5	18	23
	Total	33	177	210
4. Moulvibazar	1. Kulaura	4	36	40
	2. Sreemangal	5	26	31
	3. Kamal Ganj	6	20	26
	4. Rajnagar	4	28	32
	5. Juri	2	15	17
	6. Baralekha	6	29	35
	7. Moulvibazar Sadar	5	43	48
	Total	32	197	229

Source : LGED District Office

			((Unit : Number)
Division/District	Upazila	Growth Center	Rural Market(Hat)	Total
Dhaka	-	•		
5. Kishoreganj	1. Pakundia	4	23	27
	2. Bajitpur	4	25	29
	3. Itna	4	18	22
	4. Kishoreganj Sadar	4	51	55
	5. Nikli	4	15	19
	6. Austagram	3	9	12
	7. Hossainpur	3	24	27
	8. Katiadi	4	34	38
	9. Mithamaine	4	9	13
	10. Tarail	3	22	25
	11. Bhairab	3	26	29
	12. Karimganj	4	40	44
	13. Kuliarchar	3	12	15
	Total	47	308	355
6. Netrokona	1. Mohanganj	4	27	31
	2. Kalma Kanda	5	35	40
	3. Purbadhala	4	46	50
	4. Atpara	4	20	24
	5. Durgapur	4	28	32
	6. Madan	4	27	31
	7. Khaliajuri	4	13	17
	8. Barhatta	4	27	31
	9. Netrokona Sadar	5	60	65
	10. Kendua	5	45	50
	Total	43	328	371
Chittagong				
7. Brahmanbaria	1. Kasba	4	42	46
	2. Ashuganj	3	19	22
	3. Sarail	3	21	24
	4. Bancharampur	4	33	37
	5 Bijoynagar	3	33	36
	6 Brahmanbaria Sadar	1	56	57
	7 Nasimagar	5	30	35
	8 Akhaura	2	18	20
	9 Nabinagar	7	44	51
	Total	32	296	328

Source : LGED District Office

APPENDIX 4.3 Interview Sheet

Interview (part 1)

(1) Habiganj District

	Interview Sheet		No.1
Part A General			
Name of the enumerator :		Date of the interv	view
Md. Hafizur Rahman Khan		26/06/2013	

Name of the Place : Executive Engineer's Office, LGED, Habiganj. Name of the respondent : Mr. Rabiul Islam, Executive Engineer, LGED

Part B Target Area

Seven Districts ; Netrokona, Kishoreganj, Sunamhganj (Habiganj) Sylhet, Maulvibazar, Brahmanbaria

Part C Target Facility

1. Rural Road, 2. Market Facility, 3. Boat Landing Facility and 4. Irrigation Facility

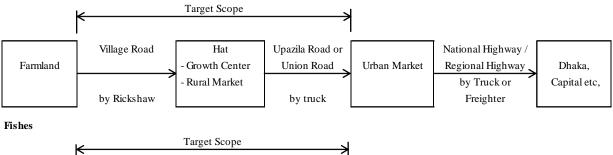
Part D Interview

D.1	Importance for Distribu	tion of Agricultural & Fishery	Products and Household Goods.

facility	Importance	Reason		
Rural Road	Very High, DHigh,	Rural Road carries out a very important part for		
	□Middle, □Low	distribution and Marketing. Good roads have always		
		reduced transportation cost and creates new jobs.		
Market Facility	□Very High, □High,	Developed Market facility carries out important role		
	□Middle, □Low	for economic development of the villagers.		
		They can sale produced commodities and buy their		
		essential commodities in all weather.		
Boat Landing Facility	□Very High, □High,	Hoar area is water logged for more than 7months of		
	□Middle, □Low	the year, during the period only boats become their		
		transport means. Good landing facilities reduce risk		
		of loading and unloading.		
Irrigation Facility	□Very High, □High,	Irrigation is required for cultivation when there no		
	□Middle, □Low	water/ rainfall. In Haor areas when water recedes,		
		they cultivate their fields. If irrigation facilities are		
		provided more land, it will be under cultivation and		
		will get good yield.		

D.2 Existing Distribution (Mainly)





	K					
Water Body	Ghat (Jetty)	Hat	Upazila Road or		National Highway /	Dhaka,
- River		- Growth Center	Union Road	Urban Market	Regional Highway	Capital etc,
- Beel etc,		- Rural Market			by Truck	Export
	Village Road		by truck		or Freighter	
	by Rickshaw					

D.3 Existing and Problem

facility	Existing and Problem
Rural Road	UZR (Upazila Road) is the most important, UNR (Union Road) is less important
	than UZR and UVR (Village Road) are less important.UZR are 60% Paved, UNR
	are 40% Paved and UVR are 10% are paved. The most important problems are
	with unpaved 40% UZR.
Market Facility	Growth Center Market (GCM) is the most important. Rural Markets are less
	important than GCM. There are 33nos. of GCM. 26 nos. are developed. 21% (7
	nos.) of GCM are undeveloped. There are total 177 nos. Rural Markets. Only 3
	nos. are developed. The most important problems are with undeveloped 21%
	GCM.
Boat Landing	Boat Landing Facility also carries outs an important role in the village life in Haor
Facility	areas. During monsoon season boats are transport means of the village people in
	Haor area.
Irrigation Facility	Number of irrigation facility at present is uneconomic. Most of farmers irrigate
(Low Lift Pump)	their lands by pumping water from nearby ditches/channels/rivers. Sometimes
	ditches and channels gets dried up during dry season then the farmers can't
	safe their crops.

(2) Netrokona District

Interview Sheet

Part A General

Name of the enumerator :	Date of the interview
Md. Hafizur Rahman Khan	04/07/2013

Name of the Place : Netrokona, LGED

(Over Telephone)

Name of the respondent : Md, Kamrul Hasan, Executive Engineer, LGED.

Part B Target Area

Seven Districts ; (Netrokona, Kishoreganj, Sunamhganj, Habiganj, Sylhet, Maulvibazar, Brahmanbaria

Part C Target Facility

1. Rural Road, 2. Market Facility, 3. Boat Landing Facility and 4. Irrigation Facility

Part D Interview

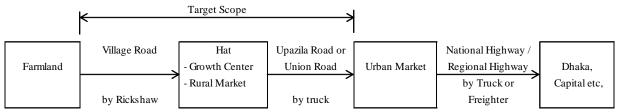
D.1	Importance for Distribution	on of Agricultural &	& Fishery Products	and Household Goods.

facility	Impo	rtance	Reason (<u>Example</u>)
Rural Roads	□√Very High,		Rural Road carries out a very important part for
	⊐High,	□Middle,	distribution and Marketing. Good roads have always
	□Low		reduced transportation cost and create new jobs.
Market Facility	□√Very	High,	Developed Market facility carries out important role
	⊐High,	□Middle,	for economic development of the villagers.
	□Low		They can sale produced commodities and buy their
			essential commodities in all weather.
Boat Landing Facility	□√Very	High,	Hoar area is water logged for more than 7months of
	⊐High,	□Middle,	the year, during the period only boats become their
	□Low		transport means. Good landing facilities reduce risk of
			loading and unloading.
Irrigation Facility	□√Very	High,	Irrigation is required for cultivation when there no
(low Lift Pump)	⊐High,	□Middle,	water/ rainfall. In Haor areas when water recedes, they
	□Low		cultivate their fields. If irrigation facilities are
			provided more land, it will be under cultivation and
			will get good yield.

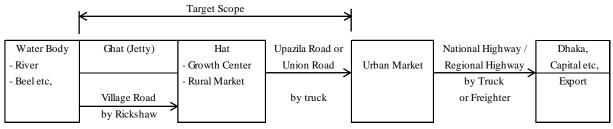
No. 2

D.2 Existing Distribution (Mainly)

Rice



Fishes



D.3 Existing and Problem

facility	Existing and Problem (Example)				
Rural Road	UZR (Upazila Road) is the most important, UNR (Union Road) is less importa				
	than UZR and UVR (Village Road) are less important.UZR are 59.% Paved,				
	UNR are 18.% Paved and UVR are 2.7% are paved. The most important				
	problems are with unpaved 41% UZR.				
Market Facility	Growth Center Market (GCM) is the most important. Rural Markets are less				
	important than GCM. There are 43nos. of GCM. 30 nos. are developed. 40% (13				
	nos.) of GCM are undeveloped. There are total 328 nos. Rural Markets. Only 37				
	nos. are developed. The most important problems are with undeveloped 40%				
	GCM.				
Boat Landing Facility	Boat Landing Facility also carries outs an important role in the village life in				
	Haor areas. During monsoon season boats are transport means of the village				
	people in Haor area.				
Irrigation Facility	Number of irrigation facility at present is uneconomic. Most of farmers				
(Low Lift Pump,	irrigate their lands by pumping water from nearby ditches/channels/rivers.				
Shallow Tubewell)	Sometimes ditches and channels gets dried up during dry season then the				
	farmers can't safe their crops.				

(3) Sunamhanj District

Interview Sheet

Part A General

Name of the enumerator :	Date of the interview
Md. Hafizur Rahman Khan	04/07/2013

Name of the Place : Sunamganj, LGED (Over Telephone)

Name of the respondent : Md, Iqbal Ahmmed , Executive Engineer, LGED.

Part B Target Area

Seven Districts; Netrokona, Kishoreganj, Sunamhganj) Habiganj, Sylhet, Maulvibazar, Brahmanbaria

Part C Target Facility

1. Rural Road, 2. Market Facility, 3. Boat Landing Facility and 4. Irrigation Facility

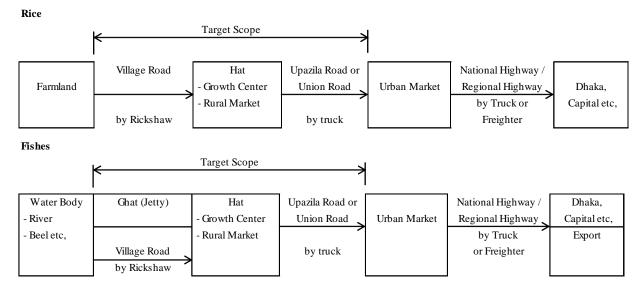
Part D Interview

D.1	Importance for Distributi	on of Agricultural	& Fishery Produc	ets and Household Goods.

facility	Impor	rtance	Reason (<u>Example</u>)
Rural Roads	□√Very	High,	Rural Road carries out a very important part for
	⊐High,	□Middle,	distribution and Marketing. Good roads have always
	□Low		reduced transportation cost and create new jobs.
Market Facility	□√Very	High,	Developed Market facility carries out important role
	⊐High,	□Middle,	for economic development of the villagers.
	□Low		They can sale produced commodities and buy their
			essential commodities in all weather.
Boat Landing Facility	□√Very	High,	Hoar area is water logged for more than 7months of
	□High,	□Middle,	the year, during the period only boats become their
	□Low		transport means. Good landing facilities reduce risk of
			loading and unloading.
Irrigation Facility	□√Very	High,	Irrigation is required for cultivation when there no
(Low Lift Pump)	□High,	□Middle,	water/ rainfall. Part of district is Haor areas and other
	□Low		Part is high area. If irrigation facilities are provided
			more land, it will be under cultivation and will get
			good yield.

No. 3

D.2 Existing Distribution (Mainly)



D.3 Existing and Problem

facility	Existing and Problem (Example)						
Rural Road	UZR (Upazila Road) is the most important, UNR (Union Road) is less important						
	than UZR and UVR (Village Road) are less important.UZR are 59% Paved,						
	UNR are 33% Paved and UVR are 8.5% are paved. The most important						
	problems are with unpaved 41% UZR.						
Market Facility	Growth Center Market (GCM) is the most important. Rural Markets are less						
	important than GCM. There are 44nos. There are total 216 nos. Rural Markets.						
	The most important problems are with undeveloped GCM.						
Boat Landing Facility	Boat Landing Facility also carries outs an important role in the village life in						
	Haor areas. During monsoon season boats are transport means of the village						
	people in Haor area.						
Irrigation Facility	Number of irrigation facility at present is uneconomic. Most of farmers						
(Low Lift Pump,	irrigate their lands by pumping water from nearby ditches/channels/rivers.						
Shallow Tubewell)	Sometimes ditches and channels gets dried up during dry season then the						
	farmers can't safe their crops.						

(4) Kishoreganj District

Interview Sheet

Part A General

Name of the enumerator :	Date of the interview
Md. Hafizur Rahman Khan	04/07/2013

Name of the Place : Kishoreganj, LGED

(Over Telephone)

Name of the respondent : Md, Amirul Islam , Senior Assistant Engineer, LGED.

Part B Target Area

Seven Districts ; Netrokona, Kishoreganj, Sunamhganj, Habiganj, Sylhet, Maulvibazar, Brahmanbaria

Part C Target Facility

1. Rural Road, 2. Market Facility, 3. Boat Landing Facility and 4. Irrigation Facility

Part D Interview

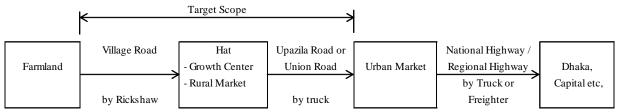
D.1 Importance for Distribution of Agricultural & Fishery Products and Household Goods.

facility	Impor	rtance	Reason (<u>Example</u>)
Rural Roads	□√Very	High,	Rural Road carries out a very important part for
	□High,	□Middle,	distribution and Marketing. Good roads have always
	□Low		reduced transportation cost and create new jobs.
Market Facility	□√Very	High,	Developed Market facility carries out important role
	⊐High,	□Middle,	for economic development of the villagers.
	□Low		They can sale produced commodities and buy their
			essential commodities in all weather.
Boat Landing Facility	□√Very	High,	Hoar area is water logged for more than 7months of
	□High,	□Middle,	the year, during the period only boats become their
	□Low		transport means. Good landing facilities reduce risk of
			loading and unloading.
Irrigation Facility	□√Very	High,	Irrigation is required for cultivation when there no
(Low Lift Pump)	□High,	□Middle,	water/ rainfall. Part of district is Haor areas and other
	□Low		Part is high area. If irrigation facilities are provided
			more land, it will be under cultivation and will get
			good yield.

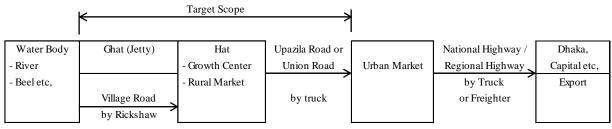
No. 4

D.2 Existing Distribution (Mainly)

Rice



Fishes



D.3 Existing and Problem

facility	Existing and Problem (Example)						
Rural Road	UZR (Upazila Road) is the most important, UNR (Union Road) is less important						
	than UZR and UVR (Village Road) are less important.UZR are 61% Paved,						
	UNR are 32% Paved and UVR are 6.6% are paved. The most important						
	problems are with unpaved 39% UZR.						
Market Facility	Growth Center Market (GCM) is the most important. Rural Markets are less						
	important than GCM. There are 47nos. of GCM. There are total 328 nos. Rural						
	Markets. The most important problems are with undeveloped GCM.						
Boat Landing Facility	Boat Landing Facility also carries outs an important role in the village life in						
	Haor areas. During monsoon season boats are transport means of the village						
	people in Haor area.						
Irrigation Facility	Number of irrigation facility at present is uneconomic. Most of farmers						
(Low Lift Pump,	irrigate their lands by pumping water from nearby ditches/channels/rivers.						
Shallow Tubewell)	Sometimes ditches and channels gets dried up during dry season then the						
	farmers can't safe their crops.						

Interview (part 2)

- (1) Objective: To collect issues of gats (boat landing facility)
- (2) Target persons:

Survey Team interviewed with the following LGED district Engineers about ghats on November.

No.	District	Name/Position					
1	Habiganj	Md, Rabiul Islam, Executive Engineer					
2	Netrokona	Netrokona Md, Kamrul Hasan, Executive Engineer					
3	Sunamganj	Md, Iqbal Ahmmed , Executive Engineer					
4	Kishoreganj	Md, Amirul Islam , Senior Assistant Engineer					

(3) Interview

No.	Question	Habiganj	Netrokona	Sunamganj	Kishoreganj
1-1	Is there shortage of ghats in the district?	Yes	Yes	Yes	Yes
1-2	Number of existing ghats in the district (approximately).	4	20	13	35
1-3	Number of required ghats in the district (approximately).	20	50	66	28
2-1	Is there deterioration of ghats in the district?	No	Yes	Yes	Yes
2-2	Proportion of deteriorated ghats in the district (approximately).	0%	75%	25%	50%
3-1	Existing main type of ghats in the district.	Step and Slope	Step and Slope	Step and Slope	Step and Slope
3-2	Existing material of ghats in the district.	Concrete & Earth	Concrete	Concrete & Earth	Concrete
3-3	Required main type of ghats in the district.	Step and Slope	Step and Slope	Step and Slope	Step and Slope
3-4	Required material of ghats in the district.	Concrete	Concrete	Concrete	Concrete

APPENDIX 4.4 Field Survey

Photos

Subject : Upazila Road (UZR)

Place : Baniachan Upazila in Habiganj



Date : June 27 2013



UZRUZR(Baniachang to Borobazar, L=1.75km, LGED)(Baniachang to Borobazar, L=1.75km, LGED)Upazila roads play important roles in distributing food etc. as one of major rural roads.

Subject : Village Road

Place :Baniachang Upazila in Habiganj

Date : June 27 2013



Adarshbazar-Takbazkhani Village Road * (LGED)



Adarshbazar-Takbazkhani Village Road * (LGED)

*Undeveloped Village roads provide low trafficability and therefore transportation is inefficient.

Subject : Village Road

Place : Baniachan Upazila in Habiganj





Village Road (Rantna Rural Market –Muredpur
Union Parishad Office, LGED)Village Road (Rantna Rural Market
–Muredpur Union Parishad Office, LGED)Houses are built just close by a Village road passing through a residential area.

Subject : Growth Center (GCM)

Place : Baniachan Upazila in Habiganj



Date : June 27 2013



Borobazar Growth Center (LGED)* Borobazar Growth Center (LGED)* There are many shops, which play an important role in economic development.



Sutang Rural Market (LGED) Sheds and toilets are developed in a lot of hat areas.



Sutang Rural Market (LGED)

Subject : Boat Landing Facility

Place : Baniachan Upazila in Habiganj

No.05



Kalardoba Boat Landing Facility (Zila Boad)* Ghats are mainly Concrete Step type.

Subject : Boat Landing Facility

Place : habiganj-s Upazila in Habiganj



Kalardoba Boat Landing Facility (Zila Boad)*

No.06



Sutang Bajar Ghat (LGED)* In many case, ghats are constructed together with hats.



Sutang Bajar Ghat (LGED)*

Fi
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Subproject Lists Appendix 4.5

APPENDIX 4.5 Subproject List

Initial list of candidate subproject (rural road, Kishoreganj) (1/2)

						Total	Total Screening								Haor Project
SL	Read Code	Road Name	Name of Upazita	Name of Union	Plan Road Type	Length (km)	No.1	No.2	No3	No.4	No5	No.6	No7	Selection	'No.
1-1	348793002	Tarakandi bazar-Char Faradi UP Rd.	Pakundia	Jangalia Union Char Faradi Union	(0.0)	5 79	Ø	0	Ø	Ø	0	0	Х	X	
1.2	348793005	Hossendi UP-Motkhola GC Via Alamdi	Pakundia	Hosendi, Burudia, Agarosindur Up	-11/200	8.30	0	0	0	0	Q	0	0	0	R5
1.3	348793006	Hossendi UP-Ashutia old bazer Rd via Mongalbaria and Thutarja	Pakundia	Hosendi "Pakundia Sukhia Up	1.40.00	11.93	0	0	Ø	Ö	0	0	0	0	R5
1-4	348793007	Pakundia UP-Mosua hat via Saluadi	Pakundia	Pakundia, Hosendi, Burdia, Patuabhanga,	210	9,97	0	0	Q	0	0	0	0	0	R5
1.5	548063001	Ujanchar bazar-Halanpur UP Rd	Bajitpur	Pirijpur Union, Halimpur Union.	tivus	7.05	0	0	0	Q	U	0	0	0	NS
1-6	308063004	Gajirchar UP Office-Baliardi UP Office Via Akhra	Bajitpur	Gazir Char Union, Baliadi Union	- Liver -	5.62	0	X				-		х	
1.7	308063007	Sararchar-Bangla Bazar Raud	Bajitpur	Serar Char Union	7000	5.15	Ø	X			1			X	1
1-8	348335041	Mowra-Chandrapur hat Rd.	Itna	Chowganga Union	VRB	3.00	Ó.	0	0	0	٥	0	0	0	N7
1.9	348332004	Itna-Kakailchew Road	Itna	Itna Joysiddi Union	UZR.	13.37	0	0	0	0	0	0	0	0	N9
1-10	348333007	Badla UP-Barshikura Hat Road	Itna	Badla Union	1.0.97	3.00	0	0	0	0	0	0	0	0	N7
1-11	348493009	Danapatuli UP-Jalia bazar	Sadar	Danapatuli	1000	2.61	0	0	Ø	0	0	0	Q	0	NI
-12	348494017	Tilaknathpur-Dakshio Gobindapur Ra	Sadar	Korsha Kariail	VRA	2.34	0	X						X	
1-13	348494044	Kishoregonj Textile to Kishoegonj-Chouddasata Rd	Sadar	Josedal	VRA	2.60	0	X		0				X	
-14	348494048	Chouddasata UP to Brindaghor Rd	Sadar	Chawddasata	VRA	2.42	0	X			1			Х	
-15	348494052	Baratopa-Thadapara Bazer Road	Sadar	Rashidabad	VRA	4.66	0	0	0	0	0	0	Ø	D.	R4
-16	348494056	Joybangia Bazar to Barokhalpar Rd	Sadar	Chawddasata	VRA	2.30	0	X					-	Х	
-17	348495216	Kishoreganj -Karimganj Road - Yakubganj Bazar, Shubandi road,	Sadar	Boulai	VRB	1,50	O	X						X	
-18	348764005	Jariatala UP office-Chetra Road	Niki	Jaraitala Union	VRA	2:00	0	0	Q	0	0	0	0	0	NI
-19	348765009	Giroi UP office-Chapirchar Rd	Nikli	Gunue Union	VRB	0.64	0	0	0	0	0	0	0	0	NS
-20	348765037	Shetraakhra-Borun beel Rd.	Nikli		VRB	1,50	0	Х						X	
-21	348022002	Austagram-Milamoin Road	Austagram	Austagram Kastul Umon	ASZIR.	10.20	0	0	Ø	0	Ō	0	Ō	0	No
-22	348023004	Austagram-Badha ghat-Kalma UP office read	Austagram	Kastul,Purba Austagram,Kalma UP	- CO.	9,53	D	0	0	O	0	0	0	0	No
-23	348023005	Anstagram-Mohishertilla-Gagra UP office Rd	Austagram	Austagram Union	2004	11.37	0	0	0	0	0	0	0	0	N6
-24	348023008	Austagram U P-Austagram GC road	Austagram	Adampar Union	1 CHE	0.80	Q	0	Ø	Ø	0	0	Х	X	
-25	348273005	Gobindapur Chowrasta bazar-Gobindapur UP H/Q Road	Hossampur	Gobindapur Union	1 IIII	2.08	0	0	0	0	0	Ö	X	X	R.4
-26	348273007	Char Pumdi bazar-Pumdi UP E/Q Road	Hossainpur	Pundi Union	- # confil	4.45	0	0	0	0	0	0	0	O	R4
-27	348273009	Adu Master bazar-Shahedal UP H/Q Road	Hossainpur	Pundi Gmon Sahedal Union	1 0.000 A	3,00	O	0	0	0	Ô	0	0	0	R4
-28	348273010	Gobindapur UP H/Q-Janata bazar Road	Hossainpur	Gobindapur Union	0.1100	4.00	Ø	0	0	0	0	0	0	Q	R4
-29	348274038	Gangahatia bazar-Janata bazarvia Abdul Aziz H/S road	Hossainpur	Gobindapur Union	VRA	4.87	0	0	0	0	0	0	0	Q	R 4
-30	348274039	Birpaiksha Zia Road to Kalichapra Road Via Shahabuddin Membe	Hossainpur	Sahedal Union	VRA	4,00	Ø	X	_		1			x	
-31	348453005	Munurdia UP H/Q-Boalia bazar Rd	Katiadi	Mumurdia Union	0.00	2,61	0	X						X	
-32	348453007	Achmita UP H/Q-Pong Masua bazar Rd.	Katiadi	Actenita Masua Up	tale .	2,10	0	Ő.	Q	0	0	Ø	0	0	R6
-33	348453009	Banagram I/P H/QMadhyapara bazar Rd	Katiadi	Banagram Union	THE .	5.40	0	X	100					X	
-34	348592002	Mithamoin Sadar-Karinganj Boardar Balikhola Road	Mithamoin	Mithanoin,Gopdeghi Up	1.1221	10.00	0	0	Ø	Ø	0	0	0	0	N2
-35	348593001	Mithamoin Noya hati-Dhaki UP Office Rd.	Mithamoin	Mithamoin Dhaki Up	1.000	9.59	0	O.	0	0	0	0	0	0	N2

Final Report

Initial list of candidate subproject (rural road, Kishoreganj) (2/2)

		RICT : KISHOREGANJ	1.000		Deserved I	Total				Screening	2			Selection	Haor Project
SL	Road Name	Name of Upazila	Name of Union	Plan Road. Type	Length (km)	No.1	No.2	No3	No.4	No5	No.6	No7	actection	Nó.	
1-36	348594001	Singua Ferry ghat-Bagadia Bazar Rd.	Mithamoin	Gopedighi Union	VRA	3.00	0	Q	0	0	0	0	0	0	N2
1-37	348923004	Thana H Q-Dhamiha Bazer	Tarail	Damiha	URR	3.54	0	0	0	0	Q	0	0	Q	N7
1-38	348923006	Taizanga UP-Sunamgonj Bazar	Tarail	Talganga Union	1.1	3,60	0	Х	1.1					X	
1-19	348923010	Jawer UP-Dhamiba UP via Echapashar	Tarail	Jawer	1112	3.31	0	0	0	0	Ø	Ö	0	0	N6
1-40	348113003	Shimulkandi UP H.Q-Ananda Bazar Rd	Bhairab	Shimulkandi Aganagar Union	The C	4.70	0	x				T		X	
1-41	348113004	Sreenagar UP office to Gochamara Bazar up to Darichandiber	Bhairab	Sreenagar ,Shimulkandi Union	17.000	5.51	0	X						X	
1-42	348113011	Panaullarchar R&H to Chanchera bazar via Shibpur UP office & V	Bhairab	Shibpur Untan	1.308-1	3.00	0	X				1	()	X	
1-43	548114008	Bashgari Circular rd(via west para and east para)	Bhairab	Gazaría Union	VRA	4.50	0	X				-		X	
1-44	348422008	Niamatpur-Gundhar GC Road via Pazifkhali Bazar	Karimganj	Niamatpur Baragharia Gundhar Union	LZZR:	12.90	0	0	0	0	0	0	0	0	N9
1-45	348423009	Karimganj UP H/Q-Beltali Bazar Road via Sataradaria	Karimganj	Karunganj Pourashava, Kadir Jungle	 KUblings 1 	7,55	0	X	1.1		St.	1		X	-
1-46	348423016	Baragaria UP H/Q-Gabtali Bazar Road	Karimganj	Baraghana Union		3.50	0	х		_		-		X	
1-47	348543002	Chhaysuti UP Office[R&H]-Palita Bazar via Madhobdi, Palanpur R	Kuliarchar	Chhaysuti Union Kuliarchar Pourashava	1.000	4.97	0	0	0	0	0	0	0	0	R7
1-48	348543006	Dumrakanda Bazar-Ramdi UP Office Rd	Kuliarchar	Salua Union Ramdi Union	V - 1100 - V	5,38	0	0	0	0	0	0	0	0	R9

RURAL ROAD SCREENING
DISTRICT · NETROKONA

SL	Road Code	Road Name	Name of Upazila	Name of Union	Plan Road	Total	-			Screenin	50			Section	Haor
NO.	20402 0.025				Туре	Length (km)	No.1	No.2	No.3	No.4	No.5	No.6	No.7		Project N
2-1			Mohanganj					-	- 1	1.2	-	-	-	(A)	
2-2			Kalma Kanda				i tent	-	-	-	-			÷	
2-3	372833002	Purbadhala (Kalduar)-Ghagra UP (Kapashia) road via Ghagra bazar	Purbadhala	Ghagra	UNR	3.36	0	0	0	0	0	0	0	0	R1
2-4	372833012	Ghagra UP (Kapashia)-Jaria Bazar road via Katwari	Purbadhala	Ghagra	LINK	6.00	0	0	0	0	0	0	0	0	R1
2-5		Jaria Purbopara-Jaria Switch Gate via RPSchool Rd.	Purbadhala	Jaria	VRB	3.00	0	0	0	0	0	. 0	0	0	R2
2-6		Kalihor R&H-Dampara via Chander Bazar	Purbadhala	Hogla	VRA	3.00	0	0	0	0	0	0	0	0	R1
2-7	372835039	Shahala-Hatkhala Bazar	Purbadhala	Hogla	VRB	3.20	0	0	0	0	0	0	0	0	R1
2-8	372045016	Gopalasram-Madukal	Atpara	Sukari	VRB	1.50	0	0	0	0	0	0	0	0	N11
2-9	372045034	Ukrakhal Road	Atpara	Sukari	VRB	1.75	0	0	0	0	0	0	0	0	N11
2-10	372045036	Duaz bazar road	Atpara	Duaz	VRB	1.50	0	0	0	0	0	0	0	0	N11
2-11	372045037	Sukari Badirakola	Atpara	Sukari	VRB	2.00	0	0	0	0	0	0	0	0	N11
2-12	372045066	Chargati GPS road	Atpara	Duaz	VRB	2.00	0	0	0	0	0	0	0	0	N11
2-13	372045068	Sunajur bazar	Atpara	Duaz	VRB	2.00	0	0	0	0	0	X	Х	X	
2-14			Durgapur						-	-	-				
-15			Madan		1		1			-	×	1.2		-	1 - C
2-16	372383009	Upazila HQ - Gazipur UP office rd.	Khailajuri	Khailajuri& Gazi[pu	IJNR.	8.50	0	0	0	0	0	0	0	0	R15
2-17	372383010	Gazipur UP office-Panchhat bazar rd.	Khailajuri	Gazipur	USIR	13.14	0	0	0	0	0	0	0	0	R15
2-18	372383011	Khaliajuri UP office - Panchhat bazar rd.	Khailajuri	Khailajuri	1759B	10.00	0	0	0	0	0	0	0	0	R15
2-19	372384012	Hayatpur-Chanpur via Khusalpur	Khailajuri	Nogar	VRA	5.00	0	0	0	0	0	0	0	0	R15
2-20	372092007	Amtala-Samaj GC Road (Barhatta Portion)	Barhatta	Sahata & Barhatta	UZR	6.24	0	0	0	0	0	0	0	0	N5
2-21	372092009	Atitpur Bazar (R&H)-Chandrapur Bazar via Huzrabari, Dariapur,	Barhatta	Barhatta	UZR	4.47	0	0	0	0	0	0	0	0	N5
-22	372092003	Barhatta Ferryghat-Monash Bazar.	Barhatta	Asma	UZR	2.50	0	0	0	0	0	0	X	Х	· · · · ·
2-23	372093006	Barhatta UP-Tomal Tala Bazar Road	Barhatta	Barhatta	LINR	0.63	0	0	0	0	0	0	X	X	
2-24	372093002	Barhatta UP-Gajir Bazar (Jitan) Rd.	Barhatta	Barhatta	LTNR	2.80	0	0	0	0	0	0	X	X	
2-25	372093004	Barhatta Ferryghat (UP)-Horiatola bazar.	Barhatta	Asma	INT	6.47	0	0	0	0	0	0	0	0	N5
2-26	372093007	Fakirer Bazar-Sidly Bazar Rd via Roypur UP	Barhatta	Roypur	UNIR	3.01	0	X					223	Х	
-27	372093010	Barhatta UP office -Chandrapur Bazar rd. via Gumuria Madrasha,	Barhatta	Asma	UNIT	4.95	0	0	0	0	0	0	X	Х	1000
-28	372094015	Rambhadrapur FRB-Naihati Bazar Rd	Barhatta	Boushi, Asma &	VRA	4.39	0	0	0	0	0	0	0	0	N5
2-29			Netrokona Sadar					-		1.7-2	-	-			-
2-30	372473004	Asujia UP office - Singergoan Clab Ghar Bazar	Kendua	Asujia	171917	0.58	0	X					X	x	
2-31	372473011	Asujia UP office - Gopalpur Bazar via Amlitola and Sarapara Bazar.	Kendua	Asujia	TUME	7.68	0	X			1 3	-	Х	Х	
2-32	372475010	Muzafarpur Pacca road (Gogda Bazar) - Sunai Beel.	Kendua	Mozafafpur	VR-B	1.20	0	0	0	0	0	0	0	0	N6
2-33	372475053	Batta - Kachari road	Kendua	Chirang	VR-B	0.65	0	0	0	0	0	0	0	0	N6

Initial list of candidate subproject (rural road, Netrokona)

Nippon Koei Co., Ltd.

Subproject Lists Appendix 4.5

Final Report

Initial list of candidate subproject (rural road, Sunamganj) (1/5)

RURAL ROAD SCREENING DISTRICT :SUNAMGANJ

				The second second	Plan Road	Total Legth	1			Screening				Selection	Haor Proje
SL No	Road Code	Road Name	Name of Upazila	Name of Union	Туре	(km)	No.1	No.2	No.3	No.4	No.5	No.6	No.7	Constant	No.
3-1			Chhatak					-							
3-2	690333001	Doarabazar-Laxmipur via Boglabazar-	Doarabazar	Surma, Boglabazar,	UNR	4.15	0	X			-			Х	
3-3	690333004	Matgoan-West Banglabazar-Aruakhai-	Doarabazar	Laxmipur	LIMIN	4.30	0	X	-			1		Х	
3-4	690333005	Banglabazar-Norsingpurbazar	Doarabazar	Banglabazar, Norsingpur	LIMR	5.20	0	X						Х	
3-5	690333006	Banglabazar-Haquenagarbazar-Boglabazar	Doarabazar	Banglabazar, Boglabazar	INR	6.20	0	X			1.00			Х	
3-6	690334011	Boglabazar-Bhangapara	Doarabazar	Boglabazar, Laxmipur	VRA	2.85	0	Х	1		1			Х	1
3-7	690334022	Shreepurbazar-Polirchar	Doarabazar	Pandargoan	VRA	3,00	0	Х						Х	
3-8	690334024	Doarabazar-West Machimpur	Doarabazar	Doarabazar	VRA	1.00	0	X	1					Х	
3-9	690334025	Sharifpur-Bhujna road	Doarabazar	Surma	VRA	3.00	0	X						Х	
3-10	690334028	Baraiuri-Jahangirgoan	Doarabazar	Banglabazar	VRA	1.70	0	х						Х	
3-11	690334029	Paikpara-Bagmara road	Doarabazar	Banglabazar	VRA	1.77	0	Х	1					Х	
3-12		Boglabazar-Baganbari via Kristanpara	Doarabazar	Boglabazar	VRB	2.28	0	X	-			- 1		X	
3-13	690335006	Mollapara-Bahargoan	Doarabazar	Boglabazar	VRB	1.00	0	X						Х	
3-14		Kalaura school-kalaura Madrasa	Doarabazar	Banglabazar	VRB	1.00	0	Х						Х	
3-15	690335016	Chatak-Ambari via Badegoreshpur	Doarabazar	Dohalia	VRB	2.15	0	X						Х	
3-16	690335048	Edukona village road	Doarabazar	Boglabazar	VRB	1.00	0	Х			4			X	
3-17	690335050	Bokterpur bundth-Bokterpur school	Doarabazar	Laxmipur	VRB	1.00	0	Х						Х	
3-18		Sonachura village road	Doarabazar	Boglabazar	VRB	1,00	0	Х						Х	
3-19		Chatak sunamganj road-Beri school	Doarabazar	Dohalia	VRB	0.50	0	Х						Х	
3-20	690335061	Chatak sunamganj road-Niamatpur village	Doarabazar	Dohalia	VRB	1.50	0	X						Х	
3-21	690862002	Sulla thana HQ-Rahutola Road	Shalla	Bahara/Atgoan	UZR	17.00	0	0	Х		1		1	Х	
3-22	690862004	Sulla thana H/Q-Paharpur GC(Azmirigonj)	Shalla	Bahara	UZR	6,40	0	X						Х	
3-23		Shashkhai Bazar To Protappur bazar Road	Shalla	Hobibpur/ Bahara	11131	5.00	0	х						Х	
3-24	and the second s	Rowa To Abda via Kamargaon Road	Shalla	Sulla	VRA	4.00	0	Х					-	Х	
3-25		Aktapara Launchghat- Saudarsree Lanchghat	Shalla	Hobibpur	VRA	4.95	0	Х					1	Х	
3-26	10,079,070,0		South Sunamganji				+								
3-27	690182004	Biswamvarpur GC-Niamatpur Rd.	Biswamvarpur	Fatepur	UZR	0.00	0	X				1		Х	
3-28	690182005	Mongalkata.(Kapna) - Chinakandi-	Biswamvarpur	Solukabad	UZR	0.03	0	X						X	
3-29		Dakhin Badaghat UP office - Bashantapur	Biswamvarpur	Dakhin Badaghat	LIMB	0.45	0	x			1			Х	1
3-30		Muktikhola RHD - Biswamvarpur HQ (Krishr	Biswamvarpur	Polash	UMR	0.02	0	X				-		Х	
3-31		Dhanpur - Bachurbari - Mothurkandi Rd.	Biswamvarpur	Dhanpur	VRA	0.00	0	X			1		1	х	
3-32		Jagannathpur - Bashantapur Rd.	Biswamvarpur	Dakhin Badaghat	VRA	0.02	0	X	1			-	-	Х	
3-32		Padmanagar - Rajghat Dhanpur	Biswamvarpur	Polash	VRA	0.02	0	X			-	1	-	X	
3-34	690184052	Vadertak bridge - Jinarpur bazar via Rampur	Biswamvarpur	Solukabad	VRA	0.03	0	X						X	
3-35	Contract of the second second second	RHD Post Office - Mollikpur kasmer Jungle	Biswamvarpur	Polash	VRA	0.01	0	X			-			X	
3-35	and the second second	Ranabidha(RHD) - Rangpur Karchar Haor	Biswamvarpur	Polash	VRA	0.01	0	X						X	
3-30	and the star star is all	Choyhara - telikona- Kurihatia Rd.	Biswamvarpur	Polash	VRA	0.00	0	X						X	
3-38			Biswamvarpur	Dhanpur	VRA	0.00	0	X	-		100-00			X	
S. 197	and the second sec	Masimpur - Sonatola Rd. Notunpara - Dashghar Pry. School via	Biswamvarpur	Polash	VRA	0.00	0	X			-		1	X	
3-39				Polash	VRA	0.00	0	X	-		-			X	
3-40		Polash RHD - Polashgawn Rd.	Biswamvarpur	Polash	VRB	0.00	0	X						X	
3-41		Padmanagar - Mollikpur	Biswamvarpur		VRB	0.00	0	X			-			X	
3-42	690185018	Sureshnagar - Dudpur- Chinakandi rd.	Biswamvarpur	Dhanpur	VICD	0.00	0	X		-	-	-	-	X	-

RURAL ROAD SCREENING DISTRICT : SUNAMGANJ

		INAMGANJ			Plan Road	Total Legth				Screening	g			Selection	Haor Proje
SL No	Road Code	Road Name	Name of Upazila	Name of Union	Туре	(km)	No.1	No.2	No.3	No.4	No.5	No.6	No.7	Selection	No.
3-44	690182001	Biswamverpur - Polash - Chinakandi Rd.	Biswamvarpur	polash& Dhanpur	UZR	0.00	0	X						Х	
3-45	690184053	Jinerpur Bazar - Rampur Trolerghat via jalil	Biswamvarpur	Solukabad	VRA	0.00	0	X						Х	
3-46	690185024	Muktikhola Sluice gate - Khorcharhaor	Biswamvarpur	Polash	VRB	0.04	0	X		1		5		Х	
3-47	690322007	Joysree-Moddhanogar Via Ramdiga Road.	Dharmapasha	Joysree, Chamardani,	UZR	17.46	0	0	0	0	0	0	0	0	N4
3-48	690322008	Bangshikonda GC - Bishorpasha bazar via	Dharmapasha	Dakshin Bongshikunda	UZR	6.00	0	X						Х	-
3-49	690322009	Banghshikonda GC - Tahirpu UZ Via	Dharmapasha	Dakshin Bongshikunda	UZR	5.00	0	X			1	· · · · · ·		Х	
3-50	690323005	Modhayanagar bazar-Golha Rd.	Dharmapasha	Moddhanogar	UDAR	8.00	0	0	0	0	0	0	0	0	N4
3-51	690323007	Shararkona-Ramdigha Rd.	Dharmapasha	Chamardani	UNR	6.00	0	0	0	0	0	0	Х	Х	
3-52	690323009	Kandapara-Dewla via Noyagoan Rd.	Dharmapasha	Dharmapasha	LUNIN	4.00	0	0	0	0	0	0	Х	Х	
3-53	690323010	Joysree-Durgapur Road.	Dharmapasha	Joysree	LIND	6.44	0	0	0	0	0	0	0	0	N4
3-54	690323012	Dharmopasha-Lonkapatharia Road.	Dharmapasha	Dharmapasha	UNN	3.50	0	0	0	0	0	0	Х	Х	
3-55	690323013	Dharmapaha-Singpur Road.	Dharmapasha	Selborash Union	LINK	3.27	0	0	0	0	0	0	Х	Х	
3-56	690323016	Satur bazar - Bonshikunda GC via Rongchi	Dharmapasha	Dakshin Bongshikunda	UNR	5.00	0	X			-		1.5	X	
3-57	690324006	DC road-razapur via balijuri Road	Dharmapasha	Paykurati Union	VRA	3.00	0	0	0	0	0	0	Х	X	
3-58		Paykurati - Barikandi Via Chakiacapur Road.	Dharmapasha	Paykurati Union	VRA	3.70	0	0	0	0	0	0	Х	X	
3-59	TRUCK OF ADD. M. P.	Gastola Bazar - Siram Bazar(Barhatta) Via	Dharmapasha	Paykurati Union	VRA	3.54	0	0	0	0	0	0	Х	X	
3-60		Bongshikunda Uttar UP Office - Volagonj	Dharmapasha	Bongshikunda Uttar	VRA	2.00	0	X		1	1	-		X	
3-61		Mashimpur-Laudugnai Road.	Dharmapasha	Chamardani	VRB	3.50	0	0	0	0	0	0	Х	X	-
3-62		Pathkura-Alampur Road.	Dharmapasha	Bongshikunda Dhakin	VRB	4.50	0	X		1				X	
3-63		Moheskhala-Golabnagor Road.	Dharmapasha	Bonshikunda Uttar Union	VRB	4.00	0	X			1			Х	
3-64		Satur bazar-Dolashia	Dharmapasha	Bonshikunda Dakhin	VRB	3,00	0	X			1.2.2			х	
3-65		Chandalipara-Dopaghat Road	Dharmapasha	Bonshikunda Dhakin	VRB	3,00	0	X				1		Х	
3-66		Rajapur-Dowlotpur Road	Dharmapasha	Sukhair Razapur Dhakin	VRB	2.00	0	X				1		Х	
3-67	200000	Gorukhli Bridge-Noyhati Bazar Via Borihati	Dharmapasha	Paykurati Union	VRB	3,00	0	0	0	0	0	0	Х	Х	
3-68		Kukrabashi RHD-Naya Baranka Kheyaghat	Jamalganj	Sachna Bazar	TINR	0.10	0	0	0	0	0	0	0	0	N12
3-69		Noagan - Bhimkhli	Jamalganj	Bhimkhali	UZR		0	X							
3-70		Sachna Bazar - Beheli GC - Taherpur	Jamalganj	Sachna Bazar, Beheli	UZR	0.15	0	0	0	0	0	0	0	0	N12
3-71		Selimganj hat -Fenarbak UP Office -	Jamalganj	Jamalganj Sadar Fenabak	INNI	0.03	0	Х							1
3-72		Jamalganj UP Office - Chandpur Bazar Road	Jamalganj	Jamalganj Sadar	UNR	0.02	0	X			1.1.1		1.		
3-73		Jamalganj UP Office (Sachnahat) - Kamipur E	Jamalganj	Jamalganj Sadar	UNR		0	x		0.00			1		
3-74		Sachna Ge - Sunamganj RHD Road (Sachna	Jamalganj	Sachna Bazar	LINE		Х								
3-75		Teranagar - Binajura	Jamalganj	Fenarbak	VRA	0,02	0	X	-	1					
3-76		Kaminipur - Maminpur - Insanpur	Jamalganj	Jamalganj Sadar	VRA	0,02	0	X		2				-	
3-77		Rahimapur Sachna Beheli GC Road -	Jamalganj	Beheli, Sachna	VRA	0,02	0	X						1	1
3-78	101 101 101 101 101 101 101 101 101 101	Durlabpur - Rokti River - Shermastapur RSH	Jamalganj	Sachna	VRA	0.01	0	0	0	0	0	0	X		
3-79		Sukdebpur - Radanagar Road	Jamalganj	Sachna	VRB	0.04	0	0	0	0	0	0	0	0	N12
3-80	2 m/	Rupabali Village Road	Jamalganj	Sachna	VRB	0.01	0	0	X			-		-	1
3-80		Upzila complex - Helipad - Kamlabaz Road	Jamalganj	jamalganj Sadar	VRB	0.01	0	X							
		Laximpur - Hotamara	Jamalganj	Fenarbak	VRB	0.03	0	X	-	-	<				
3-82	And the second second	Laximpur - Hotamara Lambabak - Harikandi Road	Jamalganj	Beheli	VRB	0.05	0	X					1		1
3-83				Beheli	VRB	0.04	0	X		1			-		-
		Guechagram - Badrpur	Jamalganj	Beheli	VRB	0.04	0	X	-	-	-		-		
3-85	690505035	Harikandi - Asanpur Road	Jamalganj	Denen	VICD	0.02	0	X							-

Initial list of candidate subproject (rural road, Sunamganj) (2/5)

Subproject Lists Appendix 4.5

RURAL ROAD SCREENING

			A CONTRACTOR OF A		Plan Road	Total Legth				Sereening	8			Selection	Haor Project
SL No	Road Code	Road Name	Name of Upazila	Name of Union	Туре	(km)	No.1	No 2	No.3	No.4	Ne.5	No.6	No.7	Solesoida	No
3-87			Tahupur				-				1	1	-	· · ·	
3-88	690292002	Denu Bazar-Sulla via Sukurnagar Road	Derai	Sarmongal	11238	1.75	0	X	-			6 i		X	
3-89	690292004	Denii Bazar-Dhol-Marculi Road	Derai	Kalanje	T.Z.R.	1.84	O	0	0	0	0	D	0	0	RS
3-90	690293001	Patharia-BanglaBazar	Derai	Rafinagar	1280	0.50	0	X				V	-	X	
3-91	690293002	Vatipara-Gochia	Derai	Rajanagar	AT/MIN	2.00	0	Х		-		à		X	
3-92	690293003	Banglabazar-Alipur	Deraj	Rafinagar	LIME	4.00	O	X	5			1	-	x	
3.93	690293004	Rajanagar-Bangla Bazar	Derai	Rafinagar	, thim	3,00	0	х				1		X	_
3.94	690293005	Chandpur-Rajaniganj via Sakitpur	Derai	Karimpur	-1.mp	2,00	0	x	-			1		X	
3.95	690293008	Badolpur RHD-Shyamarchar via Gochia, Raja	Derai	Rajanagar	- MIN	3.00	0	Х						X	
3-96	690293010	Deraj Bazar-Kaliarkapon Bazar, Chandipur	Derai	Karimpur	- Aller	1.40	0	X				1		X	
3.97	690293013	Rajaniganj-Kaliarkapon via Rotanganj, Jagdo	Derai	Jagdol	E.Wro	4.00	0	Х			1.00	F.		X	
3.98	698294001	Rafinagar-Hasnabad	Derai	Rafinagar	VRA	1.00	0	X				1		x	-
3.99	690294012	Tarapasa-Tongor	Derai	Kulanje	VRA	2.60	0	0	Q	0	0	0	0	0	R8
3-100		Ditpur-Hossainpur via Pukidohor	Derai	Jagdol	VRA	1.50	0	X	-					X	
3-101		Boalia Bazar-Bhaitgaon	Derai	Kulanje	VRA	2.00	0	O	0	0	0	O	0	0	R.8
3-102	690294018	Nagergaon Ferryghat-Nasnibazar	Derai	Kulanje	VRA	2,00	0	0	D	0	0	Ø	0	0	R8
3-103		Akilha Bazar-Nagergaon yia Kulanje	Derai	Kulanje	VRA	2.00	0	0	0	0	0	0	0	0	RS
3-104		Akilha Bazar-Nasni Bazar	Derai	Kulanje	VRA	1.25	0	0	0	0	0	0	0	0	RS
3-105		Kalkalia-Telikuna roso	Jagamathpur	Kalkalia	Int	2,18	0	X				0			
3-106		Jagannathpur swajansree via chilaura road	Jaganaathpar	Chilaura	C. During	4:14	0	X		1		1.			
3-107	and a strength of the strength	Keshabpur-Araha-Lama Rasulgonj-	Jaganoathpur	Patli	Trife	5.18	0	X					-		
3-108		Enayetganj-Hariakandi via Gopalgonj road	Jagannathpur	Ranigonj	1110	8.00	0	X		-					
3-109		Syedpur-Teghoria-Sanatanpur rd	Jagannathput	Svedpur	-1386	3:00	O.	X			-				-
3-110		Kewnabri-Lama Tukerbazar road	Jagannathpur	Mirpur	AST	3.50	0	X				1			
3-111		Ranigoni-Polykuna via Swajansree	Jagannathput	Ranigonj	Links	7.00	0	X	1	-					
3-112		Rangonj-Polykuna via Bagmoyna	Jagannathper	Ranigonj	1_000p	4.35	0	x		-	(),	2			S
3-113		Pirergoan-Shaharpara rond	Jagannathpur	Syedpur	A DECK	5.20	O	X	12-21	-					
3-114		Shibganj-Ranigonj road	Jagannathpur	Rinugonj	13,600	25.00	0	X							
3-115		Aserkandi U.P-Kalnirchar Bazar rd	Jagannathpur	Aserkandi	002	8.75	0	X							
3-116		Zila Prishad Lohari road	Jagannathpur	Mirpur	VRA	0.81	0	x			-	1	1		
3-117		Zila Prishad red Borkapon Madrassa	Jagamathpur	Mirpur	VRA	3.00	0	X		1	1	1.			
3-118	-	Kasurkandi Primary School to	Jagannathpur	Mirpur	VRB	1.00	D	x				1	-		
3-119		Raingonj Rowail via Alampur	Jagamathpur	Ranigoni	0	2.50	0	x							-
3-120		Chilaura Pondita Poin to Betauka Pri School	Jagannathpur	Chilaura	VRB	7.00	0	X					0 1		
3-121		Adura-Dharanjipur to Kochaorkandi road via	Jagannathpur	Mirpu	VRB	2.25	0	X	1	-		1			
3-122	and the second second	Katia Madrasa to Aloitali Jame Mosquse side	Jagamathpur	Pailgoan	VRB	1.60	0	X	1.00	1		-	-		
3-123	and the second second second	R&H (Rabarbarr)-Baishber-Joynagar GC	SUNAMGANJ-SADAR	Laxmansree/ Mohanpur	17278	8.30	0	0	Ó	0	0	0	0	0	N12
3-124		Bitgoni GC-Dabar at RHD Road via Lalpur	SUNAMGANJ-SADAR	Mollapara/ Purbapagla	1.02B	10.00	0	X		-		-	1	X	
3-125	690892006	The second s	SUNAMGANJ-SADAR	Jahangir nagar	UZZR	10.20	0	X					-	x	
3-125	690893001	R&H road Janigson-Joynagar Bazar Road	SUNAMOANJ-SADAR	Laxmansree/ Mohanpur	LINK	7,70	0	0	0	0	0	0	0	0	N12
3-127	Contraction of the second s	Ibrahimpur-Dalum Shahid minar via syedpur	SUNAMGANJ-SADAR	Surma Jahangirnagar	D-ML	8.00	0	X	1					X	
3-128	690893007	Mullapara UPC - Abdullapur via Santigonj	SUNAMGANJ-SADAR	Mollapara	Citite	4.10	0	X				1-1-2	1	X	
3-128	the second s	Haluar Ghat-Ibrahimpur (Surma UPC) -via	SUNAMGANJ-SADAR	Surma	TIME	3.00	0	X	-	-	-	1		X	

bproject Lists Appendix 4.5

Initial list of candidate subproject (rural road, Sunamganj) (4/5)

RURAL ROAD SCREENING DISTRICT ;SUNAMGANJ

	1		-		Plan Road	Total Legth				Screenity	5			Selection	Hanr Projec
SI. No	Road Code	Road Name	Name of Upazila	Name of Union	Type	(km)	No.1	No.2	No.3	No.4	Nos	No.6	No.7	Selection	No
3-130	690893012	Islainganj-Jøynagar (Gourarang/Mohanpur)	SUNAMGANJ-SADAR	Gourarang/Mohampur	Use	6.00	0	x		1				X	
3-131			SUNAMGANJ-SADAR	Laxmansree	VRA	2.20	0	O	0	0	0	0	0	0	N12
3-132	690894005	Tokerghat-Bahadurpur Rd.(Laxmansree)	SUNAMGANJ-SADAR	Laxmansree	VRA	3.60	0	0	0	0	0	0	0	0	N12
3-133	690894044	and the second se	SUNAMGANJ-SADAR	Gourarang	VRA	11.00	0	X			1			X	
3-134	690894071	Shakaity-Sreemoty Bazar-Soapur-Aralia-	SUNAMGANJ-SADAR	Mohanpur	VRA	4.50	0	X	2		1000			X	
3-135	690894073	Bahaderpur RHD to Nurulla Village	SUNAMGANJ-SADAR	Laxmansree/ Mohanpur	VRA	4.00	0	O	Ø	0	0	Q	0	0	NI2
3-136	690894077	Katair-Joynagar GCCR at Hossain nagar to	SUNAMGANJ-SADAR	Mohanpur	VRA	2.00	0	X	1.00	- 1				X	
3-137	690894076	Sunamonj-Biswamberpur rd to-Bahadurpur	SUNAMGANJ-SADAR	Gauraning	VRA	2.00	0	X						X	
3-138	690894057	Bindabon Nagar-Sararpan Via Rangpur Bazar	SUNAMGANJ-SADAR	Rangerenar	VRA	3.50	0	X	-	_	1		-	X	
3-139	690894032	Lalarchar-Uchargoan via Sreenathpur	SUNAMGANJ-SADAR	Mollapara	VRA	5.00	0	X					-	X	
3-140	690894006	Ahanmadabad-Icharchar-Islamganj	SUNAMGANJ-SADAR	Gourarang	VRA	10.00	0	x						X	
3-141	690895092	Jalalpur-Dakher hawore road	SUNAMGANJ-SADAR	Laxmansree	VRB	2.86	0	0	0	O	0	0	0	0	N12
3-142	690895111	Katair joynager GC road (Noagaon)-	SUNAMGANJ-SADAR	Katair	VRB	3.00	0	0	0	0	0	0	0	0	NJ2
3-143	690895101	Muslimpur -Khyargoan road via Balakanda	SUNAMGANJ-SADAR	Surma	VRB	1.50	0	x			-		1	X	
3-144	690895105		SUNAMGANJ-SADAR	Afiab nagar	VRB	1.00	0	X				1		X	
3-145	690895096		SUNAMGANJ-SADAR	Jahangimagar	VRB	1.00	0	X						X	
3-146	690895017	Dolura Shahid miner to Kyargoan Bazar &	SUNAMGANJ-SADAR	Jahangir nagar	VRB	3.50	0	X	1		1	-		X	
3-147	690895019	Sunamgonj-Mangalkata rd to Haluarghat Via	SUNAMGANJ-SADAR	Surma	VRB	5.00	0	X					in the second	X	
3-148	690895107	Bongaon bazar to Kandi samad nagar	SUNAMGANJ-SADAR	Rangerehar	VRB	3.00	0	x	1				1	X	
3-149	690895103	Bindabon nagor -Rangpur jame mosque.	SUNAMGANJ-SADAR	Rangerchar	VRB	2.00	0	X						X	
3-150	690895036	Svedpur-Ibrahimpur (d to Akhaynagar-	SUNAMGANI-SADAR	Surma	VRB	2.50	0	X	1		the state			X	
3-151	690895028	Maizbari Purbapara to Goder goan	SUNAMGANJ-SADAR	Aflab nagar	VRB	2.50	0	X			-		-	X	
3-152	690895038	Katair-Joynagar Road to Narkila	SUNAMGANJ-SADAR	Katair	VRB	3.00	0	0	0	0	0	0	0	0	N12
3-153	690895070	RHD, Ahsampara Bridge-Jogimpur road	SUNAMGANJ-SADAR	Katair	VRB	0.50	0	0	0	0	0	0	0	0	N12
3-154	690895039	Katair Joynagar Road to Noagaon	SUNAMGANJ-SADAR	Katair	VRB	1.50	0	0	0	0	0	Ō	0	0	NI2
3-155	690932005		Dakhin Sunamganj	Dargapasa	DZR.	3.20	0	X	-				-	X	
3-156			Dakhin Sunamganj.	Dargapasa	_177R		0	X		-				x	
3-157	and the second second second	and the second sec		Purbapagla	UZR	3.70	0	X			-			X	
3-158	and the second se	Santiganj bazar (UZ HQ.)-Rajaniganj bazar F		lush, Patharia&Paschim Bi	ETZR.	15.13	Ö	0	Ø	0	0	0	0	0	N12
3-159			Dakhin Sunamganj.	aschim paglaPurba Birgao	Umb.	APRAF	0	X		1 7			-	X	-
3-160	Total and a second	Dargapassa Hospital Road	Dakhin Sunamganj	Dargayasa	(0.5)	-	0	X	-	1		1	-	X	
3-161	690933008	and the second s	Dakhin Sunamganj	Shinulbak	EM/P.	4,20	0	0	0	0	0	0	0	0	N12
3-162	690933003		Dakhin Sunamganj	Purbapagla	VRA	Aleria.	0	X	-	-			-	X	
3-163		- vegant could the the could be and	Dakhin Sunanganj	Paschim	VRA		a	X		-	-		1	X	
3-164	690934012		Dakhin Sunamganj	Paschim-Birgaon	VRA		0	X		-		-	1	X	
3-165		Jagannatheur Road-Sichni South Road.	Dakhin Sunamganj.	Dargapasha	VRA		0	X	-	-			-	x	
10000		Ganigani RHD-Jibdata Road	Dakhin Sunamganj	Patharia,	VRA	4.70	0	0	0	0	0	0	0	0	N12
3-166				Dargapasha	VRA	7.79	0	x		-	~	- N		x	1012
3-167	the second s	Dabor Fisheries - Sichni S. Rahman Road.	Dakhin Sanamganj.	Patharia	VRA	3.50	0	0	ō	0	0	0	0	a	N12
3-168	00 100 Weeks 00 10 10 10	Derai RHD - Sreenathpur via Jahanpur -Madra		Dargapsha	VRA	3.24	0	X		-		-	-	X	
3-169	and a star fail for	Jagannathpu: Road-Mirpara Road.	Dalchin Sunamgan)		VRA		0	X	-	-	-		1	x	
3-170		Pagla-Dahar via lunath nagar Road.	Dakhin Sunamganj	Paschim Pagla	VRA		0	X				-	-	X	
3-171	090934042	Pagla-Birgoan road at Birgoan P/School-Wap	Dakhin Sunamgan)	Purbopagla	VRA		0	X	-			-		X	-

Final Report

RURAL ROAD SCREENING DISTRICT :SUNAMGANJ

					Plan Road	Total Legth				Screening	3			Selection	Haor Project
SL No	Road Code	Road Name	Name of Upazila	Name of Union	Туре	(km)	No.l	No.2	No.3	No.4	No.5	No.6	No.7	Jelection	No.
3-173	690934046	Santiganj bazar-Astama Road	Dakhin Sunamganj	Joykalash	VRA		0	Х						Х	
3-174	690934048	Ashammura Pry. School-Puran -Kandigoan Re	Dakhin Sunamganj	Patharia	VRA	3,81	0	0	0	0	0	0	0	0	N12
3-175	690934050	Dharampur-Sholaf Road.	Dakhin Sunamganj.	Purbo Birgaon	VRA		0	Х						Х]
3-176	690934086	Kandagaon LGED UZR Road to Nowakhali -	Dakhin Sunamganj.	Shimulbak	VRA	4.00	0	0	0	0	0	0	0	0	N12
3-177	690934089	Birgaon Bazar - Kawajuri via Umed- Nagar R	Dakhin Sunamganj.	Purbobigaon	VRA		0	X						Х	

Initial list of candidate subproject (rural road, Sunamganj) (5/5)

RURAL ROAD SELECTION	
DISTRICT · HABIGANI	

	Road Code	Road Name	Name of Upazila	Name of Union	Plan Road	Total				Screening	5			Selection	Haor
SL					Туре	Length	No.1	No.2	No.3	No.4	No.5	No.6	No.7	Selection	Projec
4-1	636444003	Lakhai R&H road to Motalib	Sadar	Richi	VRA	3.57	0	X						X	
4-2	636442008	Lakhai R&H-Rajiura via Hurgaon	Sadar	Richi	UZR	6.00	0	X						X	
4-3	636444043	Titukhai-Chandpur via mirzapur	Sadar	Richi	VRA	1.46	0	X						X	
4-4	636444035	Poil-Pachparia Rd.	Sadar	Poil	VRA	4.20	0	0	0	0	0	0	0	0	R13
4-5	636444063	Lukra Village - Jadobpur Via	Sadar	Lukra	VRB	6.00	0	X						X	
4-6		Boro Bohula Ino word Care Road -	Sadar	Gopiya	VRB	3.00	0	0	0	0	0	0	0	0	R13
4-7	636444065	Bohula 2no word Pirbari - Paschim	Sadar	Gopiya	VRB	3.00	0	0	0	0	0	0	0	0	R13
4-8	636053004	Satkapan UP Office (Chalitatala)-	Bahubal	Satkapan UP	UNR	4.50	0	0	0	0	0	0	0	0	R13
4-9	636053005	Snanghat UP Office-Bagdair bazar	Bahubal	Snanghat UP	UNR	5.80	0	0	0	0	0	0	0	0	R13
4-10	636054079	Guharua Pry. School - Panchparia	Bahubal	Bahubal S	VRA	5.00	0	0	0	0	0	0	0	0	R13
4-11	636055015	Khagaura Algahati-Noayahati via	Bahubal	Snanghat UP	VRB	1.50	0	0	0	0	0	0	0	0	R13
4-12	636054010	Khagaura Bagdair Road	Bahubal	Snanghat UP	VRA	5.80	0	0	0	0	0	0	0	0	R13
4-13	636054012	Amrita-Barchar Road	Bahubal	Snanghat UP	VRA	3.20	0	0	0	0	0	0	0	0	R13
4-14	636055017	Fotehpur-Shampur Road	Bahubal	Satkapan UP	VRB	1.40	0	0	0	0	0	0	0	0	R13
4-15	636055058	Shuaiyabazar-Ruyail	Bahubal	Satkapan UP	VRB	6.00	0	0	0	0	0	0	0	0	R13
4-16	636055044	Raisgong Rd-Barkadabad	Bahubal	Snanghat UP	VRB	3.00	0	0	0	0	0	0	0	0	R13
4-17	636054080	Digambar bazar-Noawai Road	Bahubal	Putijuri,Shangh	VRA	1.50	0	0	0	0	0	0	0	0	R13
4-18	636682002	Lokra-Modna Bazar Road.	Lakhai	Bulla	UZR	4.96	0	X						X	
4-19	636682004	Badikara RHD-Fandauk bazar	Lakhai	Bamoi,	UZR	4.35	0	X						X	
4-20	636682005	Lakhai upazila HQ-Madna bazar	Lakhai	Bamoi, Bulla	UZR	6.11	0	X					1	X	
4-21	636682003	Bolla Bazar-Varponni to Sozatpur	Lakhai	Bulla	UZR	7.20	0	X						X	
4-22		RHD-Madna Bazar Via Noagoan	Lakhai	Bamoi, Bulla	UNR	5.38	0	X		1				X	
4-23		Bulla UP office-Moriuak Fandauk	Lakhai	Karab	UNR	7.35	0	0						X	
4-24	636683005	Lakhai bazar-Shibpur bazar	Lakhai	Lakhai	UNR	4.35	0	X						X	
4-25		Rarisail RHD-Sutang river	Lakhai	Karab	VRB	1.50	0	X						X	
4-26	636685023	Karab Primay School-Sutang River	Lakhai	Karab	VRB	2.00	0	X						X	
4-27	636685046	Lakhai GCCR Bottala Bazar -	Lakhai	1 No.Lakhai,	VRB	3.00	0	X						X	
4-28		Marugach-Noagon Road.	Lakhai	Bamoi	VRA	3.15	0	X						X	_
4-29	636685011	Jailkhana road-Sutang river.	Lakhai	Bamoi	VRA	2.60	0	X		1				X	
4-30	636684002	Rarishal-Balashri River Road.	Lakhai	Karab	VRA	1.69	0	X						X	
4-31		Syedpur-Gurarai bazar road.	Nabigonj	5 No.	UZR	3.47	0	X						X	
4-32		Syedpur Police fari-Purkul Summit	Nabigonj		UZR		0	X						X	
4-33		Rasulgonj-Raisgonj Paniumda	Nabigonj		UNR	8.86	0	X	1					X	
4-34		Vanudev-Kalabapur road	Nabigonj		UNR	1.78	0	X		1				X	

Initial list of candidate subproject (rural road, Habiganj) (1/4)

Subproject Lists Appendix 4.5

Subproject Lists Appendix 4.5	
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Final Report

Initial list of candidate subproject (rural road, Habiganj) (2/4)

	Road Code	Road Name	Name of Upazila	Name of Union	Plan Road	Total	-			Screening	5			Selection	Haor
SL			Caracteristics and		Туре	Length	No.1	No.2	No.3	No.4	No.5	No.6	No.7	Selection	Projec
4-35	636773013	Aushkandi-Nilam bazar-Karimpur	Nabigonj		VINP.	0.00	0	X	1-1	-			1	X	
4-36	636773006	Sakua Bazar-Sherpur-Halimpur	Nabigonj		-Uwe -	0.00	0	X						X	
4-37	636773008	Immam Bari-Burinow road.	Nabigonj	· · · · · · · · · · · · · · · · · · ·	1,130	1.83	0	X						X	-
4-38	636773004	Nabigonj Bazar-Ratanpur via	Nabigonj		17100		0	X						X	
4-39	636773007	Nabigonj College-Pangari-	Nabigonj		I THE	5.32	0	X	1					X	
4-40	636774024	Gurarai bazar-Mukimpur road.	Nabigonj		VR-A		0	X		-				X	
4-41	636775110	Inathgonj -Kadirgonj road to h/o	Nabigonj	1	VR-A		0	X						X	
4-42	636774058	Guholdoba High School-	Nabigonj		Link -		0	X						X	_
4-43	636774016	Inathgonj bazar inathgonj	Nabigonj	3 no . Inathgonj			0	X					1	X	
4-44	636774087	Dhaka-Sylhet National high way to	Nabigonj	11 Goznaipur	VR-A		0	X					2-2-2	X	
4-45	636775068	Muktahar brdge-Shakua bazar road	Nabigonj	7 No. Kargaon	VR-A	2,50	0	0	0	0	0	0	0	0	N13
4-46	636022002	Azmirigonj - Kakailsco Road.	Azmiriganj	Azmiriganj&Ka	UZR	1.85	0	0	0	0	0	0	Х	X	
4-47	636022003	Azmirigonj - Paharpur road	Azmiriganj	Azmiriganj&Ba	UZR	14.06	0	0	0	0	Ø	Ø	0	0	R8
4-48	636023001	Pashchimbag - Azmirigonj Road	Azmiriganj	Shibpasa	UNR	8.45	0	0	0	0	0	0	0	0	R8
4-49	636022005	Paharpur - Baniachong Via	Azmiriganj	Badolpur	NXR	7.02	0	0	0	0	0	0	0	0	R13
4-50	636023003	Jolsuka Bazar - Ajmirigonj Via	Azmiriganj	Jalsukha	12MTR	5.50	0	0	0	0	Q	0	X	X	
4-51	636025023	Kakilsow GCCR - Rosulpur.	Azmiriganj	Kakailsew	VRB	2.10	0	0	0	0	0	0	0	0	R9
4-52	636025027	Kakilsow Bazar - Rahala Rd.	Azmiriganj	Kakailsew	VRB	2.25	0	0	0	0	0	0	0	0	R9
4-53	636025035	Solori - Shibpasha.	Azmiriganj	Kakailsew &	VRB	8.50	0	0	0	0	0	0	0	0	R8
4-54	636025034	Anandopur Ghat - Anadopur	Azmiriganj	Kakailsew	VRB	1.80	0	0	0	0	0	0	0	0	R9
4-55	636024002	Pirojpur Lanchghat-Jalsuka bazar	Azmiriganj	BadolPur	VRA	2.00	0	0	0	0	0	0	0	0	R8
4-56	636025006	Bong rd - Paddy land Rd	Azmiriganj	Shibpasa	VRB	5.10	0	0	0	0	0	0	0	0	R8
4-57	636025008	Pituarkandi Ghat - Shalla	Azmiriganj	BadolPur	VRB	3.65	0	0	0	0	0	0	0	0	R8
4-58	636025026	Kamulpur Ghat - Kamulpur Pry	Azmiriganj	Kakailsew	VRB	2.75	0	0	0	0	0	0	0	0	R9
4-59	636025012	G C C Road - Ronia Road,	Azmiriganj	Azmiriganj	VRB	2.10	0	0	0	0	0	0	0	0	R8
4-60	636025002	R&H Road - Morolbari Road	Azmiriganj	Azmiriganj	VRB	0.54	0	0	0	0	0	0	0	0	R8
4-61	636265045	Basullah bazar-Balumara road	Chunarughat	Gazīpur	VRB	1.00	0	X						X	
4-62	636265121	Balla BDR Camp to Tekarghat	Chunarughat	Gazipur	VRB	1.00	0	X						X	
4-63	636263004	Gazipur UP Office (Assampara	Chunarughat	Gazipur	1.0.01	2.00	0	X						X	
4-64	636265032	Asampara road-Kirtai Mazar	Chunarughat	Ahmadabad	VRB	1.50	0	X						X	
4-65	636265006	Razar Bazar - Gonganagar Village	Chunarughat	Ahmadabad	VRB	1.00	0	X						X	-
		Gonosympur - Vela Beel Road.	Chunarughat	Ahmadabad	VRB	1.00	0	Х						X	
4-67	636265085	Deorgach Mahashay H /O to	Chunarughat	Deorgach	VRB	1.50	0	X						X	-
4-68	636265086	Deorgach Akra bari to Laxmipur	Chunarughat	Deorgach	VRB	1.50	0	X						X	_

Preparatory Survey on Upper Meghna River Basin Watershed Management Improvement Project

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RURAL ROAD SELECTION

	Road Code	Road Name	Name of Upazila	Name of Union	Plan Road	Total				Screening	5			Selection	Haor
SL					Туре	Length	No.1	No.2	No.3	No.4	No.5	No.6	No.7	Selection	Proje
4-69	636264045	Laxmipur Mosque-Moynabad via	Chunarughat	Deorgach	VRA	1.00	0	X						X	
4-70	636265093	Paikpara chairman bazar to Begom	Chunarughat	Paikpara	VRB	1.00	0	X						X	
4-71	636265092	Kalam Chairman bazar to Shail	Chunarughat	Paikpara	VRB	1.00	0	X		1				X	
4-72	636264028	Sakir Mohammad bazar - Panchais	Chunarughat	Shankhola	VRA	2.00	0	X				1.000		X	
4-73	636264048	Sadekpur Corner Sakir Mohammad	Chunarughat	Shankhola	VRA	1.00	0	X						X	
4-74	636264062	Sakir Mohammad bazar-	Chunarughat	Shankhola	VRA	2.00	0	X						X	
4-75	636264021	RHD-Ramsree - Durgapur bazar	Chunarughat	Chunarughat	VRA	1.00	0	X						X	
4-76	636265104	Chunarughat R & H Boro -	Chunarughat	Chunarughat	VRB	1.50	0	X						X	
4-77	636264036	Chunarughat RHD (Sign. board) -	Chunarughat	Chunarughat	VRA	1.00	0	X						X	
4-78	636264008	Ware House Ubahata-Sakir	Chunarughat	Ubahata	VRA	1.50	0	0	0	0	0	0	0	0	R13
4-79	636265044	Ulukani govt.Pry. School - Assian	Chunarughat	Ubahata	VRB	1.00	0	0	0	0	0	0	0	0	R13
4-80	636264002	Chan Bhanga - Sreebari Road.	Chunarughat	Shatiajuri	VRA	1.50	0	X						X	
4-81	636264018	Sundarpur GCCR (Fatushah	Chunarughat	Shatiajuri	VRA	1.00	0	X						X	
4-82	636264025	RHD (Sreekuta) -Khowai	Chunarughat	Shatiajuri	VRA	1.25	0	X						X	
4-83	636264024	Ranigaon -Sindurkhan road.	Chunarughat	Ranigaon	VRA	2.75	0	X						X	
4-84	636264043	Ranigaon-Kamaichorra Road via	Chunarughat	Ranigaon	VRA	1.00	0	X						X	
4-85	636265026	Pakuria Pry. School-Gajiganj	Chunarughat	Ranigaon	VRB	1.50	0	X						X	
4-86	636264052	Mirashi Kamar Dokan-Nasimabad	Chunarughat	Ranigaon	VRA	1.00	0	X						X	
4-87	636265082	Volarjom bazar to Rema TG-	Chunarughat	Mirashi	VRB	2.00	0	X						X	
4-88	636265128	Abda Chalia Bottala - Purajar Via	Chunarughat	Mirashi	VRB	1.50	0	X						X	
4-89	636264053	Pakuria Battala -Kalenga Rd via	Chunarughat	Mirashi	VRA	2.00	0	X	2-2-1					X	
4-90	636264009	Durgapur Bazar - Sreerampur	Chunarughat	Ubahata	VRA	1.00	0	0	0	0	0	0	0	0	R13
4-91	636264022	RHD (Kamai Chorra) - Parkul	Chunarughat	Ranigaon	VRA	2.00	0	X						X	
4-92	636265020	Deulgaon-Ushai Nogor Road.	Chunarughat	Shatiajuri	VRB	1.00	0	X						X	
4-93	636265027	Shirajnagar-Hanaguri Road.	Chunarughat	Shatiajuri	VRB	0.35	0	X	-					X	
4-94	636265058	Chayshree-Arrongbeel Road	Chunarughat	Ahmadabad	VRB	1.00	0	Х		1			1-0	X	
4-95	636265078	Mahashay bazar to H / O Gulgoan	Chunarughat	Shatiajuri	VRB	0.65	0	X		1				X	
4-96	636265114	Nalmuk bazar to South kakaus via	Chunarughat	Mirashi, Gazipu	VRB	1.50	0	X				_		X	
4-97	636265116	Jalil pur Eidgha to H /o Bojendra	Chunarughat	Mirashi	VRB	1.00	0	X		1				X	
4-98	636265056	Chunarughat Assampara-Bangaon	Chunarughat	Ahmadabad	VRB	1.00	0	X						X	
4-99		Baniachang Gc-Markuli Road.	Baniachang	Baniachong	UZR	22.65	0	X						X	
4-100		Kadir Gonj Ge-Paharpur Gc Via	Baniachang	Doulatpur	UZR	5.00	0	0	0	0	0	0	0	0	R8
4-101		Baniachong Gc-Pahar pur Gc Road	Baniachang	Baniachong	UZR	3.62	0	X						X	
4-102		Kagapasha Bazar-Kagapasha Up	Baniachang	Kagapasha	UNR	3.00	0	0	0	0	0	0	Х	X	

Initial list of candidate subproject (rural road, Habiganj) (3/4)

Subproject Lists Appendix 4.5

Appendix 4.5	Subproject Li.
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Initial list of candidate subproject (rural road, Habiganj) (4/4)

Final Report

RURAL ROAD SELECTION DISTRICT : HABIGANJ

	Road Code	Road Name	Name of Upazila	Name of Union	Plan Road	Total				Screening	3			Selection	Haor
SL					Туре	Length	No.1	No.2	No.3	No.4	No.5	No.6	No.7	Selection	Project
4-103	636113013	Subidpur Up office-Aowar Mohal	Baniachang	Pukra	UNP	7.40	0	0	0	0	0	0	0	0	R13
4-104	636113014	Ratna Bazar-Murad pur Up Office	Baniachang	Subidpur,	UNR	3.00	0	0	0	0	0	0	Х	X	
4-105	636113017	Bithangal Gc-Hobigonj - Sujathpur	Baniachang	Monduri,	LINR	3.00	0	0	0	0	0	0	0	0	R10
4-106	636114013	Habigonj-Baniyachong RHD to	Baniachang	Subidpur,	VRA	1.00	0	0	0	0	0	0	0	0	R13
4-107	636114019	Shibgonj Bazar to halderpur	Baniachang	Bariari	VRA	3.00	0	0	0	0	0	0	0	0	N13
4-108	636114030	Sandalpur High School to	Baniachang	Kagaura	VRA	2.43	0	X						X	
4-109	636114049	Pukra Up office -Kandipura village	Baniachang	Pukra	VRA	3.13	0	0	0	0	0	0	0	0	R13
4-110	636114052	BaroBazar- Nottun Bazar G/S	Baniachang	Baniachong	VRA	1.50	0	X				1		X	1
4-111	636115049	AdorshaBazar- Sholataka	Baniachang	Baniachong	VRB	3.00	0	X					-	X	
4-112	636713002	Montala-Kashim nagar Rail	Madhabpur	Bahara	UNB	4.17	0	X				1		X	
4-113	636712010	Andiura R&H-Bulla-Chatian bazar	Madhabpur	Bulla	UZR	6.06	0	X				-		X	
4-114	636713009	Chatian GC-Shahpur Bazar road	Madhabpur	Chatiain	UNR	4.41	0	X						X	
4-115	636713001	Noypara bazar Kharki-Bulla Bazar	Madhabpur	Noyapara	UNR	4.71	0	X						X	
4-116	636713004	Andiura R&H-Shahajanpur UP	Madhabpur	Andiura	UNR	3.59	0	X						X	
4-117	636713011	Adaoir GC-Dhankura-Patuli-Bulla	Madhabpur	Bulla	UNR	2.50	0	X						X	
4-118	636714063	Noapara-Dashpara road	Madhabpur	Chatiain	VRA	2.50	0	X	1					X	
4-119	636714009	Barag-Bulla road	Madhabpur	Bulla	VRA	1.95	0	X	1					X	
4-120	636715088	Sakuchail Eidgaon - Poddarbari	Madhabpur	Chatiain	VRB	2.50	0	0	Х			1		X	

	Su
Appe	ubproj
pendix	ject L
4.5	Lists

Initial list of candidate subproject (rural road, Brahmonbaria) (1/3)

RURAL ROAD SCREENING	
DISTRICT: BRAHMANBARL	4

-	Burdente	David Manag	Managefungalla	Name of union	Plan Road Type	Total Length				Screening				Selection	Haor Proje
SL	Road code	Road Name	Name of upazila	Name of union	Pian Road Type	(km)	No.1	No.2	No.3	No.4	No.5	No.6	No.7	Jerection	Nø,
5-1	412632004	Tinlacpir R&H to	Kasba	Binauti	UZR		0	X						X	1
5-2	412632005	Kharera R&H to Shimrail	Kasba	Kharera	LZR		0	X				1		X	
5-3	412633005	Mulagram UP Office	Kasba	Mulagram	CUAR.		0	X						X	
5-4		-	Ashuganj	Sadar	VR	_	0	Х						X	
5-5			Ashuganj	Sadar	VR		0	X						X	
5-6			Ashuganj	Sadar	VR	_	O	X						X	
5-7			Ashuganj	Sadar	VR		0	х						X	
5-8	1		Ashuganj	Araisidha	VR		0	X			_			X	
5.9			Ashuganj	Araisidha	VR		0	Х						X	
5-10	1		Ashuganj	Durgapor			0	Х						X	
5-11			Ashuganj	Sharifpur		(Concerning)	0	х			1			X	1
5-12			Ashuganj	Sharifpur			0	Х						X	
5-13			Ashuganj	Lalpur			0	X	1		1			X	
5-14			Ashuganj	Lalpur			0	X						X	
5-15			Ashuganj	Lalpur			0	X						X	
5-16			Ashuganj	Lalpur			0	Х						X	
5-17			Ashuganj	Lalpur			Ó	X						X	
5-18			Ashuganj	Lalpur			0	х						X	
5-19			Ashuganj	Lalpur			0	X			1			X	
5-20			Ashuganj	Talshohor			0	X	1		1			X	
5-21			Ashuganj	Talshohor			0	Х	-					X	
5-22		1	Ashuganj	Tarua			O	Х						X	
5-23	Ì		Ashuganj	Tarua			0	Х						X	
5-24	1		Ashuganj	Tarua		1	0	x	1					X	
5-25			Ashuganj	Charchartala			Q	X						X	
5-26			Ashuganj	Charchartala			0	Х						X	
5-27			Ashuganj	Charchartala			0	Х				1		X	
5-28	412942002	Aruarl-Chatalpar GC	Sarail	Aruail	UZR	1.82	0	Х						X	
5-29	419243001	Sarail-Panishwar Bazar	Sarail	Sarail, Panishwar	100	6.11	0	X						X	
5-30		Rasulpur-Azabpur Road	Sarail	Chunta	VRA	3.80	0	X						X	
5-31		Aruail-Dhamaura Road	Sarail	Aruail	VRA	4.80	0	Х						X	
5-32	412944008	Panishwar-Nayahati Road	Sarail	Panishwar, Chunta	VRA	4.26	0	X						X	
5-33	412944021	Kalikaccha-Bishutara	Sarail	Kalikaccha	VRA	2.50	0	X						X	
5-34	412945027	Jovdharkandi-Telekandi	Sarail	Pakshimul	VRB	3.40	0	X						X	

ıbproject Lists opendix 4.5

Final Report

Initial list of candidate subproject (rural road,Brahmonbaria) (2/3)

RURAL ROAD SCREENING DISTRICT: BRAHMANBARIA

			and an entry of the		PL P. 197	Total Length				Screening	1			Selection	Haor Projec
SL	Road code	Road Name	Name of upazila	Name of union	Plan Road Type	(km)	No.1	No.2	No.3	No.4	No.5	No.6	No.7	Selection	No.
5-35	412945030	Rajapur-Ranidia	Sarail	Aruail	VRB	3.45	0	х		1.1.1				X	1
5-36	412945032	Dubajail-Dhamaura Road	Sarail	Aruail	VRB	3.00	0	X						x	
5-37	412945085	Pakshimul-Telikandi	Sarail	Pakshimul	VRB	2.50	0	Х						X	
5-38	412945086	Bhuishar-Joydharkandi	Sarail	Pakshimul	VRB	5.25	0	X		12.20		1		X	
5-39	412945087	Paramanandapur-	Sarail	Pakshimul	VRB	2.37	0	x						X	
5-40	412945098	Dewra-Charuhati Road	Sarail	Shahajadapur	VRB	1.50	0	0	0	0	0	0	0	0	R13
5-41	412945145	Shahajadapur-Dhauria	Sarail	Shahajadapur	VRB	3.00	0	0	0	0	0	0	0	0	R13
5-42	412945155	Rajapur-Dubajail Road	Sarail	Aruail		3.00	Q	x					1	x	
5-43	41204	Charshibpur K.N Kinder	Bancharampur		1./2/R		х					1.5		X	-
5-44	41204	Charshibpur K.N Kinder	Bancharampur		LIME		X		()			1		X	
5-45	41204	Charshibpur bazar -	Bancharampur				X							X	1
5-46	41204	Charshibpur Abul Hasem	Bancharampur				х		<u> </u>			1		X	
5-47	41204	Dosdona Nimtoli main	Bancharampur				X		-					X	
5-48	412043002	Dariarchar bazar -	Bancharampur				X							X	
5-49	412044054	Dariadaulat-Kalainagar	Bancharampur				X						1	X	
5-50	412044005	Farazkandi-Kanainagar	Bancharampur			1	Х							X	
5-51	412045001	Monshinagar-Haripur Rd	Bancharampur	1			х							x	
5-52			Brahmanbaria Sada	ir		1	1.80	*	-	-	-	÷		10	
5-53	412903002	Goalnagar UP Office-	Nasimagar	Goalnagar	DAR:	1	0	X						X	
5-54		Guniak UP Office-	Nasimagar	Guniak	UNIT	1	0	х	1.					X	
5-55	412903007	Buriswar UP Office-	Nasimagar	Buriswar	100		0	х				-		X	
5-56	412903008	Nasimagar Upazila H/Q-	Nasimagar	Nasirnagar	inne -		0	х		×				X	
5-57	412903009	Fundauk GC-Fundauk	Nasimagar	Fundauk	100		0	Х						X	
5-58	412904004	Chatolpar-Ratanpur Road	Nasimagar	Chatalpar	VRA		0	Х						X	
5-59	412904006	Dhormondal piaim rd-	Nasimagar	Dharmondal	VRA	3.00	0	x		1				X	
5-60	412904007	Chotipara-Jethagran Rd.	Nasımagar	Gokarna	VRA		0	Х			-			X	
5-61	412904008	Brahmanshasan-	Nasımagar	Gokarna	VRA		0	Х						X	
5-62	412904012	Ichapura-Buriswar bazar	Nasimagar	Buriswar	VRA		0	X						Х	
5-63	412904028	Dighar Primary School	Nasımagar	Gokarna	VRA		0	X						Х	
5-64	412904104	Bhitoe GPS-Chatalpar	Nasimagar	Bhalakut	VRA		O	x					1	X	-
5-65	412022001	Akhaura Bara	Akhaura		UZR I	5.94	0	Х					-	X	
5-66	412023002	Mogra UP	Akhaura		(000	2.58	0	X						X	-
5-67	412023005	Moniondh UP	Akhaura	- 11	E thru	3.58	Q	X					1	X	
5-68	412023007	Vatamatha Bazar	Akhaura		1970	5.23	0	X				1		X	

Initial list of candidate subproject (rural road,Brahmonbaria) (3/3)

				Total Length				Screening				Selection	Haor Projec
Road Name	Name of upazila	Name of union	Plan Road Type	(km)	No.1	No.2	No.3	No.4	No.5	No.6	No.7	Selection	No.
Moniondha UP-Tonkey -	Akhaura		UNR	2.40	0	X						X	
road.			VR-A	4.9	0	Х						X	
Itna road			VR-A	1.7	0	Х						X	
nilakhad road.			VR-A	1.82	0	Х						X	
Dharmanagor, Gagutia			VR-A	2.5	0	X						X	
Krishnonagar road			VR-B	3.8	0	Х			1			X	
-Nayadil road			VR-B	1.6	0	Х						X	
Mirpur road.			VR-B	1.2	0	Х	<u></u>					X	
Bottali R&H-Bitghar GC	Nabinagar	Laur fatepur &	UZR	4.88	0	X						X	
Bitghar Hat to B.Baria	Nabinagar	Bitghar, Shibpur,	UZR	4.60	0	Х						Х	
Jibangonj bazar R&H to	Nabinagar	Ratanpur	UZR	7.85	0	Х						X	
Jinodpur R&H-Shahapur	Nabinagar	Jinodpur,Satmur	UZR	5.45	0	Х						X	
Sreerampur UP (R&H)-	Nabinagar	Seerampur,Samo	UNR	3.60	0	Х						X	
Kaitala U.P office to	Nabinagar		LINR	7.72	X							Х	
Shibpur Bazar (R&H)-	Nabinagar	1	UNR	2.25	X			-				X	
Baishmuza bazar-Birgaon	Nabinagar		UNR	1.85	X							Х	
Fetehpur(Baseruk)-	Nabinagar		VRA	3.45	X							X	
Bidyakut monipur-	Nabinagar	-	VRA	5.20	X							Х	
Moheshpur- Bitghar-	Nabinagar		VRA	2.03	X							X	
Symogram post office-	Nabinagar		VRA	2.47	X							X	
Mahalla Launch ghat-	Nabinagar		VRA	3.44	X							X	
Bangura Bazar-Satmura	Nabinagar		VRA	5.74	X							X	
Durgarampur-Kishorpur	Nabinagar		VRB	5.58	X							Х	

RURAL ROAD SCREENING **DISTRICT: BRAHMAN**

Road code

412023009

412024016

412024021

412024024

412024035

412025053

412025022

412025078

412852003

412852006

412852011

412852005 412853004

412853005

412853008

412853010

412854004

412854038

412854040

412854043

412854047

412854053

412855002

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Initial list of candidate subproject (hat, Kishoreganj)

HAT SCREENING DISTRICT: KISHOREGANJ

Sl No.	П		Union name	Hat name	T	Scree	ning*	Selection	Haor
51 INO.	U	pazila name		Hat name	Туре	No.1	No.2	Selection	project
1-1	1	Pakundia	Agarosindur	Bahahadia	RM	0	Ö	0	R5
1-2		n	Patuavanga	Caladia	RM	Х		X	
1-3	2	Bajitpur	Sararchar	Sararchar market	GC	X		X	
1-4	3	Itna	Joysiddhi	Mudirgaon	RM	0	0	0	N9
1-5		19 19	Chawganga	Chandrap	RM	Х		X	
1-6		Lt.	Mriga	Janatagonj	RM	Х		X	
1-7		0	Joysiddhi	Wora bazar	RM	Х		X	
1-8		9	Badla	Thaneshwar	RM	Х		X	
1-9	4	Sadar	Danapatuli	Kaliar Kanda Bazar	RM	0	0	0	N1
1-10	5	Nikli				-		-	1
1-11	6	Austagram	Austagram Sadar	Austagram	GC	Х		X	
1-12			Dewghar	Savianagar	GC	Х		X	
1-13			Adampur	Adampur Lawra bazar	GC	X		X	
1-14		ч	Khayerpur Abdullapur	Kadamchal bazar	RM	Х		X	
1-15		"	Khayerpur Abdullapur	Bajuka bazar	RM	Х		X	
1-16		"	Purba Austagram	Akhra bazar	RM	Х		X	
1-17		2	Kalma	mohontala bazar	RM	Х		X	
1-18			Kalma	Sapanto bazar	RM	Х		X	
1-19	7	Hossainpur	Jinari	Hazipur Kacari bazar	RM	Х		X	
1-20		n	Pumdi	Pumdi bazar	RM	0	0	0	R4
1-21		μ	, , , H	Adu master bazar	RM	0	0	0	R4 .
1-22		μ	"	Nimeukhali bazar	RM	Ó	0	0	R4
1-23		μ	Sidla	Pitalganj bazar	RM	X		X	
1-24		IT	Aribaria	Jamail natun bazar	RM	X		X	
1-25		IT	Shahedal	Shahedal Notun bazar	RM	X		X	
1-26	8	Katiadi	Katiadi Porashava	Katiadi Hat	GC	X		X	
1-27			Saharam Dhuldia	Dhuldia Hat	GC	0.	0	0	N1
1-28		9	Mumurdia	Magura bazar	RM	Х		- x	
1-29		н	Banagram	Banagram Puran bazar	RM	X		X	
1-30	9	Mithamoin	Katkhal	Katkhal	GC	X		X	
1-31		п	Kewarjor	Telikhali	GC	X		X	
1-32		н	Gopdighi	Bogadia	RM	Ö	0	0	N2
1-33		IT	Dhaki	gobindapur	RM	X		X	
1-34		17	Ghagra	Maliunda	RM	X		X	
1-35		0	Dhaki	Mahmudpur	RM	Х		X	
1-36	10	Tarail	Digdair	Baiser Bazar	RM	Х		X	-
1-37	11	Bhairab	Gozaria	Gozaria bazar	GC	X		X	
1-38			Shimulkandi	Shimulkandi	GC	X		X	
1-39		н	Shimulkandi	Rajnagar	RM	X		X	1
1-40	12	Karimganj	Niamatpur	Niamatpur	GC	X		X	1
1-41		"	Joyka	Shadakhali	RM	0	0	0	N1
1-42		u.	Baroghoria	Chatal	RM	X		X	
1-43		0	Gundhar	Sudhi	RM	X		X .	
1-44	13	Kuliarchar	· · · · · · · · · · · · · · · · · · ·	Nill	- 1		-		

Initial list of candidate subproject (hat, Netrokona)

SL No.		Upazila Name	Union Name	Hat Name	Туре	Scre	ening	Selection	Haor Projec
						No.1	No.2	Selection	No.
2-1	1	Mohanganj				· · · -		-	
2-2	2	Kalma Kanda				•		-	
2-3	3	Purbadhala	Jaria	Jaria Bazar	RM	0	• X	X	
2-4		Purbadhala	Dhalamulgaon	Jamdhala Bazar	RM	Х		X	
2-5		Purbadhala	Hogla	Patra Bazar	RM	0	0	0	R1
2-6		Purbadhala	Ghagra	Ghagra Bazar	RM	0	0	0	R1
2-7	4	Atpara				-		-	
2-8	5	Durgapur				-		-	
2-9	6	Madan				-		-	
2-10	7	Khaliajuri	CHAKUA	Lipsa Bazar	GC	0	Х	X	
2-11		Khaliajuri	KHAILAJURI	khaliajuri Bazar	GC	0	Х	X	
2-12		Khaliajuri	GAZIPUR	Panchhat Bazar	RM	0	Х	X	
2-13		Khaliajuri	MENDIPUR	Satgoan Bazar	RM	0	· 0	0	R15
2-14	8	Barhatta	SINGDHA	Chandrapur GC	GC	0	X	X	
2-15	9	Netrokona Sadar				-		-	
2-16	10	Kendua	Bolaishimul	Amritola	RM	Х		x	
2-17		Kendua	Mozafarpur	Dogda bazar	RM	0	0	0	N6
2-18		Kendua	Chirang			X		x	1

Initial list of candidate subproject (hat, Sunamganj)

HAT SCREENING DISTRICT :SUNAMGANJ

SL No		Name of Upazila	Name of Union	Hat Name	Туре	Scree	ening	Selection	Haor
						No.1	No.2	Selection	Project No
3-1	1	Chhatak				-		-	
3-2	2	Doarabazar	Norsingpur	Baliurabazar	RM	x		X	5
3-3	2	Doarabazar	Dohalia	Dohaliabazar	RM	Х		x	
3-4	2	Doarabazar	Surma	Mohobbotpurbazar	RM	x		X	
3-5	2	Doarabazar	Laxmipur	Liakotganjbazar	RM	Х		x	
	3	Sulla	Bahara	Ghungiar gaon	GC	х		X	[
	3	Sulla	Bahara	Protappur Bazar	RM	х		X	
	3	Sulla	Atgaon	Rahutola Bazar	RM	X		x	
	3	Sulla	Hobibpur	Darain Bazar	RM	Х		X	
	3	Sulla	Sulla	Satpara Bazar	RM	х		x	<u> </u>
3-7	4	South Sunamganji	1			-		-	
3-8	5	Bishwamvarpur				-			1
	6	Dharmapasha	Bongshikunda Uttar	Moheskhola	RM	x		x	+
	6	Dharmapasha	Bongshikunda Uttar	Volagonj	RM	х		x	<u> </u>
	6	Dharmapasha	Joysree	Joysree	GC	х		x	+
	6	Dharmapasha	Selborash	Badshagonj	RM	0	0	0	N4
	6	Dharmapasha	Bongshikunda Uttar	Bonshikunda	GC	X		x	
	6	Dharmapasha	Madhyanagar	Moddhanaga	GC	X		X	+
	6	Dharmapasha	Daskhin Sukhair	Golokpur	GC	X		X	
3-10	7	Jamal Ganji		ooring as				-	· ·
- 10	8	Tahirpur	TAHIRPUR	Tahirpur	GC	x		· X	
	8	Tahirpur	Sreepur(N)	Baliaghata	RM	X		x	+
	· 8	Tahirpur	Sreepur(S)	Lamagaon	RM	x		x	-
•	8	Tahirpur	Badghat	Lawrergor Bazar	RM	X	-	x	-
	8	Tahirpur	Sreepur(N)	Bagli Bazar	RM	X		x	-
	8	Tahirpur	Sreepur (N)	SreepurBazar	RM	X		x	1
	8	Tahirpur	Badaghat	Badaghat Bazar	RM	X		x	-
	- 8	Tahirpur	DakhinBardal	Kowkandi Bazar	RM	x		X	+
	8	Tahirpur	Sreepur (S)	Solemanpur Bazr	RM	X		X	-
3-12	- 0 - 9	Derai	Kulanje	Boalia Bazar	GCM	X		X	+-
3-13	9	Derai	Jagdol	Hossainpur	RM	X		X	
3-14	9	Derai	Vatipara	Shahjalal Bazar	RM	<u>x</u>		X	
3-15	9	Derai	Charnarchar	Loularchar	RM	x		X	+
3-15	9	Derai	Tarol	Dhol Bazar	RM	X -		X	+
3-10	9	Derai	Rafinagar	Noagaon Bazar	RM	x	┞────	X	
3-17	9	Derai	Jagdol	Jagdol Bazar	RM	X	-	X	
3-18	9 10		Patli			X		X	
	10	Jagannathpur		Rasulgonj Market	GC GC	X		X	
	10	Jagannathpur	Chilaura	Chilaura Market		X		X	
	10	Jagannathpur	Mirpur	Kewnbari Market	RM	X		X	
	_	Jagannathpur	Chilaura	Goprapur Market	RM .	-			<u> </u>
	10	Jagannathpur	Ranigonj	Ranigonj Market	RM DM	X		X	+
	10	Jagannathpur	Jagannathpur	Keshbpur Hat	RM	X		X	+
	10	Jagannathpur	Patli	Lama Rasulgonj Hat	RM	X		X	+
2 20	10	Jagannathpur Sunamganii Sadar	Jagannathpur	Bhaberbazar Hat	RM	X		X	200
3-20	11	Sunamganji Sadar	Mohanpur	Joynagar ManaalKata	GCM	0 V	0	0 	· N12
3-21		Sunamganji Sadar	Jahangir nagar	MongalKata	GCM	X		X	+
3-22		Sunamganji Sadar	Jahangir nagar	Narayan tala	RM	X		X	+
		Sunamganji Sadar	Ranger Char	Bongaon	RM	X		X	+
		Sunamganji Sadar	Summa	Balakanda	RM	X		X	+
3-24		0					1 .		
3-24 3-25		Sunamganji Sadar	Mollapara	Ichagari	RM	X		X	
3-23 3-24 3-25 3-26 3-27	12	Sunamganji Sadar Sunamganji Sadar Dakhin Sunamganj	Mollapara Mohanpur Dorgapasa	Ichagari Boishber Banglabazar GC	RM RM GC	X X X		X X X	<u> </u>

Initial list of candidate subproject (hat, Habiganj)

HAT SCREENING DISTRICT : HABIGANJ

SL No.		Upazila Name	Union Name	Hat Name	Туре	Screening		Selection	Hapr Project No
		:				No.1	No.2	Selection	парі гібјестічо
4-1	1	HABIGANJ-S	LUKRA	Bakitak Bazar	RM	x		x	
4-2	i	HABIGANJ-S	Richi	Chalk Bazar	RM	X		X	
4-3		HABIGANJ-S	Poil	Poil Natun Bazar	RM ¹	0	0	0	R13
4-4		HABIGANJ-S	Tegharia	Haorer Tek Gudara Bazar	RM	x		X	
4-5	2	Bahubal	Putijuri up	Digoambar	RM	0	0	0	R13
4-6		Bahubal	Vadeshor	Roshid pur	RM	X		X	
4-7		Bahubal	Satkapon up	Shoaia Bazer	RM	0	0	0	R13
4-8	3	Lakhai				-		-	
4-9	4	Nabiganj				-		-	
4-10	5	AZMIRIGANJ	Badolpur	Paharpur	GC	0	0	0	R8
4-11		AZMIRIGANJ	Kakailsew	Nischintopur	RM	0	0	· 0	R9
4-12	6	Chunarughøt	Ahmadabad	Amorote	GC	X		X	
4-13		Chunarughat	Ahmadabad	Razar Bazar	RM	х		x	
4-14		Chunarughat	Shankhola	Shankhola	RM	X		· X	
4-15		Chunarughat	Shatiajury	Sundapur	RM	X		X	
4-16		Chunarughat	Gazipur	Jrulia	RM	Х		Х	
4-17	7	Baniachong	Pukra	Aowar Mohal Bazar	RM	0	0	0	R13
4-18		Baniachong	Pukra	Aliganj Bazar	RM	Х		X	
4-19	1	Baniachong	Sujatpur	Sujatpur Bazar	GC	0	0	0	R10
4-20		Baniachong	Muradpur	Muradpur Bazar	RM	0	0	0	R9
4-21	8	Madhabpur						-	

Initial list of candidate subproject (hat, Brahmanbaria) (1/2)

1/2

SL		Upazila Name	Union Nmae	Hat Name	Туре	Scree	ening		Haor Proje
		-1			-77-	No.1	No.2	Selection	No.
5-1	1	Kasba	Mulagram	Moydagonj bazar	GC	X	(10.2	x	
5-2	1	Kasba	Kaimpur	Mondhabag bazar	RM	x		x	1
5-3	2 ·	Ashuganj	Sadar	Chakbazar market	GC	X .		x	
5-4	2	Ashuganj	Durgapur	Bahadurpur Bazar	RM	<u>x</u>		x	
5-5	2	Ashuganj	Araisidha	Bazar Chartala	RM	X		X	
5-6	2		Tarua	Tarua bazar		X		x	
5-7	2	Ashuganj		+	RM			-	
	2	Ashuganj	Sharifpur T-1-b-b-r	Kholapara bazar	RM	X		<u> </u>	
5-8 5-0		Ashuganj	Talshahar	Moishair bazar	RM	X		<u> </u>	
5-9	3	Sarail	Panishwar	Bertala Bazar	RM	X ·		<u>x</u>	<u> </u>
-10	3	Sarail	Panishwar	T- Ghar Chak Bazar	RM	X		X	
-11	3	Sarail	Panishwar	Bitghar Bazar	RM	х		X	1
-12	3	Sarail	Panishwar	Panishwar Bazar	RM	Х		<u>x</u>	
-13	3	Sarail	Shahajadapur	Dewra Bazar	RM	Х		x	
-14	3	Sarail	Shahajadapur	Molaish Bazar	RM .	Х		x	
-15	3	Sarail	Shahajadapur	Shahajadapur Bazar	GC	Х		X	-
-16	3	Sarail	Aruail	Rajapur Chak Notun Bazar	RM	X		х	
i-17	3	Sarail	Aruail	Rajapur Chak Puraton Bazar	RM	. X		X	
-18	3	Sarail	Aruail	Aruail Bazar	GC	х		Х	
i-19	3	Sarail	Aruail	Dubajail Bazar	RM	Х		X	
5-20	3	Sarail	Chunta	Ajabpur Bazar	RM	X		Х	
5-21	3	Sarail	Chunta	Chunta Bazar	RM	x		x	
-22	3	Sarail	Chunta	Rashulpur bazar	RM	Х		X	
5-23	3	Sarail	Noagaon	Baríura Bazar	RM	Х		x	
5-24	3	Sarail	Noagaon	Akhitara Bazar	RM	х		X	
5-25	3	Sarail	Noagaon	Katanisher Bazar	RM	x		x	
5-26	3	Sarail	Noagaon	Budda Bazar	RM	Х		x	
5-27	3	Sarail	Pakshimul	Joyrdarkandi Sonamura ghat	RM	х		x	
5-28	3	Sarail	Pakshimul	Pakshimul Bazar	RM	X		x	
5-29	3	Sarail	Pakshimul	Bhuishar Bazar	RM	X		x	
5-30	3	Sarail	Kalikaccha	Kalikacha Bazar	RM	x		X	
5-31	3	Sarail	Saraíl	Sarail Morning Bazar	RM	x	1	x	+
5-32	3	Sarail	Sarail	Sarail Bazar	GC	X		x –	<u> </u>
5-33	3	Sarail	Sarail	Sarail Cattle Market	RM	X	·	x	+
5-34	3	Sarail	Shahabajpur	Shahabajpur Bazar	RM	X		X	
5-35	3	Sarail		Moulovi Bazar	RM	. x		X	
5-36	3	Sarail	Shahabajpur	Modhu Bazar	RM	X		X	+
5-37	4	Bancharampur		+	NLVI				-
			Shahabajpur	Shibpur Daharahar harra					<u> </u>
5-38	4	Bancharampur	Shahabajpur	Baherchar bazar		-		-	+
5-39		Bancharampur	Shahabajpur	Ulukandi (Manikpur) bazar		-	<u> </u>		
5-40	4	Bancharampur	Shahabajpur	Mowlagonj bazar					
5-41	4	Bancharampur	Shahabajpur	Sonarampur bazar				-	ļ
5-42	5	Brahmanbaria Sadar	Majlishpur	Bakail bazar	RM	х		x	
5-43	5	Brahmanbaria Sadar	Basudeb	Ghatiara bazar	RM	Х		x	
5-44	5	Brahmanbaria Sadar	Machhihata	Chandpur bazar	RM	X		x	· · -
5-45	5	Brahmanbaria Sadar	Machhihata	Chinair bazar	RM	х		X	.
5-46	5	Brahmanbaria Sadar	Machhihata	Radhika bazar	RM	х		x	
5-47	5	Brahmanbaria Sadar	Bodhal	Bodhal bazar	RM	x		х	
5-48	6	Nasirnagar	Nasirnagar	Kulikunda Bazar	RM	х	1	<u>x</u>	
5-49	6	Nasimagar	Nasimagar	Nasirnagar Bazar	GC -	Х.,		x	
5-50	6	Nasirnagar	Fundauk	Fundauk Bazar	GC	x		Х	
5-51	6	Nasirnagar	Gokarna	Chairkuri Bazar	GC .	X		x	
5-52	6	Nasimagar	Guniak	Gutina Bazar	RM	х		X	
5-53	6	Nasirnagar	Purbabagh	Purbabagh Bazar	RM	х		x	Γ
5-54	6	Nasirnagar	Dharmondal	Dhannondal Bazar	RM	x		X	1
5-55	6	Nasimagar	Chatalpar	Chatalpar Bazar	GC	X	1	x	1
5-56	6	Nasimagar	Guniak	Chitna Bazar	RM	x	1	x	
5-57	7	Akhaura	Mogra	Mogra(GC)	GC	x		x	
5-58	8	Nabinagar	Biddakut	Merkuta GC		<u> </u>	1	-	1
5-59	8	Nabinagar	Salingong	Salúngong		- -	1		
5-60	8								+
	-	Nabinagar	Ratanpur	Ratanpur		-		<u> </u>	
5-61	8	Nabinagar	Borikandi	Sreeghar GC		-	-	-	+
	8	Nabinagar	Birgaon	Baismouza		- '			.
			Ratanpur	Shahapur GC	1		1	-	1
5-63	8	Nabinagar				· · ·		-	
5-62 5-63 5-64 5-65	8	Nabinagar Nabinagar	Samogram Bitghar	Maniknagar Bitghar GC		-		· .	

Initial list of candidate subproject (h	hat, Brahmanbaria) (2/2)
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SL		Upazila Name	Union Nmae	Hat Name	Туре	Screening			Haor Project
		1			-71-	No.1	No.2	Selection	No.
5-67	8	Nabinagar	Natghar	Kurighar		-		-	
5-68	9	Bijoynagar	Chandura UP	Amtoli bazar	RM	х		x	
5-69	9	Bijoynagar	Chandura UP	Rampur bazar	RM .	X		x	
5-70	9	Bijoynagar	Singerbeel UP	Merashanibazar	RM	Х		x	
5-71	9	Bijoynagar	Singerbeel UP	Sreepur bazar	RM	Х		x	
5-72	9	Bijoynagar	Potton UP	Noagaonbazar	RM	х		x	
5-73	9	Bijoynagar	Potton UP	Lakximurabazar	RM	х		x	T
5-74	9	Bijoynagar	Ichapura UP	Ariol bazar	RM	х		x	
5-75	9	Bijoynagar	Ichapura UP	Mirjapur bazar	RM	х		X	
5-76	9	Bijoynagar	Ichapnra UP	Kalirbazar	RM	х		x	
5-77	9	Bijoynagar	Campaknagar UP	Millon bazar	RM	х		x	
5-78	9	Bijoynagar	Paharpur UP	Paharpur bazar	RM	х		x	
5-79	9	Bijoynagar	Paharpur UP	Kadomtolí bazar	RM	х		x	
5-80	9	Bijoynagar	Paharpur UP	Mukandapur bazar	RM	х		x	1
5-81	9	Bijoynagar	Paharpur UP	Gazir bazar	RM	х		x	
5-82	9	Bijoynagar	Bishnopur UP	Bishnopur Chakbazar	RM	x		x	
5-83	9	Bijoynagar	Bishnopur UP	Runway bazar	RM	·X		x	
5-84	9	Bijoynagar	Bishnopur UP	Kalachora bazar	RM	х		x	
5-85	9	Bijoynagar	Bishnopur UP	Chotorpur bazar	RM	х		x	
5-86	9	Bijoynagar	Bishnopur UP	Bishnopur bazar	RM	х		X	
5-87	9	Bijoynagar	Bhudhanti UP	Islampur bazar	RM	Χ.		x	
5-88	9	Bijoynagar	Bhudhauti UP	Satborga bazar	RM	х		x	1
5-89	9	Bijoynagar	Horospur UP	Paikpara bazar	RM	х		х	
5-90	9	Bijoynagar	Horospur UP	Bulla bazar	RM	х		x	
5-91	9	Bijoynagar	Horospur UP	Dewan bazar	RM	х		x	

Initial list of candidate subproject (ghat, Kishoreganj)

GHAT SCREENING

		T: KISHOR			<i>a</i> t .		Screening			Haor project
Sl No.	i i	Upazila name	Union name	Village/Market	Ghat name	Name of river/Canal	No.1	No.2	Selection	No.
. 1-1	1	Pakundia					-	-		
1-2	2	Bajitpur	Dighirpar	Purbapatuly	Dighirpar		х		х	
1-3	3	ltna	Badla	Bashikura	Bashikura bazar	Dhanu	0	0	0	N7
1-4		11	Joysiddhi	Joysiddhi	Joysiddhi bazar	Bautai	0	0	0	R9
1-5			Itna	ltna purba gram	Itna purba gram	Dono	x		Х	
1-6		н	Itna	Itna Naton bazar	Ima Naton bazar	Dono	х		х	
1-7		II.	Badla	Borach kura bazar	Borach kura bazar	Mogra	X	1	х	
1-8		р	Raji	Raituti	Raji bazar	Mogra	x		X	
1-9	4	Sadar	Danapatuli	Kaliarkanda	Kaliarkanda Bazar Ghat	Singhua	0	0	0	NI
1-10		р	Maijakhapon	Sunamganj	Kalaihati Ghat	Dhalwasary	x		х	·
1-11	5	Nikli					-		-	
1-12	6	Austagram	Adampur	Adampur	Adampur GC	Dhalesshari river	x		x	
1-13		- Ч	Bangalpara	Bangalpara	Bangalpara bazar	Dhalesshari river	X		х	
1-14		u	Dewghar	Savianagar	Savianagar GC	Dhalesshari river	x		X	1
1-15		4	Austagram	Austagram	Austagram GC	Dhalesshari river	x		x ·	
1-16		บ	Khayerpur	Abdullapur Bazar	Abdullapur Bazar	Kalni river	х		x	
1-17	7	Hossainpur	Shahedal	Village	Ashutia Notun bazar Ghat	Noroshonda River	X		x	
1-18	-	n	Pumdi	Village	Char Purndi bazar Ghat	Noroshonda River	0	· 0	Q.	R4
1-19		u u	n	Village	Rampur bazar Ghat	Noroshonda River	0	0	0	R4
1-20	8	Katiadi					- 1	-		
1-21	9	Mithamoin	Gopdighi	Bogadia	Bogadia	Ghora Vanga	0	0	0	
1-22		и	Mithamoin	Mithamoin	Thanaghat	Ghorautra	x		X	
1-23			Kewarjor	Kazirkhola	Kazirkhola	Meghna	x		X	
1-24		ŭ	Katkhal	Char Katkhal	Char Katkhal	Meghna	0	0	0	R9
1-25		5	Dhaki	Gobindapur	Gobindapur	Bowlai	x	1	X	
1-26		11	Ghagra	Maliunda	Maliunda	Haturia	X		Х	1
1-27		II.	Gopdighi	Olua	Olua	Ghorautra	0	0	0	N2
1-28	10	Tarail		1.1			-	-	-	
1-29	11	Bhairab	Aganagar	lundia	Lundia Ghat	Shitalpati	X		x	
1-30			Sadekpur	Sadekpur	Kacharighat	Kalninadi	0	0	0	R7
1-31	12	Karimganj	Bagoghoria	Jahirabad	Jahirabad Ghat	Noroshonda River	x		X	-
1-32		ч	Joyka	Panahar bazar	Panahar bazar Ghat	Noroshonda River	0	0	. 0	NI
1-33		n	Gundhar	shudi bazar	shudi bazar Ghat	Noroshonda Ríver	0	0	0	NI
1-34		ч	Guzadía	Guzadia bazar	Guzadia bazar Ghat	Noroshonda River	x		х	
1-35		н	Sutarpara	Chamta Bondor	Chamta Bondor Ghat	Nagsinni River	x		х	
1-36			Niamatpur	dholairkanda	Kolimar Ghat	Noroshonda River	x	-	x	1
1-37	13	Kuliarchar							-	1

Initial list of candidate subproject (ghat,Netrokona)

GHAT SCREENING

DISTRICT : NETROKONA

\$1, No.		Upaliza Name	Uion Name	Village/Market	Ghat Name	Screening*		Selection	Haor Project
						No, l	No.2	Selection	No.
2-1	1	Mohanganj				-		-	
2-2	2	Kalma Kanda				-		-	
2-3	3	Purbadhala	Jaria	Jaria Bazar	Jaria Ghat	0	х	. X	
2-4		Purbadhala	Hogla	Patra Bazar	Patra Ghat	0	0	0	R1
2-5		Purbadhala	Ghagra	Ghagra Bazar	Ghagra Ghat	0	0	0	RI
2-6		Purbadhala	Hogla	Moheshpotti Village	Moheshpotti Ghat	0	0	0	R1
2-7	4	. Atpara				- '		-	
2-8	5	Durgapur				-		-	-
2-9	6	Madan				-		-	
2-10	7	Khaliajuri	KHALIAJURI	Market	Khaliajuri Ghat	0	х	х	
2-11		Khaliajuri	CHAKUA	Market	Lipsa Ghat	0	X	x	
2-12		Khaliajuri	GAZIPUR	Market	Panchhat Ghat	х		X	
2-13	8	BARHATTA	Sahata	Sahata village	Sahata Ghat	Х		x	
2-14		BARHATTA	Roypur	· Fakirer Bazar GC	Fakirer Bazar Ghat	X		x	
2-15	9	Netrokona Sadar				-		-	
2-16	10	Kendua	Bolaishimul		-	X		х	
2-17.		Kendua	Mozafarpur	٣	-	Х		X	
2-18		. Kendua	Chirang		-	x		x	1

Initial list of candidate subproject (ghat, Sunamganj)

GHAT SCREENING DISTRICT :SUNAMGANJ

SL No		Name of Upazila	Union Name	Village/Market	Ghat Name	Scree	ening	Selection	Haor
						No.1	No.2	Beleetion	Project No
3-1	1	Chhatak				-		-	
3-2	2	Doarabazar	Doarabazar	Market	Doarabazar Gc	Х		X	
3-3	2	Doarabazar	Dohalia	Market	Dohaliabazar	<u>X</u>		x	
3-4	2	Doarabazar	Mannargaon	Market	Ambaribazar	Х		X	ļ
3-5	.3	Shalla			· ·	-		-	
3-6	3	Sulla	Hobibpur	B Market	Anandapur Ghat	X		X	
3-7	3	Sulla	Atgoan	B Market	Nizgoan Bazar Ghat	Х		X	
3-8	3	Sulla	Bahara	B Market	Ghungiargaon Ghat	Х		X	
3-9	3	Sulla	Atgoan	B Market	Rahutola Bazar Ghat	0	0	0	R14
3-10	3	Sulla	Sulla	B Market	Satpara Bazar Ghat	Х		X	
3-11	4	South Sunamganji				-		-	
3-12	5	BISWAMVERPUR	Solukabad	Jinerpur bazar	Jinerpur	Х		X	
3-13	5	BISWAMVERPUR	Dhanpur	Chaterkona	Brammonpura	Х		Х	
3-14	5	BISWAMVERPUR	Polash	Muktikhola	Muktikhola	x		X	
3-15	6	Dharmapasha	Bongshikunda Uttar	Market	Moheskhola	Х			
3-16	6	Dharmapasha	Madhyanagar	Market	Madhyanagar	Х		Х	
3-17	6	Dharmapasha	Sukhair Rajapur Daskhin	Market	Rajapur	Х			
3-18	6	Dharmapasha	Bongshikunda Daskhin	Market	Chapaiti	Х			
3-19	6	Dharmapasha	Dharmapasha	Market	Mohedipur	Х		X	-
3-20	6.	Dharmapasha	Sukhair Rajapur Daskhin	Market	Doulotpur	Х			
3-21	7	Jamalganj	Sachna Bazar	Sachna Bazar	Sachna Gc	X		x	
3-22	7	Jamalganj	BimKhali	Noagoan	Noagoan Bazar	Х			
3-23	7	Jamalganj	Fenarbak	Gozaria	Gozaria Bazar	Х			1
3-24	7	Jamalganj	Fenarbak	Allipur	Allipur Bazar	х			
3-25	7	Jamalganj	Beheli	Pondp	Pondp Bazar	х			
3-26	7	Jamalganj	Jamalganj Sadar	Shongbadpur	Shongbadpur	х			
3-27	8	Tahirpur	Tahirpur	Maket	Tahirpur bazar	х			
3-28	8	Tahirpur	Dakhin Bardal	Market	Kawkandi Bazar	х			
3-29	8	Tahirpur	Baligui	Maket	Balijuri	x			
3-30	8	Tahirpur	Sreepur (N)	Maket	Kalagaon Bazar	х			
3-31	8	Tahirpur	Badaghat	Maket	Shohala	х			
3-32	8	Tahirpur	Badaghat	Maket	Pathanpara	х			
3-33	8	Tahirpur	Sreepur (S)	Maket	Lamagoan Bazar	x			
3-34	8	Tahirpur	Sreepur (S)	Maket	Solemanpur	X			Î
3-35	8	Tahirpur	Tahirpur	Village	Shonir Houre	X			
3-36	8	Tahirpur	Bdaghat	Village	Binnakhli	X	<u> </u>		<u> </u>
3-37	9	Derai	Kulanje	Boalia Bazar	Boalia	0	0	0	R8
3-38	9	Derai	Kulanje	Akilsha Bazar	Akilsha	X	1	x	· ·
3-39	9	Derai	Rafinagar	Bangla Bazar	Bangla Bazar	X	· · · ·	x	
3-40	9	Derai	Jagdol	Hossainpur	Hossainpur	x		x	
3-41	9	Derai	Jagdol	Nogdipur	Nogdipur	x		x	
3-42	10	Jagannathpur	, j	Ç I		-		-	
3-43	-10	Jagannathpur	Jagannathpur	Jagannathpur	Jagannathpur Bazar	X	1	x	1
3-44	10	Jagannathpur	Ranigonj	Ranigonj Market	Ranigonj Ghat	x		X	
3-45	10	Jagannathour	Bhaverbazar	Market	Bhaber bazar Ghat	x		X	
3-46	11	SUNAMGANJ-	Mohanpur	Joynagar Market	Joynagar Ghat	0	0	0	N12
3-47	11	SUNAMGANJ-	Lakshmanshree	Madanpur	Ahsanmara	x		x	
3-48	11	SUNAMGANJ-	Mohanpur	Boisber	Boisber Bazar	x	1	x	
3-49	11	SUNAMGANJ-	Mohanpur	Mohanpur	Mohanpur Troller	x	<u> </u>	x	-
3-50	11	SUNAMGANJ-	Mohanpur	Morarbond	Mohanpur Troller	X	1		1.
3-50	11	SUNAMGANJ-	Mohanpur	Poinda	Poinda Troller	X	+	X	1
3-52	11	SUNAMGANJ-	Goararang	Berajali Bazar	Islamgonj Troller	X	1	X	-
3-52	11		Paschim Pagla	Market		X	<u> </u>	x	
	-	Dakhin Sunamganj		4	Paglabazar GC		-	-	
3-54	12	Dakhin Sunamganj	Dorgapasa	Market	Banglabazar GC	X	+	X	NU2
3-55 3-56	12	Dakhin Sunamganj Dakhin Sunamganj	Patharia. Patharia.	Market Market	Pathariabazar GC Birgaonbazar	0	0	0	N12

Initial list of candidate subproject (ghat, Habiganj)

GHAT SCREENING
DISTRICT : HABIGANJ

Sl. No,		Upaliza Name	Uion Name	Village/Market	Ghat Name	Scre	ening	Selection	Hapr
						No.1		Selection	Project No.
1		2	3	4	5 .	-		-	
4-1	1	HABIGANJ-S	LUKRA	Bainkitak Bazar	Bainkitak Bazar Gaht	X		X	
4-2		HABIGANJ-S	POIL	Purbo Poil Bazar	Purbo Poil Bazar Ghat	0	0	0	R13
4-3		HABIGANJ-S	POIL	Poil Natun Bazar	Poil Natun Bazar Ghat	0	0	0	R13
4-4	2	Bahubal				-			
4-5	3	Lakhai				-		-	
4-6	4	Nabiganj				-		-	
4-7	5	AZMIRIGANJ				-		-	
4-8	6	Chunarughat				-			
4-9	7	Baniachonj	Subidpur	Ratna	Ratna Bazar	X		X	
4-10		Baniachonj	N/E Baniachong	Adrsha Bazar	Adrsha Bazar	X		X	
4-11		Baniachonj	Sujatpur	Sujatpur	Sujath pur Bazar	0	0	0	R10
4-12		Baniachonj	Pailarkandi	Kumri	Kumri Bazar	X	···-	X	
4-13	8	Madhabpur						-	

Initial list of candidate subproject (ghat,Brahmanbaria)

GHAT SCREENING DISTRICT : BRAHMANBARIA

S1. No.		Upaliza Name	Union Name	Ghat Name	Scre	ening	Solaation	Haor Project
					No.1	No.2	Selection	No.
5-1	1	Kasba			-		-	
5-2	2	Ashuganj	Durgapur	Mohammadpur latifkhali Paschim par meghna river	X		X	
5-3	2	Ashuganj	Durgapur	Bahadurpur meghna river ghat	х		Х	
- 5-4	2	Ashuganj	Durgapur	Khariala Ballchara ghat	х		X	
`5-5	2	Ashuganj	Lalpur	Lalpur bazar ghat	x		X .	
5-6	2	Ashuganj	Sharifpur	Pagla river Ghat	х		x	
5-7	2	Ashuganj	Charchartala	Ashuganj Vairab majhir ghat	Х		X	
5-8	3.	Sarail	Pakshimul	Joydhorkandi Purbopara Ghat	x		х	
5-9	3	Sarail	Pakshimul	Joydhorkandi Kazi Mosque Ghat	X		X	
5-10	3	Sarail	Pakshimul	Joydhorkandi Nazir mia Ghat	x		x	
5-11	3	Sarail	Pakshimul	Joydhorkandi Hospital Ghat	x		х	
5-12	3	Sarail	Pakshimul	Joydhorkandi Karimpur Mosque Ghat	x		x	
5-13	3	Sarail	Pakshimul	Joydhorkandí Karimpur Moulovi Mosque Ghat	x		x	
5-14	3	Sarail	Pakshimul	Joydhorkandi Madurpara road Ghat	x		x	
5-15	3	Sarail	Pakshimul	Bhuishar Bazar Ghat	x		X	
5-16	3	Sarail	Panishwar	Panishwar Bazar Ghat	x		x	
5-17	3	Sarail	 Panishwar	Solabari in front of Godibari	x		x	
5-18	3	Sarail	Panishwar	Bitghar Bazar Ghat	x	<u> </u>	x	
5-19	3	Sarail	Panishwar	Panishwar Notun Bazar Ghat	x		x	
5-20	3	Sarail	Paníshwar	Kumarpara West side	x		x	
5-21	3	Sarail	Panishwar	Bitghar Nouka Ghat	X		x	
5-22	3	Sarail	Aruail	Aruail Bazar Ghat	x		x	
5-23	3	Sarail	Aruail	Dr. Mozid House	X		x	
5-24	3	Sarail	Aruail	Dubajail Aziz House	x		x	·- ·
.5-25	3	Sarail	Aruail	Kakoria	X		x	
5-26	3	Sarail	Aruail	Ranidia GPS	x		x	
5-27	3	Sarail	Aruail	Rajapur RNGPS	X		x	
5-28	3	Sarail	Noagaon	Budda Ghat	X	· · ·	X -	
5-29	3	Sarail	Chunta	Azabpur Bazar Ghat	X		x	
5-30	3	Sarail	Kalikacha	Dharunti Ghat	X		x	
5-31	3	Sarail	Shahajadapur	Shahajadapur Chak Bazar North Ghat	x		x	-
5-32	3	Sarail	Shahajadapur	Shahajadapur Kadir mia Ghat	x		x	
5-33	3	Sarail	Shahajadapur	Molaish South GPS Ghat	x		X	
5-34	3	Sarail	Shahajadapur	Dewra Hafiz Ghat	x		X	
5-35	3	Sarail	Shahajdpur	Boishamura South of N.H.W Ghat	x		x	
5-36	3	Sarail	Shahajdpur	Rajabaria Kandi Ghat	x		X	
5-37	3	Sarail	Shahajdpur	Boishamura Ghat	X		X	
5-38	4	Bancharampur						
5-39	5	Brahmanbaria Sadai	r				-	
5-40	6	NASIRNAGAR	Haripur	Harinber Bazar Ghat	x		X	·····
5-41	6	NASIRNAGAR	Nasirngar	Nasirnagar Dakbangla Ghat	x	!	X	
5-42	7	Akhaura		And And Bar Date and Char				
5-43	8	Nabinagar	Nabinagar East	Monubabu	x		X	· · · ·
5-44	8	Nabinagar	Krishnanagar	Montala	x	1	X	
5-45	8	Nabinagar	Krishnanagar	Durgaratnpur	x	-	x	+
5-46	8	Nabinagar	Salingong	Lunch ghat	- X	1	x	+
5-47	8	Nabinagar	Bitghar	Mohespur	X		x	
5-48	8	Nabinagar	Birgaon	Baismouza	X		x	
5-49	8	Nabinagar	Nabinagar East	Moholla	x	+	x	+
5-50	8	Nabinagar	Borikandi	Lunch ghat	x		x	+
5-51	8	Nabinagar	Samogram	Lunch ghat	- <u>^</u> X	+	X	+
5-52	8	Nabinagar	Shibpur	Kanikara	x		x	+
5-52	9		Potton			+		+
		Bijoynagar		Laximurabazar Bazar Ghat Shimna Ghat	X		X	
5-54	9	Bijoynagar	Potton		X		X	
5-55	9	Bijoynagar	Champaknagar	Nurpurhat Ghat	X		<u> </u>	
5-56	9	Bijoynagar	Charislampur	Muhammadpur Ghat	X		X	-
5-57	9	Bijoynagar	Singerbeel	Singerbeelbazar Ghat	X	+	<u> </u>	+
5-58	9	Bijoynagar	Ichapura UP	Kalirbazar Ghat	X		x	
5-59	9	Bijoynagar	Chandura UP	Chandurahazar ghat	<u>X</u>		<u>x</u>	1
5-60	9	Bijoynagar	Budhati UP	Satborgabazar ghat	x		x	1

RURA	L ROA	DRA	NKIN	G

		ROADF						Existi	ng			Pian							
Ranks	No	District	Upazila	Road Code	Road Name	nu nou	Crest Width		Sureface T	ype (km)		-	Length (kni)		Road	Distanting	Culven	Haar Project 2	
uñ.	1	and the second	La estada	1.000		Beneficiary	(m)	Earthern	Flexible	Brie	Rigid	Submergible	m-submergil	Total	Class	Bridg (m)	(m)	No:	
1	4-103	Habigani	Bamachang	636113013	Subidpur Up office-Aowar Mohal Bazar Via Kabirpur, Niamat	350,000	2:30	\$.20	0.00	0.00	0.60	0.00	7 40	7.40	-141	30	20	R13	
2	4-7	Habigani	Sadar	636444065	Bohula 2no word Pirbari - Paschim Haor Road	120,000	2.00	3.00	0.00	0.00	6.66	0.00	3.00	3,00	VRB	0	10	R13	
3	3-44	Kishoreganj	Karungan	348422008	Niamatper-Gundhar GC Road via Fazilkholi Bazar	50,000	7.32	10.60	2.30	00.0	0.00	0.00	12.90	12.90	178	Ú	0	N9	
4	24	Netrokona	Purbadhala		Ghagra UP (Kapashia)-Jarta Bazar road via Katwari	50,000	3.20	6.00	0.00	0.00	0.60	0.00	5.00	6.00	0.8	0	0	RI RI	
5	3-173	Sunamuani	SUNAMG	690892009	R&H (Rabarbari)-Baishber-Joynagar GC	50,000	3.00	5,20	0.00	0.00	2.10	\$,30	0.00	8,30	UZR	0	30	N12	
6	4-100	Habiganj	Baniachang		Kadir Gonj Ge-Paharpur Ge Via Karcha	50,000	3.00	6.50	0.00	0.00	0.00	0.00	5.00	5.00	1.2R	-50	20	RS	
7	4-105	Habiganj	Baniachang	636113017		50,000	2.11	11.00	0.00	0.00	0.00	1.50	1.50	3.00	ies.	100	-30	R10	
8	4-55	Habigan	Azmirigant	636024002	Pirojpur Lanchghat-Jalsuka bazar Rd.	46,200	3.00	2,40	0.00	0.00	0.00	2:00	0.00	3,00	VRA.	0	10	R8	
9	2.19	Netrokona	Khailaiuri	372384012	Havatpur-Chanpur via Khusalpur	45,000	3.00	5.00	2,88	0.00	0.00	0.00	5.00	5,00	VRA	D	0	R15	
10	3-158	Sunamganj	chin Sunamg	690932011	Santigaro bazar (UZ HQ)-Rajaniganj bazar(Patharia GC) via I	45,000	5.50	8.57	3.71	2.50	0.35	15.13	0.00	15/13	(JER	190	50	N12	
11	1.21	Kishoreganj	Austagram	348022002	Austagrani-Milamoto Road	40,200	5.50	9.84	0.00	0.00	036	10.20	0.00	10.20	0.228	0	0	Nó	
12	1.3	Kishoregani	Fakundua	148793006	Rossendi UP-Ashutia old bazer Rd via Mengalbaria and Thurarja	40,000	3.60	8.53	3.10	0.30	0.00	0.00	11.94	1194		0	0	RS	
13	1-4	Kishoreganj	Pakuundea	348793007	Pakandra UP-Moran hat via Salazdi	40,000	2.90	9.02	0.05	0.00	0,00	0.00	9.97	9.97	0	0	0	R5	
14	1.0	Kishoregunj	Ima	348332004	Itra-Kaknilehew Road	40,000	4.48	9.07	0.00	0.00	4.30	13.37	0.00	13.37	1008	0	<u>d</u>	N9	
15	1-15	Kishoregani	Sadar	348494052	Baratopa-Thadapara Bazer Road	40,000	3.00	4.65	0.00	0.00	0.00	2.33	2.33	4.66	VRA	0	0	R4	
16	1-18	Kishoreganj	Nikli	348761005	Janatela UP office-Chetra Road	40,000	2.44	2.00	0.00	0.00	0.00	0.00	2.00	200	VRA	n.	Ð	NI	
17	1.29	Kishoreganj	Hossampur	348274038	Gengahaha hezar-Janata bazarvia Abdul Aziz H/S road	40,000	3.00	2.95	1.92	0.00	0.00	0.00	4.87	4.87	VRA	0	0	R4	
18	1.35	Kishoregan	Minhamoun	348593001	Mithamoin Noya hati-Dhaki UP Office Rd.	40,000	3 60	9.12	0.00	0.00	0.48	9,59	0.00	9.59	100	Ű.		N2	
19	1-20	Kishoreganj	Hossampa	348273007	Char Pumdi bazhr-Pumdi UP H/Q Road	38,000	4.00	2.82	1,63	0.00.	0.00	0.00	4.45	4,45	1104	0	0	R4	
20	4-54	Habiganj	Azmirigan	636025034	Anandopur Ghat - Anadopur Village	36,000	3.50	1.80	0.00	0.00	1.00	1.80	0.00	1.80	VRB	60	10	R9	
21	1.22	Kishoregani	Austagram	348023004	Austagram-Badha ghat-Kalma UP office roed	35,000	3,06	9,33	0.00	0.00	0,00	9.53	0.00.	.9.53	1.000	0	0	No	
22	1-28	Kishoregani	Hossampur	348273010	Gobindapor UP H/Q-Janata bazar Road	35,000	4.80	1.88	2:12	0.00	0.00	0.00	4.00	4.00	11	0	0	Ral	
23	1-48	Kishoreganj	Kuliarchar	348543005	Dummkanda Bazar-Randi UP Office Rd	35,000	4.88	4.38	1.00	0.00	0.00	0.00	5,38	5 38	Chilly	0	0	R9	
24	3-126	Sunamganj	SUNAMG.	690893001	R&H road Janigaon-Joynagar Bazar Road	35,000	2.50	4 12	1.00	0.58	2.00	3.85	3.85	7,70	ABAR	0	10	NI2	
25	4.47	Habigani	Azmirigani	636022003	Azmirigoni - Paharpur road	35,000	7.32	16.06	0.00	0.00	0.00	0.00	14.06	14.06	1728	0	9	R8	
26	1-25	Kishoregani	Austagram	348623005	Austagram-Mohishertilla-Gagra UP office Rd	34,000	2,66	7,80	0.00	0.00	3.57	1137	0.00			0	0	Nő	
27	4.49	Habigam	Azmiriganj	636022005	Paharpur - Baniachong Via Jhilsuik.	31,200	2.50	9.02	0.00	0.00	0.00	7.02	0.00	7.02	1728	0	70	R13	
28	1-5	Kishoreganj	Bajnpur	348063001	Ujanchar bazar-Halimpur UP Rd	30,000	2.75	2.86	4:20	0.00	10.00	0.00	7.06	706	1000	0	U	N8	
29	1-8	Kishoreganj	Itna	348335041	Mowra-Chradrapur hat Rd	30,000	3.65	1.95	0.00	0.00	1.05	3.00	0.00	3.00	VRB	0	n	N7	
30	1-31	Kishoreganj	Mithanom	348592002	Mithamoin Sadar-Karnngany Boardar Balikholu Road	30,000	5.00	6.51	0.00	1 23	2.22	10.00	0.00	10.00	11248	0	0	N2	
31	1-36	Kishoreganj	Mithamoin	348594001	Singua Ferry ghat-Bagadia Bazar Rd	30.000	3.30	3.00	0.00	0.00	0,00	3.00	0.00	00.E	VRA	0	0	N2	
32	1.37	Kishoregan	Tarail	348923004	Thana H-Q-Dhamiha Bazer	30,000	3.00	3.54	0.00	0.00	0.00	0.00	3.54	5.34	1.00	0	0	N7	
33	3-89	Sunamganj	Derai	690292004	Derai Bazar-Dhol-Marculi Rond	30,000	3.70	1.84	0.00	0.00	19.41	0.92	0.92	1.84	UZN	0	10	R8	
34	4-8	Habigani	Bahubal	636053004	Satkapan UP Office (Chalitatala)-Bakterpur via Shoata bazar	30,000	4.00	4,50	8.17	0,00	0.00	0.00	4.50	4,50	1 ad	Ö	0	R13	
35	4-109	Habigani	Baniachang	636114049	Pukra Up office -Kandipura village Riad Via Darowa, Sathgran	30,000	2.50	3.13	0.00	0.00	0.00	0.00	3,13	3.13	VRA	0	1.0	R13	
36	1-10	Kishoreganj	Itrai	348333007	Bodia UP-Barshikura Hat Road	25,000	3.60	3,00	0.00	0.00	0.00	3.00	0.00	∋,00,€	124	ġ.	0	N7	
37	1-32	Kishoreganj	Tarail	348923010	Jawer UP-Dhamiha UP via Echapashar	25,000	3.10	3,34	0.00	0.00	0.00	3.31	0.00	3.31	1000	10	0	N6.	
38	1-47	Kisboreganj	Kuliarchar	348543002	Chhayson UP Office R&H) Palha Bazar via Madhobdi, Pailanpur R	25,600	4.88	2.47	1.99	0.51	0.00	0.00	4 97	4 97		0	n	R7	
39	2-3	Netrokona	Purbadhala	372833002	Purbadhala (Kalduar)-Ghagra UP (Kapashia) road via Ghagra	25,000	4.67	\$.36	11.64	0.00	0,00	0.00	3.36	3.36	Lab	0	0	RI	
-40	3-70	Sunameani	Jamalgani	690502004	Sachna Bazar - Behelt GC - Taherpur	25,000	5.50	0.50	0.00	0.00	8,00	0.15	0.00	0.15	UZR	20	0	N12	

Final list of candidate subproject (rural road) (1/3)

Subproject Lists Appendix 4.5

1 - N								Existi	ng				_	_	Plan			
Ranki	No	District	Upazida	Road Code	Road Name	Beneficiary	Crest Width		Sureface T	ype (km)	_		Length (km)		Road	Bridg (m)	Culvest	Hanr Project(25
1141	10.					Beneficiary	(in)	Earthen	Flexible	Briz	Rigid	Submergible	an-submergil	Total	Class	Di leg (m)	(m)	No
41	4-53	Habiganj	Azmiriganj	636025035	Solori - Shibpasha	25,000	2.50	8,50	0.00	0.00	0:00	8.50	0.00	8.50	VRB	0	20	R8
42	4-106	Habiganj	Baniachang	636114013	Habigont-Baniyachong RHD to Sunary vill	25,000	2.00	2.00	0.00	0.00	0.00	0.00	1.00	1,00	VRA	30	20	R)5
43	4-107	Habigani	Baniachang	636114019	Shibgonj Bazar to halderpur Chilori road	25,000	1.50	3.90	0.00	0.00	0.00	0.00	3.00	3.00	VRA	0	10	N13
44	4-58	Habigani	Azmirigani	636025026	Kamulpur Ghat - Kamulpur Pry School	21,900	2.25	2,75	0.00	0.00	0.00	2.75	0.00	2.75	VRB	0	10	R9
45	3-47	Sunanganj	Dharmapasha		Joysree-Moddhanogar Via Ramdiga Road	30,400	3 70	16.96	0.00	0.00	1.55	8,73	8,73	17.46	102R	:0	100	N4
46	1.2	Kishoteganj	Pakendia	348793005	Hossendi UP-Motkhola GC Via Alamda	201000	4.50	3.90	4.40	0.00	0,08	0.00	8.30	8.30	NI P	.0	0	R5
47	1-19	Kishoregan	Nikli	348765009	Guroi UP office-Chapirchar Rd	20,000	3.65	0.64	0.00	0.00	10 10	0.00	0.64	0.64	VRB	0	0	NS
48	1-25	Kisboregam	Hossanpur	348273005	Gobindapur Chowrasta bazar-Gohindapur UP IVQ Road	20,000	3.90	0,75	1 33	0.20	.00.0	0.00	2.08	2.08	bhi(iii	0	0	84
49	1-27	Kishoreganj	Hossampar	348273009	Adu Master bazar-Shahedal UP H/Q Road	20,000	4,50	1.00	2,00	0.00	10.00	0.00	3.00	5,00	1	0	0	R4
30	1-32	Kishoreganj	Katiadi	348453007	Achenita UP H/Q -Pong Masua bazar Rd	20,000	3.65	1.00	130	0.00	0.00	0.00	2.10	2,10	2.00	0		86
51	2.6	Netrokona	Purbadhala	372834065	Kalihor R&H-Dampara via Chander Bazar	20,000	3.00	3.00	0.00	0.00	0.00	0.00	3.00	3.00	VRA	60	0	R)
52	2.7	Netrokona	Purbadhala	372835039	Shahula-Hatkhala Bazar	20,000	2.75	3.20	0.00	0.00	0.00	0.00	3.20	3.20	VRB	0	0	RI
53	2-20	Netrokona	Barhatta	372092007	Amtala-Samaj GC Road (Barhatta Portion)	20,000	4.40	6.24	4.70	0.00	0.00	6.24	0.00	6.24	1EZR	0	D	NS:
54	3-132	Sunamgani	SUNAMG	690894005	Tokershat-Bahadurpur Rd.(Laxmansree)	20,000	2.00	2.60	1.00	0.00	0.00	3,60	0.00	3 60	VRA	0	10	N12
55	4-10	Habigani	Bahubal	636054079	Guharua Pry. School - Panchparia Road Via Sluice gate Durga	20,000	3,75	5.00	0.00	0.00	0.00	0.00	5.00	5.00	VRA	0	20	R13
56	4-48	Habigani	Azmirigani	636023001	Pashchimbag - Azmirigoni Road	19,200	2.50	7.25	1:20	0.00	0,00	4.23	4.22	8.45	-1	0	50	R8
57	4-59	Habigani	Azmirigani	636025012	G C C Road - Ronia Road	18,500	5.00	2,10	0.00	0.00	0.00	2.10	0.00	2.10	VRB	0	10	R8
58	4-57	Habigani	Azmingani	636025008	Pituarkandi Ghat - Shalla Highschool.	17,600	3,50	3.65	0.09	0.00	0,00	3.65	0.00	3.65	VRB	0	10	R8
59	4-52	Habigan	Azmirigani	636025027	Kakilsow Bazar - Rahalu Rd	16,500	2.80	2.25	0.00	0.00	0.00	2.25	0.00	2.25	VRB	0	10	R9
60	1-11	Kishoregani	Sadai	348493009	Danapatuli UP-Jalia bazar	15,000	4.88	1.11	1.50	0.00	0.00	0.00	2.61	2.61	OPENING.	0	Ð	NI
61	2.11	Netrokona	Atpara	372045037	Sukari Badirakola	15,000	2.00	2.00	0.00	0.00	0.00	2.00	0.00	2.00	VRB	0	0	N1)
67	3-102	Sunamgan	Derai	690294018	Nagergaon Ferryghai-Nasnibazai	15,000	2.50	4.50	0.00	0.00	2.50	2.00	0.00	2.00	VRA	.0	0	R\$
63	3-103	Sunamgani	Derai	690294019	Akilha Bazar-Nagergaon via Kulanje	15,000	3,00	231	0.00	0.00	5.10	2.00	0.00	2.00	VRA	0	40	RS
64	3-104	Sunamganj	Derai	690294020	Akilhu Bazar-Nasni Bazar	15,000	2,50	2.25	0.00	0.00	2.00	0.00	1.25	1.25	VRA	30	20	R 8
65	4.4	Habigan	Sadar	636444035	Poil-Pachparia Rd.	15,000	3.50	4.20	1.70	0.60	0.00	0.00	4:20	4.20	VRA	0	0	R13
66	415	Habigani	Bahubal	636055058	Shuaiyabazar-Ruyal/	15,000	3.00	6.00	0.00	0.00	0.00	6.00	0.00	6.00	VRB	10	100	R13
67	4-56	Habigan	Azennigani	636025006	Bong rd - Paddy land Rd	13,400	3.00	5.10	0.00	0.00	0.00	5.10	0.06	5.10	VRB	0	10	R8
68	2-28	Netrokona	Barhatta	372094015	Rambhadrapur FRB-Nathati Bazur Rd	13,000	2.92	(4.39	2,01	0.60	0.00	0.00	4,39	4.39	VRA	0	0	ŃŚ
69	3-166	Sunamganj	chin Suname	690934021	Ganiganj RHD-Jibdara Road.	12,000	3 70	4.20	0.00	0.00	0.00	4.70	0.00	4.70	VRA	0	20	N12
70	4-12	Habigani	Bahubal	636054010	Khagaura Bagdair Road	12,000	3 00	5,80	0.00	0.00	0.00	0.00	5.80	5 80	VRA	0	10	R13
71	4-51	Habigan	Azmirigani	636025023	Kakilsow GCCR - Rosulpur	11,250	3.00	2,10	0.00	0.00	0.00	2.10	0.00	2.10	VRB	0	10	189
72	3-50	Sunamganj	Dharmapasha	690323005	Modhayanagar bazar-Golha Rd	10,500	3.00	\$.00	0.00	0.60	1.00	8.00	0.00	8:00	1.00	Ú.	50	NA
73	2.5	Netrokona	Purbadhala	372835052	Jaria Parbopara-Jaria Switch Gate via RPSchool Rd.	10.000	2.50	3.00	0.00	0.00	0.00	3.00	0.00	3.00	VRB	0	0	R2
74	2.9	Netrokona	Atmira		Ukrakhai Road	10,000	2:00	1.75	0.00	0.00	0.00	1,75	0.00	1.75	VRB	0	0	NU
75	2-10	Netrokona	Atpara		Duaz bazar road	10,000	2.50	1.50	0.00	0.00	0.00	1.50	0.00	1.50	VRB	0	0	N11
76	2-10	Netrokona	Kheilajuri	372383009	Upazila HQ - Gazipur UP office rd	10,000	5,00	6.60	1,90	0.00	0.00	4,25	4.25	8.50		450	20	R15
77	2-25	Netrokona	Barbatta	372093004	Barhatta Ferryghat (UP)-Horiatola bazar.	10,000	4.80	6:47	0.00	0.00	0.00	3.24	3.24	6.47	100	10	10	N5
78	3-79	Sunamgani	Jamalyani	690505037	Sukdebpur - Radanagar Road	10,000	3.70	1.00	0.00	0.00	0.00	0.00	0.04	0.04	VRB	20	10	NI2
79	3.99	Sunamganj	Derai	690294012	Tarapasa-Tongor	10,000	3.00	2.25	0.00	0.00	1.00	2,00	0.00	2.00	VRA	0	20	R8
80	3-101	Sunamganj	Deral		Boaha Bazar-Bhaitgaon	10,000	2.50	3.35	0.00	0.00	1.90	0.00	2.00	2.00	VRA	0	0	RS

Final list of candidate subproject (rural road) (2/3)

								Existi	ug						Plan		_	
Ranki	No	District	Upazilā	Read Code	Road Name	Beneficiary	Crest Width		Sureface T	ype (km)		l.c	engils (km)		Road	Bridg (m)	Calvert	Haor Projectf 2
118			1 1 1 1 1 1 1			Denenciary	(0)	Earthen	Flexible	Bric	Rigid	Submergibleon-	submergil	Total	Class	Surge (DI)	(m)	No.
81	3-131	Sunamganj	SUNAMG	690894022	RHD(Haluargoan)-Islampur.(Laxmansree)	10,000	2.00	2,20	0.00	0.00	0.00	2.20	0.00	2.20	VRA	0	(N12
82	3-135	Sunamganj	SUNAMG	690894073	Bahaderpur RHD to Nurulla Village	10,000	2.00	3,75	0.00	0.00	0.25	4,00	0.00	4.00	VRA	0		N12
83	3-142	Sunamganj	SUNAMG	690895111	Katair joynagor GC road (Noagaon)-Kandigoan village	10.000	2.00	5.00	0.00	0:00	0.00	3,00	0.00	3.00	VRB	0	1	N12
84	3-152	Sunamgan	SUNAMG.	690895038	Katart-Joynagar Road to Narkila GPS (Mohanpur)	10,000	1,50	2,00	0.00	0.00	0 00	0.00	2.00	2.00	VRB	0	(N12
85	3-174	Sunamganj	khin Sumanng	690934048	Ashammura Pry. School-Puran -Kandigoan Road	10,000	3.70	1.90	0.00	0.00	1.91	3.81	0,00	3.81	VRA	Ű.	10	
86	4-6	Habigani	Sadar	636444064	Boro Bohula Tho word Care Road - Moiltarpar Road	10,000	2.00	3,00	0.00	0.00	0.00	0,00	3.00 E	3.00	VRB	0	K	
87	4-9	Habiganj	Bahubal	636053005	Snanghat UP Office-Bagdair bazar	10,000	4.00	5.80	0.00	0.00	0.00	0.00	5.80	5.80	1,000	0	1	R13
88	4-11	Habiganj	Bahubal	636055015	Khagaura Algahati-Noayahati via Primary school	10,000	2.50	1.50	0.00	0.00	0.00	0.00	1.50	1.50	VRB	0	20	
89	4.15	Habigani	Banubal	636054012	Amrita-Barchar Read	10,000	3.00	3.20	0.00	0.00	0.00	0.00	3.20	3.20	VRA	U	10	R13
90	4-17	Habigani	Bahubal	636054080	Digambar bazar-Noawai Road	10,000	2,50	1.50	0.00	0.60	0.00	0.00	1.50	1.50	VRA	0	10	R13
91	4.60	Habiganj	Azmiriganj	636025002	R&H Road - Morolbari Road	9,500	3.00	0.54	0.00	0.00	0,00	0.00	0.54	0.54	VRB	10,	10	
92	3-168	Sanamganj	chin Sunamg	690934030	Derai RHD - Sreenathpur via Jahanpur -Madrassa Road,	9,000	3,70	3.50	0.00	0.00	0.00	3.50	0.00	3 50	VRA	D	10	
93	4-16	Habigani	Bahubal	636055044	Raisgong Rd-Barkadabad	9,000	3.00	3,00	0.00	0.00	0.00	0.00	3.00	5.00	VRB	0	10	R13
94	2-18	Netrokona	Khailajuri	372383011	Khahajuri UP office - Panchhat bazar ed.	\$,000	4.00	10.00	.0.00	0.00	0.00	5,00	5.00	10.00	-0.1	10	30	-
95	3-176	Sunamganj	khin Sunamg	690934086	Kandagaon LGED UZR Road to Nowakhali - Bhimkhali UZR +	8,000	3.70	2.10	1.90	D.00	0.00	0.00	4.00	4.00	VRA	40	20	
96	4-14	Habiganj	Bahubal	636055017	Fotehpur-Shampur Read	\$,000	2.50	1.40	0.00	0.00	0.00	0.00	1.40	3,40	VRB	0	10	R13
97	2-8	Netrokona	Atpara	372045016	Gopalasram-Madukal	7,000	2,00	1.50	0.00	0.00	0,00	0,75	0.75	1.50	VRB	20	1.0	-
98	2-17	Netrokona	Khailajuri	372383010	Gazipur UP office-Panchhat bazar rd.	7,000	5,00	13.14	0,00	0.00	0.00	6.57	6.57	13.14	1	40	10	
99	2-21	Netrokona	Bathatta	372092009	Atitput Bazar (R&H)-Chandrapur Bazar via Huzrabari,	7,000	2.89	4.77	0.75	0.28	0.00	2.24	2.24	4.48	1220	0	10	
100	4-90	Habigani	Chunarugha	636264009	Durgapur Bazar - Sreerampur Road	6,000	3,40	2.40	2.90	0.00	0.00	0.00	1.00	1.00	VRA	0	0	
101	2-17	Netrokona	Atpara	372045066	Chargati GPS road	5,000	2,00	2.00	0.00	0.00	0.00	1,00	1.00	2,00	VRB	20	10	
102	3-141	Sunamganj	SUNAMG	690895092	Jalalpur-Dakher hawore road.	5,000	2.00	2.86	0.00	0.00	0.00	2.86	0.00	2.86	VRB	0		NI2
103	3-153	Sunamganj	SUNAMG	690895070	RHD, Alisampara Bridge-Jogjinpur road	5,000	2.00	0.50	0.00	0.00	0.00	0.50	0.00	0.50	VRB	0	1	N12
104	3-154	Sunamganj	SUNAMG	690895039	Katair Joynagar Road to Noagaon GPS.(Mohanpur)	5,000	1.50	1.50	0,00	0.00	0.00	1.50	0.00	1.50	VRB	0		N12
105	4-78	Habigan	Chunarugha	636264008	Ware House Ubahata-Sakir Mohammad Road	5,000	3.44	4,00	0.00	0.00	0.00	0.00	1.50	1,50	VRA	0	10	
106	3-53	Sunamganj	Dharmapasha	690323010	Joysree-Durgapur Road	9,600	3,00	6.44	0.00	0.00	0.00	5.44	0.00	6.44	1.11	30	20	
107	2-33	Netrokona	Kendua	372475053	Batta - Kachari road	3,200	3.00	0.65	0.00	0.00	0.00	0.00	0.65	0.65	VR-B	0	01	
108	2-32	Netrokona	Kendua	372475010	Muzafarpur Pacca road (Gogda Bazar) - Sunai Beel.	3,000	5.00	1.20	6.00	0.00	0.00	0.00	1.20	1.20	VR-B	0	10	
109	3-68	Sunamganj	Jamalgani	690503008	Kukrabashi RHD-Naya Baranka Kheyaghat Road Via	3,000	3 70	5.00	0.00	0.00	0.00	0.10	0.00	0.10		20	10	N12
110	3-161	Sunamganj	chin Sunamg	690933008	Shimilbak UP office - Muktakhar - Joynagar via Chandput GPS	3,000	5.50	4.20	0.00	0.00	0.00	0.00	4.20	4.20	120	170	30	
111	4-70	Habiganj	Chunarugha	636265044	Ulukani govt Pry. School - Assian Highway link road.	2,500	2.44	2.00	0.00	0.00	0.00	0.00	1.00	1.00	VRB	0	10	
112	5-40	Brahmanbaia	Sarail	412945098	Dewra-Charuhati Road	.0	2.00	1.50	0.00	0.00	0.00	1 50	0.00	1,50	VRB	0	C.	R13
[13	5-41	Brahmanbais	Surail	412945145	Shahajadapur-Dhauris Road	0	2.50	3.00	0.00	0.00	0.00	0,00	3.00	3,00	VRB	0	- 0	1.0.0.0
114	4-45	Habigani	Nabigoni	636775068	Muktahar brdgs-Shakua bazar road		2,50	1.50	1.00	0.00	0.00	0.00	2.50	2.50	VR-A	0	1	N13

Subproject Lists Appendix 4.5

Final list of candidate subproject (rural road) (3/3)

Final list of candidate subproject (hat)

HAT SELECTION

No.	List No.	District	Upazila	Union name	Hat name	Туре	Haor project No.
1	1-1	Kishoreganj	Pakundia	Agarosindur	Bahahadia	RM	R5
2	1-4	Kishoreganj	Itna	Joysiddhi	Mudirgaon	RM	N9
3	1-9	Kishoreganj	Sadar	Danapatuli	Kaliar Kanda Bazar	RM	N1
4	1-20	Kishoreganj	Sadar	Pumdi	Pumdi bazar	RM	R4
5	1-21	Kishoreganj	Sadar	"	Adu master bazar	RM	R4
6	1-22	Kishoreganj	Sadar	"	Nimeukhali bazar	RM	R4
7	1-27	Kishoreganj	Sadar	Saharam Dhuldia	Dhuldia Hat	GC	N1
8	1-32	Kishoreganj	Sadar	Gopdighi	Bogadia	RM	N2
9	1-41	Kishoreganj	Sadar	Joyka	Shadakhali	RM	N1
10	2-5	Netrokona	Purbadhala	Hogla	Patra Bazar	RM	R1
11	2-6	Netrokona	Purbadhala	Ghagra	Ghagra Bazar	RM	R1
12	2-13	Netrokona	Khaliajuri	MENDIPUR	Satgoan Bazar	RM	R15
13	3-16	Sunamganj	Dharmapasha	Selborash	Badshagonj	RM	N4
14	3-45	Sunamganj	Sunamganji Sadar	Mohanpur	Joynagar	GC	N12
15	4-3	Habiganj	HABIGANJ-S	Poil	Poil Natun Bazar	RM	R13
16	4-5	Habiganj	Bahubal	Putijuri up	Digoambar	RM	R13
17	4-7	Habiganj	Bahubal	Satkapon up	Shoaia Bazer	RM	R13
18	4-10	Habiganj	AZMIRIGANJ	Badolpur	Paharpur	GC	R8
19	4-11	Habiganj	AZMIRIGANJ	Kakailsew	Nischintopur	RM	R9
20	4-17	Habiganj	Baniachong	Pukra	Aowar Mohal Bazar	RM	R13
21	4-19	Habiganj	Baniachong	Sujatpur	Sujatpur Bazar	GC	R10
22	4-20	Habiganj	Baniachong	Muradpur	Muradpur Bazar	RM	R9

Brahmanbaria : Not applicable

Total

GC (Growth center market)

> RM (Rural market)

Total	4	(nos)
Kishoregnj	1	(nos)
Netorkona	0	(nos)
Sunamganj	1	(nos)
Habiganj	2	(nos)
Brahmanbaria	0	(nos)
Total	18	(nos)
Kishoregnj	0	()
monoreging	8	(nos)
Netorkona	8 3	(nos) (nos)
0.5		. ,
Netorkona	3	(nos)
Netorkona Sunamganj	3	(nos) (nos)

Final list of candidate subproject (ghat)

No.	List No.	District	Upazila	Ghat name	Туре	Haor project No.
1	1-3	Kishoreganj	Itna	Bashikura bazar	Type-B	N7
2	1-4	Kishoreganj	Itna	Joysiddhi bazar	Type-B	R9
3	1-9	Kishoreganj	Sadar	Kaliarkanda Bazar Ghat	Type-B	N1
4	1-18	Kishoreganj	Sadar	Char Pumdi bazar Ghat	Type-B	R4
5	1-19	Kishoreganj	Sadar	Rampur bazar Ghat	Type-B	R4
6	1-24	Kishoreganj	Sadar	Char Katkhal	Type-A	R9
7	1-27	Kishoreganj	Sadar	Olua	Type-A	N2
8	1-30	Kishoreganj	Sadar	Kacharighat	Type-A	R7
9	1-32	Kishoreganj	Sadar	Panahar bazar Ghat	Type-B	N1
10	1-33	Kishoreganj	Sadar	shudi bazar Ghat	Type-B	N1
11	2-4	Netrokona	Purbadhala	Patra Ghat	Type-A	R1
12	2-5	Netrokona	Purbadhala	Ghagra Ghat	Type-A	R1
13	2-6	Netrokona	Purbadhala	Moheshpotti Ghat	Type-A	R1
14	3-9	Sunamganj	Sulla	Rahutola Bazar Ghat	Type-B	R14
15	3-37	Sunamganj	Derai	Boalia	Type-A	R8
16	3-46	Sunamganj	SUNAMGANJ-SADAR	Joynagar Ghat	Type-A	N12
17	3-55	Sunamganj	Dakhin Sunamganj	Pathariabazar GC	Type-B	N12
18	3-56	Sunamganj	Dakhin Sunamganj	Birgaonbazar	Type-B	N12
19	4-2	Habiganj	HABIGANJ-S	Purbo Poil Bazar Ghat	Type-B	R13
20	4-3	Habiganj	HABIGANJ-S	Poil Natun Bazar Ghat	Type-B	R13
21	4-11	Habiganj	Baniachonj	Sujath pur Bazar	Type-B	R10

GHAT GHAT SELECTION

Brahmanbaria : Not applicable

Type-A : Not with market, Type-B : with market

		Type-A	Type-B	
Total	21	8	13	(nos)
Kishoregnj	10	3	7	(nos)
Netorkona	3	3	0	(nos)
Sunamganj	5	2	3	(nos)
Habiganj	3	0	3	(nos)
Brahmanbaria	0	0	0	(nos)

APPENDIX 4.6 Standard Drawings

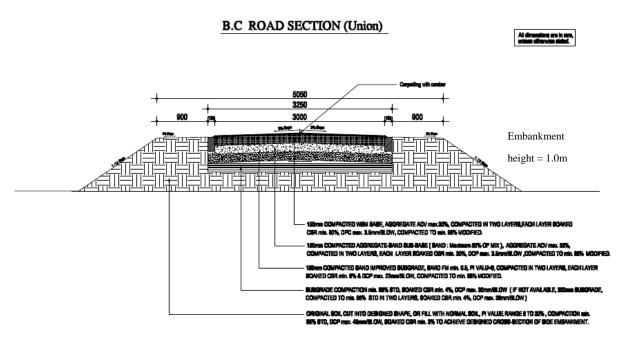
List of Drawing

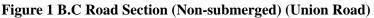
No.			Title	Remarks
1	B.C Road Section	(Non-submerged)	(Union Road)	Source 1)
2	B.C Road Section	(Non-submerged)	(Upazila Road)	Source 1)
3	RCC Road Section	(Submerged)	(Union Road)	Source 1)
4	RCC Road Section	(Submerged)	(Upazila Road)	Source 1)
5	Block Road Section	(Non-submerged)	(Village Road)	Source 1)
6	Block Road Section	(Submerged)	(Village Road)	Source 1)
7	Existing Rad Cross-sec	tion		
8	Hat (Market)Layout Pl	an		Source 3)
9	Ghat (Boat Landing Ste	:p)		Source 2)
10	Hat and Ghat Protection	n		Source 3)
Source 1):	Technical Viability Study of	Block Road, Community bas	sed Resource Management Project Final Report (April 2011, BRTC	and BUET)

Source 2):

): ROAD DESIGN STANDARDS RURAL ROAD (LGED and JICA)

Source 3): Haor Infrastructure and Livelihood Improvement Project (HILIP)





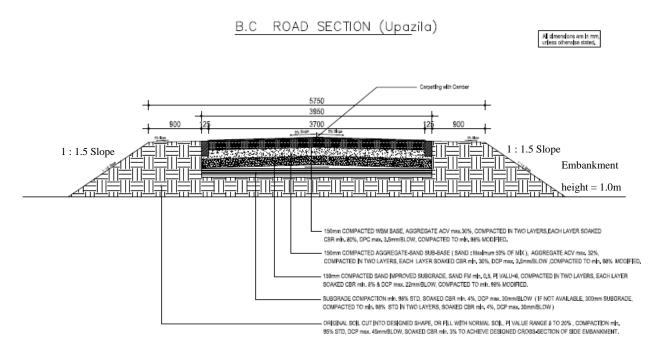


Figure 2 B.C Road Section (Non-submerged) (Upazila Road)

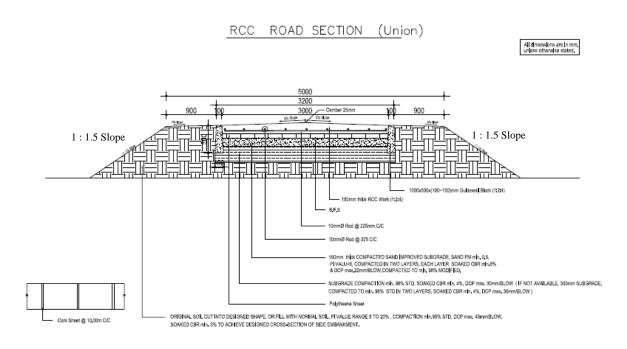


Figure 3 RCC Road Section (Submerged) (Union Road)

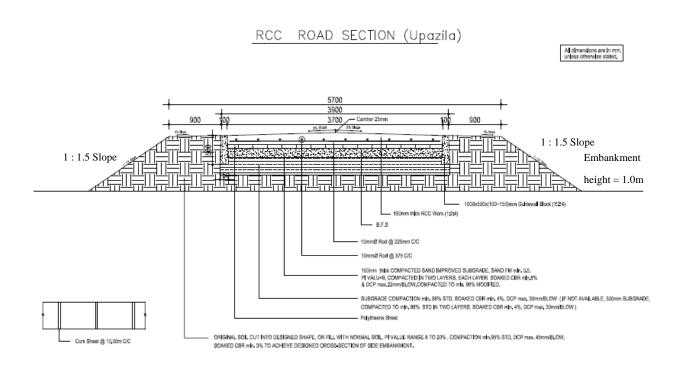


Figure 4 RCC Road Section (Submerged) (Upazila Road)

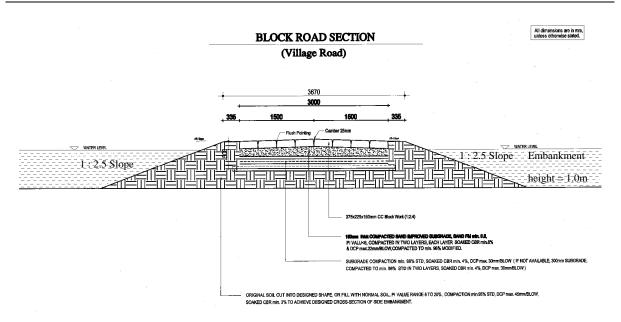


Figure 5 Block Road Section (Non-submerged) (Village Road)

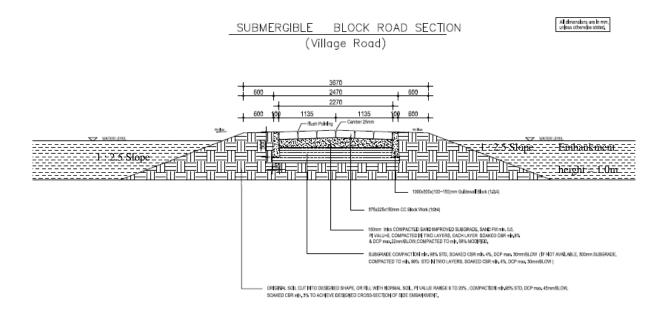
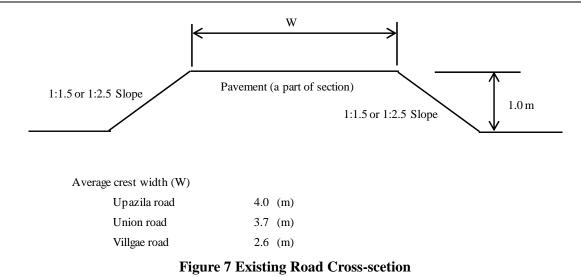
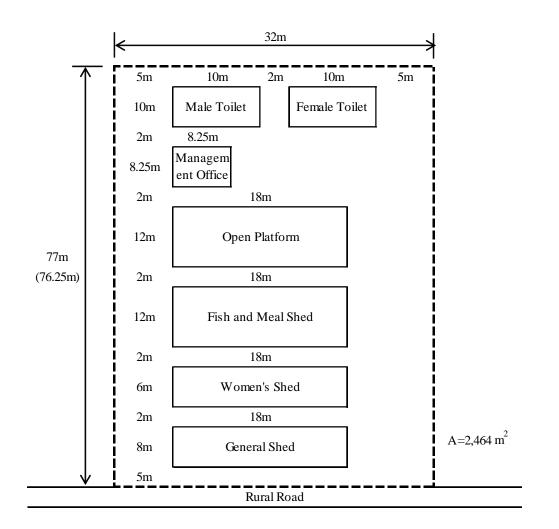


Figure 6 Block Road Section (Submerged) (Village Road)





Item	Dimension	Area (m^2)
General Shed	18m X 8m	144
Women's Shed	18m X 6m	108
Fish and Meat Shed	18m X 12m	216
Open Platform	18m X 12m	216
Male Toilet	10m X 10m	100
Female Toilet	10m X 10m	100
Tube Well		
Management Committee Office	8.25m X 8.25m	68
Dust Bins		
Total		952

Figure 8 Hat (Market) Layout Plan

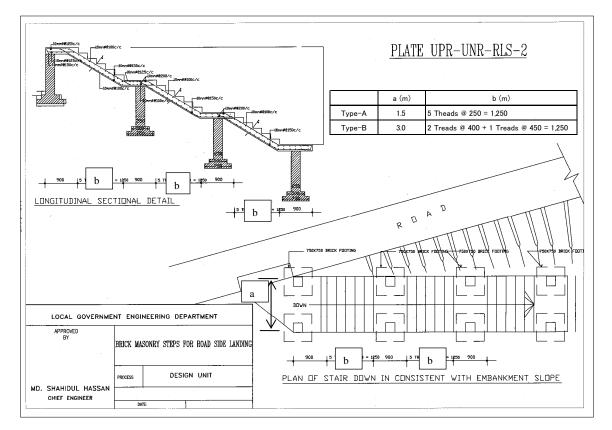


Figure 9 Ghat (Boat landing Facility)

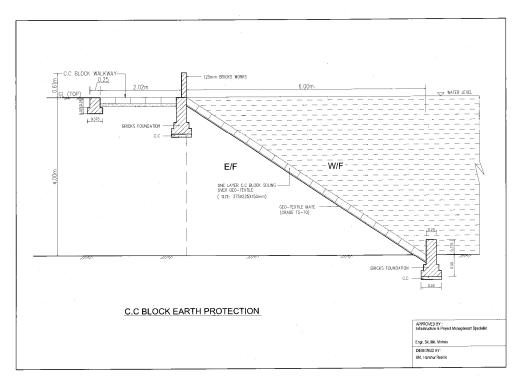


Figure 10 Hat and Ghat Protection

APPENDIX 4.7 Quantity

List of Quantity

No.	Title	Calculation Sheet No.*	Remarks
1	B.C Road Section (Non-submerged) (Union Road)	No.1	Source 1)
2	B.C Road Section (Non-submerged) (Upazila Road)	No.2	Source 1)
3	RCC Road Section (Submerged) (Union Road)	No.3	Source 1)
4	RCC Road Section (Submerged) (Upazila Road)	No.4	Source 1)
5	Block Road Section (Non-submerged) (Village Road)	No.5	Source 1)
6	Block Road Section (Submerged) (Village Road)	No.6	Source 1)
7	Culverts (double lane) on Upazila Road		Source 2)
8	Cunverts (single lane) on Union Road		Source 2)
9	RCC bridge (single lane) on Union Road		Source 2)
10	Road Safty Measures	No.10	Source 2)
11	Tree lantation and Caretaking		Source 2)
12	Fish and Meat Shed		Source 2)
13	Multi-purpose Shed		Source 2)
14	General Shed without Platform		Source 2)
15	Open Sales Platform		Source 2)
16	Women's Shed		Source 2)
17	Market Management Committee Office		Source 2)
18	Male Toilet		Source 2)
19	Female Toilet		Source 2)
20	Tube Well		Source 2)
21	Dust Bins		Source 2)
22	Boat Landing Step	No.22	
23	Hat and Ghat Protection		Source 3)

Source 1): Technical Viability Study of Block Road, Community based Resource Management Project Final Report (April 2011, BRTC and BUET)

Source 2): Preparatory Survey on the Northern Region Rural Development and Local Governance Improvement Project Final Report Annex 1

Source 3): Haor Infrastructure and Livelihood Improvement Project (HILIP)

*Calculation Sheet No.: Quantity is basically based on HILIP etc..The calculation sheet is modified adopted the structure.

B.C Road Section (Non- submerged, Unioni Road) for 1.0 km

			B.C Road Section (Non- submerged	l, Unioni Road) for 1.0 km		
						No.1
SN No.	Item Code	Layers	Description in Brief	Cacculation	Unit	Quantity
1	2.1.02		Cleaning by removal and disposal		LS	1.00
2	2.1.04.02.3	D.L.	Earth filling with works with specified soil in type of embankment	=(1/2*(5.05+8.05)*1.0-1/2*(3.7+6.7)*1.0)*1000	m ³	1,350.00
3	2.1.08.01	Bed preparation	Manual Compaction of earth in 150 mm thick compacted		m ³	1,350.00
4	3.1.04		Earth work in box cutting		m ²	3,250.00
5	3.2.15.02		Brick on the edging(125mm across) with 1st class/picked		m	2,000.00
6	3.2.15.03	End Protaction	CC Block on end edging (375mm across) with cc blocks (375mm x100mmx225mm)		m	0.00
7	3.2.25.03.1		CC Block on end edging (375mm across) with cc blocks		m	0.00
8	3.1.06.02		Sand(FM 0.50) filling (ISG)		m ³	813.00
9	3.2.02.03	Improved Subgrade	Providing Compacted aggregate sand(AS) Sub-base Course		m3	463.00
10	5.02		Single layer brick flat soling with 1st class or picked jhama		m ²	0.00
11	3.2.02.02		Providing laying, spreding and compacting 38mm down graded aggregates		m3	450.00
12	3.2.25		Prime coat with cut back bitumen		m ²	3,000.00
13	3.2.29.1		25mm thick(compacted) pre-mixed bitumenous carpeting to be prepared using 20mm down-stone chips		m ²	3,000.00
14	3.2.24.04		Providing tack coat with 60/70 or 80/100 penetration grade		m2	3,000.00
15	3.2.34	Base Course	7mm thick(compacted) pre-mixed bitumenous seal coat to be prepared using 6.33mm down pea gravel or crush stone		m2	3,000.00
16	4.2.03.01.1		Reinforcement cement Concrete(RCC) works in		m3	0.00
17	4.2.06.01		Supply and fabrication of MS high strength deformed		kg	0.00
18	3.2.11.01		Single layer CC Block soling with CC Block((375mm x 100mm x 225mm)		m2	0.00
19	5.028		Providing polytene sheet (0.18mm thick) on floor		m ²	0.00
20	5.103.04		Flush pointing to CC Block laying for pavement		m ²	0.00
21	5.2		Supplying, fittings sign board (6'-0" x4'-0") fitted with strong bambo		No	1.00

Souce : Technical Viability Study of Block Road, Community based Resource Management Project Final Report (April 2011, BRTC and BUET)

Final Report

B.C Road Section (Non- submerged, Upazi Road) for 1.0 km

			1			No.2
SN No.	Item Code	Layers	Description in Brief	Cacculation	Unit	Quantity
1	2.1.02		Cleaning by removal and disposal		LS	1.0
2	2.1.04.02.3	Dedensortion	Earth filling with works with specified soil in type of embankment	=(1/2*(5.75+8.75)*1.0-1/2*(4.0+7.0)*1.0)*1000	m ³	1,750.0
3	2.1.08.01	Bed preparation	Manual Compaction of earth in 150 mm thick compacted		m ³	1,750.0
4	3.1.04		Earth work in box cutting		m ²	3,950.00
5	3.2.15.02		Brick on the edging(125mm across) with 1st class/picked		m	2,000.0
6	3.2.15.03	End Protaction	CC Block on end edging (375mm across) with cc blocks (375mm x100mmx225mm)		m	0.0
7	3.2.25.03.1		CC Block on end edging (375mm across) with cc blocks		m	
8	3.1.06.02		Sand(FM 0.50) filling (ISG)		m ³	988.
9	3.2.02.03	Improved Subgrade	Providing Compacted aggregate sand(AS) Sub-base Course		m3	568.
10	5.02		Single layer brick flat soling with 1st class or picked jhama		m ²	0.
11	3.2.02.02		Providing laying, spreding and compacting 38mm down graded aggregates		m3	555.
12	3.2.25		Prime coat with cut back bitumen		m ²	3,700.
13	3.2.29.1		25mm thick(compacted) pre-mixed bitumenous carpeting to be prepared using 20mm down-stone chips		m ²	3,700.0
14	3.2.24.04		Providing tack coat with 60/70 or 80/100 penetration grade		m2	3,700.
15	3.2.34	Base Course	7mm thick(compacted) pre-mixed bitumenous seal coat to be prepared using 6.33mm down pea gravel or crush stone		m2	3,700.0
16	4.2.03.01.1		Reinforcement cement Concrete(RCC) works in		m3	0.0
17	4.2.06.01	7	Supply and fabrication of MS high strength deformed		kg	0.0
18	3.2.11.01		Single layer CC Block soling with CC Block((375mm x 100mm x 225mm)		m2	0.0
19	5.028	7	Providing polytene sheet (0.18mm thick) on floor		m ²	0.0
20	5.103.04	\neg	Flush pointing to CC Block laying for pavement		m ²	0.0
21	5.2	7	Supplying, fittings sign board (6-0" x4'-0") fitted with strong bambo		No	1.

Quantity Appendix 4.7

				•		No.3
SN No.	Item Code	Layers	Description in Brief	Cacculation	Unit	Quantity
1	2.1.02		Cleaning by removal and disposal		LS	1.00
2	2.1.04.02.3	Dedamartin	Earth filling with works with specified soil in type of embankment	=(1/2*(5.05+8.05)*1.0-1/2*(3.7+6.70)*1.0)*1000	m ³	1,350.00
3	2.1.08.01	Bed preparation	Manual Compaction of earth in 150 mm thick compacted		m ³	1,350.00
4	3.1.04		Earth work in box cutting		m^2	3,200.00
5	3.2.15.02		Brick on the edging(125mm across) with 1st class/picked		m	0.00
6	3.2.15.03	End Protaction	CC Block on end edging (375mm across) with cc blocks (375mm x100mmx225mm)		m	0.00
7	3.2.25.03.1		CC Block on end edging (375mm across) with cc blocks		m	2,000.00
8	3.1.06.02		Sand(FM 0.50) filling (ISG)		m ³	450.00
9	3.2.02.03	Improved Subgrade	Providing Compacted aggregate sand(AS) Sub-base Course		m3	0.00
10	5.02		Single layer brick flat soling with 1st class or picked jhama		m ²	3,000.00
11	3.2.02.02		Providing laying, spreding and compacting 38mm down graded aggregates		m3	0.00
12	3.2.25		Prime coat with cut back bitumen		m ²	0.00
13	3.2.29.1		25mm thick(compacted) pre-mixed bitumenous carpeting to be prepared using 20mm down-stone chips		m ²	0.00
14	3.2.24.04		Providing tack coat with 60/70 or 80/100 penetration grade		m2	0.00
15	3.2.34	Base Course	7mm thick(compacted) pre-mixed bitumenous seal coat to be prepared using 6.33mm down pea gravel or crush stone		m2	0.00
16	4.2.03.01.1		Reinforcement cement Concrete(RCC) works in		m3	489.00
17	4.2.06.01		Supply and fabrication of MS high strength deformed		kg	13,571.00
18	3.2.11.01		Single layer CC Block soling with CC Block((375mm x 100mm x 225mm)		m2	0.00
19	5.028		Providing polytene sheet (0.18mm thick) on floor		m ²	3,000.00
20	5.103.04		Flush pointing to CC Block laying for pavement		m ²	0.00
21	5.2		Supplying, fittings sign board (6-0" x4'-0") fitted with strong bambo		No	1.00

Souce : Technical Viability Study of Block Road, Community based Resource Management Project Final Report (April 2011, BRTC and BUET)

Final Report

RCC Road Section (submerged, Upazi Road) for 1.0 km

						No.
SN No.	Item Code	Layers	Description in Brief	Cacculation	Unit	Quantit
1	2.1.02		Cleaning by removal and disposal		LS	1.0
2	2.1.04.02.3		Earth filling with works with specified soil in type of embankment	=(1/2*(5.75+8.75)*1.0-1/2*(4.0+7.0)*1.0)*1000	m ³	1,750.0
3	2.1.08.01	Bed preparation	Manual Compaction of earth in 150 mm thick compacted		m ³	1,750.0
4	3.1.04		Earth work in box cutting		m ²	3,900.0
5	3.2.15.02		Brick on the edging(125mm across) with 1st class/picked		m	0.0
6	3.2.15.03	End Protaction	CC Block on end edging (375mm across) with cc blocks (375mm x100mmx225mm)		m	0.0
7	3.2.25.03.1		CC Block on end edging (375mm across) with cc blocks		m	2,000.0
8	3.1.06.02		Sand(FM 0.50) filling (ISG)		m ³	555.
9	3.2.02.03	Improved Subgrade	Providing Compacted aggregate sand(AS) Sub-base Course		m3	0.
10	5.02		Single layer brick flat soling with 1st class or picked jhama		m ²	3,700.
11	3.2.02.02		Providing laying, spreding and compacting 38mm down graded aggregates		m3	0.
12	3.2.25		Prime coat with cut back bitumen		m ²	0.
13	3.2.29.1		25mm thick(compacted) pre-mixed bitumenous carpeting to be prepared using 20mm down-stone chips		m ²	0.
14	3.2.24.04		Providing tack coat with 60/70 or 80/100 penetration grade		m2	0.
15	3.2.34	Base Course	7mm thick(compacted) pre-mixed bitumenous seal coat to be prepared using 6.33mm down pea gravel or crush stone		m2	0.0
16	4.2.03.01.1	7	Reinforcement cement Concrete(RCC) works in		m3	603.0
17	4.2.06.01	7	Supply and fabrication of MS high strength deformed		kg	16,740.
18	3.2.11.01		Single layer CC Block soling with CC Block((375mm x 100mm x 225mm)		m2	0.
19	5.028	7	Providing polytene sheet (0.18mm thick) on floor		m ²	3,700.
20	5.103.04	7	Flush pointing to CC Block laying for pavement		m ²	0.
21	5.2	7	Supplying, fittings sign board (6'-0" x4'-0") fitted with strong bambo		No	1.

Quantity Appendix 4.7

Block Road Section (Non- submerged, Village Road) for 1.0 km

SN No.	Item Code	Layers	Description in Brief	Cacculation	Unit	Quantity
1	2.1.02		Cleaning by removal and disposal		LS	1.0
2	2.1.04.02.3		Earth filling with works with specified soil in type of embankment	=(1/2*(3.67+6.67)*1.0-1/2*(2.6+5.6)*1.0)*1000	m ³	1,070.0
3	2.1.08.01	Bed preparation	Manual Compaction of earth in 150 mm thick compacted		m ³	1,070.0
4	3.1.04		Earth work in box cutting	=2.47*1000	m ²	2,470.00
5	3.2.15.02		Brick on the edging(125mm across) with 1st class/picked		m	0.0
6	3.2.15.03	End Protaction	CC Block on end edging (375mm across) with cc blocks (375mm x100mmx225mm)		m	2,000.0
7	3.2.15.01		CC Block on end edging (375mm across) with cc blocks		m	0.0
8	3.1.06.02		Sand(FM 0.50) filling (ISG)	=2.47*0.15*1000	m ³	371.0
9	3.2.02.03	Improved Subgrade	Providing Compacted aggregate sand(AS) Sub-base Course		m3	0.0
10	5.02		Single layer brick flat soling with 1st class or picked jhama		m ²	0.0
11	3.2.02.02		Providing laying, spreding and compacting 38mm down graded aggregates		m3	0.0
12	3.2.25		Prime coat with cut back bitumen		m ²	0.0
13	3.2.29.1		25mm thick(compacted) pre-mixed bitumenous carpeting to be prepared using 20mm down-stone chips		m ²	0.0
14	3.2.24.04		Providing tack coat with 60/70 or 80/100 penetration grade		m2	0.0
15	3.2.34	Base Course	7mm thick(compacted) pre-mixed bitumenous seal coat to be prepared using 6.33mm down pea gravel or crush stone		m2	0.0
16	4.2.03.01.1		Reinforcement cement Concrete(RCC) works in		m3	0.0
17	4.2.06.01	-1	Supply and fabrication of MS high strength deformed		kg	0.0
18	3.2.11.01		Single layer CC Block soling with CC Block((375mm x 100mm x 225mm)	=2.270*1000	m2	2,270.0
19	5.028		Providing polytene sheet (0.18mm thick) on floor		m ²	0.0
20	5.103.04		Flush pointing to CC Block laying for pavement	=2.470*1000	m ²	2,470.0
21	5.2		Supplying, fittings sign board (6'-0" x4'-0") fitted with strong bambo		No	1.0

Final Report

Block Road Section (submerged, Village Road) for 1.0 km

SN No.	Item Code	Layers	Description in Brief	Cacculation	Unit	Quantity
1	2.1.02		Cleaning by removal and disposal		LS	1.00
2	2.1.04.02.3		Earth filling with works with specified soil in type of embankment	=(1/2*(3.67+6.67)*1.0-1/2*(2.6+5.6)*1.0)*1000	m ³	1,070.00
3	2.1.08.01	Bed preparation	Manual Compaction of earth in 150 mm thick compacted		m ³	1,070.0
4	3.1.04	_	Earth work in box cutting	=2.47*1000	m ²	2,470.00
5	3.2.15.02		Brick on the edging(125mm across) with 1st class/picked		m	0.0
6	3.2.15.03	End Protaction	CC Block on end edging (375mm across) with cc blocks (375mm x100mmx225mm)		m	0.0
7	3.2.15.01	1	CC Block on end edging (375mm across) with cc blocks		m	2,000.0
8	3.1.06.02		Sand(FM 0.50) filling (ISG)	=2.47*0.15*1000	m ³	371.0
9	3.2.02.03	Improved Subgrade	Providing Compacted aggregate sand(AS) Sub-base Course		m3	0.0
10	5.02		Single layer brick flat soling with 1st class or picked jhama		m ²	0.0
11	3.2.02.02		Providing laying, spreding and compacting 38mm down graded aggregates		m3	0.0
12	3.2.25		Prime coat with cut back bitumen		m ²	0.0
13	3.2.29.1		25mm thick(compacted) pre-mixed bitumenous carpeting to be prepared using 20mm down-stone chips		m ²	0.0
14	3.2.24.04	1	Providing tack coat with 60/70 or 80/100 penetration grade		m2	0.0
15	3.2.34	Base Course	7mm thick(compacted) pre-mixed bitumenous seal coat to be prepared using 6.33mm down pea gravel or crush stone		m2	0.0
16	4.2.03.01.1		Reinforcement cement Concrete(RCC) works in		m3	0.0
17	4.2.06.01	-	Supply and fabrication of MS high strength deformed		kg	0.0
18	3.2.11.01	7	Single layer CC Block soling with CC Block((375mm x 100mm x 225mm)	=2.270*1000	m2	2,270.0
19	5.028	7	Providing polytene sheet (0.18mm thick) on floor		m ²	0.0
20	5.103.04		Flush pointing to CC Block laying for pavement	=2.470*1000	m ²	2,470.0
21	5.2		Supplying, fittings sign board (6'-0" x4'-0") fitted with strong bambo		No	1.0

Quantity Appendix 4.7

		Road safety measures (guard post	8 /					No.10
SL No.	Item Code	Item of Works		Calculation			Unit	Quantity
1	3.2.68	Supply and installation of guard post (10 guard post per surve section)	n = 2*10*2		=	40.00	no.	40.00
2	LGED Standard	Supply and installation of sign board	n = 2*8		=	16.00	no.	16.00

Road safety measures (guard post & sign board) for 2.0 km

Final Report

Ghat (Boat Landing Stepy)

							No.22
SL No.	Item Code	Item oWorksf	Calculation			Unit	Quantity
1		Excavation	$V1 = (1/2^{*}(1.1+2.5)^{*}1.4)^{*}(1.5+0.5+0.5+0.35^{*}2)$	=	8.06	m ³	
			V = 8.06*4	=	32.24	m ³	32.24
2		Reinforreteced concrete	V1 = (1.0*4+1.677*3)*1.5*0.3	=	4.06	m ³	
			V2 = (1/2*0.250*0.125)*1.5*(6*3)	=	0.42	m ³	
			V3 = ((0.75*0.15)+(0.50*0.15)+(0.25*1.10))*1.50*4	=	2.78	m ³	
			V = 4.06 + 0.42 + 2.78	=	7.26	m ³	7.26
3		Reinforced bar	W = 7.26*0.1	=	0.73	t	0.73
4		Form	A1 = (1.0*4+1.677*3)*0.3*2	=	5.42	m^2	
			A2 = (1/2*0.250*0.125)*(6*3)*2	=	0.56	m^2	
			A3 = $(((0.75*0.15)+(0.50*0.15)+(0.25*1.10))*2+1.4*1.5*2)*4$	=	20.50	m ²	
			A = 5.42 + 0.56 + 20.50	=	26.48	m^2	26.48
5		Earth Filling			200.00	m ³	

Final Report

Quantity Appendix 4.7

anki	No.	District	Upazila	Road Code	Road Name	Road	Crest Width	ι (m)	Land Acquisiti	on		Haor Project(2
						Class	Existing	Plan	Ares (m2/m)	Length	Area	
										(km)	(m2)	
							1	2	(3m2-1)	3	6=3×6	
1	4-103	Habiganj	Baniachang	636113013	Subidpur Up office-Aowar Mohal Bazar Via Kabirpur, Niamat pur	UNR	2.30	5.050	2.750	7.40	20,350	R13
2	4-7	Habiganj	Sadar	636444065	Bohula 2no word Pirbarí - Paschim Haor Road	VRB	2.00	3.670	1.670	3.00	5,010	R13
3	1-44	Kishoreganj	Karimganj	348422008	Niamatpur-Gundhar GC Road via Fazilkhali Bazar	UZR	7.32	5,750	-1.570	12.90		N9
4	2-4	Netrokona	Purbadhala	372833012	Ghagra UP (Kapashia)-Jaria Bazar road via Katwari	UNR	3.20	5.050	1.850	6.00	11,100	
5	3-123	Sunamganj	SUNAMG	690892009	R&H (Rabarbari)-Baishber-Joynagar GC Road (Laxmansree/Mohanpur)	UZR	3.00	5.750	2.750	8.30	22,825	N12
6	4-100	Habiganj	Baniachang	636112007	Kadir Goni Gc-Paharpur Gc Via Karcha	UZR	3.00	5.750	2.750	5.00	13,750	R8
7	4-105	Habiganj	Baniachang	636113017	Bithangal Gc-Hobigonj - Sujathpur Road Via Monduri Up office, Bijoypur,	UNR	2.11	5.050	2.940	3.00	8,820	R10
8	4-55	Habiganj	Azmiriganj	636024002	Pirojpur Lanchghat-Jalsuka bazar Rd.	VRA	3.00	3.670	0.670	2.00	1,340	R8
9	2-19	Netrokona	Khailajuri	372384012	Havatpur-Chanpur via Khusalpur	VRA	3.00	3.670	0.670	5.00	3,350	R15
10	3-158	Sunamganj	khin Sunamg	690932011	Santiganj bazar (UZ HQ.)-Rajaniganj bazar(Patharia GC) via Dungria Road.	UZR	5.50	5,750	0.250	15.13	3,783	N12
11	1-21	Kishoreganj	Austagram	348022002	Austagram-Mitamoin Road	UZR	5.50	5.750	0.250	10.20	2,550	N6
12	1-3	Kishoreganj	Pakundia	348793006	Hossendi UP-Ashutia old bazer Rd via Mongalbaria and Thutarja	UNR	3.66	5.050	1.390	11.94	16,597	· R5
13	1-4	Kishoreganj	Pakundia	348793007	Pakundia UP-Mosua hat via Saluadi	UNR	2.90	5.050	2.150	9.97	21,436	R5
14	1-9	Kishoreganj	Itna	348332004	Itna-Kakailchew Road	UZR	4.48	5.750	1.270	13.37	16,980	N9
15	1-15	Kishoreganj	Sadar	348494052	Baratopa-Thadapara Bazer Road	VRA	3.00	3.670	0.670	4.66	3,122	
16	1-18	Kishoreganj	Nikli	348764005	Jariatala UP office-Chetra Road	VRA	2.44	3.670	1.230	2.00	2,460	N1
17	1-29	Kishoreganj	Hossainpur	348274038	Gangahatia bazar-Janata bazarvia Abdul Aziz H/S road	VRA	3.00	3.670	0.670	4.87	3,263	R4
18	1-35	Kishoreganj	Mithamoin	348593001	Mithamoin Noya hati-Dhaki UP Office Rd.	UNR	3.60	5.050	1.450	9.59	13,906	N2
19	1-26	Kishoreganj	Hossainpur	348273007	Char Pumdi bazar-Pumdi UP H/Q Road	UNR	4.00	5.050	1.050	4.45	4,673	R4
20	4-54	Habigan	Azmiriganj	636025034	Anandopur Ghat - Anadopur Village	VRB	2.50	3.670	1.170	1.80	2,106	R9
21	1-22	Kishoreganj	Austagram	348023004	Austagram-Badha ghat-Kalma UP office road	UNR	3.66	5.050	1.390	9.53	13,247	N6
22	1-28	Kishoreganj	Hossainpur	348273010	Gobindapur UP H/Q-Janata bazar Road	UNR	4.80	5.050	0.250	4.00	1,000	R4
23	1-48	Kishoreganj	Kuliarchar	348543006	Dumrakanda Bazar-Ramdi UP Office Rd.	UNR	4.88	5.050	0.170	5.38	. 915	R9
24	3-126	Sunamganj	SUNAMG	690893001	R&H road Janigaon-Joynagar Bazar Road (Laxmansree/Mohanpur)	UNR	2.50	5.050	2.550	7.70	19,635	N12
25	4-47	Habiganj	Azmiriganj	636022003	Azmirigoni - Paharpur road.	UZR	7.32	5,750	-1.570	14.06		R8
26	1-23	Kishoreganj	Austagram	348023005	Austagram-Mohishertilla-Gagra UP office Rd	UNR	2.66	5.050	2.390	11.37	27,174	N6
27	4-49	Habiganj	Azmiriganj	636022005	Paharpur - Baniachong Via Jhilsuík.	UZR	2.50	5,750	3.250	7.02	22,815	R13
28	1-5	Kishoreganj	Bajitpur	348063001	Ujanchar bazar-Halimpur UP Rd	UNR	2.75	5.050	2.300	7,06	16,238	N8
29	1-8	Kishoreganj	Itna	348335041	Mowra-Chandrapur hat Rd.	VRB	3.66	3.670	0.010	3.00	30	N7
30	1-34	Kishoreganj	Mithamoin	348592002	Mithamoin Sadar-Karimganj Boardar Balikhola Road	UZR	5.00	5,750	0.750	10.00	7,500	N2
31	1-36	Kishoreganj	Mithamoin	348594001	Singua Ferry ghat-Bagadia Bazar Rd.	VRA	3.30	3.670	0.370	3.00	1,110	N2
32	1-37	Kishoreganj	Tarail	348923004	Thana H.Q-Dhamiha Bazer	UNR	3.00	5.050	2.050	3.54	7,257	N7
33	3-89	Sunamganj	Derai	690292004	Derai Bazar-Dhol-Marculi Road	UZR	3.70	5,750	2.050	1.84	3,772	R8
34	4-8	Habiganj	Bahubal	636053004	Satkapan UP Office (Chalitatala)-Bakterpur via Shoaia bazar Rd	UNR	4.00	5.050	1.050	4.50	4,725	R13
35	4-109	Habiganj	Baniachang		Pukra Up office -Kandipura village Riad Via Darowa, Sathgran High School	VRA	2.50	3.670	1.170	3.13	3,662	R13

Appendix 4.8 Land Acquisition

Nippon Koei Co., Ltd.

anki	No.	Dístrict	Upazila	Road Code	Road Name	Road	Crest Width	(m)	Land Acquisiti	m		Haor Project
						Class	Existing	Plan	Ares (m2/m)	Length	Area	ĺ
										(km)	(m2)	1
							0	2	3=2-1	5	G=3×5	
1	4-103	Habiganj	Baniachang	636113013	Subidpur Up office-Aowar Mohal Bazar Via Kabirpur, Niamat pur	UNR	2.30	5.050	2.750	7.40	20,350	R13
2	4-7	Habigan	Sadar	636444065	Bohula 2no word Pirbari - Paschim Haor Road	VRB	2.00	3.670	1.670	3.00	5,010	R13
3	1-44	Kishoreganj	Karimganj	348422008	Niamatpur-Gundhar GC Road via Fazi[khali Bazar	UZR	7.32	5,750	-1.570	12.90		N9
4	2-4	Netrokona	Purbadhala	372833012	Ghagra UP (Kapashia)-Jaria Bazar road via Katwari	UNR	3.20	5.050	1.850	6.00	11,100	RJ
36	1-10	Kishoreganj	Itna	348333007	Badla UP-Barshikura Hat Road	UNR	3.60	5.050	1.450	3.00	4,350	N7
37	1-39	Kishoreganj	Tarail	348923010	Jawer UP-Dhamiha UP via Echapashar	UNR	3.10	5.050	1.950	3.31	6,455	N6
38	1-47	Kishoreganj	Kuliarchar	348543002	Chhaysuti UP Office[R&H]-Paltia Bazar via Madhobdi, Pailanpur R	UNR	4.88	5.050	0.170	4.97	845	R7
39	2-3	Netrokona	Purbadhala	372833002	Purbadhala (Kalduar)-Ghagra UP (Kapashia) road via Ghagra bazar	UNR	4.67	5.050	0.380	3.36	1,277	R1
40	3-70	Sunamganj	Jamalganj	690502004	Sachna Bazar - Beheli GC - Taherpur	UZR	5.50	5,750	0.250	0.15	38	N12
41	4-53	Habiganj	Azmiriganj	636025035	Solori - Shibpasha.	VRB	2.50	3.670	1.170	8.50	9,945	
42	4-106	Habiganj	Baniachang	636114013	Habigoni-Baniyachong RHD to Sunaru vill	VRA	2.00	3.670	1.670	1.00	1,670	R13
43	4-107	Habiganj	Baniachang	636114019	Shibgonj Bazar to halderpur Chilori road	VRA	1.50	3.670	2.170	3.00	6,510	N13
44	4-58	Habiganj	Azmiriganj	636025026	Kamulpur Ghat - Kamulpur Pry School.	VRB	2.25	3.670	1.420	2.75	3,905	R9
45	3-47	Sunamganj	Dharmapasha	690322007	Joysree-Moddhanogar Via Ramdiga Road.	UZR	3.70	5.750	2.050	17.46	35,793	N4
46	1-2	Kishoreganj	Pakundia	348793005	Hossendi UP-Motkhola GC Via Alamdi	UNR	4.60	5.050	0.450	8.30	3,735	R5
47	1-19	Kishoreganj	Nikli	348765009	Guroi UP office-Chapirchar Rd	VRB	3.65	3.670	0.020	0.64	13	N8
48	1-25	Kishoreganj	Hossainpur	348273005	Gobindapur Chowrasta bazar-Gobindapur UP H/Q Road	UNR	3.90	5.050	1.150	2.08	2,392	R4
49	1-27	Kishoreganj	Hossainpur	348273009	Adu Master bazar-Shahedal UP H/Q Road	UNR	4.50	5.050	0.550	3.00	1,650	R4
50	1-32	Kishoreganj	Katiadi	348453007	Achmita UP H/QPong Masua bazar Rd.	UNR	3.65	5.050	1.400	2.10	2,940	R6
51	2-6	Netrokona	Purbadhala	372834065	Kalihor R&H-Dampara via Chander Bazar	VRA	3.00	3.670	0.670	3.00	2,010	RI
52	2-7	Netrokona	Purbadhala	372835039	Shahala-Hatkhala Bazar	VRB	2.75	3.670	0.920	3.20	2,944	R1
53	2-20	Netrokona	Barhatta	372092007	Amtala-Samaj GC Road (Barhatta Portion)	UZR	4.40	5,750	1.350	6.24	8,424	N5
54	3-132	Sunamganj	SUNAMG	690894005	Tokerghat-Bahadurpur Rd. (Laxmansree)	VRA	2.00	3.670	1.670	3.60	6,012	N12
55	4-10	Habiganj	Bahubal	636054079	Guharua Pry. School - Panchparia Road Via Sluice gate Durga pur .	VRA	3.75	3.670	-0.080	5.00		R13
56	4-48	Habiganj	Azmiriganj	636023001	Pashchimbag - Azmirigonj Road	UNR	2.50	5.050	2.550	8.45	21,548	R8
57	4-59	Habiganj	Azmiriganj	636025012	G C C Road - Ronia Road.	VRB	3.00	3.670	0.670	2.10	1,407	R8
58	4-57	Habiganj	Azmiriganj	. 636025008	Pituarkandi Ghat - Shalla Highschool.	VRB	3.50	3.670	0.170	3.65	621	R8
59	4-52	Habiganj	Azmiriganj	636025027	Kakilsow Bazar - Rahala Rd.	VRB	2.80	3.670	0.870	2.25	1,958	R9
60	1-11	Kishoreganj	Sadar	348493009	Danapatuli UP-Jalia bazar	UNR	4.88	5.050	0.170	2.61	444	N1
61	2-11	Netrokona	Atpara	372045037	Sukari Badirakola	VRB	2.00	3.670	1.670	2.00	3,340	N11
62	3-102	Sunamganj	Derai	690294018	Nagergaon Ferryghat-Nasnibazar	VRA	2.50	3.670	1.170	2.00	2,340	R8
63	3-103	Sunamganj	Derai	690294019	Akilha Bazar-Nagergaon via Kulanje	VRA	3.00	3.670	0.670	2.00	1,340	R8
64	3-104	Sunamganj	Derai	690294020	Akilha Bazar-Nasni Bazar	VRA	2.50	3.670	1.170	1.25	1,463	R8
65	4-4	Habiganj	Sadar	636444035	Poil-Pachparia Rd.	VRA	3.50	3.670	0.170	4.20	714	R13
66	4-15	Habiganj	Bahubal	626055058	Shuaiyabazar-Ruyail	VRB	3.00	3.670	0.670	6.00	4.020	R13

lanki	No.	District	Upazila	Road Code	Road Name	· Road	Crest Width	(m)	Land Acquisiti	on	1	Haor Project(
						Class	Existing	Plan	Ares (m2/m)	Length	Area	
										(km)	(m2)	
							D.	2	3=2-1	5	6=3×5	
l	4-103	Habiganj	Baniachang	636113013	Subidpur Up office-Aowar Mohal Bazar Via Kabirpur, Niamat pur	UNR	2.30	5.050	2.750		20,350	·
2	4-7	Habiganj	Sadar	636444065	Bohula 2no word Pirbari - Paschim Haor Road	VRB	2.00	3.670	1.670	3.00	5,010	R13
3	1-44	Kishoreganj	Karimganj	348422008	Niamatpur-Gundhar GC Road via Fazilkhali Bazar	UZR	7.32	5,750	-1.570	12.90		N9
4	2-4	Netrokona	Purbadhala	372833012	Ghagra UP (Kapashia)-Jaria Bazar road via Katwari	UNR	3.20	5.050	1.850	6.00	11,100	
67	4-56	Habiganj	Azmiriganj	636025006	Bong rd - Paddy land Rd	VRB	3.00	3.670	0.670		3,417	
68	2-28	Netrokona	Barhatta	372094015	Rambhadrapur FRB-Naihati Bazar Rd	VRA	2.92	3.670	0.750	4.39	- 3,293	
69	3-166	Sunamganj	chin Sunamg	690934021	Ganiganj RHD-Jibdara Road.	VRA	3.70	3.670				N12
70	4-12	Habiganj	Bahubal	636054010	Khagaura Bagdair Road	VRA	3.00	3.670		5.80	3,886	
71	4-51	Habiganj	Azmiriganj	636025023	Kakilsow GCCR - Rosulpur.	VRB	· 3.00	3.670			1,407	
72	3-50	Sunamganj	Dharmapasha	690323005	Modhayanagar bazar-Golha Rd.	UNR	3.00	5.050	-	8.00	16,400	
73	2-5	Netrokona	Purbadhala	372835052	Jaria Purbopara-Jaria Switch Gate via RPSchool Rd.	VRB	2.50	3.670	1.170		3,510	· · · · · · · · · · · · · · · · · · ·
74	2-9	Netrokona	Atpara	372045034	Ukrakhal Road	VRB	2.00	3.670	1.670	1.75	2,923	
75	2-10	Netrokona	Atpara	372045036	Duaz bazar road	VRB	2.50	3.670			1,755	
76	2-16	Netrokona	Khailajuri	372383009	Upazila HQ - Gazipur UP office rd.	UNR	5:00	5.050		3.23	161	
78	3-79	Sunamganj	Jamalganj	690505037	Sukdebpur - Radanagar Road	VRB	3.70	3.670				N12
79	3-99	Sunamganj	Derai	690294012	Tarapasa-Tongor	VRA	3.00	3.670		2.00	1,340	
80	3-101	Sunamganj	Derai	690294017	Boalia Bazar-Bhaitgaon	VRA	2.50	3.670			2,340	
81	3-131	Sunamganj	SUNAMG	690894022	RHD(Haluargoan)-Islampur.(Laxmansree)	VRA	2.00	3.670			3,674	
82	3-135	Sunamganj	SUNAMG	690894073	Bahaderpur RHD to Nurulla Village Road.(Laxmansree/Mohanpur)	VRA	2.00	3.670			6,680	
83	3-142	Sunamganj	SUNAMG	690895111	Katair joynagor GC road (Noagaon)-Kandigoan village road (Katair)	VRB	2.00	3.670			5,010	
84	3-152	Sunamganj	SUNAMG	690895038	Katair-Joynagar Road to Narkila GPS.(Mohanpur)	VRB	1.50	3.670			4,340	
85	3-174	Sunamganj	khin Sunamg	690934048	Ashammura Pry. School-Puran -Kandigoan Road.	VRA	3.70	3.670	-0.030	3.81		N12
				T I	TOTAL						506,733	· ·

Final Report

HAT		[Finalized List	t]						29 Haor
No.	List No.	District	Upazila	Union name	Hat name		Туре	Land Acquiition (m2)	Haor project No.
3	1-9	Kishoreganj	Sadar	Danapatuli	Kaliar Kanda Bazar	RM	New	2,464	N1
7	1-27	Kishoreganj		Saharam Dhuldia	Dhuldia Hat	GC	Rehabilitation		N1
9	1-41	Kishoreganj	"	Joyka	Shadakhali	RM	New	2,464	N1
N1								4,928	
8	1-32	Kishoreganj	"	Gopdighi	Bogadia	RM	New	2,464	N2
N2								2,464	
N3								0	
19	3-16	Sunamganj	Dharmapasha	Selborash	Badshagonj	RM	New	2,464	N4
N4								2,464	
N5								0	
N6								0	
N7								0	
N8								0	
2	1-4	Kishoreganj	Itna	Joysiddhi	Mudirgaon	RM	New	2,464	N9
N9								2,464	
N10								0	
N11	- 1-				-			0	
20	3-45	Sunamganj	Sunamganji Sadar	Mohanpur	Joynagar	GC	Rehabilitation		N12
N12								0	
N13								0	
N14	2.5	N (1		TT 1	D (D	DM		0	Di
11	2-5	Netrokona		Hogla	Patra Bazar	RM	New	2,464	R1
12	2-6	Netrokona	"	Ghagra	Ghagra Bazar	RM	New	2,464	R1
R1								4,928	
R2								0	
R3	1-20	Kishoreganj		Dound	Pumdi bazar	DM	New	2,464	D 4
5	1-20	Kishoreganj		Pumdi "	Adu master bazar	RM RM		2,464	R4 R4
6	1-21	Kishoreganj			Nimeukhali bazar	RM	New New	2,464	R4 R4
R4	1-22	Risholeganj			I VIII EU KII ali U azai	Kivi	INCW	7,392	K+
1	1-1	Kishoreganj	Pakundia	Agarosindur	Bahahadia	RM	New	2,464	R5
R5		Hisholegunj	Fakuliula	Agaiosiidui	Dallallaula	Kivi	INCW	2,404	K.J
R6								2,404	
R7								0	
24	4-10	Habiganj	AZMIRIGANJ	Badolpur	Paharpur	GC	Rehabilitation	Ū	R8
R8		g					Rendolitation	0	
25	4-11	Habiganj	AZMIRIGANJ	Kakailsew	Nischintopur	RM	New	2,464	R9
23	4-20	Habiganj	Baniachong	Muradpur	Muradpur Bazar	RM	New	2,464	R9
20 R9	. 20	Theorganj	Sumeriong				1.011	4,928	10
27	4-19	Habiganj	Baniachong	Sujatpur	Sujatpur Bazar	GC	Rehabilitation	-1,20	R10
R10	717	rinoiganj	Danachong	Sujarpai	Sajarpar Dazar	J.	Renaulilation	0	110
R10								0	
R11 R12								0	
21	4-3	Habiganj	HABIGANJ-S	Poil	Poil Natun Bazar	RM	Rehabilitation	0	R13
21	4-5	Habiganj	Bahubal	Putijuri up	Digoambar	RM	New	2,464	R13
	4-7	Habiganj	Bahubal	Satkapon up	Shoaia Bazer	RM		2,464	R13
23	4-7	Habiganj	Baniachong	Pukra	Aowar Mohal Bazar	RM	New		R13
26 R13	4-1/	Taoiganj	Damachong	I UNIA	Adwar Mollar Bazar	IXIVI	New	2,464 7,392	K13
R13								0	
	2-13	Netrokona		MENDIPUR	Satgoan Bazar	RM	Nau		R15
16 R15	2-15	Henokolia			Surgoan Dazar	NIVI	New	2,464 2,464	R15
	OTAL							41,888	
								41,000	

GHAT	Г	[Finalized List]				29 Haor
No.	List No.	District	Upazila	Ghat name	Land Acquisition (m2)	Haor project No.
3	1-9	Kishoreganj	Sadar	Kaliarkanda Bazar Ghat	12	N1
9	1-32	Kishoreganj	Sadar	Panahar bazar Ghat	12	N1
10	1-33	Kishoreganj	Sadar	shudi bazar Ghat	12	N1
N1					36	
7	1-27	Kishoreganj	Sadar	Olua	12	N2
N2					12	
N3					0	
N4					0	
N5					0	
N6					0	
1	1-3	Kishoreganj	Itna	Bashikura bazar	12	N7
N7					12	
N8					0	
N9					0	
N10					0	
N11					0	
19	3-46	Sunamganj	SUNAMGANJ-SADAR	Joy nagar Ghat	12	N12
20	3-55	Sunamganj	Dakhin Sunamganj	Pathariabazar GC	12	N12
21	3-56	Sunamganj	Dakhin Sunamganj	Birgaonbazar	12	N12
N12					36	
N13					0	
N14					0	
12	2-4	Netrokona	Purbadhala	Patra Ghat	12	R1
13	2-5	Netrokona	Purbadhala	Ghagra Ghat	12	R1
14	2-6	Netrokona	Purbadhala	Moheshpotti Ghat	12	R1
R1					36	
R2					0	
R3					0	
4	1-18	Kishoreganj	Sadar	Char Pumdi bazar Ghat	12	R4
5	1-19	Kishoreganj	Sadar	Rampur bazar Ghat	12	R4
R4					24	
R5					0	
R6					0	
8	1-30	Kishoreganj	Sadar	Kacharighat	12	R7
R7					12	
18	3-37	Sunamganj	Derai	Boalia	12	R8
R8					12	
2	1-4	Kishoreganj	Itna	Joy siddhi baz ar	12	R9
6	1-24	Kishoreganj	Sadar	Char Katkhal	12	R9
R9					24	
24	4-11	Habiganj	Baniachonj	Sujath pur Bazar	12	R10
R10					12	
R11					0	
R12					0	
22	4-2	Habiganj	HABIGANJ-S	Purbo Poil Bazar Ghat	12	R13
23	4-3	Habiganj	HABIGANJ-S	Poil Natun Bazar Ghat	12	R13
R13					24	
17	3-9	Sunamganj	Sulla	Rahutola Bazar Ghat	12	R14
R14					12	
R15					0	
TC	DTAL				252	

			}			Resettlement			Existing	5	1								
anki	No.	District	Upazila	Road Code	· Road Name	number	Beneficiary	Crest Width		Sureface Ty	rpe (km)		Length (km)		_	Road	Bridg (m)	Culvert	Haor Project(2
ng							Beneficiary	(m)	Earthen	Flexible	Bric	Rigid	Submergible	on-submergi	Total	Class		(m)	No.
1	4-103	Habiganj	Baniachang	636113013	Subidpur Up office-Aowar Mohal Bazar Via Kabirpur, Niamat pur	0	350,000	2.30	8.20	0.00	0.00	0.00	0.00	7.40	7.40	277.1	30	20	
2	4-7	Habiganj	Sadar	636444065	Bohula 2no word Pirbari - Paschim Haor Road	0	120,000	2,00	3.00	0.00	0.00	0.00	0.00	3.00	3,00	VRB	0	10	
3	1-44	Kishoreganj	Karimganj	348422008	Niamatpur-Gundhar GC Road via Fazilkhali Bazar	2	50,000	· 7.32	10,60	2,30	0.00	0,00	0.00	12.90	12.90	UZR	0	0	N9
4	2-4	Netrokona	Purbadhala	372833012	Ghagra UP (Kapashia)-Jaria Bazar road via Katwari	5	50,000	3.20	6.00	0.00	0.00	0.00	0.00	6,00	6.00	T'NK.	0	0) R1
5	3-123	Sunangani	SUNAMGANJ	690892009	R&H (Rabarbari)-Baishber-Joynagar GC Road.(Laxmansree/Mohanpur)	0	50,000	3.00	6.20	0.00	0.00	2.10	8.30	0.00	8,30	UZR	0	23	N12
6	4-100	Habigani	Baniachang	636112007	Kadir Gonj Ge-Paharpur Ge Via Karcha	0	50,000	3.00	6,50	0.00	0.00	0.00	0.00	5.00	5.00	UZR	50	20	R8
7	4-105	Habiganj	Baniachang	636113017	Bithangal Ge-Hobigonj - Sujathpur Road Via Monduri Up office , Bijoypur,	0	50,000	2.11	11.00	0.00	0.00	0,00	1,50	1.50	3.00	108.0	100	30	R10
8	4-55	Habiganj	Azmirigani	636024002	Pirojpur Lanchghat-Jalsuka bazar Rd.	0.	46,200	3.00	2.40	0.00	0.00	0.00	2,00	0.00	2,00	VRA	0	10	R8
9	2-19	Netrokona	Khailajuri	372384012	Havatpur-Chanpur via Khusalpur	0	45,000	3,00	5.00	2.88	0.00	0.00	0.00	5.00	5.00	VRA	0	0	R15
10	3-158	Sunamganj	akhin Sunamgar	690932011	Santiganj bazar (UZ HQ.)-Rajaniganj bazar(Patharia GC) via Dungria Road.	0	45,000	5.50	8.57	3.71	2.50	0.35	15.13	0.00	15,13	UZR	185	45	N12
11	[-2]	Kishoreani	Austagram	348022002	Austagram-Mitamoin Road	τ.	40,200	5.50	9.84	0,00	0.00	0.36	10,20	0,00	10.20	UZR	0	0	N6
12	1-3	Kishoregani	Pakundia	348793006	Hossendi UP-Ashutia old bazer Rd via Mongalbaria and Thutarja	4	40,000	3,66	8,53	3.10	0,30	0,00	0.00	11.93	11.93	$\pm NR$	0	0	R5
13	[-4	Kishoregani	Pokundia	348793007	Pakundia UP-Mosua hat yia Saluadi	5	40,000	2,90	9.02	0.95	0,00	0.00	0.00	9,97	9,97	3 N 8	0	0	R5
14	1-9	Kishoreganj	lina	348332004	Itna-Kakailchew Road	1	40.000	4.48	9.07	0.00	0,00	4.30	13.37	0,00	13,37	UZR	0	0	N9
15	1-15	Kishoregani	Sadar	348494052	Baratopa-Thadapara Bazer Road	3	40,000	3,00	4.66	0.00	0.00	0.00	2.33	2.33	4,66	VRA	0	0	R4
16	1-18	Kishoregani	Nikli	348764005	Jariatala UP office-Chetra Road	2	40,000	2.44	2.00	0.00	0,00	0.00	0.00	2,00	2.00	VRA	0	0	N1
17	1-29	Kishoreganj	Hossainnur	348274038	Gancahalia bazar-Janata bazaryia Abdul Aziz H/S road	· 4	40,000	3.00	2,95	1,92	0.00	0.00	0,00	4.87	4.87	VRA	0	0	R4
18	1-35	Kishoreganj	Mithamoin	348593001	Mithamoin Nova hali-Dhaki UP Office Rd.	2	40.000	3.60	9.12	0.00	0,00	0.48	9,59	0,00	9.59	1.83	0	0	N2
19	1-26	Kishoreganj	Hossainpur	348273007	Char Pundi bazar-Pundi UP H/O Road	3	38,000	4,00	2.82	1.63	0,00	0.00	0,00	4.45	4.45	1.54	0	0	R4
20	4-54	Habigani	Azmirigani	636025034	Anandopur Ghat - Anadopur Village	0	36,000	2.50	1.80	0.00	0.00	1,00	1.80	0.00	1.80	VRB	55	10	R9
21	1-22	Kishoreganj	Austagram	348023004	Austagram-Badha ghat-Kalma UP office road	1	35,000	3.66	9,53	0,00	0,00	0.00	9,53	0.00	9.53	: SR	0	0	N6
22	1-28	Kishoreganj	Hossainpur	348273010	Gobindapur UP H/Q-Janata bazar Road	4	35,000	4.80	1.88	2,12	0,00	0,00	0,00	4.00	4.00	$1 \ge k$	0	0	R4
23	1-48	Kishoreganj	Kuliarchar	348543006	Dumrakanda Bazar-Ramdi UP Office Rd.	5	35,000	4.88	4.38	1.00	0,00	0.00	0,00	5,38	5,38	1.5.1.	0	0	R9
24	2 1 26	Sunameani	SUNAMGANJ	690893001	R&H road Janigaon-Joynagar Bazar Road (Laxmansree/Mohanpur)	0	35,000	2.50	4.12	1.00	0.58	2.00	3 85	3,85	7.70	1.542	0	10	N12
25	4-47	Habigani	Azmirigani	636022003	Azmirigoni - Paharpur road.	. 0	35,000	7.32	16.06	0.00	0.00	0.00	0,00	14.06	14.06	UZR	0	0) R8
20	1-23	Kishoreganj	Austagram	348023005	Austagram-Mohishertilla-Gagra UP office Rd	2	34,000	2.66	7,80	0.00	0.00	3.57	11,37	0.00	11.37	12.6	0	0	N6
20	4-49	Habiganj	Azmiriganj	636022005	Paharpur - Baniachong Via Jhilsuik.	0	31,200	2.50	9.02	0.00	0.00	0.00	7.02	0.00	7,02	UZR	0	63	R13
28	1-5	Kishoreganj	Bajiqur	348063001	Ujanchar bazar-Malimpur UP Rd	4	30.000	2,75	2,86	4,20	0.00	0.00	0,00	7.06	7.06	まんに	0	0	N8
20 29	1-8	Kishoreganj	Itna	348335041	Mowra-Chandrapur hat Rd.	1	30,000	3,66	1,95	0.00	0.00	1.05	3,00	0.00	3.00	VRB	0	0	N7
30	1-0	Kishoreganj	Mithamoin	348592002	Mithamoin Sadar-Karinganj Boardar Balikhola Road	2	30.000	5.00	6.51	0.00	1.22	2.27	10,00	0.00	10,00	UZR	0	0	N2
30 31	1-36	Kishoreganj	Mithamoin	348594001	Singua Ferry ghai-Bagadia Bazar Rd.	3	30.000	3.30	3,00	0,00	0.00	0,00	3,00	0.00	3.00	VRA	D	0	N2
31	1-30	Kishoreganj	Tarail	348923004	Thana H.Q-Dhamiha Bazer	4	30 000	3.00	3.54	0,00	0.00	0.00	0,00	3.54	3.54	A NR	0	0	N7
33	3-89	Sunamganj	Derai	690292004	Derai Bazar-Dhol-Marculi Road	0	30,000	3,70	1.84	0,00	0.00	19.41	0.92	0.92	1.84	UZR	0	10	R8
33 34	4-8	Habiganj	Bahubal	636053004	Satkapan UP Office (Chalitatala)-Bakterpur via Shoaia bazar Rd	0	30,000	4.00	4.50	8.17	0.00	0.00	0.00	4.5D	4.50	UNR	0	0	R13
35	4-109	Habiganj	Banjachang	636114049	Pukra Up office - Kandipura village Riad Via Darowa, Sathgran High School	0	30.000	2.50	3.13	0.00	0.00	0.00	0.00	3,13	3,13	VRA	0	10	R13
35 36	1-10	Kishoreganj	Itna	348333007	Badla UP-Barshikura Hat Road	2	25,000	3,60	3.00	0,00	0.00	0.00	3,00	0.00	3.00	12NB	0	0	N7
30 37	1-10	Kishoreganj	Tarail	348923010	Jawer UP-Dhamiha UP via Echapashar	- 5	25.000	3.10	3,31	0.00	0,00	0,00	3.31	0,00	3,31	(1944).	0	0	N6
37 38	1-37	Kishoregani	Kuliarchar	348543002	Chhaysuti UP Office[R&H]-Paltia Bazar via Madhobdi. Pailanpur R	6	25,000	4.88	2,47	1.99	0.51	0,00	0.00	4.97	4.97	1.52	0	0	R7
38 39	2-3	Netrokona	Purbadhala	343343002	Purbadhala (Kalduar)-Ghagra UP (Kapashia) road via Ghagra bazar	8	25,000	4,67	3.36	11.64	0.00	0.00	0,00	3.36	3.36	1.58	0	0	RI
39 40	3-70	Sunamgari	Jamalganj	690502004	Sachna Bazar - Beheli GC - Taherpur	0	25,000	5.50	0.50	0.00	0,00	8,00	0.15	0.00	0,15	UZR	20	0	N12
40 41	4-53	Habiganj	Azmirigani	636025035	Solori - Shibpasha.	0	25,000	2.50	8.50	0.00	0.00	0.00	8,50	0.00	8.50	VRB	0	12.7	R8
41	4-33	.0.0		636114013	Habigoni-Baniyachong RHD to Sunaru vill	0	25,000	2,00	2.00	0.00	0.00	0.00	0.00	1.00	1.00	VRA	30	15	R13
42 43	4-100	Habiganj	Baniachang	636[14013	Shibgoni Bazar to halderpur Chilori road	0	25,000	1.50	3.90	0.00	0.00	0.00	0,00	3.00	3.00	VRA	0	10	NI3
	4-10/	Habiganj	Baniachang			0	25,000	2.25	2.75	0.00	0.00	0.00	2.75	0.00	2,75	VRB	0	10	R9
44	4-58	Habiganj	Azmiriganj	636025026	Kamulpur Ghat - Kamulpur Pry School.	0	20,400	3.70	16.96	0.00	0.00	1.55	8.73	8.73	17.46	UZR	0	100	N4
45	3-47	Sunamganj	Dharmapasha	690322007	Joysree-Moddhanogar Via Ramdiga Road.	U U	20,400	3.70	10.90	0.00	0,00	0.00	0.75	8,30	8.30		0		

Appendix 4.9 Resettlement

Final Report

Rural Road Resettlement (1/2)

Rui	al R	oad Reset	tlemet		[Finalized List of Subproject]											Plan			29
						Resettlement			Existin	2									
Ranki	No.	District	Upazila	Road Code	Road Name	number	Beneficiary	Crest Width		Surelace T	ype (km)			Length (km)		Road	Bridg (m)	Culvert	Haor Project(29)
ng			-				Beneficiary	(m)	Earthen	Flexible	Bric	Rigid	Submergible	on-submergi	Total	Class	Dridg (iii)	(m)	No.
47	1-19	Kishoregani	Nikli	348765009	Guroi UP office-Chapirchar Rd	4	20,000	3.65	0,64	0.00	0,00	0,00	0.00	0,64	0,64	VRB	0	0	N8
48	1-25	Kishoreganj	Hossainpur	348273005	Gobindapur Chowrasta bazar-Gobindapur UP H/Q Road	3	20,000	3.90	0,75	1,33	0.00	0,00	0.00	2.08	2,08	1.5.5	0	0	R+
49	1-27	Kishoreganj	Hossainpur	348273009	Adu Master bazar-Shahedal UP H/Q Road	5	20,000	4.50	1.00	2.00	0.00	0,00	0,00	3.00	3,00	1.5.5	0	0	R+
50	1-32	Kishoreganj	Katiadi	348453007	Achmita UP H/QPong Masua bazar Rd.	6	20,000	3,65	1.00	1.10	0,00	0.00	0.00	2,10	2.10	1.2.15	0	Û	R6
51	2-6	Netrokona	Purbadhala	372834065	Kalihor R&H-Dampara via Chander Bazar	5	20,000	3.00	3,00	0.00	0.00	0.00	0.00	3.00	3.00	VRA	60	J 0	RI
52	2-7	Netrokona	Purbadhala	372835039	Shahala-Hatkhala Bazar	6	20,000	2.75	3.20	0,00	0.00	0.00	0,00	3.20	3.20	VRB	0) 0	RI
53	2-20	Netrókona	Barhatta	372092007	Amtala-Samaj GC Road (Barhatta Portion)	0	20,000	4.40	6.24	4,70	. 0,00	0.00	6.24	0.00	6.24	UZR	C) 0	N5
54	3-132	Sunamganj	SUNAMGANJ	690894005	Tokerghat-Bahadurpur Rd.(Laxmansree)	. 0	20,000	2.00	2.60	1.00	D.00	0.00	3.60	0.00	3.60	VRA	C	0 10	
55	4-10	Habiganj	Bahubal	636054079	Guharua Pry. School - Panchparia. Road Via Sluice gate Durga pur .	0	20,000	3,75	5.00	0.00	0,00	0,00	0.00	5,00	5.00	VRA	0) 20	
56	4-48	Habigani	Azmiriganj	636023001	Pashchimbag - Azmirigoni Road.	0.	19,200	2.50	7.25	1.20	0,00	0.00	4.23	4.22	8.45	-1 MC	C) 50	R8
57	4-59	Habiganj	Azmiriganj	636025012	G C C Road - Ronia Road.	0	18,500	3.00	2.10	0,00	0.00	0.00	2.10	0.00	2,10	VRB	C	10	
58	4-57	Habiganj	Azmiriganj	636025008	Pituarkandi Ghat - Shalla Highschool.	0	17,600	3.50	3.65	0.00	0,00	0.00	3.65	0.00	3.65	VRB	0	0 10	
59	4-52	Habiganj	Azmiriganj	636025027	Kakilsow Bazar - Rahala Rd.	0	16,500	2.80	2.25	0.00	0.00	0.00	2.25	0.00	2.25	VRB	. 0	10	
. 60	1-11	Kishoreganj	Sadar	348493009	Danapatuli UP-Jalia bazar	5	15,000	4,88	1.11	1.50	0,00	0.00	0.00	2.61	2.61	1.2.6	0	0	
61	2-11	Netrokona	Atpara	372045037	Sukari Badirakola	0	15,000	2.00	2.00	0.00	0.00	0,00	2,00	0.00	2,00	VRB	0) 0	
62	3-102	Sunamganj	Derai	690294018	Nagergaon Ferryghat-Nasnibazar	0	15,000	2.50	4.50	0.00	0,00	2.50	2.00	0.00	2.00	VRA	0	/ 0	R8
63	3-103	Sunamganj	Derai	690294019	Akilha Bazar-Nagergaon via Kulanje	0	15,000	3.00	2,31	0.00	0.00	5.10	2.00	0.00	2.00	VRA	0	-40	
64	3-104	Sunamganj	Derai	690294020	Akilha Bazar-Nasni Bazar	0	15,000	2.50	2.25	0.00	0,00	2.00	0,00	1,25	1.25	VRA	20	20	
65	4-4	Habiganj	Sadar	636444035	Poil-Pachparia Rd.	0	15,000	3.50	4.20	1.70	0.60	0.00	0.00	4.20	4.20	VRA	0	1 0	R13
66	4-15	Habiganj	Bahubal	636055058	Shuaiyabazar-Ruyail	0	15,000	3.00	6.00	0.00	0,00	0.00	6,00	0.00	6.00	VRB	10	0 100	
67	4-56	Habiganj	Azmiriganj	636025006	Bong rd - Paddy land Rd	0	13,400	3.00	5.10	0.00	0,00	0.00	5,10	0,00	5.10	VRB	0	0 10	
68	2-28	Netrokona	Barhatta	372094015	Rambhadrapur FRB-Naihati Bazar Rd	11	13,000	2.92	4.39	2.01	0.00	0.00	0.00	4.39	4,39	VRA	0	0 0	115
69	3-166	Sunamganj	akhin Sunamgai	690934021	Ganiganj RHD-Jibdara Road.	0	12,000	3,70	4.70	0.00	0.00	0.00	4.70	0.00	4.70	VRA	0	0 19	
70	4-12	Habiganj	Bahubal	636054010	Khagaura Bagdair Road	0	12,000	3,00	5.80	0,00	0.00	0.00	0,00	5.80	5.80	VRA	0) 10	
71	4-51	Habiganj	Azmiriganj	636025023	Kakilsow GCCR - Rosulpur.	0	11,250	3.00	2.10	0.00	0.00	0.00	2.10	0.00	2,10	VRB	0	0 10	
72	3-50	Sunamganj	Dharmapasha	690323005	Modhayanagar bazar-Golha Rd.	0	10,500	3.00	8,00		0.00	1.00	8.00	0.00	8.00	1.200	C) 42	
73	2-5	Netrokona	Purbadhala	372835052	Jaria Purbopara-Jaria Switch Gate via RPSchool Rd.	0	10,000	2.50	3,00	0.00	0.00	0.00	3.00	0,00	3.00	VRB	0	0 0	
74	2-9	Netrokona	Atpara	372045034	Ukrakhal Road	2	10,000	2.00	1.75	0.00	0.00	0.00	1.75	0.00	1.75	VRB	0	0 0	
75	2-[0	Netrokona	Atpara	372045036	Duaz bazar road	3	10,000	2.50	1.50	0.00	0.00	0.00	1,50		1.50	VRB	0	1 0	N11
.76	2-16	Netrokona	Khailajuri	372383009	Upazila HQ - Gazipur UP office rd.		10,000	5.00	6,60	1.90	0.00	0.00	4.25	4.25	8.50	0.000	450		
78	3-79	Sunanganj	Jamalganj	690505037	Sukdebpur - Radanagar Road	0	10,000	3.70	1,00	0.00	0.00	0.00	0.00	0.04	0.04	VRB	20	_	-
79	3-99	Sunamganj	Derai	690294012	Tarapasa-Tongor	0	10,000	3.00	2,25	0.00	0.00	1.00	2.00	0,00	2.00	VRA	6	20	
80	3-101	Sunamganj	Derai	690294017	Boalia Bazar-Bhaitgaon	0	10,000	2.50	3.35	0.00	0.00	1.90	0.00	2.00	2.00	VRA	C	<u> 0</u>	R8
81	3-131	Sunamganj	SUNAMGANJ	690894022	RHD(Haluargoan)-Islampur (Laxinansree)	0	10,000	2,00	2.20		0.00	0.00	2.20	0.00	2.20	VRA	<u> </u>	0 0	112
82	3-135	Sunamganj	SUNAMGANJ	690894073	Bahaderpur RHD to Nurulla Village Road.(Laxmansree/Mohanpur)	0	10,000	2.00	3.75		0.00	0.25	4.00	0.00	4.00	VRA	0	<u>+</u>	N12
83	3-142	Sunamganj	SUNAMGANJ	690895111	Katair jeynagor GC road (Noagaon)-Kandigoan village road (Katair)	0	10,000	2.00	3.00		0,00	0.00	3.00	0,00	3.00	VRB	0	<u> 0</u>	N12
84	3-152	Sunamganj	SUNAMGANJ	690895038	Katair-Joynagar Road to Narkila GPS (Mohanpur)	0	10,000	1.50	2.00	0.00	0.00	0.00	0,00	2.00	2,00	VRB		0 0	112
85	3-174	Sunamganj	aklun Sunamga	690934048	Ashammura Pry. School-Puran -Kandigoan Road	0	10,000	3,70	1.90	0.00	0.00	1.91	3.81	0.00	3.81	VRA	0) <u>10</u>	N12
					Total	139		_										<u> </u>	

Rural Road Resettlement (2/2)

Hat Resettlement

Hat Resettlement

29 Haor Resettlement Haor project List No. District Upazila Union name Hat name No. Туре No. number 1 1-1 Kishoreganj Pakundia Agarosindur Bahahadia 4 RM R5 Joysiddhi 1-4 Kishoreganj 5 2 Itna Mudirgaon RM N9 1-9 Kishoreganj Sadar Danapatuli 3 3 Kaliar Kanda Bazar RM N1 1-20 4 Kishoreganj Sadar Danapatuli Pumdi bazar 4 RM R4 1-21 Kishoreganj Sadar 3 RM R4 5 Danapatuli Adu master bazar 1-22 Kishoreganj Sadar Nimeukhali bazar 5 RM R4 6 Danapatuli 7 1-27 Kishoreganj Sadar Saharam Dhuldia Dhuldia Hat 4 N1 GC 8 1-32 Kishoreganj Sadar RM Gopdighi 6 N2 Bogadia 9 1-41 Sadar Shadakhali 5 N1 Kishoreganj Joyka RM 2-3 Netrokona Purbadhala Jaria Bazar 220 RM R2 10 Jaria R1 2-5 Purbadhala Hogla Patra Bazar RM 11 Netrokona 5 2-6 Netrokona Purbadhala Ghagra Ghagra Bazar RM R1 12 12 2-10 13 Netrokona Dharmapasha CHAKUA Lipsa Bazar 250 R14 2-11 KHAILAJURI khaliajuri Bazar 210 Netrokona Dharmapasha R14 14 RM 2-12 Netrokona Khaliajuri GAZIPUR Panchhat Bazar 21 R15 15 2-13 Netrokona Khaliajuri MENDIPUR Satgoan Bazar RM R15 16 11 17 2-14 Netrokona Barhatta SINGDHA Chandrapur GC 204 N5 18 2-17 Netrokona Barhatta Mozafarpur Dogda bazar 18 RM N6 Badshagonj 3-16 Dharmapasha Selborash RM N4 19 Sunamganj 0 3-45 Sunamganji Sadar Mohanpur Joynagar N12 20 Sunamganj 0 G 4-3 Habiganj HABIGANJ-S Poil Poil Natun Bazar RM R13 21 0 4-5 RM 22 Habiganj Bahubal Putijuri up Digoambar 0 R13 4-7 RM R13 Habiganj Bahubal Shoaia Bazer 23 Satkapon up 0 4-10 Habiganj AZMIRIGANJ Paharpur G R8 24 Badolpur 0 4-11 Habiganj AZMIRIGANJ Kakailsew Nischintopur RM R9 25 0 4-17 Aowar Mohal Bazar R13 Habiganj Baniachong Pukra RM 26 0 4-19 R10 27 Habiganj Baniachong Sujatpur Sujatpur Bazar 0 GC 4-20 Habiganj Baniachong Muradpur Muradpur Bazar RM R9 28 0



	Number	
Initial List of Candidate Subproject	990	
Finalized List of Subproject	67	(exclusion: more than 15)

Ghat Resettlement

Ghat	Resettlement					29 Haor
No.	List No.	District	Upazila	Ghat name	Resettlement number	Haor project No.
1	1-3	Kishoreganj	Itna	Bashikura bazar	3	N7
2	1-4	Kishoreganj	Itna	Joy siddhi bazar	4	R9
3	1-9	Kishoreganj	Sadar	Kaliarkanda Bazar Ghat	2	N1
4	1-18	Kishoreganj	Sadar	Char Pumdi bazar Ghat	3	R4
5	1-19	Kishoreganj	Sadar	Rampur bazar Ghat	3	R4
6	1-24	Kishoreganj	Sadar	Char Katkhal	4	R9
7	1-27	Kishoreganj	Sadar	Olua	3	N2
8	1-30	Kishoreganj	Sadar	Kacharighat	3	R7
9	1-32	Kishoreganj	Sadar	Panahar bazar Ghat	4	N1
10	1-33	Kishoreganj	Sadar	shudi bazar Ghat	5	N1
11	2-3	Netrokona	Purbadhala	Jaria Ghat	25	R2
12	2-4	Netrokona	Purbadhala	Patra Ghat	0	R1
13	2-5	Netrokona	Purbadhala	Ghagra Ghat	0	R1
14	2-6	Netrokona	Purbadhala	Moheshpotti Ghat	0	R1
15	2-10	Netrokona	Khaliajuri	Khaliajuri Ghat	15	R14
16	2-11	Netrokona	Khaliajuri	Lipsa Ghat	87	R14
17	3-9	Sunamganj	Sulla	Rahutola Bazar Ghat	0	R14
18	3-37	Sunamganj	Derai	Boalia	0	R8
19	3-46	Sunamganj	SUNAM GANJ-SADAR	Joy nagar Ghat	0	N12
20	3-55	Sunamganj	Dakhin Sunamganj	Pathariabaz ar GC	0	N12
21	3-56	Sunamganj	Dakhin Sunamganj	Birgaonbazar	0	N12
22	4-2	Habiganj	HABIGANJ-S	Purbo Poil Bazar Ghat	0	R13
23	4-3	Habiganj	HABIGANJ-S	Poil Natun Bazar Ghat	0	R13
24	4-11	Habiganj	Baniachonj	Sujath pur Bazar	0	R10

Total Resettlement

	Resourcement
	Number
Initial List of Candidate Subproject	161
Finalized List of Subproject	34

(exclusion: more than 15)

Appendixes 5.1 to 5.18

	Agriculture Promotion	
Appendix 5	e Promo	
dix 5	vtion	

Table

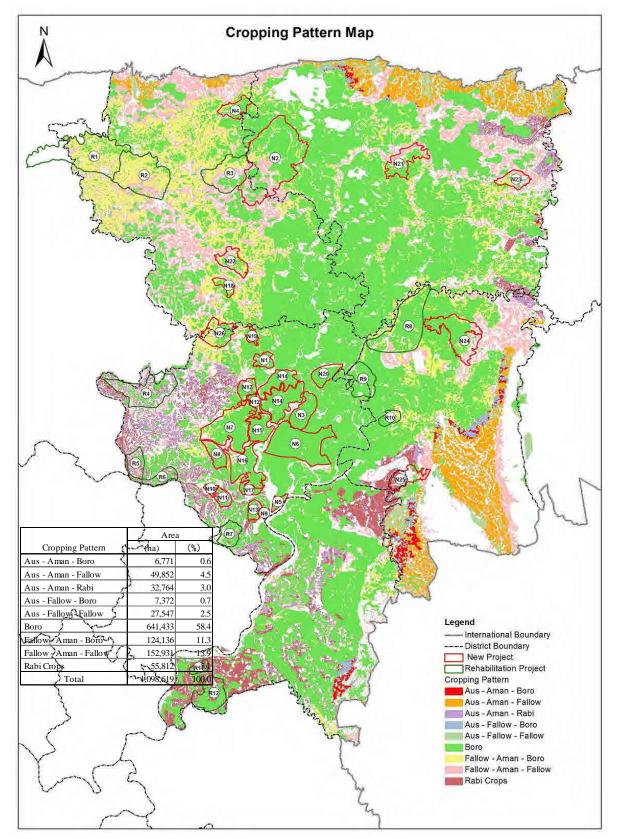
									I	Area by Land Ty	pe of the Sub-p	roject Areas (ha)			
			Land Use of	f the Sub-project	t Areas (ha)				Medium	Medium		Very			
		Agriculture		Water				Highland	Highland	Land	Lowland	Lowland			
ID	Rehabilitation Project	Land	Settlement	Body	Forest	Total	ID	F0	F1	F2	F3	F4	Others	Total	
Reha	bilitation Sub-project			Rehabilit	vilitation Sub-project										
R-1	Dampara Water Management Scheme	11,069	3,305	630		15,004	R-1	1,927	13,077					15,004	
R-2	Kangsa River Scheme	8,477	2,461	399		11,337	R-2	740	10,359	238				11,337	
R-3	Singer Beel Scheme	5,842	1,144	214		7,200	R-3	313	1,141	4,639	1,107			7,200	
R-4	Baraikhali Khal Scheme	4,719	3,826	123		8,667	R-4		6,433	2,234				8,667	
R-5	Aladia-Bahadia Scheme	1,128	1,115	220		2,464	R-5	566	1,898					2,464	
R-6	Modkhola Bairagirchar Sub-project Scheme	1,213	829	17		2,060	R-6		2,008				52	2,060	
R-7	Ganakkahali Sub-scheme	1,807	814	31		2,652	R-7		2,627	25				2,652	
R-8	Kairdhala Ratna Scheme	11,205	405	291		11,900	R-8			4,601	7,136		164	11,900	
R-9	Bashira River Schme	4,061	260	201		4,521	R-9			1,071	3,442		7	4,521	
R-10	Aralia Khal Scheme	1,406	95			1,501	R-10			713	788			1,501	
R-11	Chandal Beel Scheme	841	89	82		1,012	R-11			1,012				1,012	
R-12	Satdona Beel Scheme	4,153	640	255		5,049	R-12			5,049				5,049	
R-13	Gangajuri FCD Sub-Project	17,418	2,903	120		20,441	R-13	7,518		108	12,815			20,441	
R-14	Khaliajuri Polder #02 Scheme	6,200	126	285		6,611	R-14				6,517		93	6,611	
R-15	Khaliajuri Polder #04 Scheme	6,866	80	255		7,201	R-15				7,201			7,201	
	Rehabilitation Sub-project Total	86,406	18,091	3,124	0	107,621	Sub-total	11,065	37,543	19,690	39,006	0	316	107,621	
New	Construction Sub-project						New Con	Construction Sub-project							
N-1	Boro Haor Prtoject (Nikli)	8,347	705	93		9,146	N-1				9,146			9,146	
N-2	Naogaon Haor Project	8,643	223	239		9,104	N-2				8,985		119	9,104	
N-3	Jaliar Haor Project	2,191	271	3		2,466	N-3				540	1,925		2,466	
N-4	Dharmap asha Rui Beel Project	19,096	1,644	823		21,563	N-4			2,862	18,043	658		21,563	
N-5	Chandpur Haor Project	2,022	135	153		2,311	N-5		134		2,177			2,311	
N-6	Sunair Haor Project	3,293	558	44		3,894	N-6			454	3,440			3,894	
N-7	Badla Haor Project	1,314	107	83		1,504	N-7				1,486		18	1,504	
N-8	Nunnir Haor Project	5,309	416	86		5,810	N-8		116	53	5,622		20	5,810	
N-9	Dakhshiner Haor Project	2,320	56	107		2,482	N-9			369	2,101		12	2,482	
N-10	Chatal Haor Project	786	23	8		816	N-10				816			816	
N-11	Ganesh Haor Project	2,806	137	146		3,090	N-11			3,083	6			3,090	
N-12		3,742	296	387		4,425	N-12				4,425			4,425	
	Mokhar Haor Project	7,253	616	195		8,064	N-13			3,956	4,108			8,064	
N-14	Noapara Haor Project	2,864	195	120		3,180	N-14				3,122		58	3,180	
	New Construction Sub-project Total	69,986	5,381	2,487	0	77,855	Sub-total	0	249	10,778	64,018	2,583	227	77,855	
	Overall Project	156,392	23,473	5,611	0	185,476	Total	11,065	37,792	30,468	103,024	2,583	543	185,476	
	%	84.3	12.7	3.0	0	100	%	6.0	20.4	16.4	55.5	1.4	0.3	100	

Source: GIS data, Master plan of Haor, 2012, CEGIS

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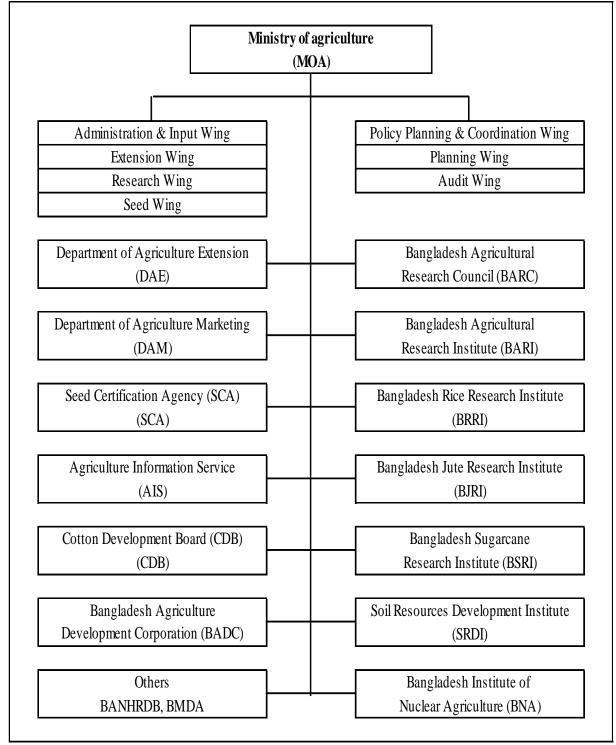
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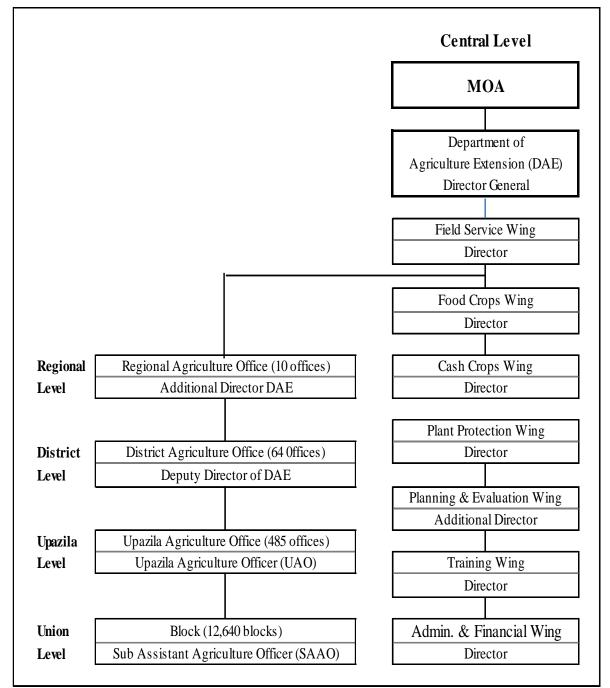
Source: MP Annex 2 Agriculture

Figure Cropping Pattern Map of the Project Districts



Source: MOA website

Figure Organization Structure of Ministry of Agriculture (MOA)



Source: DAE website

Figure Organization Structure of Department of Agriculture Extension (DAE)

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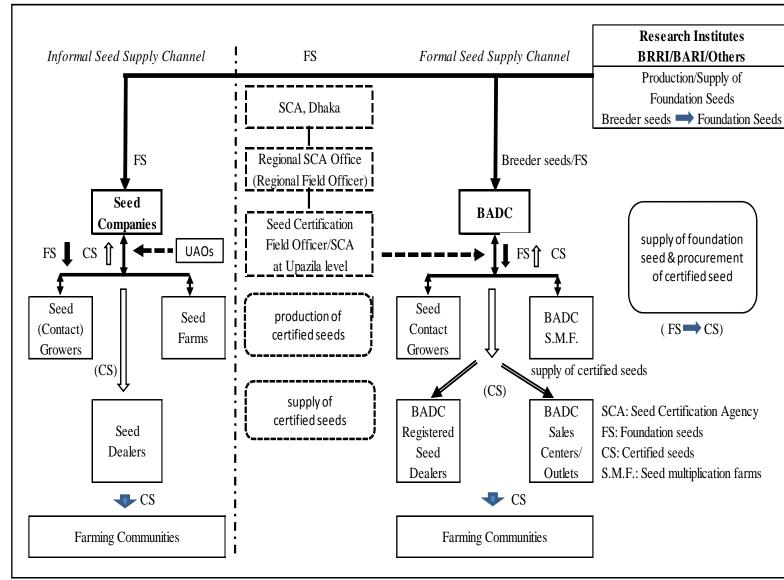
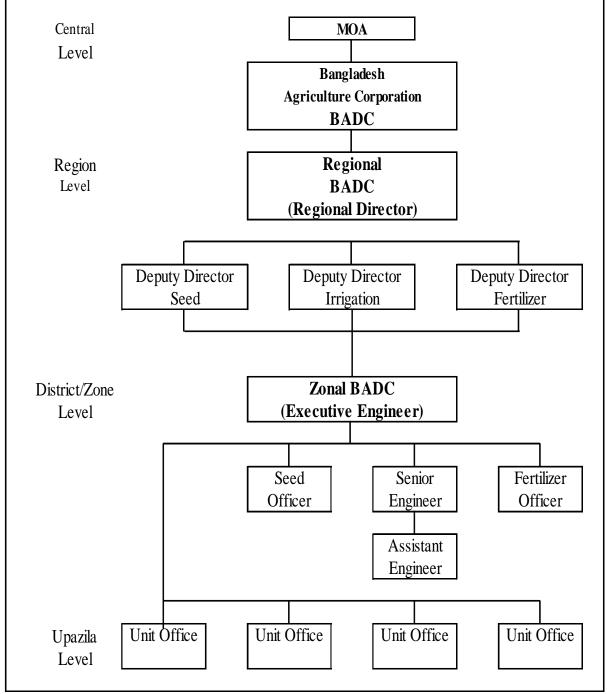


Figure Seed Production & Distribution Systems in Bangladesh

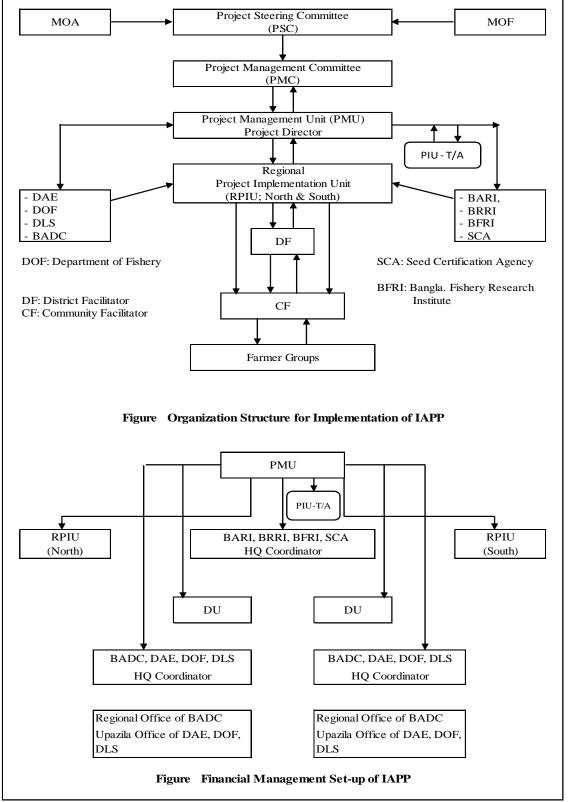
Agriculture Promotion Appendix 5

Appendix 5.5



Source: Prepared by the JICA Survey Team

Figure Organization Structure of Bangladesh Agriculture Development Corporation (BADC)



Source: Prepared by the JICA Survey Team based on information provided by DAE

Figure Implementation Arrangements for IAPP

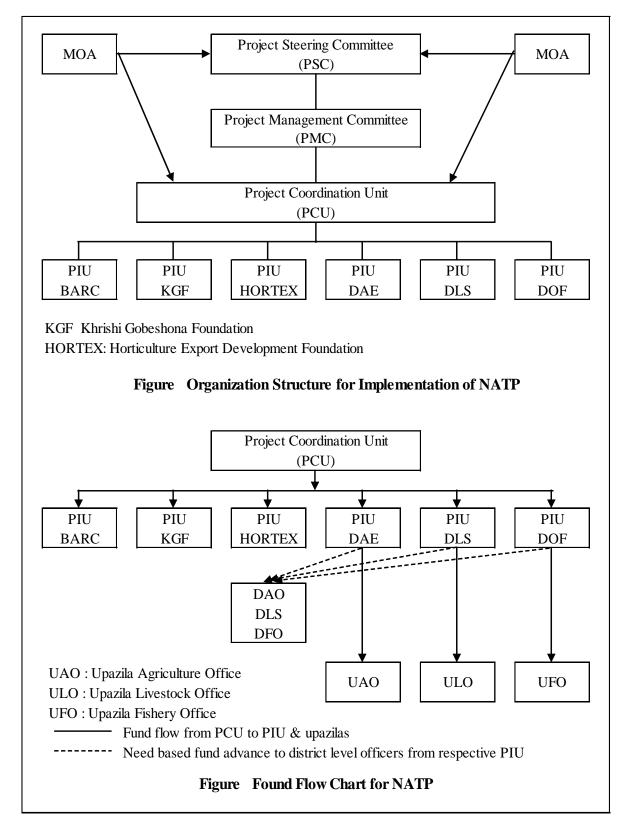
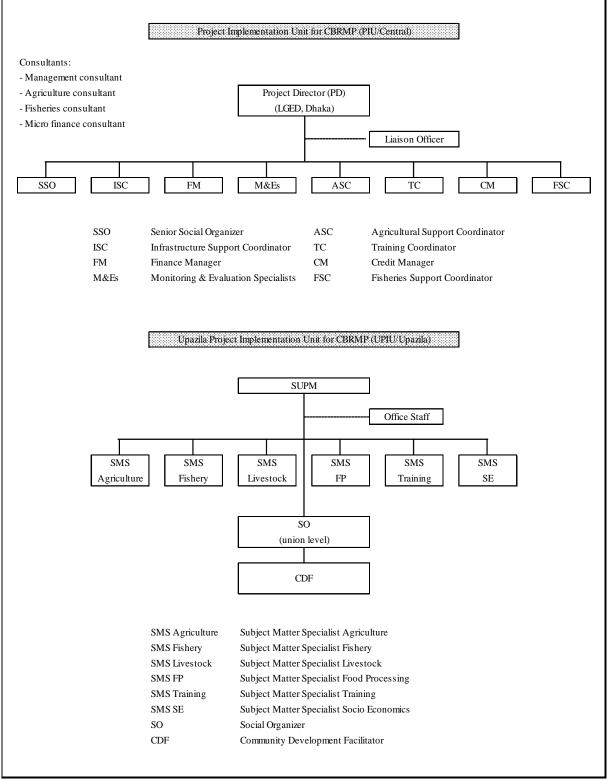


Figure Implementation Arrangements for NATP

Nippon Koei Co., Ltd.



Source: prepared by the JICA Survey Team based on data provided by the PD for CBRMP of LGED

Figure Institutional Set-up for CBRMP under LGED

District	Problems/Constraints											
unamganj	Farming Issues	Farming Issues	Marketing Issues									
	- Flash flood,	- High fuel cost for machinery operation beyond farmers capacity	- Transportation problem for marketing									
	- Lack of appropriate technologies for haor areas	Post-harvesting Issues	- Selling at low price because of transportation problems									
	- Labour shortage in boro planting & harvesting	- Lack of drying spaces in fields & home	- Collector agents procure farm products directly at farm gate because no									
	- Traditional farming practices (use own old seeds & aged seedlings)	- Threshing cost by private hiring services is high	transportation means & distance to markets									
	- Higher seeding rate for rice cultivation	- Lack of storage facility in village & home	- No cooperative (public) market in haor areas									
	- Shortage of farm machinery & difficult to find spareparts	Extension Services Issues	Public prices for fertilizers, but farm gate prices depending on									
	 Shortage of seed supply (HYV & hybrid) 	- Insufficient technical capability of field extension staff	transportation costs added									
	- Limited access to farm credit	Extension visits restricted and costive/time consuming	 No other or very limited outlet of farm products than collector agents 									
	Very poor transportation conditions	Lack of technical training for farmers	because of transportation problems									
	Poor seedlings quality	No training facility & SAAO office in Block	Other Issues									
	Lack of suitable cultivars for haor & beel areas	 Poor logistic support (transport means) for district & upazila staff 	- Lack of animal feed									
			- Lack of animal feed									
	- Inadequate fertilization practices (high doses of urea)	- Block size is too large & distributed far away each other	Extension Services Issues									
abiganj	Farming Issues	Farming Issues										
	- Early flash flood & excessive rain	- Shortage of threshing machine	- Block size is too large (10 to 15km apart)									
	- Serious labour shortage in planting & harvesting time (high cost)	- Pulse, oil seeds & vegetable seeds very limited	- No office for SAAO									
	- Shortage of irrigation equipment (boro land left fallow)	Post-harvesting Issues	 Poor logistic support for SAAO (no transportation means) 									
	 Shortage of quality HYV seeds 	 Problems with drying & storing of paddy (no dryer) 	Marketing Issues									
	- Farmers limited knowledge	- Forced to sell paddy at low price of just after harvest (transport problem)	 Selling at low price because of transportation problems 									
	 Crop losses due to pest & disease 	 No rice mill in haor areas 	Other Issues									
	- Traditional vegetable & fruit cultivation	- Shortage of storage facilities	- Lack of awareness of farmers on group dynamic									
	- Shortage of power tiller, pump & winnowers	 Poor storage facility at home 	 Limited access to formal credit (complex procedures) 									
	- Costive of farm machinery beyond of farmers capacity		- Farmer organizations are not active									
etrakona	Farming Issues	Post-harvesting Issues	Marketing Issues									
	- Early flash flood	- No rice mill in haor	- High transportation cost of fertilizer									
-	- Labor shortage at harvesting season	- Poor storage facility at home	Other Issues									
	- Bad road condition at harvesting season	Extension Services Issues	- Existing conflict among members (FG)									
	- Lack of farm machinery	- No. of SAAO insufficient	- IPM, ICM groups not sustainable									
	Inadequate fertilization practices (high doses of urea)	- Poor logistic support for SAAO (no transportation means)	- Few NGOs work on agriculture									
	Lack of threshing machine	 Block size is too large (10 to 15km apart) 	- No job opportunity in flooding season									
	Farmers purchase seeds every season due to no storage facility	Marketing Issues	People are lazy									
	 20% of land left under permanent fallow 	No well organized market in village	- Access to bank limited									
	- Use of aged seedlings (35 - 45days)	· No well organized market in vinage										
		Forced to sell paddy at low price of just after harvest (transport problem)	 Complex procedures for formal credit 									
	- Limited accessibility to quality hybrid seed		Extension Services Issues									
ishoreganj	Farming Issues	Farming Issues										
	- Farm land inundated for 6 to 7 months (May to Oct.)	- Use of aged seedlings (35 - 45days)	No farmer training center in haor areas									
	- Early flash flood	- Delay in water receding resulting in crop losses due to flash flood	Marketing & Other Issues									
	- Serious labour shortage in harvesting time (labour cost highe)	- Lack of farm machinery; (tractor, harvester, dryer, winnower)	- Due to lack of transport, farmers sell paddy at fields to collector (200 to									
	 Lack of harvesting, threshing & winnowing machine 	 Farmers reluctant to introduce double cropping due to risk of flood 	BTK/40kg lower than actual price)									
	- Farmers knowledge limited on improved practices & seed preservation	Post-harvesting Issues	 Marketing problems (lack of transport & long distance to markets) 									
	(because of no training)	 No rice mill in haor areas 	- Serious transportation problems at harvesting season (road muddy)									
	 Shortage of irrigation water in dry season 	 Poor storage facility at home 	 Accessibility to farm credit limited 									
	- Inadequate fertilization practices (heavy application of urea)		- No functioning farmer organizations in haor areas									
rahmanbaria	Farming Issues	Farming Issues	Marketing Issues									
	- Climatic conditions (early flood, excessive rain, uneven rainfall)	- Limited knowledge on improved technologies of farmers	- Selling price lower than production cost spent									
	- Pest & disease attack	- Lack of farming capital	- Farmers sell products at low price to collector agents or rice killers becau									
	- Degradation of soil fertility	Post-harvesting Issues	of transport & road problems									
		-	Other Issues									
	- Inadequate fertilization practices (high doses of urea)	- Poor storage facility at home										
	- Inadequate fertilization practices (high doses of urea) - Labour shortage & high labour cost	Poor storage facility at home Labour & machinery shortage for threshing										
	- Labour shortage & high labour cost	- Labour & machinery shortage for threshing	- Limited accessibility to farm credit									
	- Labour shortage & high labour cost - Shortage of quality HYV seeds	Labour & machinery shortage for threshing Extension Services Issues	Limited accessibility to farm credit No active farmer organizations in haor areas									
	- Labour shortage & high labour cost	- Labour & machinery shortage for threshing	- Limited accessibility to farm credit									

Table

Nippon Koei Co., Ltd.

A5.10 - 1 Preparatory Survey on Upper Meghna River Basin Watershed Management Improvement Project

Agriculture Promotion Appendix 5

Appendix 5.10

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Table Results of Household Survey on Problems/Constraints, Suggestions to Solve Problems/Constraints, Immediate Needs & Future Aspirations: Crop Sub-sector - 1/2 1 App

											Suggestions to Solve Problems/Constraints									
		Kangsa River Scheme	Dhanu River	Dharmapasha Rui Beel	Kairdhala Ratna	Charigram Project	B oro Haor (Nikli)	Boro Haor (Austagram)	Satdona Beel Scheme	Overall		Kangsa River Scheme	Dhanu River	Dharmapasha Rui Beel	Kairdhala Ratna	Charigram Project	B oro Haor (Nikli)	B oro Haor (Austagram)	Satdona Beel Scheme	10
Responses/Constraints				. of Resp						Ŭ	Responses	_			ondents l	-		_	-	<u> </u>
. Irrigation Issuues		1	110	. or resp		Tupone	u buoje				1. Irrigation Issuues		110.	orreop	ondento	apone	a buojee	raspor		Г
- Irrigation issues in general		28	25	44	35	28	19	3	1	183	 Electricity/fuel supply, low fuel price or electric pump 	22	22	34	11	5	13	0	0)
- High irrigation cost/charge,		9	23	38	8	1	15	2	0	96	- Improvement of irrigation system	0	1	1	22	2	1	1	0	5
- Water Shortage		12	0	4	8	3	4	. 0	0	31	- DTW	1	0	1	0	5	0	0	2	2
- No electricity, for pumping		5	1	0	0	0	0	0	0	6	- Development of (surface) irrigation	3	0	2	0	0	0	2	0	,
- Fuel supply problem/high fuel cost		0	0	0	0	0	0	0	0	(- Construction/rehabilitation of canal	0	0	0	2	1	3	0	1	
- No irrigation		1	0	0	1	0	0	0	0	2	sub-total	26	23	38	35	13	17	3	3	
	Sub-total	55	49	86	52	32	38	5	1	318										T
P. Farm Inputs Supply Issues								i –			- Reduce inputs prices	3	17	24	1	2	16	0	1	
- Farminputs issues in general		6	21	48	22	6	0	3	1	107	- Improvement of inputs supply	3	0	14	32	1	0	0	0	,†
- High farm input cost		3	20	31	1	3	14	. 0	1	73	- Provision quality seeds	1	5	1	2	4	0	0	0	,
- Farm input supply problems		2	0	16	16	1	0	3	0	38	- Provision of inputs	0	2	3	0	0	1	0	0	,
- Availability of quality seeds		3	5	2	1	3	0	0	0	14	sub-total	7	24	42	35	7	17	0	1	
Transmi orquany seeds	Sub-total	14	46	97	40	13	14	6	2	232	3. Flood Management	,	2.	12	00	,	17		<u> </u>	┢
B. Flash Flood/Heavy Rain		4	1	7	15	27	2	28	21	105	- Rehabilitation/construction of embankment	13	0	7	15	23	3	14	14	1
Lack of Road/Transportation Means		4	0	4	37	1	4	19	1	70	- River dredging	2	0	1	2	23	0	6	6	; _
6. Agronomic Issues		نے ا			51						- Drainage improvement	7	1	0	- 0	0	0	2	5	<u>;</u>
- Insect/pest occurrence		0	0	10	20	2	0	0	0	32	sub-total	22	1	8	17	46	3	22	25	
- High production cost		4	3	10	20	1	5	1	0	15		22	0	4	24	40	3	22	25	,
Mono-culture of boro rice			0	4	0	0	1	1	0	1.	5. Agronomic Issues	2	0	7	24	0	5	22		⊢
Lack of farmers skills		2	0		1	0	2	0	0		- Farmer training	6	0	1	3	1	2	0	0	,
- Low productivity			1	0	0	0		0	0	1	- Appropriate chemical use	0	0	0	8	0	0	0		ł
- Low productivity	Sub-total	9	1	15	21	3	8	2	0	62	Productivity improvement	0	0	0	1	0	2	0	0	ł
. Labour/Machinery Shortage	5110-101111	,	4	15	21	5	0		0	02	- Insect/pest management training	2	0	0	1	0	0	0	0	<u>+</u>
- Shortage of farm machinery/draft power		0	1	3	14	5	0	2	0	25	- Use of compost	0	0	0	0	1	0	0	0	<u>}</u>
- Labour shortage/high labour cost		1	2	5	14	1	2	0	0	22	Optimize use of inputs	0	0	0	0	0	2	0	0	<u>+</u>
- Labour shortage/light labour cost	Sub-total	1	2	8	15	6	3	11	0	47	- Introduction of double cropping	0	0	0	0	0	2	1	0	<u>, –</u>
. Marketing Issues	5110-101111	1	5	0	15	0	5	11	0	4/	Reduction of production cost	0	0	0	0	0	1	0	0	<u>-</u>
- Limited access/unfair marketing price		0	0	17	1	2	2	0	0	23	- Reduction of production cost	0	0	1	12	2	8	1	0	+
- Ennied access/uniai marketing price		0	0	17	1	2	3	0	0	23	6. Labour/Machinery Shortage	9	U	1	12	2	0	1	0	+
- Shortage of farming capital		0	0	0	2	2	0	,	0	16	 Reducing hiring cost 	0	13	1	11	0	0	0	0	1
- Shortage of farming capital		0	0	9	5	2	0	4	0	10	Reducing niring cost Provision of machinery/hiring services	0	15	1	11	0	1	1	0	ł
- Drought				0				2	0		Reduce labour cost	0	0	1	1	0	1	1	0	+
- Drought - Others		0	0	0	0	0	1	0	0		- Reduce labour cost sub-total	0	13	0	12	5	2	1	0	+
- Others - No problem		0	0	0	0	0	1	0	12	10	7. Farming Capital Issue	0	15	2	12	5	3	2	0	┢
<u>1</u>		- 0	0	2	0	0	0	0	12		 Farming Capital Issue Improvement of access to credit/interest free credit 		1	0	A	_	0	1	2	,
- No response			0	5	0	0	0	0	0		1	0	1	9	4	6	0	1	3	+
	6 1	<u> </u>			0			-	12		8. Higher/fixed/fair price of paddy		3	14	0	4	0	0	0	1
	Sub-total Total	3 90	0 103	3 246	0 184	0 86	73	3 76	12 37	22 895	9. Others Tota	0 67	0 65	3	0 139	0 83	3 54	13 64	-	

Source: Results of Household Survey Conducted by the JICA Survey Team in 2013

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Table Results of Household Survey on Problems/Constraints, Suggestions to Solve Problems/Constraints, ddv

Imme	diate Needs f	'or Agric	culture	Promotio	n						F	ture Asp	rations							
		Kangsa River Scheme	Dhanu River	Dharmapasha Rui Beel	Kairdhala Ratna	Charigram Project	Boro Haor (Nikli)	3 oro Haor (Austagram)	Satdona Beel Scheme	0 v erall		Kangsa River Scheme	Dhanu River	Dharmapasha Rui Beel	Kairdhala Ratna	Charigram Project	3 oro Haor (Nikli)	B oro Haor (Austagram)	Satdona Beel Scheme	0 v erall
Responses	F			. of Resp		-		t Respo		0	Responses		-		ondents l	Reported	1 Subjec			0
1. Irrigation Issuues						1					1. Irrigation Issuues					1				
- Irrigation water supply		4	23	4	14	24	0	6	0	7	- Irrigation water supply		0 19	1	20	2	0	1	0	43
- Motor pump installation		6	2	0	15	4	0	1	0	2	- Electricity supply		0 15	8	3	0	0	1	1	28
- Electricity supply		18	0	1	3	0	0	4	1	2	- Installation of power pump		0 0	0	20	0	0	0	0	20
- Reduction of fuel cost,		0	0	12	1	0	0	0	0	1	- Installation of DTW		0 2	1	1	2	0	0	2	8
- Installation of DTW,		0	0	2	1	4	0	0	1		- Low diesel price/easy access to fuel		0 3	2	1	0	0	0	0	6
- Irrigation canal rehabilitation		0	0	0	0	0	3	0	0		sub-to.	al () 39	12	45	4	0	2	3	105
- Low cost irrigation		2	0	0	0	0	0	0	0		2. Farm Inputs Supply Issues									
	sub-total	30	25	19	34	32	3	11	2	156	- Provision of farm inputs		0 10	5	45	0	0	1	4	65
2. Farm Inputs Supply Issues											3. Flood Management									
- Fertilizer/chemical/seed supply,		9	30	17	64	7	1	6	3	13	- Rehabilitation/construction of embankment		0 1	22	15	33	14	12	8	105
- Quality seeds supply		11	4	2	1	1	0	13	0	3	- Implementation of river dredging		0 1	0	2	34	1	0	8	46
- Provision of low cost fertilizer/seed/chemical,		1	1	17	0	2	0	9	0	3	sub-to.	al () 2	22	17	67	15	12	16	151
	sub-total	21	35	36	65	10	1	28	3	199	1		0 0	10	13	0	15	16	0	54
3. Flood Management											5. Agronomic/Agriculture Issues									
- Embankment		0	0	3	2	0	9	1	6	2	 Provision of power tiller 		0 1	0	31	0	0	1	0	33
- River dredging		0	0	1	0	0	0	3	4		- Agriculture training		0 2	4	1	1	1	20	0	29
- Culvert construction		4	0	0	0	0	0	0	0		- Farm machinery at low price/easy access to machinery	_	0 15	0	1	0	0	0	0	16
	sub-total	4	0	4	2	0	9	4	10		 Increase agriculture production/buy land 	1	0 0	0	0	0	0	0	0	10
4. Road Construction/Improvement		3	0	8	2	0	17	3	0	3	- Double cropping		0 0	3	0	0	3	2	0	8
5. Agronomic Issues											- Vegetable cultivation		0 0	1	0	0	0	0	0	1
- Training/extension services		5	0	1	0	2	2	0	0	1	- Use of new seed		0 0	1	0	0	0	0	0	1
- Introduction of double cropping		0	0	1	0	0	1	0	0		sub-to	ul 10) 18	9	33	1	4	23	0	98
- Reduction of production cost		0	0	1	0	0	0	0	0		6. Farming Capital Issue									
	sub-total	5	0	3	0	2	3	0	0	- 13	- Access to credit		0 0	1	5	0	0	1	8	15
6. Labour/Machinery Shortage											7. Marketing Issues									
- Provision of machinery/hiring services & power	tiller	0	3	0	47	10	0	12	4	7	 Fair market prices 		0 15	3	2	2	0	3	0	25
- Reducing machinery hiring cost		1	0	1	0	1	0	- 11	0	1										
	sub-total	1	3	1	47	11	0	23	4	90	- Continue present agriculture work	2	4 0	3	0	0	0	0	0	27
7. Farming Capital Issue											- Engaging in their works		1 0	0	0	0	0	0	0	1
- Improving access to credit/interest free credit		2	3	24	5	5	0	5	3	4	- Another income source		0 0	1	0	0	0	0	0	1
8. Marketing Issues											- Market development		0 0	1	0	0	0	0	0	1
- Higher/fixed/fair price of paddy		0	0	8	0	7	0	6	0	2	- Job opportunity		0 0	0	0	0	0	3	0	3
9. Others		0	1	10	0	0	2	0	18	3	- Others		2 0	21	0	0	1	3	6	33
											sub-to.				0	0	1	6	6	66
	Total	66	67	113	155	67	35	80	40	62	То		7 84	88	160	74	35	64	37	579

Immediate Needs & Future Aspirations: Crop Sub-sector - 2/2 1

1/: Total number of respondents (sample farmers) = 555; plural answers allowed Source: Results of Household Survey Conducted by the JICA Survey Team in 2013

Problems/Constraints for Livestock Promoti	on	Suggestions to Solve Problems/Constraint	s	Immediate Needs for Livestock Promotion		Future Aspirations for livestock Promotion	n
Responses	No. 2/	Responses	No. 2/	Responses	No. 2/	Responses	No. 2/
1. Veterinary Services Issues		1. Veterinary Services Issues		1. Veterinary Services Issues		1. Veterinary Services Issues	
- Insufficient veterinary services (especially in	57	- Veterinary services strengthening	73	- Veterinary services	69	- Veterinary services	4
rainy season)/high cost of treatment		2. Land Issues		2. Land Issues		2. Land Issues	
- Disease	32	- Grazing land	25	- Higher land for cattle raising	18	- Land for cattle raising	2
sub-total	89	- Flood free grazing land	23	- Cattle shed in rainy season	13	3. Farming Capital & Cost Issues	
2. Land Issues		sub-total	48	sub-total	31	- Provision of loan for livestock	4
- Shortage of grazing land & grasses due to	31	3. Farming Capital & Cost Issues		3. Farming Capital & Cost Issues		4. Husbandry Issue	
inundation		- Credit & animal loan	30	- Capital/cattle loan/interest free loan	80	- Training	5
- No land for raising animal	31	- Low cost feed	23	- Feed/low cost feed	5 2	- Access to fodder/Feed/fodder production	2
sub-total	62	sub-total	53	sub-total	132	sub-total	1 8
3. Farming Capital & Cost Issues		4. Husbandry Issue		4. Husbandry Issue		5. Others	
- Insufficient capital	18	- Training	24	- Training	71	- Continue livestock	2
- High feed price	19	5. Others		5. Others		- Increase cattle No.	1
- High husbandry cost	1	- Feed stock (straw)	9	- Others	13	- Production increase	
sub-total	38	- Others	21	- No need	18	- Start cattle farming	
4. Husbandry Issue		- No response	174	- No response	112	- Not interest in livestock	
- Poor raising practices/lack of knowledge/no	10	sub-total	204	sub-total	143	- Others	2
training						- No aspiration	1
5. Others						- No response	11
- Flooding (to evacuate cattle)	1					sub-total	l 20
- Heavy rainfall	5						
- Low selling price	4						
- Others	1						
- No problem	31						
- No response	154						
sub-total	196						
Total	395	Total	402	Total	446	Tota	ıl 39

1/: Plural answers accepted; sample farmers 355; No. of answers per sample farmer was 1 to 4 answers;

average no. of answers per sample farmer = 1.3 answers

2/: Major problems/constraints or suggestions or immediate needs & aspirations responded

Source: Results of House Hold Survey conducted by the JICA Survey Team

Results of Household Survey on Problems/Constraints, Suggestions to Solve Problems/Constraints,

Immediate Needs & Future Aspirations: Livestock Sub-sector 1/

Agriculture Promotion Appendix 5 Appendix 5.12

Table

Appendix 5.13-1

Table Results of Household Survey on Extension Services, Farm Inputs Supply, Farmers Organizations, Marketing & Others 1/

1. Extension Services

1. Extension Services	,														
1.1 Extension Service															
					Service Provide	r									
			DAE/	UAO											
					UAO										
		DAE	UAO	UAO	Visit with			Chemical		No Services					
Item	UAO	Project	Not Sufficient	& NGO	No Advice	Sub-total	NGO	Dealer	Others	Provided	No Answer	Total			
No. of Respondents (No.)	77	2	6	3	8	96	8	6	4	226	15	355			
(%)	22	1	2	1	2	27	2	2	1	64	4	100			

1/: Household Survey conducted by JICA Survey Team in July, 2013; smaple No. 355

1.2 Satisfied with Extension Services Provided

1.2 Satisfied w	ith E	xtension Services Pro	vided				Unit	: No. of Repondn	ets Reportrd
			Not Satified						
				Training or					
				Technical Advices					
Item		No Services Peovided	Not Satisfied	to Be Provided 2/	Sub-total	Satisfied with Services	Others	No Answer	Total
No. of Respondents	(No.)	115	63	63	241	23	3	88	355
	(%)	32	18	18	68	6	1	25	100
1/: Household Survey co	onducte	d by JICA Survey Team in July.	2013: smaple No. 355						

2/: Respondent rsuggested training & technology transfer requirements assumed to be not satisfied

1.3 Frequency of Vi	.3 Frequency of Visit of Extension Personnel Unit: No. of Repondnets Report													
	No respo	onse/NA	Once/2	2 weeks	Once/3-	-4weeks	Once/1-	3months	Seldom - No Visit					
Extension Personnel 2/	Count	% 3/	Count	% 3/	Count	% 3/	Count	% 3/	Count	% 3/				
UAO Staff	29	8%	2	1%	23	6%	53	15%	248	70%				
UFO Staff	173	49%	3	1%	11	3%	11	3%	157	44%				
DLO Staff	222	63%			2	1%	4	1%	127	36%				
NGO	262	7404			2	10/	12	40/	76	2104				

 NGO
 203
 /470

 1/: Household Survey conducted by JICA Survey Team in July, 2013; smaple No. 355

2/: UAO - Upazila Agriculture Office; UFO - Upazila Fishery Office; DLO - District Livestock Office

3/: Proportion to total respondents 355

2. Farm Inputs Supply

2.1 Seeds (whe	re do	you procure seeds)					Ui	nit: No. of Repor	dnets Reportrd
			Local Sipplier			Self-multiplied			
Item		Local Market/Dealer	Upazila Market/Dealer	Sub-total	BADC/DAE	Seed	Others	No Answer	Total
No. of Respondents	(No.)	283	5	288	34	3	3	3	355
	(%)	80	1	81	10	1	1	1	100

l/: Household Survey conducted by JICA Survey Team in July, 2013; smaple No. 355

2.2 Fertilizer (v	where	Ur	nit: No. of Repor	dnets Reportrd			
			Local Sipplier				
Item		Local Market/Dealer	Upazila/Town Dealer	Sub-total	BADC/DAE	No Answer	Total
No. of Respondents	(No.)	233	56	289	63	3	355
_	(%)	66	16	81	18	1	100
1/11 1 110	1 /	11- HCA Comment Transfer Inter	2012 1 11 255				

1/: Household Survey conducted by JICA Survey Team in July, 2013; smaple No. 355

2.2 Fertilizer (where do you procure fertilizers)

		•	Local Sipplier				
Item		Local Market/Dealer	Upazila/Town Dealer	Sub-total	BADC/DAE	No Answer	Total
No. of Respondents	(No.)	233	56	289	63	3	355
_	(%)	66	16	81	18	1	100

1/: Household Survey conducted by JICA Survey Team in July, 2013; smaple No. 355

Unit: No. of Repondnets Reportrd 2.3 Agrochmeicals (where do you procure agrochemicals)

			Local Sipplier					
Item	Local Market/Dealer		Upazila/Town Dealer	Sub-total	BADC/DAE	Chemical Shop	No Answer	Total
No. of Respondents	(No.)	280	34	314	21	17	3	355
	(%)	79	10	88	6	5	1	100

1/: Household Survey conducted by JICA Survey Team in July, 2013; smaple No. 355

Unit: No. of Repondnets Reportrd

Appendix 5.13-2

Table Results of Household Survey on Extension Services, Farm Inputs Supply, Farmers Organizations, Marketing & Others 1/

4 Membership in Farmers Organizations

				No. of Re	spondents
Organization/Agency	Major Activities	Obligations	Problems Reported	No.	% 1/
ASA (NGO)	Micro credit & saving	Monthly installment of loan	High interest rate	10	3
Bangladesh Krishi Bank	Agriculture loan			13	4
BRAC	Agriculture loan			4	1
Grameen Bank	Micro credit & saving			15	4
ICM/IPM Club	Integrated crop/pest management (FFS)		No training room	7	2
PAPI (NGO)	Micro credit, saving & training			6	2
Others				11	3
No answer				289	81

1/: Proportion to total sample farmers 355

5 Participation in Agriculture Development Intervention

		No. of Re	spondents
Organization/Agency	Major Activities	No.	% 1/
DAE	Training (compost making/IPM/ICM)	13	4
ASA (NGO)	Micro credit & saving	4	1
Grameen Bank	Micro credit & saving	4	1
PAPI (NGO)	Micro credit, saving & training	6	2
Akti Bari Akti Khamar	Personnel & social development	5	1
Others		14	4
No answer		338	95

1/: Proportion to total sample farmers 355

6. Marketing Destination of Paddy & Other Crops

	Pac	ddy	Other Crops		
Destination	No.	%	No.	%	
Collector (come to farm)	88	18	3	4	
Wholesaler in Village	225	46	23	34	
Wholesaler in Nearby Toown or Village	113	23	26	38	
Retailer in Village	61	12	16	24	
Cooperatives	2	0.4	0	0	
Total Responses 2/	489	100	68	100	
No answer (not marketed)	25		307		

1/: Proportion to total responses of 489 or 68 from 355 respondents

2/: Plural answer allowed

Table Policy Overview

Policy/Plan & Overview
Draft National Agriculture Policy, 2010
Research and development (R&D), NAP-2010 A well-coordination research plan for the rapid development of crop sector, a paradigm shift from a supply-driven to a demand-driven approach in agriculture, change from production level to production efficiency, productivity and profitability; Equity, employment, environmental sustainability, nutrition, food quality, trade etc. have new areas of concern even as efforts to maintain food security to continue; Demands effective introspection, reprioritization and consolidation of R & D activities overall accountability.
Governance of Research Institutions, NAP-2010
Develop measures to strengthen coordination, planning, priority-setting, and monitoring & evaluation mechanisms in the National Agriculture Research System (NARS); Provide to individual researchers or research institutions for innovation, excellence in agricultural research; Provide adequate assistance to scientists and institutionalize project-based activities; Creation of research environment through construction of infrastructure better return from investment; Develop a research system in cooperation with Bangladesh Agriculture Research Council (BARC), agricultural research institutes (BARRI< BARI, BINA, JRI, SRDI etc.) that provide sufficient social benefits per unit of research inputs and add value for investment; To achieve small farm mechanization and precision farming, promote technological empowerment of women in agriculture.
Transfer of Technology, NAP-2010 Emphasis on technology assessment, refinement and transfer by improving interface with farmers and other stakeholders with the involvement of research agencies, BARC and all agricultural research institutes; Efforts to enhance involvement of scientists in outreach extension programmes.
Human Resource Development, NAP-2010 Training coverage in association with research and development in agriculture with assistance of National Agricultural Training Academy (NATA); Develop facilities and programme, award incentives, encourage partnership national and internationally, ensure provision of budget allocation.
See ds and planting Materials, NAP-2010
Encourage private persons, companies and other agencies to undertake plant breeding programmes and to import breeder/ foundation seeds of notified crops for variety development and promotional purposes; Provide access to institutional credit for individuals, companies or agencies engaged in seed production and business, any individual, company or agency willing to embark upon breeding; Developing and registering new seed varieties, or package seed in labeled containers with the Seed Wing, MoA or the competent authority to be declared by the Government; Multiplication and distribution of seed support to public and private sector seed industries strengthening quality control of seed.
Fertilizer, NAP-2010
Continue procurement and distribution of fertilizers both in the private and the public sector; Maintain a fertilizer buffer stock at the regional, district and upazila level; Facilitate availability of quality fertilizers at farmers level, production, importation, marketing, distribution and use of any kinds of fertilizer that harmful or detrimental to plant, soil, flora and fauna will be banned; Strengthen analytical facilities to assess the quality of fertilizers, and Promotion of Organic Fertilizer and Balanced Fertilizer Use, and encourage use of organic manure, compost and bio-fertilizer at farmers level; Imparted training to farmers in using balanced fertilizers, strengthening fertilizer management, and Monitor supply, storage, price and quality of fertilizer at various levels. Irrigation, NAP-2010
Dissemination of water management technology to enhance irrigation efficiency and water productivity through optimal use of available water resources. Introduce modern
Dissemination of water handgenent technology to enhance inglation enterly and water productivity inforgin optimal use of available water resources, inforduce holden irrigation, drainage and water application systems through expanding irrigation coverage including difficult or disadvantaged areas i.e. in char, hilly, Barind tract, drought- prone and saline areas, meets the distance between two tube-wells safe extraction of groundwater and increase of irrigation efficiency; encourage and train private entrepreneurs and unemployed youths on operation, repair and maintenance of irrigation equipment, provide training of farmers and technical personnel on On-farm Water Management (OFWM) technology, strengthened to bridge knowledge gap as well as yield gap; monitoring activities of both quantity and quality of irrigation water and formulation pragmatic irrigation and water management plan, prepare and update ground water zoning map for judicious use of ground water resources.
Me chanization in Agriculture, NAP-2010
Develop research, manufacturing of agricultural machinery and equipment, support and incentives and training.
Agricultural Marketing, NAP-2010 Develop market infrastructure, market intelligence and extension services, and export and market promotion; create market regulation and facilitation and agri-business
Develop market market mengence and exclusion services, and export and market promotion, create market regulation and agricultures NAP-2010 Women in Agriculture, NAP-2010
Empowerment of women, participation in production and marketing, income generation and ensure budgetary allocation
Natural Resource Management, NAP-2010 Encourage generation and promotion of eco-friendly technology and sustainable land and water management for different agro-ecological zones and regions; Research thrust needs to be placed on weather and crop forecasting, climate change and disaster management; Conservation and effective use of life support system of soil, water, flora, fauna and atmosphere; Strengthen the efforts to collect, conserve and utilize genetic resources.
Agri-business Opportunity for Private Sector, NAP-2010 Provide technological support to private entrepreneurs and farmers to undertake agri-business activities; Create to expand local and overseas markets for agri-business opportunities; Provide Good Agriculture Practices (GAP) in production and in supply chain management; Strengthened Quarantine services to meet the needs of both domestic and export market.
Programme for Agro-ecologically Disadvantaged Regions, NAP-2010 Pursue programme for hilly area, drought-prone area, Barind tract, Char land, mongo-prone area, Haor-Baor and coastal belt with appropriate technological support. Measure will be taken to protect crops in the coastal, Haor, beel and char areas keeping harmony with other sub-sectors' production
Livestock Policy and Action Plan, 2005 Improvement of small scale poultry and dairy farming replicating CLDDP, reform of DLS, enforcement of low and regulations towards animal feeds, vaccines and privatization
of veterinary services adoption of breeding policy, and establishment of livestock insurance development fund and livestock credit food National Food Policy, 2004
Ensuring dependable food security system, adequate and stable supply of safe and nutritious food at affordable prices, increasing access and food purchasing power of people
 Agriculture and Rural Development section, PRSP, 2005 – Creation of enabling environment and plying supportive roles for intensification of major crops i.e. (cereals) diversification to high value non-cereal crops (i.e. fruits & vegetable).
- Development of non-crop enterprises (i.e. livestock, fishery, poultry), and promotion of rural non-farm economy, and outlining a policy matrix on future actions
New Agricultural Extension Policy (NAEP), 1996 Provision of efficient decentralized &demand led extension services to all types of farmers, training extension workers, strengthening research-extension linkage and helping environmental protection.
DAE-Strategic Plan, 1999-2002 Adoption of Revised Extension Approach, assessment of farmers' information needs, supervision, use of low or no cost extension methods, promotion of food and non-food crops, and mainstream gender and social development issues into extension service delivery.
Seed policy, 1993 - Breeding of crop varieties suitable for high-input and high output agriculture, multiplication of quality seeds, balanced development of public and private sector seed
enterprises, simplification of seed important for research & commercial purposes. Provision of training and technical supports in seed production, processing & storage monitor, control and regulate quality and quantity of seeds.
Seed Rules 1997 Delineation of rules and regulations regarding changing functions and of national seed board, registration of seed dealers, seed certification, marking truthful labels, and modalities of seed inspection.
ource: MP Annex 2 Agriculture, p. 7 - 11 (CEGIS estimation from DAE & BBS data, 2010)

Program	Objectives/Description	Target Area/Group	Technical Specifications	Basis for Estimation of Activity Requirement (tentative)
APSS	- allocation poset throat	Tim governeite Group		requirement (tenant (c)
Field Program - 1/2				
-1. Adaptive Trial (rice)	- To verify adaptability of new/recommended varieties, crops &	- Non-HILIP upazila	 Size of plot ≒ 0.1ha (0.25 acre) 	- 1 unit/1,000 ha of rice fields
A	farming technologies	- Progressive SFH's field 1/	- 1 cropping season (boro season)	
	- Target crop: boro rice	- Farmer Research Group (FRG)	- Field days x 3 times x 25 farmers	
	new variety (short/cold tolerant etc.)	(1 leader + 4 members)		
1-2. Adaptive Trial	- To verify adaptability of new/recommended varieties, crops &	- Non-HILIP upazila	- Size of plot $= 0.1$ ha (0.25 acre)	- 1 unit/2,000 ha of rice fields
(upland crops/vegetables)	farming technologies	- Progressive SFH's field 1/	- 1 cropping season (boro season)	
	- Target upland crop: pulses, oil seeds, cereals	- Farmer Research Group (FRG)	- Field days x 3 times x 25 farmers	
	- Target vegetables: short growth duration crops	(1 leader + 4 members)		
	- cabbage, kangkong, sweet gourd etc.	· · · · · ·		
1-3. Adaptive Trial/	- To verify adaptability of double cropping	- Non-HILIP upazila	 Size of plot ≒ 0.1ha (0.25 acre) 	- 1 unit/3,000 ha of rice fields
Cropping Pattern	- Target crop: boro rice + non-rice	- Progressive SFH's field 1/	- 2 cropping seasons (rabi & boro season)	
(rice + non-rice)		- Farmer Research Group (FRG)	 Field days x 3 times x 25 farmers 	
		(1 leader + 4 members)		
1.4. Demonstration Plot (rice)	-	- Non-HILIP upazila	- Size of plot \Rightarrow 0.1ha (0.25 acre)	- 1 unit/300ha of rice fields
(0.25 acre/0.1ha)	Demonstration of area specific farming technologies for rice	 In rice fields where paddy yield is still low (< 	- 1 cropping season	
(0.12 1.112 0.1112)	- Target crop: boro rice	4.0 t/ha)	- Field days x 2 times x 25 farmers	
		- Progressive SFH's field 1/		
		- Common Interest Group (CIG)		
		(1 leader + 4 members)		
1.5. Demonstration Field (rice)		- Non-HILIP upazila	 Size of plot ≒ 0.4ha (1.0 acre) 	- 1 unit/900ha of rice fields
(1.0 acre/0.4ha)	Demonstration of area specific farming technologies for rice	- In rice fields where paddy yield is still low (<	- 1 cropping season	
	- Target crop: boro rice	4.0 t/ha)	- Field days x 2 times x 25 farmers	
	Ç. I.	- Progressive SFH's field 1/		
		- Common Interest Group (CIG)		
		(1 leader + 14 members)		
1.6. Demonstration Area (rice)	- Area demonstration of area specific farming technologies for	- Non-HILIP upazila	 Size of plot ≒ 4ha (.0 acre) 	- 1 unit/2,500 ha of rice fields
(10 acre/4ha)	rice	 In rice fields where paddy yield is still low (- 1 cropping season	
	- Target crop: boro rice	4.0 t/ha)	- Field days x 2 times x 50 farmers x 2 sites	
		- Progressive SFH's field 1/		
		- Common Interest Group (CIG)		
		(1 leader + 14 members)		
1.7. Demonstration Plot	- Demonstration of area specific farming technologies for	- Non-HILIP upazila	 Size of plot ≒ 0.1ha (0.25 acre) 	- 1 unit/1,500 ha of rice fields
(upland crop & vegetables)	upland crops & vegetables	- Progressive SFH's field 1/	- 1 cropping season	
(0.25 acre/0.1ha)	- Target upland crop: pulses, oil seeds, cereals	- Common Interest Group (CIG)	- Field days x2 times x25 farmers	
. ,	- Target vegetables: short growth duration crops	(1 leader + 4 members)		
	- cabbage, kangkong, sweet gourd etc.			
1.8. Cropping Pattern		- Non-HILIP upazila	- Size of plot = 0.1ha (0.25 acre)	- 1 unit/2,000 ha of rice fields
Demonstration	Demonstration of double cropping of rice & non-rice crop	- Progressive SFH's field 1/	- 2 cropping seasons (rabi & boro season)	
(0.25 acre/0.1ha)	- Target crop: boro rice + non-rice	- Farmer Research Group (FRG)	- Field days x4 times x25 farmers	
		(1 leader + 4 members)		
1.9. Water Management	- Demonstration of on-farm water management for & area	- Non-HILIP upazila	 Farm size of plot ≒ 8ha (20 acre) 	- 1 unit/3,000 ha of rice fields
Demonstration	specific farming technologies for rice	- Fields in the same irrigation command area	- 1 cropping season(boro season)	
(20 acre/8ha)	- Target crop: boro rice	- WMG	- Field days x2 times x 50 farmers x2 sites	1

Table

Program Description of APSS & SIGS - 1/4

Agriculture Promotion Appendix 5

Program	Objectives/Description	Target Area/Group	Technical Specifications	Basis for Estimation of Activity Requirement (tentative)
Field Program - 2/2				
1.10. IPM FFS/ICM FFS (rice)				- 1 unit/2,000 ha of rice fields
- IPM FFS (rice)	To adopt agronomic/biological control method of pests &	- Non-HILIP upazila	- 10 sessions, 25 farmers	
	diseases in which appropriate use of chemicals practiced;	- Area suffered from serious crop losses from	 Demonstration field size ≒0.3 ha 	
	through establishing field schools	pest/disease	- 1 cropping season(boro season)	
	- Target crop: rice	- Common Interest Group (CIG)	- 25 participants x 10 times (training at field	
		(1 leader + 24 members)	schools)	
- ICM FFS (rice)	- To adopt Integrated Crop Management (ICM) practices	- Non-HILIP upazila	- 8 sessions, 25 farmers	1
	through establishing field schools	- In rice fields where paddy yield is still low (<	 Demonstration field size = 0.3 ha 	
	- Target crop: rice	4.0 t/ha)	- 1 cropping season(boro season)	
		- Common Interest Group (CIG)	- 25 participants x 8 times (training at field	
		(1 leader + 24 members)	schools)	
1.11. Seed Multiplication	⁻ Establishing paddy seed growers group of 5 ha for ensuring	- Non-HILIP upazila	- Size of plot \Rightarrow 0.1ha (0.25 acre)	- 1 unit/1,000 ha of rice fields
	e Establishing paddy seed growers group of 5 ha for ensuring quality seed supply in the Project Area	 Progressive farmers in sub-project 	- $25 \text{ farmers } x 0.1\text{ha} = 2.5 \text{ ha/unit}$	
	- Supporting seed growers for 1 crop	- 1 cropping season	- 1 day inception training	
	- Contract seed growing wit seed dealers envisaged	r cropping season	 Field inspection by SA staff or UAO 	
112	- Visit to problem areas by a team composing of researchers &	- All sub-project areas; targeted to problem	- 1 visit/cropping season	- 2 units/year x 6 years = 12 times
1.12. Research-Extension-Farmer	extension staffs to identify problems, solution or program	areas in rice cultivation	- 20 participants	- 2 units/year x o years = 12 times
Dialog	needs to solve the problems		* *	
E	-		- 3 days	
. Farmer Training Program - 1/2				
2.1. Farmer Training Program		- Non-HILIP upazila		
2.1.1 Farmer Training	- Training of representatives of farmers/farmer groups in class	- Representatives of farmers/farmer groups in	- 1 course 25 participants	- 1 unit/800 ha of rice fields
- 3 days course	or practical training	the sub-project areas	- 3 & 5 days per course	
- 5 days course	- Main subjects: (depending on needs of target groups)	- Progressive SFH 1/	 Avoiding busy cropping season 	
	* Farming practices, water management, compost making, on- farm water management, group management, farmer			
	organization, marketing, farm machinery operation etc.			
2.1.2. Study Tour/Exchange Visit	- Visit to advanced farming areas or communities in haor areas	- Representatives of famer groups, WMGs &	- 25 participants/tour	- 4 units/Project x 5 years = 40 units
	or else to learn farming practices/operations, irrigation O&M, management of farmer organization, marketing etc.	other CBOs in whole Project Area	- 1 day	
	hanagement of famer organization, marketing etc.			
. Farmer Training Program - 2/2				
2.1. Farmer Training Program				
2.1.3 Mass Guidance /Campaign	- Mass guidance/campaign on specific subjects by upazila or	- Non-HILIP upazila	- Guidance, campaign, workshop by upazila or	- 1 unit/1,000 ha of rice fields
/Workshop	sub-project, on need basis	- Project beneficiaries by upazila or sub-project	sub-project area	
	* Subject: integrated rat control integrated rest control		- 1 day per guidance / campaign / workshop	
	Subject: integrated rat control, integrated pest control, cropping schedule, planning of extension programs etc.		 No. participants ≒ 40 & 80 	
	eropping seneduce, paining of exension programs etc.			
	* Workshop for preparation of Annual Work Plan (AWP)			
2.1.4 Agriculture Fair	- Exhibition of agricultural products, appropriate agriculture	- Fair will be held at selected project district HQ	- 4 times during project period.	- 2 units/year x 6 years = 12 times
	practices introduced and the Project activities in the project	- Presentation by project benefited farm	(at Sunamuganj, Habiganj, Netrakona,	
	upazilas to promote the promotion of agriculture sector	households & farmer organizations expected	Kishoregonj)	
	production.		- Fair held for 3 days in a district HQ	
	- Exhibition of crop, livestock, fishery sub-sector products,			
	production practices & Project activities.		1	

Table

Program Description of APSS & SIGS - 2/4

Preparatory Survey on Upper Meghna River Basin Watershed Management Improvement Project

Final Report

Program	Objectives/Description	Target Area/Group	Technical Specifications	Basis for Estimation of Activity Requirement (tentative)
2. Farmer Training Program - 2/2	• -j			
2.2. Empowerment of Existing Farmer Organizations (FO)	 To provide guidance to representatives of existing farmer organizations and to assist them in activation of their organizations 	 Non-HILP upazila Executive members of existing farmer organizations 	 Operated by NGO facilitators 1 course 25 participants Training: 5 days (25 participants) 	- 1 unit/600 ha of rice fields
	 Training of executive members on group management, leadership, financial issues, marketing, etc. Provision of continues guidance & monitoring 	 5 executive members x 5 FOs = 25 participants Training subject: group management, book keeping, group marketing/purchasing, cooperatives etc. 	 Follow-up guidance 1day x 10 times Training subject: group management, book keeping, group marketing/purchasing,, cooperatives etc. 	
2.3. Formation & Empowerment of Farmer Organizations (FO)	 To support formation of farmer organizations and to assist activation of the organizations through continuous guidance Training of executive members on group management, leadership, financial issues, marketing, etc. Provision of continues guidance & monitoring 	 Non-HILP upazila Target organization: formation of 5 new FOs 5 executive members x 5 FOs = 25 participants Training subject: group management, book keeping, group marketing/purchasing, cooperatives etc. 	 Operated by NGO facilitators 1 course 25 participants Training: 5 days (25 participants) Follow-up guidance 1day x 10 times Training subject: group management, book keeping, group marketing/purchasing, cooperatives etc. 	- 1 unit/600 ha of rice fields
3. Field Staff Empowerment Program	n			
3.1. Induction Training of Field Staff	 Induction training of project field staff & related field staff (SAAOs etc.) on the agriculture promotion & livelihood improvement sub-component of the Project 	- Field staff deployed in the Project Area	 1 course 25 field staff 5 days per course Training held at district HQ 	- 9 unit/1st year
3.2. Refresher Training of Field Staff	 Induction training of project field staff & related field staff (SAAOs etc.) on the agriculture promotion & livelihood improvement sub-component of the Project 	- Field staff deployed in the Project Area	 1 course 25 field staff 3 days per course Training held at district HQ 	- 9 unit/year x 5 years = 45 units
3.3. Study Tour/Exchange Visit	 Visit to advanced farming areas or communities in haor areas or else to learn farming practices/operations, irrigation O&M, management of farmer organization, marketing etc. 	- Field staff deployed in the Project Area	 - 25 participants/tour - 3 days 	- 1 unit/year x 6 years = 6 units
4. Farm Machinery & Facility Supp	net.			
4.1. Farm Machinery Hiring Services	 Strengthening of farm machinery hiring services to mitigate shortage of farm machinery in the sub-project areas by establishing farm machinery hiring services operated by a group of farmers Formation of machinery hiring service group (MHSG) Training of group members Provision of machinery hiring services by MHSGs Pilot operation for the initial 3 years 	 All sub-project areas Project upazilas where mechanization of land preparation & threshing is still limited. Machinery Hiring Services Group (MHSG) 5 members (1 leader + 4 members) 	 2 MHSGs/unit Basic allocation of machinery/MHSG Power tiller 5 units & power thresher 5 units Group training: 2 weeks Training subject: Operation & maintenance, book & record keeping, hiring services management, group management, etc. 	 Based on preliminary need assessment of project upazilas conducted by survey Team 3/ 1st priority upazila: 1 unit/2,000ha Ind priority upazila: 1 unit/4,000ha
4.2. Construction of Community Drying Floor & Seed Storage Facility	 Construction of seed drying floor & storage facility in farm land area for community use to support quality seed preservation for next cropping Primary users of the facilities are marginal farm households Drying floor is for drying paddy preserved for seed only 	 All sub-project areas Project upazilas where elevated community land for the subject facility is available in the project benefitted farm land area 	 Scale depending on availability of elevated land free from seasonal flood Drying floor 50m2 & storage 20m2 	- 1 unit/3,000 ha of rice fields
5. Technology Development Program				
5.1. Field Trial on New Rice Varieties	Simple trial on new rice varieties prior to adaptive trial implemented by research institute Primary target crop: boro rice	 Typical haor areas 2 trial sites in the Project Area 1 site each for: 	 Specification of trial site located close to all-weathered road 5 years 	 2 trial sites 1st year: site selection/operation 2nd to 6th year: operation
	- Operation supported by UAOs/SAAOs 2/	- Lowland & very lowland		
5.2. Field Trial on Non-rice Crops	 Simple trial on non-rice crops prior to adaptive trial implemented by research institute Target crop: promising upland crops & vegetables in each target haor land type 	 Typical haor areas 1 trial site in the Project Area 	 Specification of trial site located close to all-weathered road 5 years 	 1 trial site 1st year: site selection & operation 2nd to 6th year: operation

TableProgram Description of APSS & SIGS - 3/4

Agriculture Promotion Appendix 5

Program	Objectives/Description	Target Area/Group	Technical Specifications	Basis for Estimation of Activit Requirement (tentative)
IGS (Small-scale Income Gene	ration Sub-component)			
Floating Bed Vegetable Culture Scheme	Provision of floating bed making materials & farm inputs for supporting income generation of the target households.	 Non-HILIP upazila Selection of target upazila: Based on results of preliminary needs assessment by UAOs 3/ Marginal farm households, poor female headed farm households & agriculture labour households 	 I unit: 3 CIGs x8 member/CIG = 24 FHH 4/ Formation of CIGs 2 days training & field guidance 1 bed/member (W 2m x L 6m x H 1.5m) 	 No. of marginal farm household 5%/24 beneficiaries per unit In total of 280 units/Project Scheme selection: Based on preliminary need assessment of project upazilas conducted by survey Team 3/
Small-scale Vegetable Production Support Scheme	 Provision of farm inputs & fencing materials for supporting income generation of the target households. 	 Non-HILIP upazila Selection of target upazila: 	 I unit: 3 CIGs x8 member/CIG = 24 FHH 4/ Formation of CIGs 1 day training & field guidance 	
benefik	 Use of newly constructed platforms under the Project to be selected as target sites of the scheme, if practical 	Based on results of preliminary needs assessment by UAOs 3/	 Plot size: 1 decimal (40m2)/FHH 	
		 Marginal farm households, poor female headed farm households & agriculture labour households 		
Fruit Production Support Scheme	 Provision of fruit saplings, farminputs & fencing materials for supporting income generation of the target households. 	 Non-HILIP upazila Selection of target upazila: Based on results of preliminary needs assessment by UAOs 3/ 	 I unit: 3 CIGs x8 member/CIG = 24 FHH 4/ Formation of CIGs 1 day training & field guidance Candidate fruits & No. of seedlings/FHH 	
		 Marginal farm households, poor female headed farm households & agriculture labour households 	 Jujube (Ziziphus Mauritian): 5 saplings Litchi: 5 saplings Guava: 5 saplings (other fruits: morina & mandarin orange) 	
Micro Poultry Raising Scheme	 Provision of a package of chicks or ducklings, poultry shed making materials & feed for supporting income generation of 	 Non-HILIP upazila Selection of target upazila: 	 I unit: 3 CIGsx8 member/CIG = 24 FHH 4/ Formation of CIGs 	
	the target households.	Based on results of preliminary needs assessment by UAOs 3/	2 days training & field guidanceChicken & duck support package:	
		 Marginal farm households, poor female headed farm households & agriculture labour households 	Chicken: (1♂ ⁷ + 9 chicks)/package/FHH Duck: (1♂ ⁷ + 9 ducklings)/package/FHH	
Small-scale Mushroom Culture Scheme	 Provision of mushroom spoon packet & culture materials for supporting income generation of the target households. 	 Non-HILIP upazila Selection of target upazila: 	 I unit: 3 CIGs x8 member/CIG = 24 FHH 4/ Formation of CIGs 	
	supporting meeting generation of the target nousellolus.	Based on results of preliminary needs assessment by UAOs 3/	3 days training & field guidanceMushroom support package/FHH:	
		 Marginal farm households, poor female headed farm households & agriculture labour households 	 Mushroom spoon packet Mushroom shelve materials 75 wooden spoons & 40 straw spoons/FHH 	

1/: SFH - small farm household 2/: SAAO = Sub-assistant Agriculture Officer, UAO = Upazila Agriculture Office 4/: CIG = Common Interest Group, FHH = farm households 3/: Results of preliminary need assessment questionnaire survey on program/activity under APSA & SIGA by major project upazilas carried out by JICA Survey Team in July, 2013

Table

Program Description of APSS & SIGS - 4/4

Source: Prepared by JICA Survey Team

Final Report

New ID	Sub-project	District	Upajila	HILIP or Not	Total Upazila Area	Project Area	Boro Cropped Area (ha)	Boro Cropped Rice Area per Farm Household	Bom Rice HYV Yield (t/ha)	No. of Power Tiller	Boro Cropped Area/Power Tiller	No. of Power Thresher	Boro Cropped Area/Power Thresher	No. of SAAOs	Boro Cropped Area/SAAO (1,000ha)
	bilitation Projects Dampara Water Management Scheme	M M	Dhobaura Haluaghat Phulpur Durgapur	N N N	25,224 35,477 56,784 28,125	21 2 3,776 5				724	25	- - - 400		- - - 11	1.6
R-2	Kangsha River Scheme	N N	Purbadhala Netrokona Sadar	N N	31,770 33,465	11,199 6,061	22,217 21,933	0.5 0.6	4.0 4.0	1,059 985	21 22	894 910	25 24	28 38	
R-3	Singer Beel Scheme	N N N	Purbadhala Barhatta Kadhakanda	N N	31,770 23,052 38,502	5,277 6,976 224	22,217 14,273 19,167	0.5	4.0 3.9	724 468 601	31 30	400 586 627	56 24	28 15	1.0
R-4	Baraikhali Khal Scheme	K	Dharampasha Hossainpur Kishoreganj Sadar Nandail	N N N	50,085 11,921 18,962 32,898	5,989 2,309 369	30,103 7,283 8,413	0.3	3.9 4.1	420 480	80 17 18	410 495	18 17	20 37	0.4
R-5	Aladia-Bahadia Scheme	Κ	Pakundia	Ν	17,634	2,464	8,437	0.2	4.0	420	20	470	18	32	
R-6	Modkhola Bhairagirchar Sub-project Scheme	0	Katiadi Pakundia Manohardi	N N N	22,135 17,634 19,555	1,416 633 11	12,428 8,437	0.4	4.0	435	29 20	400 470 -	31	22 32	-
R-7 R-8	Ganakkhalli Sub-Project Scheme Kairdhala Ratna Scheme	K H H S	Kuliar Char Ajmeng anj Banlachong Deras	N H H H	10,292 18,438 49,627 40,639	2,652 9,236 2,657	6,967 20,313 41,227 27,147	0.3	4.0	440 344) 968 1,155	16 60 43 24	488 352 1,277	14 58 32	20 25	2.3 1.6
R-9	Bashira River Scheme	H H K	Appingan Appingan Baniachong Mithaman	n H H H	40,3339 18,438 49,627 22,548	1,673 906 1,942	20,315 41,227 16,823	1.4 1.9 1.4 1.2	3,6 3,8 4,2	340 968 500	50 60 41 34	352 1,277 570	58 32 30	25 13	23 1.6 1.3
R-10	Aralia Khal Scheme Chandal Beel Scheme	H	Baniachong	H	49,627 30,534	1,501 1,012	41,227 9,573	1.4 (1.3	3.8 4.0	968 170	46 56	1,277	32	<u>25</u> 25	1.6 0.3
R-11 R-12	Satdona Beel Scheme	B	Banchharampur Banchharampur	H	20,524	1,012 4,988	9,573 9,573	0.3	на. 4.0	170	>0 56	590 590	16	28 28	
R-13	Gangajuri FCD Sub-Project	H H H H	Homna Bahubal Bahukchong Chunarughat Habiganj Sadar	N N N N N	12,917 26,467 49,627 48,093 24,091 43,355	60 12,438 0 6,485	9,707 41,227 9,627 13,000	0.5 14 0.3 0.5 0.8		453 968 350 374	21 28 28 35 32	497 1277 125 451	- 20 32 77 29	12 29 21	0.3 0.6
R-14	Khaliajuri FCD Polder-2	Ν	Nabiganj Khaliajuri	H	29,038	1,496 6,295	21763	1.5	42	683 480	39	632 250	34	19	27
R-15	Khaliajuri FCD Polder-4	K N	Sulla Itica Khubajuri Madan	N H H H	26,360 38,579 29,038 23,018	315 84 4,847 2,270	21,867 28,323 18,520 16,570	1.7 1.7 1.5 0.7	3.9 4.2 4.2 4.1	539 400 480 569	41 71 39 29	490 250 619	- 58 74 27	12	3.6 24 3.7 24
Now	Construction		Rehabilitation '	Total	1,145,860	107,621	626,325			18,426		17,426		622	1.0
	Naogaon Haor Project		lina Karinganj Mithaman Nikli	H N H	38,579 20,259 22,548 18,592	2,375 933 1925 1,871	28 323 10,413 16,823 15,310	17 0.3 1.2 1.0	42 4.1 4.2 4.2	400 430 500 580	71 24 34 26	490 380 570 520	58 27 30 29	12 35 13	0.3
N-1.	Boro Haor Project (Nikli)		Karinganj Katiadi Kishoreganj Sadar Nddi	N N N	20,259 22,135 18,962	2,847 2,990 866	10,413 12,428 8,413	0.3 0.4 0.3	4.1 4.0 4.1	430 435 480	24 29 18	380 400 495	27 31 17 29	35 22 37	0.6
	Jaliar Haor Project Chandpur Haor Project	S K	Chhatak Katiadi	H N	43,363 22,135	2,466 2,294	8 949 12,428	0.3	2.9 4.0	488 435	29	400	31	22	
	Dharmapasha Rui Beel Project	N N	Nikli Barhatta Kalinakanda Mohangati Thana Dhacangasha	H N H H	18,592 23,052 88,502 24,073 50,085	3,989 0 10 17,565	15,310 14,273 19,167 13,400 30,103	1.0 0.6 0.8 0.7 1.2	42 3.9 3.9 4.0 3.4	5880 468 601 335 375	26 30 32 40 80	520 586 627 465	31 29 24 31 29	15 15 16	1.0
N-6.	Sunair Haor Project	K	Tarail Kendua	N N	14,266 30,439	3,050	10,198 20,697	0.6	4.1 4.0	337 515	30 40	475 815	21 25	20 33	0.5
	Badla Haor Project	K	ltna Tarail	H N	38,579 14,266	1,504 0	28 323 10,198	1.7 0.6	4.2 4.1	400 337	*1 30	490 475	58 21	20	0.5
	Nunnir Haor Project	K K	Bajitpur Katiadi Mili	N N H	18,960 22,135 18,592	1,386 278 4 147	12,645 12,428	0.5	4.1 4.0	550 430	23 29 26	450 380 520	28 33 29	31 22	0.6
N-9.	Dakhshiner Haor Project	K K	ltna Mahaman	H H	38,579 22,548	L,553 930	28,323 16,823	17	4.2 4.2	400 500	71	490 570	58 30	12	
N-10.	Chatal Haor Project	K	hna Tarail Madan	H N H	28,579 14,266 23,018	588 228	28, 323 10,198 16,570	1.7 0.6 0.7	4.2 4.1 4.1	400 337 569	71 30 29	490 475 619	58 21 27	11 20	24 0.5
N-11.	Ganesh Haor Project	N	Atpara	N	18,886	1,690	11,557	0.6	4.0	275	42	276	42	15	0.8
N-12.	Dhakua Haor Project	N S S	Madan Dakshin Senanganj Jamalganj Sunamganj Sadar		23,018 30,649 33,198 27,824	1,399 1,347 176 2,902	16,570 19,647 20,050 13,193	0.7 1.2 0.9 0.7	4.1 2.6 3.1	569 480 540 278	29 41 37 47	619	27	6	24 33 25
N-13.	Mokhar Haor Project	H H	Amangan Suaa Amangan Baniachong Nabiganj	H H N	49,627 43,355	4 347 3,714	20,313 41227 21763	1.9 1.4 0.8	3.6 3.8 3.5	4/6 340 968 683	60 43 32	352 1 277 632	58 32 34	14 25 19	2.3 1.6
N-14.	Noapara Haor Project	Κ	Austagram Karinganj Nakli New Constru	N N H	40,050 20,259 18,592 1,007,852	3,714 36 15 3128 77,855	25,795 10,413 15,310 656,937	0.3	4.1 4.2	430 18,165	32 47 24 26	450 380 520 17,108	27 29	35 673	2.6 0.3 1.0

Source: Project district DAOs (District Agriculture Office)

Appendix	
5.17-1	

Table Results of Preliminary Needs Assessment of APSS & SIGS by Project Upazilas - 1/2

																		Re	sults o	f Preliı	minary	Need A	ssessi	ment or	APS	& SI	GA										
										n -r			=									m eı						60 E			50		i !			=	
										(plot, rice/non-			Water management demonstration						п		farmer	em powermen tof farme s					u	under revolving	86 66	sa	drying	s	i 1			Floating bed vegetable cultivation	i i
										rice			stra						aig		farr	t o l				r	1 si o	revo	:0 ra	vice	y d	e ti e	s	0.11		ltiv	
									()	lot,	(field)	(are a)	u o u					isit	c am p a ign			nen			isit	fo1	extension	er	d st	hiring services	ilit	new rice varieties	rop	l d n		сп	i.
									rice	d	(fi	(a1	den					e v	l ca		ent of existing ns	verr			ev	ing	d e)	nn	see	00 11	fac	ce v	cec	8 U 0	60	ble	
								ce)	- U 0	ion	ion	ion	ent			ion		ang	ield		fex	wod	0.0		ang	h en ie s	fiel	oly.	ple	hiri	c o n a g e	v nj	iù -	ctic	raising	eta	
								l (ri	l (n	trai	trat	trat	e m (c at	n g	cha	ce/f	fair	t 0.	em	nin	50 11	cha	n gt i v i l	of field	l d n	E	e ry	of	nev	10	npo	y ra	veg	1
								Adaptive trial (rice)	Adaptive trial (non-rice)	Field demonstration	Field demonstration	Field demonstration	lag			Seed multiplication	Farmer Training	Study tour/exchange visit	M ass guidance/field	re fa	Empowermen organizations	- xo	Inception trainin,	Annual training	Study tour/exchange visit	Logistics strengthening extension activities	Construction office	inputs supply gement	Provision of simple seed storage container	machinery	Construction of community floor & seed storage facility	Field trial on	Field trial on non-rice crops	Vegetable production support	p o u ltry	ed	1
					or Not			ve	ve	e m	e m	e m	maı	S	FS	ult	T	tou	uid	A gri cu ltu re	veri zati	Formation or contraction of the second secon	0.0	1 tra	tou	ics ion	u ct	ndu	ion ler	a c	u ct : se	rial	rial	ble	10 d	6	0
			÷		01	Total		a p ti	a p ti	ld d	ld d	ld d	ter	IPM FFS	IC M FFS	m p	meı	d y	ss g	icu	p o v a n i	m al a n i	epti	n u a	d y	gist ens	n s tr c e	i u	visi taii	u u	n str or &	ld t	Id t	geta	Micro	atir	
New	Old		District		HILIP	Upazila	Project	A da	A da	Fie	Fie	Fie	W a	IPN	IC N	See	Far	Stu	M a	A gı	Em org	For org	Inc	A ni	Stu	Log ext	C of	Farm	Pro	Farm	C of	Fie	Fie	Veg	Mie	Flo	
ID	ID	Sub-project	Dis	Upajila	ΗI	Area	Area	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8		2.1.1	2.1.2	2.1.3	2.1.4	2.2	2.3	3.1.1	3.1.2	3.1.3	3.2	3.3	4.1	4.2	5.1	5.2	6.1	6.2	1	2	3	
		tion Projects																																\square			Τ
R-1	R1	Dampara Water Management Scheme		Dhobaura	N		21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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R-2	R2	Kangsha River Scheme	N	Netrokona Sadar	N	33,465	6,061	2	4	2	1	1	4	4	4	1	1	1	4	4	1	1	1	1	1	1	4	3	1	2	4	1	1	1	1	4	
D 2	D 2	0° D 10 1	N		N		5,277	1	1	2	1	3	2	1	1	2	1	1	2	1	2	1	1	1	1	1	1	1	2	1	2	1	2		1	1	+
K-3	R3	Singer Beel Scheme	N N	Barhatta Kalmakanda	N H	23,052 38,502	6,976 224	4	4	2	4	3	2	3	2	1		2	2	4	2	1	2	3	1		1	2	2	1 2	2	1	2	1		2	
			S		H H		224	4	4	4	4	4	2		1	1	1	2	2	4	2	1		3 1	1	1	1	2	1	2	1	1	1	1	4	4	
R-4	R/I	Baraikhali Khal Scheme	K		N		5,989	1	1	1	1	3	1	2	2	1	1	2	1	1	2	2	1	1	1	1	1	2	1	2	1	1		1	4	4	+
IX-44	K4	baraikitali Kitai Schenie	K		N		2,309	1	1		1	1		1		1	1	1	1	3			1	1	1	1	3	2	2	3	1	1	1	1		1	
			M		N		369								1										-		-										
R-5	R5	Aladia-Bahadia Scheme	K		N		2,464	1	1	2	2	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	+
R-6		Modkhola Bhairagirchar Sub-project	K	Katiadi	N		1,416	1	2	1	1	2	1	2	1	1	1	1	1	3	1	1	1	1	1	1	1	2	1	3	2	1	2	1	1	1	t
		Scheme	K		N		633	1	1	2	2	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	-
				Manohardi	N		11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.00000
R-7	R7	Ganakkhalli Sub-Project Scheme	K	Kuliar Char	Ν		2,652	1	2	1	2	1	1	1	1	2	1	2	1	4	2	1	1	1	1	1	1	1	1	1	1	1	2	1	4	1	Τ
R-8	R8	Kairdhala Ratna Scheme	Н		H		9,236	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	1	1	1	_
			Н		H		2,657	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	1	2	1	2	1	1	
			S		H		7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	μ÷IJ	Ŀ	-	-	_
R-9	R9	Bashira River Scheme	Н		Н		1,673	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	1	1	1	
			H		H		906	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	1	2	1	2	1	1	
D 10	D 10	A 1. 10 1	K		H		1,942	1	3	2	2	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	2	1	2	2	1	1	1	1	1	_
R-10 R-11	R10	Aralia Khal Scheme Chandal Beel Scheme	H	<u>e</u>	H		1,501 1,012	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	1	2	1 2	2	2	1	+
		Satdona Beel Scheme	B		H		4,988	1	2	1	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	2	1	1	1	1	2		2	1	+
K-12	K12	Satuona Beer Schene	000000000		N		4,988	-	-										-			-	-	1	-											-	
2-13	R15	Gangajuri FCD Sub-Project	_	Bahubal	N		12,438	-	-		-				-				-		-	-		-		-				-			μ	H	H		╈
	NIJ	Gangajuni CD Sub-110jeet	200000000	Baniachong	H		22,430	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	1	2		2	1	1	
				Chunarughat	N		0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	<u> </u>	-	-	-	2004
				Habiganj Sadar	N		6,485	2	1	2	2	3	2	3	3	2	2	2	2	2	2	2	1	1	1	1	1	2	2	1	1	2	2	1	1	1	-
			Н		N		1,496	1	2	1	2	4	4	1	1	2	1	1	2	2	2	3	1	1	1	1	1	1	1	1	1	1	2	1	2	1	T
R-14	R20	Khaliajuri FCD Polder-2		Khaliajuri	Н		6,295	1	4	1	1	2	3	2	1	1	1	1	1		2	1	1	1	1	1	1	1	1	1	1	1	3	2	1	1	T
				Sulla	N		315	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Τ
R-15	R21	Khaliajuri FCD Polder-4		İtna	H		84	1	1	1	1	1	1	1	1	2	1	1	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	Τ
				Khaliajuri	H		4,847	1	4	1	1	2	3	2	1	1	1	1	1		2	1	1	1	1	1	1	1	1	1	1	1	3	2	1	1	
			Ν	Madan	H	23,018	2,270	1	2	1	2	4	4	3	4	1	1	3	4	2	1	1	1	2	3	1	1	3	1	1	1	1	2	1	1	2	
						ation Total	107.621																					1	1				. 7	1 1	1 1	1	

Nippon Koei Co., Ltd.

A5.17 - 1

Source: Results of preliminary needs assessment on APSS & SIGS conducted by JICA Survey Tear

Appendix 5.17-2

Table Results of Preliminary Needs Assessment of APSS & SIGS by Project Upazilas - 2/2

							ļ											Re	sults o	f Prelin	ninary.	Need A	ssessn	nent on	APSA	a & SIG	A										_
New ID	Old ID		District	U3.	HILIP or Not	Total Upazila Area	Project Area	Ξ Adaptive trial (rice)	🔂 Adaptive trial (non-rice)	🕁 Field demonstration (plot, rice/non-	🕂 Field demonstration (field)	🕁 Field demonstration (area)	91 Water management demonstration	1.7 IbM FFS	c ICM FFS	G Seed multiplication	7 1. Farmer Training	Study tour/exchange visit	🖓 Mass guidance/field campaign	ılture fair	ia ii	by Formation & empowerment of farme		3.1.2	Study tour/exchange visit	ug then in vities	ruction of fiel	ats supply unde ent	Provision of simple seed storage container	🗠 Farm machinery hiring services	G Construction of community drying	P. Field trial on new rice varieties	S Field trial on non-rice crops	 Vegetable production support 	 Micro poultry raising 	 Floating bed vegetable cultivation 	
		Sub-project struction		Upajila		Aica	Alca	1.1	1.2	1.5	1.4	1.5	1.0	1.7	1.0	1.9	2.1.1	2.1.2	2.1.5	2.1.4	2.2	2.3	5.1.1	5.1.2	3.1.3	3.2	3.5	4.1	4.2	3.1	5.2	0.1	0.2	1	2	3	+
		4 Naogaon Haor Project	K K	Karinganj Mithaman Nikli	H N H	38,579 20,259 22,548 18,592	2,375 933 3,925 1,871	1 1 1	1 2 3 2	1 1 2 2	1 1 2 2	1 1 2 3	1 1 1 2	1 1 1 3	1 1 1 3	2 1 1 2	1 1 1 1	1 1 1	1 1 1 2	4 2 1 2	1 2 1 3	1 1 2 3	1 1 1 1	1 1 1 1	1 1 1 2	1 1 1 1	1 1 1 1	1 1 2 1	1 2 1 2	1 2 2 1	1 1 2 1	1 1 1	1 1 2	1 1 1	1 3 1 1	3 2 1 1	
N-2	N7	Boro Haor Project (Nikli)		Katiadi Kishoreganj Sadar	N N N	20,259 22,135 18,962	2,847 2,990 866	1	2 2 1 2	1	1 1 2	1 2 1	1 1	1 2 1	1	1 1 1 2	1 1 1	1	$\frac{1}{1}$ $\frac{1}{2}$	2 3 3 2	2 1 1	1	1 1	1 1	1	1 1 1 1	1 3	1 2 2	2 1 2	2 3 3	1 2 1	1	1 2 1 2	1	3	2 1 1	
N-3	N23	3 Jaliar Haor Project		Nikli Chhatak	H H	18,592 43,363	2,443	1	2	2	2	3	2	3	3	2	1	1	2	2	3	3	1	1	2	1	1	1	2	2	1	1	2	1	4	1	_
		Chandpur Haor Project	K	Katiadi Nikli	N H	22,135	2,400	1	2	1 2	1 2	2	1 2	2	1 3	1 2	1	1	1 2	3	1 3	1 3	1	1	1 2	1	1	2	1 2	3	2	1	2	1	1	1	-
N-5	N2	Dharmapasha Rui Beel Project	N N N	Barhatta Kabnakanda Mohangan Thana	N H H	23,052 38,502 24,073	3,989 0 10	1 4 -	4	2 1 4 -	2 1 4	4 4 -	2 4	3 1 3 -	1 2 -	1	1 1 -	1 2	3	2 1 4	1	3 1 1	1 1 2 -	1 1 3 -	2 1 1 -	1 1 -	1 1 -	1 2 -	2 1 1 -	2	1 3 1 -	1 1 -	4	1	1	1 2 -	
N-6	N26	5 Sunair Haor Project		Dharampasha Tarail	H N	50,085 14,266	17,565 3,050	1	1	1	-	3	2	1	-	1	-	2	2	-	2	1	1	1	1	1	1	1	1	2	1	1	1	1	4	4	Ŧ
		Badla Haor Project	N	Kendua Itma	N H	30,439 38,579	844 1,504	-	-	-	-	-	-	-	-	-	-	-	-	- 4	-	-	-	-	- 1	-	-	-	-	-	-	-	-	-	-	-	1
			K	Tarail	Ν	14,266	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N-8	Nle	5 Nunnir Haor Project	K	Bajitpur Katiadi Niki	N N H	18,960 22,135 18,592	1,386 278 4,147	- 1 1	- 2 2	- 1 2	- 1 2	- 2 3	- 1 2	- 2 3	- 1 3	- 1 2	- 1 1	- 1 1	- 1 2	- 3 2	- 1 3	- 1 3	- 1 1	- 1 1	- 1 2	- 1 1	- 1 1	- 2 1	- 1 2	3	- 2 1	- 1 1	- 2 2	- 1 1	- 1 1	- 1	_
N-9	N2(Dakhshiner Haor Project	K	lina Mithamain	H H	38,579 22,548	1,553 930	1	1	1	1	1	1	1	1	2	1	1	1	4	1	1	1	1	1	1	1	1 2	1	1	1	1	1	1	1	3	_
N-10	N19	Chatal Haor Project	K	htna Tarail Madan	H N H	38,579 14,266 23,018	588 228	1	1 - 2	- 1	1 - 2	2 1 - 4	1 - 4	1 - 3	1 - 4	2	1	- 3	- 4	4	1 - 1	- 1	1 - 1	1 - 2		1 - 1	1 -	- 3	-	-		1 - 1	1 - 2	1	1	3	
N-11	N22	2 Ganesh Haor Project	Ν	Atpara Madan	N H	18,886 23,018	1,690	1	3 2	2	4	4	4	4	4	4	2	1 3	3	4	4	4	2	3 2	4	4	1	2	1	2	4	2	1 2	1	4	3	
N-12	N21	Dhakua Haor Project		Dakshin Sunanganj Jamalganj Sunanganj Sadar	H H H	30,649 33,198 27,824	1,347 176 2,902	- 1	- 4	- - 4	- 4	- - 4	- - 2	- - 4	- 4	- 3	- 1	- 4	- 4	- - 4	- 2	- - 3	- 1	- - 3	- 4	- - 2	4	- 1	- 2	- 1	- 2	- 2	- 1	- - 1	- 2	- 3	_
		4 Mokhar Haor Project	H	Apminganj Bantachong Nabiganj	H H N	18,438 49,627 43,355	3 4,347 3,714	1 1 1	2 2 2	1 1 1	1 1 2	1 1 4	1 1 4	1 1 1	1 1 1	1 1 2	1 1 1	1 1 1	1 1 2	1 1 2	1 1 2	1 1 3	1 1 1	1 1 1	$\frac{1}{1}$	1 1 1	$\frac{1}{1}$	1 2 1	1 1 1	2 2 1	1 1 1	1 2 1	2 1 2	1 2 1	1 1 2	1 1 1	
		5 Noapara Haor Project	K	Austagram Karinganj Nikh	H N H	30,050 20,259 18,592	36 15 3,128	1	2 2 2	1 1 2	1 1 2	1 1 3	1 1 2	1 1 3	1 1 3	1 1 2	1 1 1	1 1 1	1 2	1 2 2	2 2 3	2 1 3	1 1 1	1 1 1	1 1 2	1 1 1	1 1 1	1 1 1	1 2 2	1 2 1	1 1 1	1 1 1	1 1 2	1 1 1	1 3 1	1 2 1	
N-15	N9	Dulalpur Haor Project	K	Bajitpur Bhairab	N N	18,960 12,143	336 20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-						-	
		7 Sarishapur Haor Project		Bajitpur	Ν	18,960	1,161	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-			-	-	-	-	1
		Bara Haor (Kamlakanda)		Kalmakanda Dhammpasha	H H	38,502 50,085	2,463 5	4	4	4	4	4	4	3	2	1	1 1	2	3	4	1 2	1	2	3	1	1 1	1	2	1 1	2	 1	1 1	1	1	1 4	2 4	
N-18	N18	Bansharir Haor Project	Ν	Kendua Madan	N H	30,439 23,018	325 851	- 1	- 2	- 1	- 2	- 4	- 4	- 3	- 4	- 1	- 1	- 3	- 4	- 2	- 1	- 1	- 1	- 2	- 3	- 1	- 1	- 3	-	- 1	- 1		2	- 1	- 1	- 2	7
N-19	N12	2 Korati Haor Project	K	Karimganj Nikli	N H	20,259 18,592	2,656 292	1	2	1 2	1 2	1	1	1	1	1 2	1	1	1 2	2	2	1 3	1	1	1 2	1	1	1	2	2	1	1	1 2	1	3	2	
		-				nstruction	85,964			-	~	-	Ĩ	5	-							-			-	·			2				Ē	Ė	Ė	Ė	1
					Over	all Project	193,585																														T

Preparatory Survey on Upper Meghna River Basin Watershed Management Improvement Project

		Division of Roles (Scope of Activities)	
	Project Organizations		
Program/Activity	PMO/PIU/Sub-division Office	UAO/DAO (DAE)	Consultant/Others (specified)
Overall & Annual Work Plan for APSS & SIGS Formulati	ion		
 Needs assessment, PCM, PRA, workshop, mass guidance, field campaign 	 Needs assessment, PCM, PRA, workshop, mass guidance, field campaign 	 Support activities of the project organizations listed in the left column 	- Support activities of the project organizations listed in the left column
- Preparation of OWP (Overall Work Plan) & AWP (Annual Work Plan)	Preparation of OWP (Overall Work Plan) & AWP (Annual Work Plan)	 Support activities of the project organizations listed in the left column 	 Support activities of the project organizations listed in the left column
 Preparation/updating technical guideline & operation manuals 	- Preparation/updating technical guideline & operation manuals	 Support activities of the project organizations listed in the left column 	 Preparation & updating technical guideline & operation manuals for APSS & SIGS
Project Implementation	- Implementation of APSS & SIGS based on AWP	- Support the project organizations in their implementation of APSS	- Providing technical guidance & support for APSS & SIGS
	Budget arrangement & disbursement costs required for APSS & SIGS	& SIGS - Support the project organizations in their monitoring & evaluation	implementation - Support the project monitoring & evaluation activities of the
	- Procurement & provision of goods, machinery & materials for APSS & SIGS based on AWP	of APSS & SIGS - Assigning DAO/UAO staff to the project organizations as resource	project organizations
	- Monitoring & evaluation of APSS & SIGS	person for supporting the project implementation	
 Agriculture Promotion Support Sub-project (APSS) 1. Field Program (1) Adaptive Trials Adaptive trial (rice), adaptive trial (upland crops & vegetables), adaptive trial (cropping pattern) 	 Implementation of program in accordance with technical guideline/operation manuals Scope of activities include: Selection of target group/site, technical guidance, operation of Farmer Field Day, liaison with stakeholders, supervision, monitoring & evaluation, reporting, etc. 	 Assigning DAO/UAO staff as resource person/technical supporting personnel for supporting the program implementation Support the project organizations in their monitoring & evaluation of the program 	 Providing technical guidance & support for the program implementation Support the program monitoring & evaluation activities of the project organizations
(2) Field Demonstrations - Demonstration plot (rice), demonstration field (rice), demonstration area (rice), water management demonstration area (rice), demonstration plot (upland crops/vegetables), cropping pattern demonstration	 Implementation of program in accordance with technical guideline/operation manuals Scope of activities include: Selection of target group/site, technical guidance, operation of Farmer Field Day, liaison with stakeholders, supervision, monitoring & evaluation, reporting, etc. 	 Assigning DAO/UAO staff as resource person/technical supporting personnel for supporting the program implementation Support the project organizations in their monitoring & evaluation of the program 	 Providing technical guidance & support for the program implementation Support the program monitoring & evaluation activities of the project organizations
(3) IPM FFS/ICM FFS (rice)	 Implementation of program in accordance with technical guideline/operation manuals Scope of activities include: Selection of target group/site, formulation of IPM/ICM group, operation of FFS, technical guidance, liaison with stakeholders operation of Farmer Field Day, supervision, monitoring & 	 Assigning DAO/UAO staff as resource person/technical supporting personnel for supporting the program implementation Support the project organizations in their monitoring & evaluation of the program 	 Providing technical guidance & support for the program implementation Support the program monitoring & evaluation activities of the project organizations
(4):Seed Multiplication (rice)	 Implementation of program in accordance with technical guideline/operation manuals Scope of activities include: Selection of target group/site, training of target group, technical guidance, liaison with stakeholders field inspection, operation of Farmer Field Day, supervision, monitoring & evaluation, reporting, etc. 	 Assigning DAO/UAO staff as resource person/technical supporting personnel for supporting the program implementation Support the project organizations in their monitoring & evaluation of the program 	 Providing technical guidance & support for the program implementation Support the program monitoring & evaluation activities of the project organizations SCA or DAO Assigning resource person for field inspection
(5) Research-Extension-Farmer Dialog	Implementation of program in collaboration with research institutes in accordance with technical guideline/operation manuals Scope of activities include: Selection of target site, preparation of guidance materials, joint field visit & discussion/guidance, reporting, etc.	Assigning DAO/UAO staff as resource person/technical supporting personnel for supporting the program implementation Support the project organizations in their monitoring & evaluation of the program	Support the program implementation of the project organizations BRRI & BARI Assigning resource person for the program

Table Division of Roles for Implementation of APSS & SIGS (draft) - 1/3 Appendix 5.18-1

Final Report

Agriculture Promotion Appendix 5

		Division of Roles (Scope of Activities)	
	Project Organizations		
Program/Activity	PMO/PIU/Sub-division Office	UAO/DAO (DAE)	Consultant/Others (specified)
Farmer Training Program			
2.1 Farmer Training			
(1) Farmer Training	- Implementation of program in accordance with technical	-	- Support the program implementation of the project
-	guideline/operation manuals	Assigning DAO/UAO staff as resource person/trainer for	organizations
	 Scope of activities include: 	supporting the program implementation	- Preparation of training manuals
	Training need assessment, selection of target group, preparation of	- Support the project organizations in their monitoring & evaluation	
	training manuals & materials, implementation of training, monitoring	of the program	
	& evaluation, reporting, etc.		
(2) Study Tour/exchange Visit	- Implementation of program in accordance with technical	- Assigning DAO/UAO staff as resource person for supporting the	- Support the program implementation of the project
	guideline/operation manuals	program implementation	organizations
	 Scope of activities include: 	- Support the project organizations in their monitoring & evaluation	
	Selection of target site for the tour & target group, logistic	of the program	
	arrangement, preparation of guidance materials, monitoring &		
	evaluation, reporting & evaluation, reporting, rec.		
(3) Mass Guidance/Workshop/Campaign	- Implementation of program in accordance with technical	- Assigning DAO/UAO staff as resource person for supporting the	- Support the program implementation of the project
	guideline/operation manuals	program implementation	organizations
	- Scope of activities include:	 Support the project organizations in their monitoring & evaluation of the program 	
	Need assessment, selection of subject for the program & target	of the program	
	group, preparation of guidance materials, implementation of the		
	program, monitoring & evaluation, reporting, etc		
(4) Agriculture Fair	- Implementation of program in accordance with technical	- Assigning DAO/UAO staff as resource person for supporting the	- Support the program implementation of the project
	guideline/operation manuals	program implementation	organizations
	- Scope of activities include:	- Support the project organizations in their monitoring & evaluation	
	Selection of site, participants & stalls for fair, preparation of	of the program	
	leaflet/materials, public announcement, operation of fair, liaison	 Mobilization of farmers 	
	with stakeholders, etc.		
(5) Empowerment of Farmer Organizations (FO)	- Implementation of program in accordance with technical	- Assigning DAO/UAO staff as resource person/trainer for	- Support the program implementation of the project
- Empowerment of existing farmer organizations, formation &	guideline/operation manuals	supporting the program implementation	organizations
empowerment of farmer organizations	 Scope of activities include: 		- Preparation of training manuals
	Selection of target group, resource persons & facilitators,	 Support the project organizations in their monitoring & evaluation of the program 	- NGO
	preparation of training manuals/materials, operation of workshop,	of the program	 Assigning facilitators for the empowerment & follow-up guidance
	follow-up guidance, monitoring & evaluation, reporting, etc.		gunance
Field Staff Empowerment Program	- Implementation of program in accordance with technical	-	- Support the program implementation of the project
(1) Staff Training	guideline/operation manuals	Assigning DAO/UAO staff as resource person/trainer for	organizations
	- Scope of activities include:	supporting the program implementation	 Provide guidance on technical guideline & operation manual
Induction training of field staff, refresher training of field staff	Training need assessment, selection of target group, trainer &	- Support the project organizations in their monitoring & evaluation	for APSS & SIGS
	resource person, preparation of training materials, monitoring &	of the program	
	evaluation, reporting, etc.		
(2) Study Tour/Exchange Visit	- Implementation of program in accordance with technical	- Assigning DAO/UAO staff as resource person/trainer for	- Support the program implementation of the project
	guideline/operation manuals	supporting the program implementation	organizations
	 Scope of activities include: 		
	Selection of target site for the tour & target group, preparation of	- Support the project organizations in their monitoring & evaluation	
	guidance materials, logistic arrangement, monitoring & evaluation,	of the program	
	reporting, etc.		

 Table
 Division of Roles for Implementation of APSS & SIGS (draft) - 2/3

Preparatory Survey on Upper Meghna River Basin Watershed Management Improvement Project

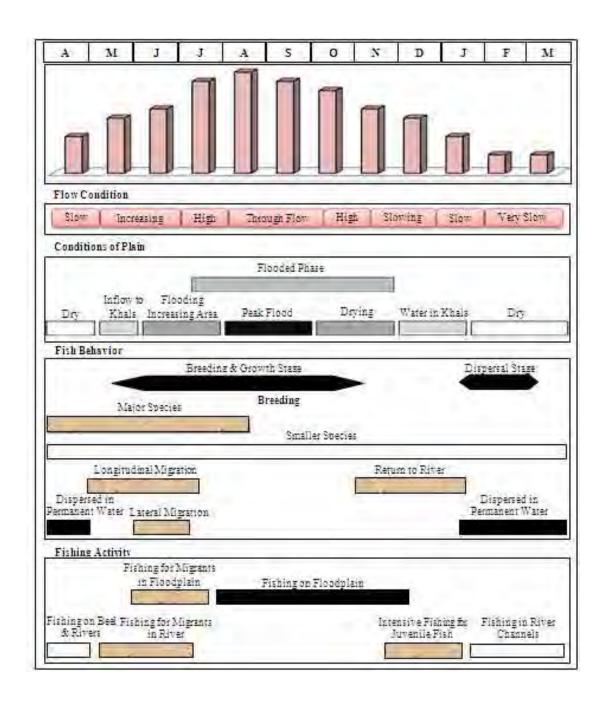
		Division of Roles (Scope of Activities)	
	Project Organizations		
Program/Activity	PMO/PIU/Sub-division Office	UAO/DAO (DAE)	Consultant/Others (specified)
 Farm Machinery & Facility Support Farm Machinery Hiring Services 	 Implementation of program in accordance with technical guideline/operation manuals Scope of activities include: 	- Assigning DAO/UAO staff as resource person/trainer for supporting the program implementation	 Support the program implementation of the project organizations NGO
	Need assessment, selection of target group, trainer, resource person, facilitator for the program, preparation of training materials, formation of Farm Machinery Hiring Services Providers Group (FMHSG), arranging revolving fund repayment agreement with FMHSG, procurement & provision of farm machinery, monitoring & evaluation of hiring services & FMHSGs activities/fund repayment, reporting, etc.	 Support the project organizations in their monitoring & evaluation of the program 	- Assigning facilitators for the formation of FMHSG
(2) Construction of Community Drying Floor & Seed Storage Facility	 Implementation of program in accordance with technical guideline/operation manuals Scope of activities include: Need assessment, selection of construction site, community workshop, selection of facilitator & farmer representatives, joint field survey, construction of drying yard/seed storage, organization of users group, preparation of by-low for users group & users regulations, monitoring & evaluation of the program, reporting, etc. 		 Support the program implementation of the project organizations NGO Assigning facilitators for the formation of users group
 Technology Development Program Field Trial on Rice 	Implementation of program in accordance with technical guideline/operation manuals Scope of activities include: Preparation of TOR for the program, Conclude Letter of Agreement (LoA) with BRRI, monitoring & evaluation of the program	 Assigning DAO/UAO staff for supporting the program implementation by BRRI Support the project organizations in their monitoring & evaluation of the program 	Support the program implementation of the project organizations RRI Implementation of the program in accordance with LOA Operation of field seminar & seminar at Project Report preparation
(2) Field Trial on Non-rice Crops	Implementation of program in accordance with technical guideline/operation manuals Scope of activities include: Preparation of TOR for the program, Conclude Letter of Agreement (LoA) with BARI, monitoring & evaluation of the program	 Assigning DAO/UAO staff for supporting the program implementation by BARI Support the project organizations in their monitoring & evaluation of the program 	Support the program implementation of the project organizations BARI Implementation of the program in accordance with LOA Operation of field seminar & seminar at Project Report preparation
 Small-scale Income Generation Sub-project (SIGS) (1) Floating Bed Vegetable Culture Scheme (2) Small-scale Vegetable Production Support Scheme (3) Fruit Production Support Scheme (4) Micro Poultry (chicken, duck) Raising Scheme (5) Small-scale Mushroom Culture Scheme 	 Implementation of program in accordance with technical guideline/operation manuals Scope of activities include: Selection of target groups & formation of CIGs, preparation training materials, selection of facilitator, training of CGs, procurement & provision of goods & materials for the program, field guidance, follow-up field guidance, monitoring & evaluation of the program, reporting 	 Assigning DAO/UAO staff for supporting the program implementation Support the project organizations in their follow-up filed guidance and monitoring & evaluation of the program 	 Support the program implementation of the project organizations NGO Assigning facilitators for the formation of CGIs & follow field guidance DLO/ULO Support implementation of Micro Poultry Raising Schen

Table Division of Roles for Implementation of APSS & SIGS (draft) - 3/3 Appendix 5.18-3

Agriculture Promotion Appendix 5

A5.18 - 3

Appendixes 6.1 to 6.6



Appendix 6.1: Diagram of Seasonal Cycle of Floodplain Fisheries

Source: Adapted from FAP-5.2, 1993.

Kishoreganj District

		Pakundia	Katiadi	K Sadar	Kuliar Char	Karimganj	Hossainpur	Austagram	Nikhli	Itna	Mithamain	Bajitpur	Tarail	Bhairab	Total
Fish Farmer	Male	135	2,275	8,776	890	2,150	4,550	256	160	190	400	1,512	1,892	325	23,511
	Female	80	144	150	16	50	1,670	3	5	40	50	8	30	7	2,253
	sub-total	215	2,419	8,926	906	2,200	6,220	259	165	230	450	1,520	1,922	332	25,764
Fisher	Male	80	1,000	2,150	810	1,350	550	7,240	170	300	15,500	2,390	3,250	1,250	36,040
	Female	20	-	350	-	-	-	-	170	150	2,000	5	-	-	2,695
	sub-total	100	1,000	2,500	810	1,350	550	7,240	340	450	17,500	2,395	3,250	1,250	38,735
	Total	315	3,419	11,426	1,716	3,550	6,770	7,499	505	680	17,950	3,915	5,172	1,582	64,499

Netrok ona District

		Mohanganj	Kalma	Purbadhala	Atpara	Durgapur	Madan	Khaliajuri	Barhatta	Netrokona	Kendua	Total
			Kanda							Sadae		
Fish Farmer	Male	2,665	5,000	5,710	3,010	4,650	1,650	75	5,500	9,285	7,472	45,017
	Female	35	1,300	2,790	380	-	370	12	730	455	831	6,903
	sub-total	2,690	6,300	8,500	3,390	4,650	2,020	87	6,230	9,740	8,303	51,910
Fishers	Male	4,250	5,655	2,880	6,015	2,550	1,120	7,810	1,755	2,908	520	35,463
	Female	-	280	100	410	-	267	235	800	-	22	2,114
	sub-total	4,250	5,935	2,980	6,425	2,550	1,387	8,045	2,555	2,908	542	37,577
	Total	6,940	12,235	11,480	9,815	7,200	3,407	8,132	8,785	12,648	8,845	89,487

Habigani District

		Habiganj	Bahubal	Lakhai	Nabiganj	Ajmiriganj	Chunarghat	Baniachong	Madhabpur	Total
		Sadar								
Fish farmer	Male	3,400	125	1,150	3,950	470	20	800	2,689	12,604
	Female	900	50	260	330	25	10	400	55	2,03
	sub-total	4,300	175	1,410	4,280	495	30	1,200	2,744	14,63
Fisher	Male	5,000	5,200	10,600	5,300	5,200	220	950	3,903	36,37
	Female	-	-	1,550	-	90	25	100	-	1,76
	sub-total	5,000	5,200	12,150	5,300	5,290	245	1,050	3,903	38,13
	Total	9,300	5,375	13,560	9,580	5,785	275	2,250	6,647	52,77

Brahmanbaria District

		Sarail	B B Sadar	Nasimnagar	Kasba	Ashuganj	Bancharamp	Akhura	Nabinagar	Total
Fish Farmer	Male	685	5,170	85	3,620	500	900	5,000	1,200	17,160
	Female	155	160	10	50	200	125	30	150	880
	sub-total	835	5,330	95	3,670	700	1,025	5,030	1,350	18,035
Fisher	Male	795	8,680	3,000	2,255	700	1,700	500	5,600	23,230
	Female	400	110	1,000	-	200	50	-	-	1,760
	sub-total	1,195	8,790	4,000	2,255	900	1,750	500	5,600	24,990
	Total	2,030	14,120	4,095	5,925	1,600	2,775	5,530	6,950	43,025

Sunamganj District

		Chatak	Doarabazar	Shalla	South			Jamalganj	Tahirpur	Derai		Sunamganj	Total
					Sunamganj	Bishwamvar	Dharmapash				Jaganathpur	Sadar	
						pur	sa						
Fish Farmer	Male	1,950	105	296	550	525	696	300	391	930	4,510	1,250	11,503
	Female	50	-	-	50	50	23	40	-	-	800	15	1,028
	sub-total	2,000	105	296	600	575	719	340	391	930	4,310	1,265	11,53
Fisher	Male	15,000	7,861	3,500	6,700	4,000	8,989	4,000	6,678	16,090	1,000	500	74,31
	Female	-	-	-	300	-	250	700	-	120	300	8	1,67
	sub-total	15,000	7,861	35,000	7,000	4,000	9,239	4,700	6,678	16,210	1,300	508	107,49
	Total	17,000	7,966	35,296	7,600	4,575	9,958	5,040	7,069	17,140	5,610	1,773	119,027

Source: Compiled from the Upazilas of 5 Haor Districts by the JICA Preparatory Survey Team, July/August 2013.

Appendix 6.3: Profiles of CFRM and Income generating Activities

1. Establishment of Fish Sanctuaries

(1) Background

The inland open water fisheries have been experiencing a significant decline in recent years due to FCD/I projects, siltation of habitats, indiscriminate and over fishing, degradation and loss of fish habitat, and shortsighted management. During dry season in particular, the fish become more susceptible to catch, which results in loss of brood stock. Therefore, it affects negatively to the natural recruitment of fish to floodplain fisheries. The enforcement of Conservation and Protection of Fish Act, 1950 could protect and conserve fisheries resources through establishment of sanctuaries. Around 53 sanctuaries are reported in the Haor areas, which are not enough for this area.

These 53 sanctuaries are being managed with the community participation under the co-management approach through different projects such as, MACH, CBFM-2, FFP and other government financed projects. Due to lack of sufficient sanctuary in the haor basin, the brood fish and hatchling are being caught with less effort. Thus, the fish diversity and production are declining severely and negatively affect the livelihoods of the fishermen community in this area are being jeopardized.

(2) Objective

The overall objective is the long-term conservation and management of wetland for conservation and improvement of fisheries biodiversity together with the enhancement of dependent livelihood through sustainable natural resource management.

The specific objectives are:

- To conserve fish biodiversity including endangered species;
- To protect brood/mother fish and to facilitate breeding;
- To increase fish production;
- To conserve and protect indigenous fish species; and
- To improve fisheries dependent livelihoods.

(3) Scope of Work or Activities

The major activities to be carried out are:

- Delineation of sanctuary area;
- Excavation of water bodies in some cases;
- Arrangement of protection measures for sanctuary;
- Collection and stocking of endangered fish fry/fingerlings;
- Establishment of management committee;
- Training up the officials and beneficiaries; and
- Monitoring and protection.

(4) Approach

The specific location will be identified through initial resource mapping and identification of beels through PRA. Training programmes will be arranged for officers of DoF and for beneficiary. Community mobilization and protection (law and orders) of sanctuaries will be core-activities of the project.

(5) **Priority**

The establishment of fish sanctuaries has been considered a priority to improve fish biodiversity, to increase fish production and thereby to improve fisheries dependent livelihoods in the beel/hoar areas. This will facilitate breeding of native fish species and conserving threatened fish species with the objective of increase of fish production to comply with the scenario developed under fisheries Vision 2020/21.

(6) Need and Justification

As the dry season progresses, water in the deeper parts of haor/beel becomes shallow. Even, sometimes the remaining water is pumped out for agriculture, and for fish harvesting which not only causes destruction of the brood fishes but also cause destruction of other aquatic animals and plants. As a result, the fish stock in the haor area is decreasing day by day due to habitat degradation. Hence, the establishment of sanctuary in the beel/haor and river is one of the improved tools/techniques to conserve and enhance fish species along with increasing the yield of fish.

(7) **Outputs**

- Increased fish population and diversity in water bodies;
- Increased fish production;
- Conserved biodiversity;
- Protein demand met up; and
- Improvement of livelihood of local fishers.

2. Establishment of Beel Nurseries

(1) Background

The inland capture fisheries are decreasing due to increasing pressure on the fishery resources, environmental degradation of aquatic habitats and poor fisheries management. Conventional fisheries management measures such as regulation of minimum mesh sizes, closed areas and closed seasons are used to counteract this situation, but these measures can be difficult to enforce and do not always offer the possibility to increase or maintain production levels in situations of high fishing pressure or in degraded environments. In such cases, fingerling recruitment to the floodplains that can be collectively used for enhancements of selected species above natural levels. In the haor basin, a large number of shallow beels and khals connected with beels or haors that have potential for conducting beel nursery activities for improving production and biodiversity. This sub-component programme is proved as the efficient fingerling recruitment tool.

(2) **Objective**

The overall objective of the project is to improve fish species diversity and enhance the production in the

floodplains. The specific objectives are:

- To increase native carp fish species along with endangered and threatened fishes
- To enhance fish production
- To improve the aquatic biodiversity of the wetland
- To increase the income of wetland (beel) dependent people

(3) Scope of Work

The major activities to be carried out are:

- Selection of beels for conducting beel nursery program;
- Area delineation (with markers) for beel nursery;
- Re-excavation of water bodies and making light dyke in some cases;
- Arrangement of protection measures for the released fry/fingerlings;
- Collection of native and quality hatchling;
- Nursing of fry/fingerling through proper nursery management
- Monitoring and evaluation; and
- Training up the officials and beneficiaries.

(4) Approach

The specific location will be identified through initial resource mapping and identification of beels through PRA Training programmes will be arranged for project staff and beel nursery operators (BUGs). Community mobilization and protection (law and orders) of beel nursery and released fingerlings will be core-activities of the project.

(5) Priority

The beel nursery project has been considered to increase the biodiversity and corresponding fish production in the beel/hoar areas. It would target o boost up fish production by stocking native, endangered and pure strains in turn to improve fisheries dependent livelihoods of the haor basin.

(6) Need and Justification

It is a low cost and efficient fingerling recruitment program to the natural and wild environment. This activity ensures less stress on fish fingerling, relatively low cost; render more survival of fingerling with fewer hazards. It is experienced that such project keeps important role in enhancing fish production so as to keep in line the country policy in food security. In this context, spontaneous participation of local people and monitoring of the DoF need to be ensured.

(7) **Outputs**

- Improved fisheries biodiversity;
- Increased fish production;
- Contributed to national economy;
- Created more employment opportunity;
 Improved fisheries dependent livelihoods; and
- Improved fisheries dependent livel
 Reduced poverty level.

3. Community and household based net-pen fish culture in the haor/floodplain

(1) Background

The haor basin has large floodplain and the spatial area more than 5 lakh hectares under moderate type of flooding inundation, which is suitable for net-pen fish culture. Fishermen who usually catch fish in the haor basin could also be involved in the net-pen fish culture practice under a community approach. Due to lack of knowledge and proper training on pen culture, the people of haor basin area are not acquainted with such type of fish culture practice. As the haor basin retains water for 5-6 months a year, it is suitable for net-pen fish culture. Hence, the proposed component would help to proper utilization of open water bodies through fishers' groups/households in the haor area. Therefore, such practice would generate diversified employment opportunities during lean period along with the increase of fish production.

(2) Objective

The overall objective is to improve livelihoods of the local community including the dependent fishermen in turn to reduce poverty through increased fish production. More specifically the objectives are:

- To increase fish production;
- To ensure utilization of floodplain area in the haor basin;
- To generate additional employment opportunity; and
- To improve beel/haor dependant poor fisher's livelihood

(3) Scope of Work

The major activities to be carried out are:

- Identification and delineation of suitable location;
- Identification household/group of fishers' society;
- Providing credit/elements of net-pen;
- Procurement of crab or other animal cut resistant net;
- Collection of native and quality fish fry/fingerlings;
- Monitoring and protection; and
- Capacity building training on net-pen fish culture to the officials and beneficiaries.

(4) Approach

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The specific locations and communities will be identified through PRA and with the help of upazila fisheries officers. Training programmes will be arranged for officers of DoF and for beneficiary. Community mobilization and protection (law and orders) of net-pen will be core-activities of the project.

(5) **Priority**

Net-pen fish culture practice would be suitable for the group of fishers' community/household of the haor basin. So it has been given as a priority project.

(6) Need and Justification

As the haor basin is rich in flowing and static water bodies so, there is a great potential to generate income to the fishing communities through producing more fish in such a captive fish culture technique.

(7) Outputs/Outcomes

- Increased fish production;
- Enhanced of income to the poor fishers community;
- Increased employment opportunity and reduced poverty;

4. Community and household based fish cage culture

(1) Background

In spite of having large floodplain rivers, there is hardly cage fish culture in the haor region. Due to lack of knowledge and proper training on cage fish culture (including pen fish culture), the people of haor area are not aware of fish culture where water retains 5-6 months a year. Hence, the proposed project would help to proper utilization of rivers with mild flow. Besides, this project not only assists in improving the livelihoods of fishers/poor people but would also help to boost up the fish production.

(2) **Objective**

The overall objective is to boost fish production and improve the livelihoods of the poor fishers along with other landless people of the haor region. Specifically the objective is to ensure productive utilization of flood plain rivers in the haor basin.

(3) Scope of Work

The major activities to be carried out are:

- Identification of rivers with mild flow and installing location;
- Identification households to be engaged;
- Providing fish cages and other facilities with demonstration;
- Capacity building to the identified farmers;
- Facilitating the collection of fish fry/fingerlings;
- Monitoring and evaluation; and
- Training to the field officers and other stakeholders.

(4) Approach

The specific locations and communities will be identified through PRA and with the help of upazila fisheries officers. Training programmes will be arranged for officers of DoF and for beneficiary. Community mobilization and protection (law and orders) of fish cage will be core-activities of the project.

(5) **Priority**

The project has been taken for facilitating the poor fisher's households and in turn to reduce fishing pressure on the mother fisheries grounds. Poverty reduction by utilizing haor fisheries resources and in turn reduces fishing pressure on the capture habitats is also the government's policy.

(6) Need and Justification

The cage fish culture is cost effective for long time (investment cost is high) and technology is manageable by the fishers/communities. It needs rivers having mild flow of water, which are largely spread over the haor region. Women can participate and manage the cage with their family members. The household income of the poor communities in the haor is expected to increase significantly.

(7) Outputs

- Increased fish production;
- Enhanced household income;
- Increased employment opportunity;
- Protein demand met;
- Improved livelihood of local fishers; and
- Reduced poverty.

5. Backyard (Homestead) Pond Aquaculture

(1) Background

The fish ponds within the project area cover considerable area (around 34,379 ha in 7 study districts. These fishponds are categorised into cultured, culturable and derelict ponds. Cultured ponds are under culture fishery while culturable pond and derelict ponds are considered as capture fishery due to haor inundation characteristics. Out of total habitats for fishponds, cultured ponds generally larger, deeper and do not need much preparation cost, while the culturable ponds may be used for fish culture without any major investment) and derelict ponds that are not presently used and are lying fallow; in most cases covered with water hyacinth. Culturable pond contributes less than one percent of overall fish production in the region. There is a scope of increasing production by using the culturable ponds through some investments. Little support is extended to aquaculture in the region; the exception being the DANIDA-financed Aquaculture Extension Project, but even this operates in parts of Kishoreganj district. For enhancement of pond fish production an extension support project for the farmers is needed.

(2) **Objective**

The overall objective is to increase fish production utilizing the culturable pond through applying improved fish culture technology by developing them; and with a specific objective to improve the socio-economic situation of small and landless farmers.

(3) Scope of Work

The major activities to be carried out are:

- Selection of culturable pond;
- Re-excavation of abandoned pond;
- Raising pond dyke with development of required facilities;
- Facilitating with providing quality fish seed and feed;
- Dissemination of improved fish culture technology to the farmers;
- Capacity building to the fishermen, fish farmers and field level officers;
- Facilitating with giving support regarding fish disease, timing of seed releasing, pond preparation, etc.
- Monitoring and evaluation of the culture practices.

(4) Approach

The specific ponds in backyards of households will be identified through PRA and with the help of upazila fisheries officers. Training programmes for aquaculture will be arranged for officers of DoF and for beneficiaries. Extension support will be provided through training and credit. Technology will be transferred through demonstration of ponds.

(5) Priority

The project has been considered for the proper utilization of culturable pond to increase more production of quality fish and in turn support livelihoods. The project will also target especially women groups to operate and manage in a collective manner to bring homestead ponds under production and to boost household income.

(6) Need and Justification

The project has been considered to optimize the human nutrients flow and to reduce pressure on capture fisheries. Moreover, such project keep important role in boosting up fish production in line with the country's policy in PRSP, MDGs, etc.

(7) **Outputs/Outcomes**

- Expanded fish culture under good aquaculture practices;
- Increased culture fish production;
- Contributed to national economy;
- Make available fish to low-income people with low prices; and
- Improved fisheries dependent livelihoods.

6. Floodplain aquaculture under the community enterprise approach

(1) Background

Floodplain aquaculture practice was initiated in Daudkandi upazila of Comilla district under the community enterprise approach. It has four approaches of which community enterprise approach is popularly implemented. One of the major objectives of this model is to proper utilization of floodplain for production after the harvest of paddy. Recently, this model has been introduced and popularized in many other parts of the country. There is an extensive floodplain in the haor basin with different depths and retains water from 5-6 months a year. But there is no such community based floodplain fish culture despite of having flood protection schemes of BWDB. Hence, The project aims to disseminate the proposed fish culture model to haor basin districts with extensive floodplain resources that could potentially generate important benefits for floodplain communities.

(2) **Objective**

The overall objective of the project is to enhance fish production from seasonally flooded areas under the

community enterprise approach. Specifically, the objectives are:

- To utilize floodplain (enclosed) private land properly during rainy season;
- To enhance culture fisheries in the floodplain area;
- To ensure sharing among landowners, sharecroppers, landless farmers, fishers and poor local people;
- To provide employment opportunity.

(3) Scope of Work

The major activities to be carried out are:

- Identification of the schemes for flood protection, and utilisation of protected land;
- Baseline of floodplain (climate, hydrology, infrastructures, biological resources, socio-economic conditions of floodplain dependent people);
- Natural hazards especially flood (flooding depth, intensity);
- Land use and cropping pattern;
- Water quality of enclosures and fertilizer and agro-chemicals use pattern;
- Identification and strengthening of existing fishing practices, fishers livelihood and existing community based organizations for fisheries management; and
- Skill development training on floodplain aquaculture to the stakeholders.

(4) Approach

Prior to the implementation of the component a baseline survey should be established with listing landowners, sharecroppers, and landless poor depends on fishing, etc. Formulation of a groups (communities) for implementing the component and encircle the floodplain area with existing facilities and making bund, fencing and water regulatory structure around and also making canal/khals for dry season stocking of fish. The process of collection (or procuring) of native and quality fish fingerlings with appropriate size for stocking, and setting up of monitoring and guarding, etc.

(5) Priority

Increasing population pose increasing demand of protein intake so, increasing production of fish in the vast floodplain would make up the deficit. In addition, the fisheries road map for 2006-2015 also proposes to use open water fisheries and areas suitable for floodplain aquaculture in areas where it is socially and environmental appropriate.

(6) Need and Justification

During rainy season, in the haor area extensive floodplain land is either remains unavailable for crop production for several months each year or with paddy cultivation. These waters are considerably underutilized in terms of managed aquatic productivity. In this circumstance, this proposed model would help to increase rice and fish production. In addition to this, it will also help to alternate income source by ensuring sharing of all sorts of community of the project boundary. Hence, the income of the local people will be increased along with the strengthening of social bonding.

(7) **Outputs**

- Increased fish production;
- Improvement of livelihood of local community;
- Reduced poverty; and
- Developed social bonding.

Appendix 6.4: Daudkandi Model

Floodplain aquaculture under the community enterprise approach: Daudkandi model

Fish output from the rivers and khals, and open water bodies like beels and floodplains are declining and thus floodplain fisheries become crucial in providing food, income and employment for millions of people in the haor planning area. Excluding other open waters, floodplains in totality around 8.13 lakh hectares in area and are thought to be producing about 2.48 lakh tons of fish, annually in the haor basin. Typical yields from these flooded areas are between 250-400 kg per ha. In comparison, yields from the floodplain aquaculture systems applied are usually in the range of 1-3 ton(s) per hectare i.e. 4-7 times the naturally occurring fish production. This dramatic increase in productivity highlights the potential for development of floodplain fisheries along with the increase of paddy production with less input costs.

Floodplain aquaculture practice in Daudkandi, Comilla District: Daudkandi with 30 percent landless households had long been recognized as a food deficit area, hence two factors became prominent such as (i) underemployment induced wet season out-migration; and (ii) appearance of famine during September to November to farming households including even the well-off landowner families. During this period mass people become engage in subsistence fishing though fish caught from the floodplain, albeit in small amounts, contributes greatly to maintaining nutrition standards and good health, and may even provide an income if a surplus is caught. Realizing the magnitude of misery, SHISUK (Sikkha Sastha Unnayan Karjakram i.e. Education and Health Development Programmes) an NGO acted as a catalyst to develop a new approach of floodplain aquaculture at Daudkandi in 1995. This practice is done in a polder of 327 sq. km established by BWDB in the vicinity of Gumti River. The NGO helped in mobilizing the community with awareness campaign and capacity building training towards the approach and in developing a framework for conducting the self-reliant initiatives of "Pankowri Fisheries Project" in floodplain.

Salient features of Daudkandi Model

- Self-reliant sustainable community development through application of scientific, technical and local knowledge in land, water and growth centers;
- SHISUK facilitates people's own strength and support initiatives of the approach;
- Accumulation of capital through floating of shares for subsequent investment in resource development enterprises e.g. aquaculture project, rice farming and so on;
- Under NGO*-Community partnership, SHISUK contributes 15-20 % of the capital through share subscription and becomes a community partner involving directly in the community development activities and enjoying equal share of loss or profit;
- Equity: No one is allowed to buy more than 1 percent of total shares allowing room for all households and preventing rich households to grab more shares. 5 percent shares are kept reserved for the landless and fishers from the members belonging to the project area. The NGOs buys reserved shares from its own resources for the landless, vulnerable and the female-headed households. Subsequently, these hard-core poor repay back to the NGO in interest-free installments or in exchange for dividends received. They finally become owners of these shares;
- The community body is registered under the Company Act as public limited company as a part of institutionalization. The Company operates by a 'Board of Directors' where at least two

Directors must be women. All members of the community through secret ballots elect the Board members. The Board meets every month and prepares reports of activities for every shareholder through an AGM;

- Standard book keeping and open- to- all- systems are followed where the NGO helps Board members in record keeping, prepare accounts, and provide training on transparent transactions through commercial banks. The NGO and CBO operate accounts by joint signatures;
- The NGO and CBO liaise with local government bodies/political leaders/government agencies and potential donors to accumulate funds for infrastructure development and technical support;
- Capacity building training for the community is provided by the NGO. The training includes community leadership, record keeping, organic farming, IPM, aquaculture, tree plantation and gardening;
- Special attention is taken for formation of women groups, providing them with training on Income Generating Activities (IGA), human rights, health education and empowerment; and
- The NGO does not think of 'plugging off' rather it has been trying to roll over to adjacent areas, while graduated CBOs are encouraged to recruit staff locally and become self-reliant.

(Note: * Initially the Daudkandi Model required the assistance/support of NGO to organize, motivate, implement, etc. leading the community to entrepreneurship. The model now has been successfully disseminated to other districts, including Kishoreganj district by DoF, LGED, etc. which have the expertise to implement without NGO support. Therefore, the need for NGO support is not considered here.)

Economic impact of floodplain aquaculture

There seems to be no doubt that a new resource system has been created through the process of land enclosure and that the floodplain aquaculture projects are contributing significantly to local economies.

a) Fish Output

Fish production, in terms of unit area, has increased by many times. In 2006, the five SHISUK projects produced more than 800 tons of fish from 344 ha (an average fish production of 2.3 tons per ha.) i.e. about 10 times more than naturally occurring fish production.

b) Shareholders' Benefit

The benefits of increased production and profits are passed on to the members of the project in the form of dividends and land rent. The distribution of net profits amongst the members of the SHISUK projects adopts the following criteria:

- 50 percent as dividends to the owners of project shares;
- 27 percent as land rent to the owners of land inside the project;
- 20 percent is kept as reserve (for investment in the following year and for contingencies); and
- 3 percent is spent on social welfare (e.g. donation to mosques or temples).

c) Embankments and Employment

The creation and maintenance of the embankments* has created work opportunities and promoted the rapid expansion and movement of people and goods. The local economy can

now employ more people and out-migration has been reduced. (*As a pilot project, no construction of embankments. Available enclosures, polders, etc. will be appropriately used as enclosures; the target groups will cooperate to make bunds and/or use nets to enclose the water area for fish culture, and accordingly they will be trained to maintain.)

d) Benefits to Landowners

Landowners also benefit from higher productivity. It has been found that output in agricultural land has increased by 10-15 percent. On the other hand, input costs have declined by 25-35 percent because no pesticides are used; irrigation is provided to the members at a lower cost, and lower fertilizer doses are required due to the residual impact of manure and feed used in aquaculture. Farmers producing winter-paddy appear to be following IPM recommendations in terms of reducing pesticide use.

However, the number of dry season cash crops has reduced in the floodplain areas, probably due to the efforts of the projects to retain water for as long as possible, and thereby maximize fish yields.

e) Forward and Backward Linkages

Incomes earned from aquaculture projects have boosted the local economy through both backward and forward linkages. The local economy therefore gains from both the direct benefits of the projects (increased production, profits and incomes) and from the indirect benefits that are transmitted through backward linkages (mainly from the suppliers of inputs for the fish production).

The backward linkages of the project are relatively easy to identify but very difficult to quantify. However, it is clear that the total number of stakeholders is quite substantial. The followings are some of the agents that are associated with the project through backward and forward linkages:

No.	Backward Linkages	No.	Forward Linkages				
1	Fingerling nursery operators	1	Ice plant operators				
2	Fish Hatchery operators	2	Ice supplier / middlemen				
3	Fingerling traders	3	Ice carriers (transport)				
4	Fish feed sellers	4	Fish Aratder (big seller)/landing center				
5	Lime traders	5	Middlemen in fish Arat				
6	Fertilizer dealers	6	Fish transport truck / trolley owners				
7	Bamboo made fencing makers	7	Bamboo/plastic made fish basket makers				
8	Bamboo made fencing sellers	8	Bamboo/plastic made fish basket sellers				
9	Rickshaw/Van owners	9	Rickshaw/Van owners				
10	Rickshaw/Van puller	10	Rickshaw/Van puller				
11	Cow dung /Poultry litter suppliers	11	Banking				

The major component of production costs is purchase of fingerlings and supplementary feed (estimated to be around 30-40 percent of the operational cost). This is understandable because stocking density is very high (about 30-40 fingerlings per decimal). Thus backward linkages tend to be more dominating than forward linkages. Costs associated with the maintenance of embankments are as low as 1 per cent of total costs. This indicates that once the initial lumpy

investment on embankment construction is made, the recurring costs of maintaining the structure are low.

f) Law and order situation

The law and order situation has improved significantly in areas where community initiatives in floodplain fisheries were undertaken. More motivation and community consultations have been taking place to bring landowners under aquaculture projects. Community leaders, Union Parishad Chairmen, Ward Members and other distinguished citizens sitting together face to face more frequently to solve problems relating to project development helped to reduce social mistrust and old conflicts. Social harmony and togetherness has increased and complaints to police have decreased significantly. It is reported that in the project area social violence, anarchy and terrorism have been significantly reduced.

Applicability* of the "Daudkandi Model" in Haor Area

The haor basin is also mostly low lying having a vast area of floodplain. As the area grows a single crop, which is boro, cannot meet the food demand and people are also suffering from acute unemployment problems. The study area has at least 120 schemes with submersible embankment and three full flood embankments. The seasonal floodplain aquaculture in the fashion of "Pankowri Fisheries Project" could be done in the existing BWDB schemes through further compartmentalization of the polders if required. Based on suitability criteria, there are 99 aquaculture project have been proposed under the HMP. The successful operation of this approach by involving the community might change the local as well as the country's economy and could create huge employment opportunity even for the women.

(*According to HMP, haor basin with its extensive floodplain with varying depths and retaining water for 5-6 months has suitable areas where Daudkandi model could be introduced for seasonal floodplain aquaculture. The selected area/sites should have appropriate enclosures, and there should not be flash floods.)

Appendix 6.5: Selection Criteria

1. Site selection criteria for Beel Nursery

- (1) Beels/haors having huge potential to connect to the extensive connecting floodplains are suitable for the conservation of fish biodiversity and those that are less vulnerable to early flash flood;
- (2) Beels/khals where water reservoir can be created with holding capacity of 3-5 feet water by constructing light dykes and also by re-excavating if necessary and other facilities as such to suitable for nursing the fry/hatchling during the pre-monsoon season preferably within February to March; and
- (3) The site should be suitable for transporting, guarding and supply of different types of inputs for beel and sanctuary / nursery management.
- (4) The area range and connectivity be set within 0.5 to 4 ha considering the various issues of preparing and management of beel nursery in haor basin.

Based on the above selection criteria, the areas/sites will have to be selected preliminarily. The

local fisheries officer and other concerned officials in the locality will assist in the final selection through physical investigation.

2. Site selection criteria for practicing floodplain aquaculture

- (1) From a better management, the suitable floodplain area for fish and paddy cultivation ranges from 80 325 ha following the Daudkandi Model Experience.
- (2) Smaller area produce less fish while larger area produces more fish and if it is larger than 400 ha there might have various management constraints.
- (3) Floodplain area which is already confined at 2 to 3 sides either indiscrete or discretely by embankments (above flood level)/settlements/roads and by constructing embankment on the remaining side(s) with less effort for creating the confinement of the desired site to maintain 3-7 feet water for 4-6 months would be suitable for practicing the model.
- (4) The site should have connecting channels/khals which may need re-excavation measure and also with given water regulatory structure and should have ditches/borrow pits/khals containing water so that the natural fish could take shelter during dry season and stocking of fish fingerlings could be done during January to February.
- (5) The site should be suitable for transporting, guarding and supply of various types of inputs like fingerlings, feeds, fertilizers, etc. The site should also have harvesting and marketing facilities.
- (6) Stakeholders of the site should be willing ad have interest, and consensus on doing the activity or motivated those to concentrate on the issue by making them realized with its profitability and doing all activities by community based management.

3. Site selection criteria for Net-Pen culture

The haor basin has large floodplain and rich in flowing and static water bodies that are suitable for net-pen fish culture. Hence, there is a great potential to generate income to the fishing communities through producing more fish in such a captive fish culture technique. Due to lack of knowledge and proper training on pen culture, the people of haor basin area are not acquainted with such type of fish culture practice. The pro-poor or vulnerable fishers households could be encouraged to practice this type of culture

The selection criteria are as follows.

- (1) Net-pen culture practice should be conducted during the monsoon in the floodplains where water stays for 5-6 months with a water depth range of 4 to 12 feet.
- (2) Easily accessible by road/water transport.
- (3) Nearer to settlement area.

- (4) Availability of suitable nets with different mesh sizes, which are water proof and resistant to crab/other aquatic animal, cuts.
- (5) Availability of poles (bamboo/ water tolerant trees/cement pillars/etc.) for fixing nets.
- (6) Availability of culturable native quality fish seeds.
- (7) Availability of quality feeds and other inputs.

4. Selection criteria for the establishment of fish sanctuary

The inland open water fisheries are experiencing a significant decline during the last four decades due to FCD/I projects, siltation of habitats, indiscriminate and over fishing, degradation and loss of fish habitat, and shortsighted management. Around 50-53 fish sanctuaries are reported to exist in the Haor areas, which are not enough for this area. Due to lack of sufficient sanctuary in the haor basin, the brood fish and hatchling are being caught with less effort. This leads to a severe decline in fish diversity and production that affects the livelihoods of the fishermen community in this area. Hence, the establishment of sanctuary in the beel/haor and river is one of the improved techniques to conserve and enhance fish species along with increasing the fish yield. Beel sanctuary that is a permanent or seasonal sanctuary is recommended based on beel resident fish species and seasonality of breeding. In the permanent fish sanctuary one or few beels, some floodplain area or a total haor where fish catch will be banned permanently. In these sanctuaries, fish could take shelter, feed, breed, migrate and disperse to the nearby other water bodies without any kinds of disturbances. Whereas in the seasonal type of fish sanctuary in beel and floodplain areas fish catches are restricted for particular period to protect mother fish, to allow time for safe breeding and to grow their fry/fingerlings up to suitable size for 3-6 moths in a year depend on the habitat and species of fish. The main criteria are as follows for a beel nursery.

- (1) Nearly 5-10 percent of area of beel could be taken under fish sanctuary based on the suitability criteria.
- (2) Deeper parts of the beels where water remains perennially by 5-7 feet depth.
- (3) Bamboo poles, branches of trees, tetrapod, and some other necessary structures could be used in the beel sanctuary.
- (4) Fixing pillars with red flag and signboard could mark sanctuary area.

As regard to the fish sanctuary management the following are the criteria.

- (1) Co-management arrangement by the local community particularly by the fisher community residing in the area.
- (2) Sanctuary committee should be formed by the stakeholders to prepare action plan for the proper management of the sanctuary, such as beel fisheries management committee.
- (3) Representation of local elites, school teachers, women, etc. in the committee based on the willingness of the concerned fishermen community for mobilization, motivation, conflict resolution, chaos and above all for better management of the sanctuary.
- (4) The management committee should set rules and regulation for the fishing time, gear selectivity, area of fishing, species restriction, fishing type (like common fishing, share fishing, gear based fishing, etc.), marketing, share and equity distribution, etc.
- (5) Stocking of threatened/endangered fish species may be given priority in the sanctuary.
- (6) Some fishermen community may be interested in stocking fry/fingerlings in the sanctuary/floodplain for higher production. In that case, care should be taken so that stocked species are native and genetically pure, and relevant fisheries officers (DoF) should be consulted.

5. Selection criteria for floating fish cage fish culture

There is very little cage fish culture in the haor areas despite of having large floodplain rivers. This is due to lack of knowledge and proper training on cage fish culture in addition to unawareness among the fishers that fish culture can be conducted where water retains 5-6 months a year. Hence, the fish cage culture would help to proper utilization of rivers with mild flow as well as improve the livelihoods of poor fishers and increase fish production. The practice of cage culture may be intensive, semi-intensive and extensive in nature and the culture patterns are depending on stocking rates of fish, food supply, care and hydrological conditions of the habitats. The basic criteria for site are as follows.

- (1) Proper site selection with adequate depth that depends on the depth of the net and intensity of production.
- (2) Good water exchange is important in cage culture to replenish oxygen and flush away wastes.
- (3) Area where pH is almost neutral.
- (4) Using floating feeds to keep feed waste and FCR (feed conversion ratio) low.
- (5) Good communication facilities.
- (6) Proximity to the settlement area, etc.

Appendix 6.6: Technical Specification of Sub-components

Sub-components (Programs) A. COMMUNITY RESOURCE MANAGEMENT	Technical Specifications	Objectives/Description
Development of Beels		
A-1. Resource Mapping & Identification of Resources	Data collection and screening for 150 Beels	- A participatory exercise with the involvement of the stakeholders (i.e
	- Haor Upazilas of five project districts	"villagers, fishers, women, local officials, public representatives.
	- Within 29 the sub-project schemes (Component - 1)	- To develop an inventory of all available resources, e.g., beels, khals, swamp forest, khas lands, administrative location (mouza, dag, khatian
	Preparation of list of beels (not covered in HILIP) & review	etc.), status of leases and their terms in 29 sub project and district-wize.
	- Availability & status of beels (at DC Offices, etc.)	- A detailed implementation plan would be developed in consultation with the communities.
	- Identification of physical location of potential beels	
	- Assessment of lease value and legal status] DDAs to sever the 20 sub-mediante sever
	 PRAs to identify, select & mapping (with representatives from districts, Upazilas, etc. 	- PRAs to cover the 29 sub-projects areas.
	Group Formation	- Group formation (BUG) will be done by organizing general meetings
	- Process to acquire or requisite selected beels from MoL, etc.	of beneficiaries.
	- Mobilize and form groups (BUGs, BMCs)	- After MOU signing with MoL & LGED, BUGs will get lease from
	- Provide training (on excavation, conservation, etc.)	MoL representative and commence to pay lease rent. - Project with its local upazila, zila offices & DoF office will organize
	- rovide training (on excavation, conservation, etc.)	training, the project staff will facilitate the process.
A-2. Development of Beel System	- Demarcation & zoning of sanctuary (with markers)	- Area size of beels varies with location; the specification provided is
A.2.1 Establishment of sanctuary, swamp forest, etc.	- Removal of silt (excavation), strengthening of bunds, dykes	for 1 ha model size. One-hectare developed beel area has an impact on
A-2.2 Beel connectivity (canal/khal excavation)	- Planting of hizal & koroch tree samplings (200) in shallow areas	14 ha of the surrounding.
	- Making of shelters (FADs) with tree branches (2,000 m)	- About 225 km of canals/khals for the beels considered for re- excavation to maintain connectivity with the developed beels.
	Bamboos & flags (for markers & fencing) Removal of silt (excavation), strengthening of bunds, dykes	- BUGs will gradually develop other potential areas of the beel with
	 Nursery construction (water in-take & out-flow, net fixing, etc.) 	their fund and savings.
	 Nursery preparation (pond bottom cleaning, ploughing, liming, 	- Nursery will be established in a suitable area (or place) of the beel by
	manuring, predator eradication, etc.)	BUGs.
	- Procuring of spawns/fry (stocking 1 million/ha)	1
	- Nursery management (netting, feeding, plankton management,	
	liming & fertilization, etc.)	
	- Billboards	
3. FLOODPLAIN AQUACULTURE ACTIVITIES		4
B-1. Alternate Income Generating Activities (Pilot mod		
B-1.1 Fish Net-Pen Culture	Selection & identification of location for Fish Net-Pen	- Demonstration of pen aquaculture in group - Provides opportunity of livelihood development in haor area during
	Area size: About 10 ha/fish net-pen	flood months.
	Number: 2 fish-pens/district	- Fish production outside the beels; provides alternate income with
		other crop (paddy). - Suitable sites will be selected by community in consultation with
	Total: 10 fish pens (5 districts)	DOF and project staff.
	Formation of Groups (HHs, Fishers/Farmers), women included.	- Size of the net-pen size will be decided by the community on
		availability and suitability of the land. - It will create scope of fish production in flood land and economical
	Training of management group (2 days & 2 times/year) for 6 years	earning for the communities during wet months.
	For Set-up of One unit Fish Net-Pen (10 ha) for One Group	
	- Erection of nets & bamboo screens (700 m Bamboo screen, etc.)	
	- Land preparation (cleaning, eradication of predators, etc.)	4
	- Procuring fingerlings/juvenile fish (1,200/ha) and stocking	-
	- Feeding (only partial) and management	4
	- Fish culling and harvesting	
B-1.2. Fish Cage Culture	Selection & identification of location for Fish Cages installations	- Demonstration of cage aquaculture in group or individual
- Small Individual cages set of 20 units/location	Small cage: 1 unit (m ³) x 20 units (20 m ³) per selected location	- Operate and manage by 20 individuals (farmers, women, etc.)
	One set per district; total 5 sets (5 districts)	 Fish production in canals, rivers and flood plain during flood months in control method (planned aquaculture)
- Large-cage set of 10 units- joint/location	Large cage set: 10 units joint (25 m3) per selected location	- Operate and manage by a group (farmers, women, etc.)
	One set per district; total 5 sets (5 districts)	- Employment opportunity during flood season
	Formation of Groups (HHs, Fishers, Farmers)	- Introduction of Cage fish culture in Haor areas
	Training of management group (2 days & 2 times/year) for 6 years	ή -
	- Cage size (large) 20' x 10' x 4.5'	1
	- Cage material: frames, nets, drums, floats, etc.	1
	- Preparation of the site	1
	- Construction & setting up of cages, labour, etc.	
	- Procuring fingerlings (30-40 gm) and stocking	
	- Feeding (floating feed FCR 1.35) and cage management	1
B-1.3 Backyard Fish Pond Culture	Identification & selection of location for suitable backyard ponds	
(5 - 10 ponds/group); 10 members or HHs/group)	Size: 5-10 ponds/group; 10 members of HHs/group	- The selected backyard ponds may be owned individually, and the
4 groups/district x 5 districts = 20 groups	Number: 4 groups/district	ponds will also be operated and maintained individually. Forming the
	Total: 20 groups (5 districts)	group (group-oriented approach) is essentially to procure inputs such as fingerlings, fertilizers, feed, etc. collectively in order to purchase in
	Formation of Groups (HHs, Fishers, Farmers)	large quantities at reduced cost, and also convenient for the group to
	Training of management group (2 days & 2 times/year) for 6 years	receive training and extension services.
	Pond renovation & preparation for culture	- Provide additional supply of nutrition & income for HHs.
	- Making dykes & fixing nets (if necessary)	- Provides employment opportunity year around.
	- Drying, cleaning, liming, manuring, fertilization, etc.	
	Procuring fingerlings (2 fingerling/m2) and stocking	4
	- Pond management, feeding, etc.	
DIAD IN CALLS 1	Identification & selection of location for seasonal floodplain aquacul	(
B-1.4 Daukhandi Model Aquaculture		closed waters)
(2 model sites within 29 sub-project scheme area)	Area size: about 10 ha	
-	Water: seasonal 4-5 months (depth not above 8')	- Proper utilization of paddy lands during the flood months
(2 model sites within 29 sub-project scheme area)	Water: seasonal 4-5 months (depth not above 8') Number: 2 model sites within the 29 sub-project scheme area	
(2 model sites within 29 sub-project scheme area)	Water: seasonal 4-5 months (depth not above 8') Number: 2 model sites within the 29 sub-project scheme area Total: 2 models (5 districts)	- Proper utilization of paddy lands during the flood months
(2 model sites within 29 sub-project scheme area)	Water: seasonal 4-5 months (depth not above 8') Number: 2 model sites within the 29 sub-project scheme area Total: 2 models (5 districts) Formation of Groups (HHs, Fishers, Farmers)	- Proper utilization of paddy lands during the flood months
(2 model sites within 29 sub-project scheme area)	Water: seasonal 4-5 months (depth not above 8') Number: 2 model sites within the 29 sub-project scheme area Total: 2 models (5 districts) Formation of Groups (HHs, Fishers, Farmers) Training of management group (2 days & 2 times/year) for 6 years	- Proper utilization of paddy lands during the flood months
(2 model sites within 29 sub-project scheme area)	Water: seasonal 4-5 months (depth not above 8') Number: 2 model sites within the 29 sub-project scheme area Total: 2 models (5 districts) Formation of Groups (HHs, Fishers, Farmers) Training of management group (2 days & 2 times/year) for 6 years Preparation of the site	- Proper utilization of paddy lands during the flood months
(2 model sites within 29 sub-project scheme area)	Water: seasonal 4-5 months (depth not above 8) Number: 2 model sites within the 29 sub-project scheme area Total: 2 models (5 districts) Formation of Groups (HHs, Fishers, Farmers) Training of management group (2 days & 2 times/year) for 6 years. Preparation of the site - Infrastructural improvement (dyke, water regulators, net, etc.)	- Proper utilization of paddy lands during the flood months
(2 model sites within 29 sub-project scheme area)	Water: seasonal 4-5 months (depth not above 8') Number: 2 model sites within the 29 sub-project scheme area Total: 2 models (5 districts) Formation of Groups (HHs, Fishers, Farmers) Training of management group (2 days & 2 times/year) for 6 years. Preparation of the site - Infrastructural improvement (dyke, water regulators, net, etc.) - Drying, cleaning, liming, manuring, fertilization, etc.	 Proper utilization of paddy lands during the flood months Demonstration of the model for adaptation to other suitable areas.
(2 model sites within 29 sub-project scheme area) I model area size= about 10 ha	Water: seasonal 4-5 months (depth not above 8') Number: 2 model sites within the 29 sub-project scheme area Total: 2 models (5 districts) Formation of Groups (HHs, Fishers, Farmers) Training of management group (2 days & 2 times/year) for 6 years. Preparation of the site - Infrastructural improvement (dyke, water regulators, net, etc.) - Drying, cleaning, liming, manuring, fertilization, etc. - Procuring fingerlings/Fish Juvenile 5''-6'' size (10,000/ha) & stocki	Proper utilization of paddy lands during the flood months Demonstration of the model for adaptation to other suitable areas.
(2 model sites within 29 sub-project scheme area)	Water: seasonal 4-5 months (depth not above 8') Number: 2 model sites within the 29 sub-project scheme area Total: 2 models (5 districts) Formation of Groups (HHs, Fishers, Farmers) Training of management group (2 days & 2 times/year) for 6 years Preparation of the site - Infrastructural improvement (dyke, water regulators, net, etc.) - Drying, cleaning, liming, manuring, fertilization, etc. - Procuring fingerlings/Fish Juvenile 5"-6" size (10,000/ha) & stocki Selection among HHs and groups already in dry fish processing	Proper utilization of paddy lands during the flood months Demonstration of the model for adaptation to other suitable areas. ng ng - Select existing fish drying locations/sites that have potential for
(2 model sites within 29 sub-project scheme area) 1 model area size= about 10 ha	Water: seasonal 4-5 months (depth not above 8') Number 2 model sites within the 29 sub-project scheme area Total: 2 models (5 districts) Formation of Groups (HHs, Fishers, Farmers) Training of management group (2 days & 2 times/year) for 6 years Preparation of the site - Infrastructural improvement (dyke, water regulators, net, etc.) - Drying, cleaning, liming, manuring, fertilization, etc. + Procuring fingerlings/Fish Juvenile 5"-6" size (10,000/ha) & stocki Selection among HHs and groups already in dry fish processing Mobilize and organize beneficiaries groups	Proper utilization of paddy lands during the flood months Demonstration of the model for adaptation to other suitable areas. ng ng - Select existing fish drying locations/sites that have potential for development as model.
(2 model sites within 29 sub-project scheme area) I model area size= about 10 ha	Water: seasonal 4-5 months (depth not above 8') Number: 2 model sites within the 29 sub-project scheme area Total: 2 models (5 districts) Formation of Groups (HHs, Fishers, Farmers) Training of management group (2 days & 2 times/year) for 6 years Preparation of the site - Infrastructural improvement (dyke, water regulators, net, etc.) - Drying, cleaning, liming, manuring, fertilization, etc. - Procuring fingerlings/Fish Juvenile 5''-6'' size (10,000/ha) & stocki Selection among HHs and groups already in dry fish processing Mobilize and organize beneficiaries groups Training on improved processing & awareness on sanitation, hygiene	Proper utilization of paddy lands during the flood months Demonstration of the model for adaptation to other suitable areas. ng ng - Select existing fish drying locations/sites that have potential for development as model.
(2 model sites within 29 sub-project scheme area) 1 model area size= about 10 ha	Water: seasonal 4-5 months (depth not above 8') Number 2 model sites within the 29 sub-project scheme area Total: 2 models (5 districts) Formation of Groups (HHs, Fishers, Farmers) Training of management group (2 days & 2 times/year) for 6 years Preparation of the site - Infrastructural improvement (dyke, water regulators, net, etc.) - Drying, cleaning, liming, manuring, fertilization, etc. + Procuring fingerlings/Fish Juvenile 5"-6" size (10,000/ha) & stocki Selection among HHs and groups already in dry fish processing Mobilize and organize beneficiaries groups	Proper utilization of paddy lands during the flood months Demonstration of the model for adaptation to other suitable areas. ng ng - Select existing fish drying locations/sites that have potential for development as model.

Sub-components (Programs)	Technical Specifications	Objectives/Description
C. FISHERIES SUPPORT SERVICES	Fisheries training and extension material development	- DoF (thru DFOs, UFOs) to provide technical assistance to beneficiaries whenever needed
Strengthening of Fisheries Extension	Provision of promotional materials for training & extension services	- Established relationship will continue even after the project period in a sustainable manner.
	Water and fish disease testing capacity building of DoF offices.	- Extension, training and diagnostic facilities of DFOs, UFOs offices in
	Develop access to public institutions for beneficiaries	Haor areas will be developed.
D. TRAINING/WORKSHOP/SEMINAR D-1. Training of Project Staff/Officer	Training for field staff deployed in field (PMO, PIU)	Resource persons (trainers): project staff, officers from DC, DoF, DFO
1. Humme of Hojeet Statis Officer	 25 field staff/four-day course 	- Skill development on aquatic biodiversity, beel management,
	- 2 courses/ per year for 5 districts	aquaculture activities, nursing & marketing - Submersible plant management, etc.
	 Training duration for 6 years Training venue at PIU Office (Dhaka) 	 Record keeping & monitoring/evaluation Update information development on project activities
D-2. Training of Beneficiaries	- Total number of trainings = 10 Training for beneficiaries	- Resource persons (trainers): consultants, officers from DoF, DFO
D-2.1 Fish Net-Pen Culture	- 20 participants/one-day course	- Skill development of beneficiary on Net-Pen Fish Culture
	 - 1 course/district per year - Training duration for 6 years 	- Successful operation of Net-Pen fish culture demonstration
	 Training venue selected in each district Total number of trainings = 25 	
D-2.2 Fish Cage Culture	- 20 participants/one-day course	- Introduction of appropriate fish cage culture in Haor areas
	 1 course/district per year Training duration for 6 years 	 Employment opportunity during flood months. Fish supply during scarcity of fish in the market
	- Training venue selected in each district - Total number of trainings = 25	- an approximation of a manual and a manual
D-2.3 Backyard Fish Pond Culture	- 25 participants/one-day course	- Skill development on pond aquaculture
	 1 course/district per year Training duration for 6 years 	- Increase present production rate of backyard fish production.
	- Training venue selected in each district - Total number of trainings = 25	
D-2.4 Daukhandi Model Aquaculture	 20 participants/one-day course 	- Skill development among the poor and landless HHs.
	 1 course/district per year Training duration for 6 years 	- Better use and management of flood plain aquaculture.
	- Training venue selected in each district - Total number of trainings = 10	
D-2.5 Capacity Building of BUGs	 25 participants/one-day course 	- Better group management and saving program development
	- 3 meetings/per year/district	- Develop modalities to get access to the public organization for beel
	- Training duration for 6 years	leasing and other disputes (to reduce social conflicts/tension) - Health care, education and social relationship development.
	 Training venue selected in each district Total number of trainings = 75 	
D-2.6 Fish Drying & Fermentation	 20 participants/one-day course 2 courses/district per year 	Skill development Acquire new ideas on production of value added fisheries product
	- 1 meeting/per year/district	Acquire new ideas on production of value added fisheries product
	 Training duration for 6 years Training venue selected in each district 	
	- Total number of trainings = 50	
D-3 Consultation Meetings with Gos & NGOs	 20 participants/one-day meeting 1 meeting/per year/district 	Participants: Govt. officials, public representatives Resource persons (trainers): consultants, officers from DoF, DFO
	- Meeting duration for 6 years	- To inform on activities related to beel management & livelihood
	 Meeting venue selected in each district Total number of meetings = 15 	 To discuss on problems/issue & to find solutions (resolve) To get necessary assistance & advise from different organizations
		- To promote better understandings among local agencies
D-4 Workshops (on need based subjects)	- 30 participants/one-day workshop	- To promote & continue the activities by NGOs (for sustainability)
	 2 workshops/per year/district Workshop duration for 6 years 	 Find ways to improve & get better benefits of the activities Resolving issues/problems on a need basis (depending on the areas)
	 Workshop venue selected in each district Total number of trainings = 40 	- Dissemination and sharing of technology
D-5 Seminars on Findings, New Ideas & Results	- 50 participants/one-day seminar	Experience sharing
D-5 Seminars on Findings, New Ideas & Results	 - 1 seminar/year in Dhaka (Every year for 5 years) 	Dissemination of project experience with other stakeholders, planners,
	- 1 Seminars/year/district (every year for 5 years)	decision makers.
	 - 6 seminars in the closing year (1 in Dhaka & 5 in districts) - Total number of seminars = 30 	
E. Exchange Visits for Experience Sharing	- 20 participants/batch/exchange visit	Knowledge and experience sharing.
	 2 batches per year/district Exchange visit duration for 5 years 	Adaptation of technologies.
	- Total number of visits = 40	
F. Monitoring, Legal Support & Studies	Study the environmental and social dynamics of the beels, conduct	- Get data/information on the aquatic biodiversity & social dynamics o
F-1 Third Party M & E / Knowledge Management	base line survey and impact during/after the project intervention.	the hoar project area.
	Regular monitoring of selected representing beels in 29 sub project area.	 Assess the impact of project intervention on aquatic biodiversity and socioeconomic status of beel and its impacted area & inhabitants.
	Production of reports on biodiversity, environmental (aquatic), social study before and after intervention of the project.	-Documentation on environment, productivity and socio economic changes in the project area
F-2 BUGs Auditing & Accounting Support for 6 years	An audit firm will be engaged by the project during project period	Better group management by accounting transparency
	The firm will prepare printed reports for individual BUG and provide	 Economical study of the project intervention.
	to the project. Participate in the consultation meeting of the group.	- Capacity building of the BUG members in accounts management.
		- Efficiency building on financial documentation & record keeping.
F-3 Legal Support for 6 years	5 lawyers for 5 districts will be engaged to resolve any legal issues with MoL and Judiciary department in favour of BUG, and one	 Assist BUG and its members to resolve the legal aspects of beel ownership.
	lawyer will be engaged at Dhaka to take up the appeal cases at centre Resolve the legal complication if any in Beel leasing process or	
	conflict with other.	- Capacity building of BUG to access the public water bodies.
	Resolve land endorsement with neighbouring land owners.	

Appendixes 7.1 to 7.8

Appendix 7.1 Manpower Concerned to Project Implementation and O&M in BWDB

0&M I	Directorate
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Office Name	No.	Position	Nos. of Approved Position	Nos. of Filled Position	Nos. of Vacant Position
O&M Directorate	1	Superintending Engineer	1	1	0
	2	Executive Engineer	2	1	1
	3	Asstt. Engineer	6	2	4
	4	Stenographer	1	1	0
	5	U.D. Asstt.	1	1	0
	6	Sr. D.E. Operator	1	1	0
	7	Data Entry Operator	1	1	0
	8	Sr. Accounts Asstt.	1	1	0
	9	L.D.A CumTypist	2	0	2
	10	Driver	3	3	0
	11	DMO	1	1	0
	12	Chowkider	1	0	1
	13	MLSS / Peon	3	1	2
		Total	24	14	10

Sunamganj O&M Division

Division Name	Sub-division Name	Section Name	No.	Position		Nos. of Approved Position	Nos. of Filled Position	Nos. of Vacant Position
Sunamganj			1	Executive Engineer		1	1	-
O&M Division			2	Assistant Engineer		1	-	1
			3	Estimator		1	1	-
			4	U.D. Assistant		1	-	1
			5	Assistant Accountant		1	-	1
			6	Senior Accounts Assistant		1	-	1
			7	Accounts Clerk		1	1	-
			8	D.E.O		3	-	3
			9	Revenue Surveyor		1	-	1
			10	D.M.O		1	-	1
			11	Driver		1	1	-
			12	Tracer		1	-	1
			13	MLSS		4	-	4
			14	Chowkidar		1	-	1
			15	Mali		1	-	1
				•	Sub-total	20	4	16
	Sunamganj		1	Subdivisional Engineer		1	-	1
	O&M		2	L.D.Assistant cum Typist		1	1	-
	Sub-division-1		3	Accounts Clerk		1	-	1
			4	Surveyor		1	1	-
			5	Speed Boat Driver		1	1	-
			6	MLSS		2	1	1
			7	Chowkidar		1	1	-
			8	Assistant Cook *		1	-	1
			9	Electrician		1	-	1
			10	Bearer		1	-	1
					Sub-total	11	5	6
		Sunamganj	1	Sub-Assistant Engineer/S.O		1	1	-
		O&M	2	Work Assistant		2	2	-
		Section-1	3	MLSS		1	-	1
				•	Sub-total	4	3	1
		Jamalgang	1	Sub-Assistant Engineer/S.O		1	1	-
		O&M	2	Work Assistant		2	1	1
		Section	3	MLSS		1	-	1
				•	Sub-total	4	2	2
		Tahirpur	1	Sub-Assistant Engineer/S.O		1	1	-
		O&M	2	Work Assistant		2	-	2
		Section	3	MLSS		1	-	1
				a	Sub-total	4	1	3

Division Name	Sub-division Name	Section Name	No.	Position		Nos. of Approved Position	Nos. of Filled Position	Nos. of Vacant Positior
	Sunamganj	•	1	Subdivisional Engineer		1	-	1
	O&M		2	L.D.Assistant cum Typist		1	-	1
	Sub-division-2		3	Accounts Clerk		1	-	1
			4	Surveyor		1	-	1
			5	Speed Boat Driver		1	1	-
			6	MLSS		2	1	1
			7	Chowkidar		1	1	-
					Sub-total	8	3	5
		Sunamganj	1	Sub-Assistant Engineer/S.O		1	1	-
		O&M	2	Work Assistant		2	-	2
		Section-2	3	MLSS		1	-	1
					Sub-total	4	1	3
		Dharmapasha	1	Sub-Assistant Engineer/S.O		1	1	-
		O&M	2	Work Assistant		2	1	1
		Section-1	3	MLSS		1	-	1
					Sub-total	4	2	2
		Dharmapasha	1	Sub-Assistant Engineer/S.O	Sub totat	1	1	-
		O&M	2	Work Assistant		2	-	2
		Section-2	3	MLSS		1	-	1
			5	ML33	Sub-total	4	1	3
	Derai		1	Subdivisional Engineer	Sub-ioiui	4	1	-
	O&M		2	L.D.Assistant cum Typist		1	1	-
	Sub-division		3	Accounts Clerk		1	-	
	Sub division					1		1
			4	Surveyor		1	-	1
			5	Driver		1	-	1
			6	Speed Boat Driver		1	-	1
			7	MLSS		2	1	1
			8	Chowkidar		1	1	-
					Sub-total	9	4	5
		Derai	1	Sub-Assistant Engineer/S.O		1	1	-
		O&M	2	Work Assistant		2	-	2
		Section-1	3	MLSS		1	-	1
					Sub-total	4	1	3
		Derai	1	Sub-Assistant Engineer/S.O		1	1	-
		O&M	2	Work Assistant		2	-	2
		Section-2	3	MLSS		1	-	1
					Sub-total	4	1	3
	Jaganathpur		1	Subdivisional Engineer		1	-	1
	O&M		2	L.D.Assistant cum Typist		1	-	1
	Sub-division		3	Accounts Clerk		1	-	1
			4	Surveyor		1	-	1
			5	Driver		1	-	1
			6	Speed Boat Driver		1	-	1
			7	MLSS		2		1
			8				1	1
			ð	Chowkidar	Cal to tal	1	1	- 7
		T	<u> </u>	Cash Assistant English (C.C.	Sub-total	9	2	7
		Jaganathpur	1	Sub-Assistant Engineer/S.O		1	1	-
		O&M Section-1	2	Work Assistant		2	-	2
		Section-1	3	MLSS		1	-	1
				1	Sub-total	4	1	3
		Jaganathpur	1	Sub-Assistant Engineer/S.		1	1	-
		O&M	2	Work Assistant		2	-	2
		Section-2	3	MLSS		1	-	1
					Sub-total	17	5	12
		•	~ .	Total		97	32	65

Note: * One is on duty as Cook.

Netrokona O&M Division

Division Name	Sub-division Name	Section Name	No.	Position		Nos. of Approved Position	Nos. of Filled Position	Nos. of Vacant Position
Netrokona			1	Executive Engineer		1	1	0
			2	Asstt. Engineer		1	0	1
			3	AEO		1	0	1
51VISION			4	SAE/Estimator		1	1	0
Name Netrokona O&M Division			5	U.D. Asstt.		1	0	1
			6	Asstt. Accountant		1	0	1
			7	Sr. Accounts Asstt.		1	1	0
						-		-
			8	Accounts Clerk		1	0	1
			9	L.D. Asstt. CumTypist/DEO		3	-	2
			10	DMO		1	0	1
			11	Driver		1	1	0
			12	Tracer		1	0	1
			13	MLSS		4	2	2
			14	Chowkider (Guard)		1	0	1
			15	Mali (Gardener)		1	0	1
			16	Rev. Surveyor		1	0	1
				Sı	ub-total	21	7	14
	Netrokona O&M		1	Sub-divisional Engineer		1	0	1
	Sub-division		2	LDA Asstt. Cum Typist		1	1	0
			3	Account Clerk		1	0	1
			4	Surveyor (Engineering)		1	1	0
			5	Driver		1	0	1
			6	Speed-boat Driver		1	0	1
			7	MLSS		2	1	1
			8	Pump Operator		1	0	1
			9	Chowkider		1	0	
						1		1
			10	Asstt. Cook		-	0	1
			11	Bearer		1	1	0
				Si	ub-total	12	4	8
		Netrokona	1	SAE/SO		1	1	0
		O&M Section	2	Work Assistant		2	4 8 1 0 2 0 0 1	
			3	MLSS		1		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
			5		ub-total	4	-	
		Thakurakona	1	SAE/SO	10-10101	4	1	0
								-
		O&M Section	2	Work Assistant		2	1	1
			3	MLSS		1	1	0
					ub-total	4	3	1
	Mohongang		1	Sub-divisional Engineer		1	1	0
	O&M		2	LD Asstt. Cum-Typist		1	1	0
	Sub-division		3	Accounts Clerk		1	0	1
			4	Surveyor (Engineering)		1	0	1
			5	Driver		1	0	1
			6	Speed boat Driver		1	0	1
			7	MLSS		2	0	2
			8	Chowkider		1	0	1
			9	Asstt. Cook		1	0	1
			10	Bearer		1	0	1
			-		ub-total	11	2	9
		Mohonganj	1	SAE/SO		1	1	0
		O&M	2	Work Assistant		2	1	1
		Section-I	3	MLSS		1	0	1
			5		ub-total	4	2	2
		Mohonganj	1	SAE/SO	10 101Ul	1	1	0
		O&M						
		Section-II	2	Work Assistant		2	1	1
		Section-II	3	MLSS		1	0	1
					ub-total	4	2	2
		Mohonganj	1	SAE/SO		1	0	1
		O&M	2	Work Assistant		2	0	2
D&M Division		Section-III	3	MLSS		1	0	1
				Sı	ub-total	4	0	4
		•	<i>a</i>	Total		64	23	41

Kishoreganj WD Division

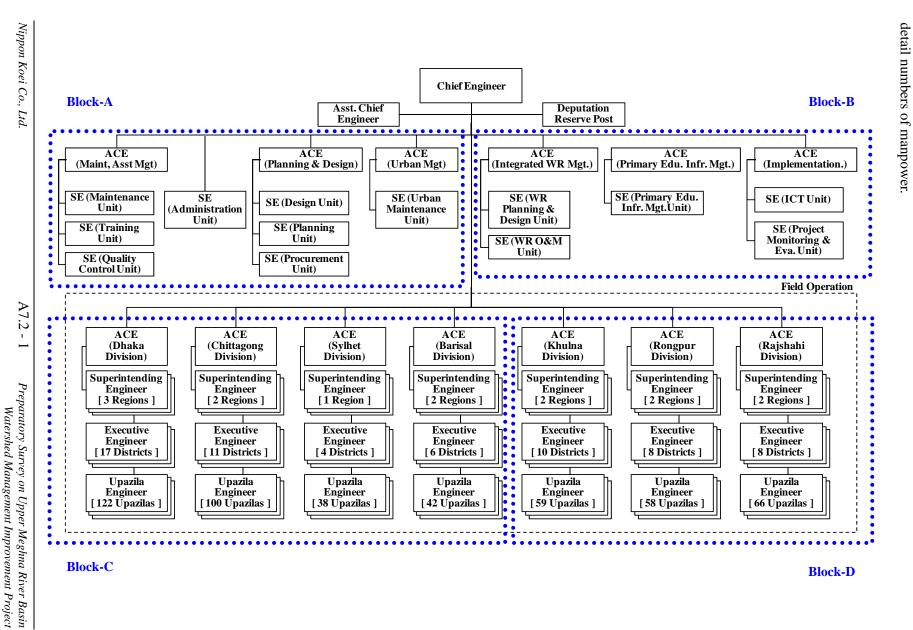
Division Name	Sub-division Name	Section Name	No.	Position		Nos. of Approved Position	Nos. of Filled Position	Nos. of Vacant Position
Kishoreganj			1	Executive Engineer		1	1	-
VD			2	Assistant Engineer		1	-	1
Division			3	Estimator		1	1	
			4	U.D. Assistant		1	1	
			5	DEO		1	-	Positio
			6	Senior Accounts Assistant		1	-	
			7	Driver		1	1	
			8	Revenue Surveyor		1	-	
			9	D.M.O		1	-	
			10	MLSS		2	2	
			11	Sweeper		1	-	
			12	Guard		2	-	
			12	Speed Boat Driver		1	_	
			15	Speed Boat Driver	Sub-total	15	6	
Division Name Sub- shoreganj D vision Sub- Sub-d Sub-d Bhaira WD	Kishoreganj		1	Sub divisional Engineer	500-10101	15	1	-
	O&M		2				-	
	Sub-division		2	LD Assistant cum Typist Accounts Clerk		1	- 1	
Name Kishoreganj WD Division Kisho O&M Sub-ci Bhair WD								
			4	Driver		1	-	
			5	Speed Boat Driver		1	1	
			6	MLSS		2	1	
			7	Chowkidar		1	1	
			8	Surveyor		1	-	1
			9	Bearer		1	1	
				1	Sub-total	10	6	4
		KIshoreganj	1	Sub-Assistant Engineer/S.O		1	1	-
		O&M Section	2	Work Assistant		2	2	-
			3	MLSS		1	1	-
					Sub-total	4	4	-
		Bajitpur O&M	1	Sub-Assistant Engineer/S.O		1	1	-
		Section	2	Work Assistant		2	-	2
			3	MLSS		1	-	1
					Sub-total	4	1	3
		Bhairab O&M	1	Sub-Assistant Engineer/S.O		1	1	-
		Section	2	Work Assistant		2	-	2
			3	MLSS		1	-	1
					Sub-total	4	1	3
	Bhairab	•	1	Sub divisional Engineer		1	1	-
			2	LD Assistant cum Typist		1	-	1
	Sub-division		3	Accounts Clerk		1	-	1
			4	Driver		1	-	1
			5	Sub-Assistant Engineer/S.O Work Assistant MLSS Sub-Assistant Engineer/S.O Work Assistant Work Assistant MLSS Sub-Assistant Engineer/S.O Work Assistant MLSS Sub-total Sub-total Accounts Clerk Driver Speed Boat Driver	1	-	1	
			6	MLSS		2	-	4 - - - - 2 1 3 - 1
			7	Chowkidar		1	-	
			8	Surveyor		1	1	
			9	Bearer		1	-	
			-		Sub-total	10	2	
		Bhairab WD	1	Sub-Assistant Engineer/S.O	Suo ioiui	10	1	
		Setion-1	2	Work Assistant		2	1	
			3	MLSS		1	-	
			3	MT99	Sub tart	4	- 2	
		Dhoirek WD	1	Sub Assistant Engineer/C.O.	Sub-total			
K O S B W	1	Bhairab WD	1	Sub-Assistant Engineer/S.O		1	1	
		Setion-2	^					
		Setion-2	2	Work Assistant		2	-	
		Setion-2	2 3	Work Assistant MLSS	Sub-total	2 1 4	- - 1	1

Brahmanbaria WD Division

Division Name	Sub-division Name	Section Name	No.	Position	Nos. of Approved Position	Nos. of Filled Position	Nos. of Vacant Position
Brahmanbaria	1	1	1	Executive Engineer	1	1	0
WD			2	Revenue Officer	1	0	1
Division			3	Sub-assistant Engineer/Estimator	1	0	1
			4	Senior Clerk	1	0	1
			5	DEO	1	0	1
			6 7	Driver MLSS	2	0	2
			8	Guard	1	0	1
			0	Sub-total	9	1	8
	Ashuganj		1	Sub-divisional Engineer		0	1
	WD		2	Surveyor (Engineering)	1	0	1
	Sub-division		3	DEO	1	0	1
			4	Driver	1	Ő	1
			5	MLSS	1	0	1
			6	Guard	1	0	1
				Sub-total	6	0	6
		Ashuganj	1	Sub-assistant Engineer/Section Officer	1	0	1
		WD	2	Enumerator	1	0	1
		Section	3	MLSS	1	0	1
				Sub-total	3	0	3
		Nasirnagar	1	Sub-assistant Engineer/Section Officer	1	0	1
		WD	2	Work Assistant	1	0	1
		Section	3	MLSS	1	0	1
				Sub-total	3	0	3
		Shorail	1	Sub-assistant Engineer/Section Officer	1	0	1
		WD Section	2	Work Assistant	1	0	1
		Section	3	MLSS	1	0	1
	Mahimanan		1	Sub-total	3	0	3
	Nabinagar WD		1	Sub-divisional Engineer	1	0	1
	WD Sub-division		2	Surveyor (Engineering)	1	0	1
	300-01/181011		3	DEO Driver	1	0	$ \begin{array}{c} 1\\ 1\\ 3\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 3\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$
			5	MLSS	1	0	1
			6	Guard	1	0	1
			0	Sub-total	6	0	6
		Nabinagar	1	Sub-assistant Engineer/Section Officer	1	0	1 1 1
		WD	2	Work Assistant	1	0	
		Section-I	3	MLSS	1	0	1
				Sub-total	3	0	3
		Nabinagar	1	Sub-assistant Engineer/Section Officer	1	0	1
		WD	2	Surveyor	1	0	1
		Section-II	3	MLSS	1	0	1
				Sub-total	3	0	3
		Bancharampur	1	Sub-assistant Engineer/Section Officer	1	0	1
		WD	2	Surveyor	1	0	1
		Section	3	MLSS	1	0	1
				Sub-total	3	0	3
	Brahmanbaria		1	Sub-divisional Engineer	1	1	0
	O&M		2	L D Assistant-cum-Typist	1	1	0
	Sub-division		3	Accounts Clerk	1	1	0
			4	Surveyor (Engineering)	1	1	0
			5	Driver	1	0	1
			6	Pump Operator	1	0	1
			7	MLSS	2	0	2
			8	Guard Assistant Cook	1	0	1
			9 10		1	1 0	0
			10	Bearer Sub-total	1	5	6
		Brahmanbaria	1	Sub-assistant Engineer/Section Officer	1	1	0
		O&M	2	Work Assistant	2	2	0
		Section-I	3	MLSS	1	0	1
			5	Sub-total	4	3	1
		Brahmanbaria	1	Sub-assistant Engineer/Section Officer	-7	1	0
		O&M	2	Work Assistant	1	0	1
		Section-II	3	MLSS	1	0	1
			5	Sub-total	3	1	2
		Brahmanbaria	1	Sub-assistant Engineer/Section Officer	1	1	0
		O&M	2	Work Assistant	1	0	1
		Section-III	3	MLSS	1	0	1
				Sub-total	3	1	2
	+	1		and Total	60	ÎI	- 49

Habiganj O&M Division

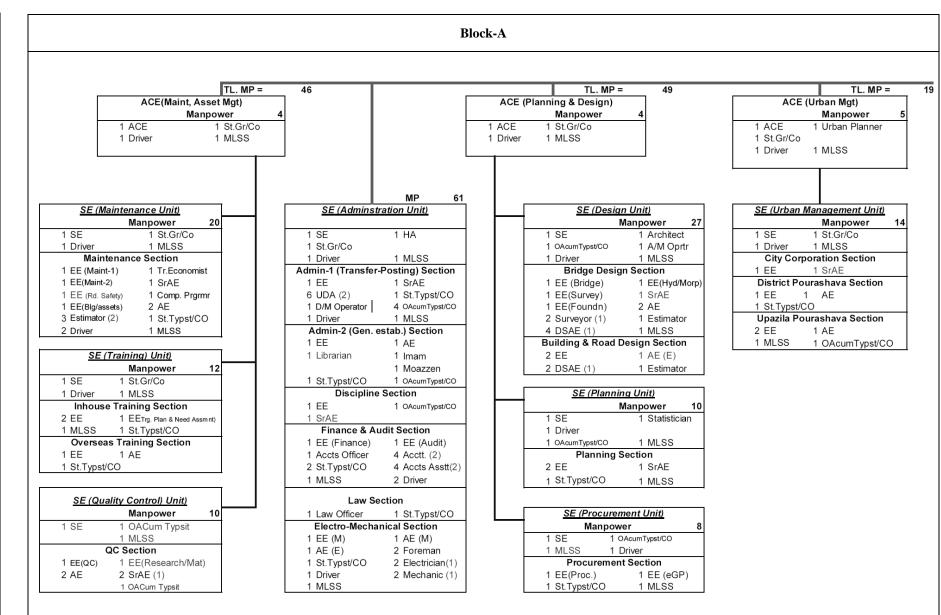
Division Name	Sub-division Name	Section Name	No.	Position		Nos. of Approved Position	Nos. of Filled Position	Nos. of Vacant Position
Habiganj			1	Executive Engineer		1	1	0
D&M			2	Asstt. Engineer		1	0	1
			3	SAE/Estimator		1	1	0
			4	U.D. Asstt.		1	0	1
			5	Asstt. Accountant		1	0	1
			6	Sr. Accounts Asstt.		1	0	1
			7	Accounts Clerk		1	1	0
			8	L.D. Asstt. CumTypist/DEO		3	1	2
			9	DMO		1	0	1
			10	Driver		1	1	0
			11	Tracer		1	0	1
			12	MLSS		4	2	2
			13	Chowkider (Guard)		1	0	1
			14	Mali (Gardener)		1	0	1
			15	Rev. Surveyor		1	0	1
					Sub-total	20	7	13
	Habiganj		1	Sub-divisional Engineer		1	0	1
	O&M		2	LD Asstt. Cum Typist		1	1	0
	Sub-division-1		3	Account Clerk		1	0	1
			4	Surveyor (Engineering)		1	0	1
			5	Driver		1	0	
			6	Speed-boat Driver		1	0	
			7	Pump Operator		1	1	-
			8	MLSS		2	1	
			9	Chowkider		1	1	
			10	Asstt. Cook		1	1 0	
			11 12	Bearer		1	0	1 1 0 1 0 0 1 1 8 0 0 1 1 0 1 1 0 1 1 2
			12	Imam	Sub total	1	5	
		Habiganj	1	SAE/SO	Sub-total	15	1	
		O&M Section	2	Work Assistant		2	2	
		Oalwi Section	3	MLSS		1	0	
			3	MLSS	Sub-total	4	3	8 0 0 1 1 1 0 1
		Balla O&M	1	SAE/SO	Sub-ioiui	4	1	
		Section	2	Work Assistant		1	0	
		Section	3	MLSS		1	0	
			5	MESS	Sub-total	3	1	
		Bahubal	1	SAE/SO	Suo ioitti	1	1	0
		O&M Section	2	Work Assistant		1	0	1
			3	MLSS		1	0	1
					Sub-total	3	1	2
	Habiganj		1	Sub-divisional Engineer		1	1	0
	O&M		2	LD Asstt. Cum-Typist		1	0	1
	Sub-division-2		2 3	Accounts Clerk		1	0	1
			4	Surveyor (Engineering)		1	0	1
			5	Driver		1	0	1
			6	MLSS		2	1	1
			7	Chowkider		1	0	1
					Sub-total	8	2	6
		Habiganj	1	SAE/SO		1	0	1
		Town Protec.	2	Work Assistant		2	2	0
		Section	3	MLSS		1	0	1
				1	Sub-total	4	2	2
		Baniachong	1	SAE/SO		1	1	0
		O&M Section		Work Assistant		1	0	1
			3	MLSS		1	0	1
					Sub-total	3	1	2
		Madanpur	1	SAE/SO		1	0	1
		O&M Section		Work Assistant		1	1	0
			3	MLSS		1	0	1
O S H O					Sub-total	3	1	2
			Grand	l Total		61	23	38



Appendix 7.2 Manpower Concerned to Project Implementation and O&M in LGED

The overall structure below is divided into four blocks in the following four pages in order to show the

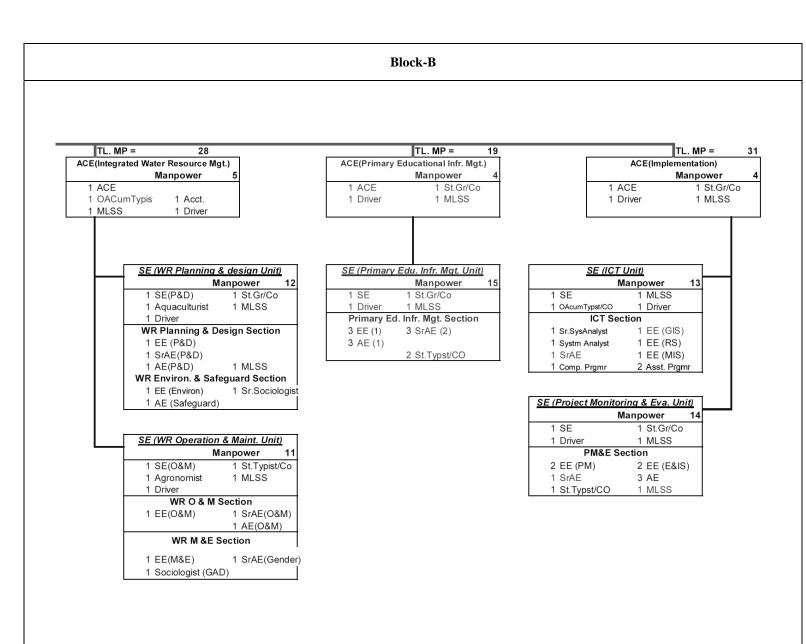
Manpower Concerned to Project Implementation and O&M in LGED Appendix 7.2



Manpower Concerned to Project Implementation and O&M in LGED Appendix 7.2

Nippon Koei Co., Ltd.

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						Blo	ck-C							
		TL. MP	2731		TL. MP	2172			TL. MI	830			TL. M	IF
	ACE (Dhal	ka Division)		ACE (Chittag	gong Division)			ACE (Sylh	et Division)			ACE (Barisa	l Division)	
	Manp	ower 15	t	Manp	ower 11			Manp	ower 11			Manpo	wer 10)
	1 ACE	1 EE (Impl.)	ł	1 ACE	1 EE (Imp)	1 A		1 EE (Im	21)		1 ACE	1 EE (In	
	1 EE (O&M)	1 EE (M)		1 EE (O&M)	1 EE (M)	.)		E (0&M)	1 EE (M)	51.7		1 EE (O&M)	1 EE (M	
	1 Sr. Socilgist	1 AE		1 Sr. Socilgist	1 AE			r. Socilgist	1 AE			1 Sr. Socilgist	1 AE	- /
	1 OACumTypist/0			1 St.Gr./Co	1 SAE			.Gr./Co	1 SAE			1 St.Gr./Co	1 SAE	
		3 Driver		1 Acctt.	2 MLSS		1 A		2 MLSS			1 Acctt.	1 MLSS	3
	1 Acct.Asstt.	3 MLSS	l											
			T											
Sup	erintending Er	ngineers-3 Regions	ł	Superintending E	ngineers-2 Reg	ions	Superi	ntending E	ngineers-1 Re	gion	Sup	erintending Eng	gineers-2 Re	egi
(ır & Mymensingh ions)		(Comilla & Chit	tagong Regions)		(Sylhet	Region)			(Barisal & Patual	khali Region	ıs)
MP	-	12 x 3 = 36	ł	MP	12 x 2 =	24	MP		12 x 1 =	12	MP	12*2=		
	1 SE	3 EE (2)	t	1 SE	3 EE (2)		1 S	E	3 EE (2)			1 SE	3 EE (2	<u>'</u>)
	1 AE	1 SAE		1 AE	1 SAE		1 A	E	1 SAE			1 AE	1 SAE	,
	1 Acctt. Asstt.	1 StGr/Co		1 Acctt. Asstt.	1 StGr/Co		1 A	cctt. Asstt.	1 StGr/C	o l		1 Acctt. Asstt.	1 StGr/0	Co
	2 Driver	2 MLSS (1)		2 Driver	2 MLSS (1)	2 D	river	2 MLSS	(1)		2 Driver	2 MLSS	3 (1
	EE (17 Distr	icts) Gr. Dt. 5	I	EE (11 Dist	ricts) Gr. Dt.6		E	EE (4 Distri	icts) Gr. Dt. 1			1 OACumTpst (F	^p t.khali)	
MΡ	(19+2) x 12 =	= 252	I	MP (19+2) x 5 =	105		MP (1	9+2) x 3 =	63			EE (6 District	ts) Gr. Dt. 2	
	22X5 =	110 = 362		22X 6 =	132 =	237		2X1 =	22 =	85	MP	(19+2) x 4 =	84	
	1 EE	1 Sr.AE	I	1 EE	1 Sr.AE		1 E		1 Sr.AE			22 X 2 =	44 =	
	1 AE	1 AE (M)*		1 AE	1 AE (M)*		1 A		1 AE (M)			1 EE	1 Sr.AE	
	1 Sociologist	1 Foreman		1 Sociologist	1 Foremar	n		ociologist	1 Forema	an		1 AE	1 AE (N	
	2 SAE(*1)	1 Acctt.		2 SAE(*1)	1 Acctt.			AE(*1)	1 Acctt.			1 Sociologist	1 Forem	
	1 UDA	1 Accts Asst.*		1 UDA	1 Accts As		1 U		1 Accts A			2 SAE(*1)	1 Acctt.	
	1 St.Typst/CO	1 Electrician		1 St.Typst/CO	1 Electricia			t.Typst/CO	1 Electric			1 UDA	1 Accts	
	3 Driver	3 Roll. Driver		3 Driver	3 Roll. Driv			river	3 Roll. Dr			1 St.Typst/CO	1 Electr	
	1 MLSS	1 Truck Driver	ļ	1 MLSS	1 Truck Di	iver	1 M	LSS	1 Truck E	Driver		3 Driver	3 Roll. E	
	UE (122	Upazilas)	ł		Upazilas)	10.00		UE (38	Upazilas)			1 MLSS	1 Truck	<u>.</u> Dr
ΜP	=	19 x 122 = 2318	ł	MP	19 x 100 =	1900	MP		19 x 38 =	722		UE (42 U	. ,	
	1 UE	1 UAE		1 UE	1 UAE		1 U		1 UAE		MP	19 x 40		
	2 SAE	1 DSAE		2 SAE	1 DSAE		2 S		1 DSAE			1 UE	1 UAE	_
	4 WA	1 Surveyor		4 WA	1 Surveyo		4 W		1 Survey			2 SAE	1 DSAE	
	1 C.Org.	1 Electrician		1 C.Org.	1 Electricia	in		.Org.	1 Electric	ıan		4 WA	1 Surve	
	1 Acct. Asst.	1 Acctt.		1 Acct. Asst.	1 Acctt.			cct. Asst.	1 Acctt.			1 C.Org.	1 Electr	
	1 OAcumTypist	1 OA		1 OAcumTypist	1 OA			AcumTypist				1 Acct. Asst.	1 Acctt.	,
	2 MLSS	1 Chowkider	1	2 MLSS	1 Chowkic	er	2 M	LSS	1 Chowk	der		1 OAcumTypist	1 OA	
												2 MLSS	1 Chow	JV ic

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			ock-D	Bl		
1464	TL. MP		TL. MF 1306		TL. MF 1369	
	ni Division)	ACE (Rajshal	ur Division)	ACE (Rongp	Division)	ACE (Khulna
ĺ	wer 15	Manpo	wer 10	Manpo	e r 11	Manpov
	1 EE (Impl.)	1 ACE	1 EE (Impl.)	1 ACE	1 EE (Impl.)	1 ACE
ĺ	1 EE (M)	1 EE (O&M)	1 EE (M)	1 EE (O&M)	1 EE (M)	1 EE (O&M)
ĺ	1 AE	1 Sr. Socilgist	1 AE	1 Sr. Socilgist	1 AE	1 Sr. Socilgist
ĺ	1 SAE	1 OACumTypist/C	1 SAE	1 St.Gr./Co	1 SAE	1 St.Gr./Co
ĺ	3 Driver		1 MLSS	1 Acctt.	2 MLSS	1 Acctt.
İ	3 MLSS	1 Acct.Asstt.				
1						
4	ineers-2 Regions	Superintending Eng	ineers-2 Regions	Superintending En	eers-2 Regions	uperintending Eng
	gra Regions)	(Rajshahi & Bo	gpur Regions)	(Dinajpur & Rar	e Regions)	(Khulna & Jess
4	24	MP 12*2=	24	MP 12*2=	24	IP 12*2=
ĺ	3 EE (2)	1 SE	3 EE (2)	1 SE	3 EE (2)	1 SE
ĺ	1 SAE	1 AE	1 SAE	1 AE	1 SAE	1 AE
ĺ	1 StGr/Co(RS)	1 Acctt. Asstt.	1 StGr/Co(RP)	1 Acctt. Asstt.	1 StGr/Co(Kh)	1 Acctt. Asstt.
	2 MLSS (1)	2 Driver	2 MLSS (1)	2 Driver	2 MLSS (1)	2 Driver
		1 OACumTpst (E		1 OACumTpst (· · /	1 OACumTpst (J
ĺ	• /	EE (8 District		EE (8 Distric		EE (10 Distric
ĺ	105	MP (19+2) x 5 =	126	MP (19+2) x 6 =	47	IP (19+2) x 7 =
ĺ	66 = 171	22 X3 =	44 = 170	22 X2 =	66 = 213	22 X3 =
ĺ	1 Sr.AE	1 EE	1 Sr.AE	1 EE	1 Sr.AE	1 EE
ĺ	1 AE (M)*	1 AE	1 AE (M)*	1 AE	1 AE (M)*	1 AE
ĺ	1 Foreman	1 Sociologist	1 Foreman	1 Sociologist	1 Foreman	1 Sociologist
1	1 Acctt.	2 SAE(*1)	1 Acctt.	2 SAE(*1)	1 Acctt.	2 SAE(*1)
ĺ	1 Accts Asst.*	1 UDA	1 Accts Asst.*	1 UDA	1 Accts Asst.*	1 UDA
1	1 Electrician	1 St.Typst/CO	1 Electrician	1 St.Typst/CO	1 Electrician	1 St.Typst/CO
ĺ	3 Roll. Driver	3 Driver	3 Roll. Driver	3 Driver	3 Roll. Driver	3 Driver
	1 Truck Driver	1 MLSS	1 Truck Driver	1 MLSS	1 Truck Driver	1 MLSS
İ	pazilas)	UE (66 U	pazilas)	UE (58 U	izilas)	UE (59 U
i –	9 x 66 = 1254	MP 1	9 x 58 = 1102	MP	x 59 = 1121	IP 1
1	1 UAE	1 UE	1 UAE	1 UE	1 UAE	1 UE
ĺ	1 DSAE	2 SAE	1 DSAE	2 SAE	1 DSAE	2 SAE
	1 Surveyor	4 WA	1 Surveyor	4 WA	1 Surveyor	4 WA
ĺ	1 Electrician	1 C.Org.	1 Electrician	1 C.Org.	1 Electrician	1 C.Org.
ĺ	1 Acctt.	1 Acct. Asst.	1 Acctt.	1 Acct. Asst.	1 Acctt.	1 Acct. Asst.
ĺ	1 OA	1 OAcumTypist	1 OA	1 OAcumTypist	1 OA	1 OAcumTypist
Í	1 Chowkider	2 MLSS	1 Chowkider	2 MLSS	1 Chowkider	2 MLSS

Nippon Koei Co., Ltd.

No	District		Upazila	Component 1 Sub-Project	Component 3-1 (agriculture) Sub-Project	BWDB Sub-division
		1	Atpara	N11,	APSS-1, 2, 4, SIGS	Mohangonj
		2	Borhatta	R3,	APSS-1, 2, 4, SIGS	Netrokona
		2	Domana	N4,	APSS-1, 2, 4, SIGS	Sunamganj II
		3	Durgapur			
		4	Khaliajuri	R14, R15,	APSS-4	Mohangonj
1	Netrokona	5	Kalmakanda	N4,	APSS-1, 2, 4, SIGS	Sunamganj II
		6	Kendua	N6,	APSS-1, 2, 4, SIGS	Kishoreganj
		7	Madan	N11,	APSS-1, 2, 4, SIGS	Mohangonj
		0	N 1 .	N10	APSS-1, SIGS	Kishoreganj
		8	Mohonganj	N4,	APSS-1, 2, 4, SIGS	Sunamganj II
			Netrokona Sadar Purbadhala	R2, R1, R2,	APSS-1, 2, 4, SIGS	Netrokona Netrokona
		10	Astagram	N14,	APSS-1, 2, 4, SIGS APSS-4	Bhairab
		2	Bajitpur	N8,	APSS-1, 2, 4, SIGS	Bhairab
		3	Bhairab	100,	Ar 55-1, 2, 4, 5105	Dilaliau
		4	Hossainpur	R4,	APSS-1, 2, 4, SIGS	Kishoreganj
		5	Itna	N2, N7, N9, N10,	APSS-1, 2, 4, SIGS	Kishoreganj
				N1, N2, N7,	APSS-1, 2, 4, SIGS	Kishoreganj
		6	Karimganj	N14,	APSS-4	Bhairab
_				R5, R6, N1,	APSS-1, 2, 4, SIGS	Kishoreganj
2	Kishoreganj	7	Katiadi	N5, N8,	APSS-1, 2, 4, SIGS	Bhairab
		8	Kishoreganj Sadar	R4, N1,	APSS-1, 2, 4, SIGS	Kishoreganj
		9	Kuliarchar	R7,	APSS-1, 2, 4, SIGS	Bhairab
		10	Mithamain	N2, N9,	APSS-1, 2, 4, SIGS	Kishoreganj
		11	NT:1-1:	N1, N2,	APSS-1, 2, 4, SIGS	Kishoreganj
		11	Nikli	N5, N8, N14	APSS-1, 2, 4, SIGS	Bhairab
		12	Pakundia	R5, R6,	APSS-1, 2, 4, SIGS	Kishoreganj
		13	Tarail	N6, N7, N10,	APSS-1, 2, 4, SIGS	Kishoreganj
		1	Ajmiriganj	R8, R9, N13,	APSS-1, 2, 4, SIGS	Habiganj II
		2	Bahubal	R13,	APSS-1, 2, 4, SIGS	Habiganj I
		3	Baniachanj	R8, R9, R10, N13	APSS-1, 2, 4, SIGS	Habiganj II
		5		R13,	APSS-1, 2, 4, SIGS	Habiganj I
3	Habiganj	4	Chunarughat			
5	inuoigunj	5	Habiganj Sadar	R13,	APSS-1, 2, 4, SIGS	Habiganj I
			0,	N13,	APSS-1, 2, 4, SIGS	Habiganj II
			Lakhai			
			Madhabpur			
			Nabiganj			
		1	Akhaura			
			Bancharampur	R11, R12,	APSS-4,	Nabinagar
		3	Brahmanbaria Sadar			
4	Brahman-baria	4	Kashba Nahimana			
4	Brannan-Daria	5	Nabinagar Nacimpagar			
		6 7	Nasimnagar Sarail			
		8	Ashuganj			
			Bijoynagar			
		1	Bishwamvarpur			
		2	Chhatak	N3,	APSS-4,	Sunamganj I
		3	Derai	113,	11105 1,	Sunungung I
		4	Dharmapasha	N4,	APSS-1, 2, 4, SIGS	Sunamganj II
		5	Dowarabazar			
5	Sunamganj	6	Jagannathpur			1
	J J	7	Jamalganj	N12,	APSS-4,	Sunamganj I&II
		8	Sullah	,		
		9	Sunamganj Sadar	N12,	APSS-4,	Sunamganj I&II
			Tahirpur	,		
						1

Appendix 7.3 List of Sub-Projects of Components 1 and 3-1 by Upazila

Part of R1 area and part of R4 area (component 1 sub-projects) are located in Phulpur and Nandail Upazilas respectively in Mymensingh District.
 APSS-1=Field Program, APSS-2=Farmer Training Program, APSS-3=Field Staff Empowerment Program, APSS-4=Farm Machinery &

Facility Support Program,

3) District base programs and project base programs for APSS are not shown in the above table.

4) BWDB Kishoreganj Sub-division Office indicated above means the existing office, or new office additionally established for the Project, or both.

Appendix 7.4 Proposed Staff Arrangement of BWDB PIUs and Sub-division Offices for Implementation of the Project

BWDB PIUs in Division Office	Set-up	Existing	Proposed	Set-up	Existing	Proposed	Set-up	Existing	Proposed	Set-up	Existing	Proposed	Set-up	Existing	Proposed
Name of Post	N	etrokona	PIU	Ki	shoregan	j PIU	H	Habiganj	PIU	Bra	hmanbar	ia PIU	Su	unamgan	j PIU
Executive Engineer	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Revenue Officer	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Assistant Engineer	1	0	1	1	0	1	1	0	1	0	0	1	1	0	1
Assistant Extension Officer	1	0	2	0	0	2	0	0	2	0	0	2	0	0	2
Sub-divisional Engineer*1		*2	1 per SDO			1 per SDO									
Sub-assistant Engineer*1			1 per SO			1 per SO			1 per SO			1 per SO			1 per SO
Sub-assistant Engineer/Estimator	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
U.D. Assistant	1	0	1	1	1	1	1	0	1	0	0	0	1	0	1
Assistant Accountant	1	0	1	0	0	1	1	0	1	0	0	0	1	0	1
Senior Accounts Assistant	1	1	1	1	0	1	1	0	1	0	0	0	1	0	1
Accounts Clerk	1	0	1	0	0	1	1	1	1	0	0	0	1	1	1
Senior Clerk	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
L.D. Assistant cum Typist/DEO	3	1	3	0	0	3	3	1	3	0	0	0	0	0	0
DEO	0	0	0	1	0	0	0	0	0	1	0	1	3	0	3
Revenue Surveyor	1	0	1	1	0	1	1	0	1	0	0	1	1	0	1
DMO	1	0	1	1	0	1	1	0	1	0	0	1	1	0	1
Driver	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
Speed Boat Driver	0	0	1	1	0	1	0	0	1	0	0	1	0	0	1
Tracer	1	0	1	0	0	1	1	0	1	0	0	1	1	0	1
MLSS	4	2	4	2	2	4	4	2	4	2	0	2	4	0	4
Chowkidar (Guard)	1	0	1	2	0	1	1	0	1	1	0	1	1	0	1
Sweeper	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Mali (Gardener)	1	0	1	0	0	1	1	0	1	0	0	0	1	0	1
Total*3	21	7	23	15	6	23	20	7	23	9	1	15	20	4	23

Note: *1= Sub-divisional Engineers are stationed in Sub-division Offices and Sub-assistant Engineers are stationed in Section Offices, but their assignment places can be adjusted flexibly depending on the work load within the division.

*2= SDO means Sub-division Office, and SO means Section Office.

*3= Total amounts do not include Sub-divisional Engineers and Sub-assistant Engineers as marked *1.

BWDB Sub-division Offices (SI			Netroko	ona PIU						Ki	ishoregan	ij PIU			
ub-projects for Component		R1, R2,	R3		R14, R	15			R4, R	5, R6				R7	
ub-projects for Component					N11			N	1, N2, N6, I	N7, N9, I	N10,]	N14	
	Set-up	Existing	Proposed	Set-up	Existing	Proposed	Set-up	Existing	Proposed	Set-up	Existing	Proposed	Set-up	Existing	Proposed
Name of Post	N	etrokona	SDO	M	ohongang	SDO	Kishore	ganj SDC) (Existing)	Kishor	eganj SD	O (New)	I	Bhairab S	DO
Sub-divisional Engineer	1	0	1	1	1	1	1	1	1	0	0	1	1	1	1
LD Assistant cum Typist/DEO	1	1	1	1	1	1	1	0	1	0	0	1	1	0	1
Account Clerk	1	0	1	1	0	1	1	1	1	0	0	1	1	0	1
Surveyor (Engineering)	1	1	1	1	0	1	1	0	1	0	0	1	1	1	1
Extension Overseers	0	0	22	0	0	8	0	0	13	0	0	13	0	0	9
Driver	1	0	1	1	0	1	1	0	1	0	0	1	1	0	1
Speed Boat Driver	1	0	1	1	0	1	1	1	1	0	0	1	1	0	1
MLSS	2	1	2	2	0	2	2	1	2	0	0	2	2	0	2
Pump Operator	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Chowkider (Guard)	1	0	1	1	0	1	1	1	1	0	0	1	1	0	1
Assistant Cook	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0
Electrician	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bearer	1	1	1	1	0	1	1	1	1	0	0	1	1	0	1
Imam (Religious Leader)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	12	4	34	11	2	19	10	6	23	0	0	23	10	2	19

Sub-division Office (SDO)			Habiga	ınj PIU			Bra	hmanbar	ia PIU			Sunamg	anj PIU		
ub-projects for Component		R13			R8, R9, F	R10		R11, R	12						
ub-projects for component					N13						N3, N1	2		N4, N1	2
	Set-up	Existing	Proposed	Set-up	Existing	Proposed	Set-up	Existing	Proposed	Set-up	Existing	Proposed	Set-up	Existing	Proposed
Name of Post	Н	abiganj-1	SDO	Н	abiganj-2	SDO	N	abinagar	SDO	Sur	namganj-	1 SDO	Sur	namganj-2	2 SDO
Sub-divisional Engineer	1	0	1	1	1	1	1	0	1	1	0	1	1	0	1
LD Assistant cum Typist/DEO	1	1	1	1	0	1	1	0	1	1	1	1	1	0	1
Account Clerk	1	0	1	1	0	1	0	0	0	1	0	1	1	0	1
Surveyor (Engineering)	1	0	1	1	0	1	1	0	1	1	1	1	1	0	1
Extension Overseers	0	0	10	0	0	13	0	0	4	0	0	6	0	0	8
Driver	1	0	1	1	0	1	1	0	1	0	0	0	0	0	0
Speed Boat Driver	1	0	1	0	0	0	0	0	0	1	1	1	1	1	1
MLSS	2	1	2	2	1	2	1	0	1	2	1	2	2	1	2
Pump Operator	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
Chowkider (Guard)	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1
Assistant Cook	1	1	1	0	0	0	0	0	0	1	0	1	0	0	0
Electrician	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
Bearer	1	0	1	0	0	0	0	0	0	1	0	1	0	0	0
Imam (Religious Leader)	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Total	13	5	23	8	2	21	6	0	10	11	5	17	8	3	16

N 0	District		Upazila	Component 1 Sub-Project										ent 2 S	ub-Pro	ject								Component 3-2 (Fishery) Sub-Project
					Su	bme rg	ed (k	m)	Non	subme	rged		al Roa	d Bridg	e (m)			Culve	ert (m)		Hat	(no)	Ghat	Beels
										UNR			UZR		VRA	VRB	UZR		VRA		RM	GC	(no)	
		1	Atpara	N11,				5.3																
		2	Borhatta	R3,	6.2						4.4													
		3	D	N4,																		-		
			Durgapur Khaliajuri	R14, R15,		1.6				1.5	5.0			170.0	<u> </u>	<u> </u>		10.0			1	<u> </u>		
			Kalmakanda	N4,		1.0				1.5	5.0			170.0				10.0			-			
1	Netrokona		Kendua	N6,																				
		7	Madan	N11,																				
				N10																				
			Mohonganj	N4,											<u> </u>									
			Netrokona sadar	R2,				2.0		0.4	2.0	- 2.2			(0.0	<u> </u>				<u> </u>	2	<u> </u>	2	
		10	Purbadhala Sub-total	R1, R2,	6.2	1.6	0.0	3.0 8.3	0.0	9.4 10.9	2.9 12.3	3.2 3.2	0.0	170.0	60.0 60.0	0.0	0.0	10.0	0.0	0.0	2	0	3	30
		1	Astagram	N14,	10.2		0.0	0.5	0.0	10.9	12.5	3.2	0.0	170.0	00.0	0.0	0.0	10.0	0.0	0.0	5	0	5	50
			Bajitpur	N8,	10.2	20.7				7.1														
			Bhairab																					
			Hossainpur	R4,						13.5	4.9													
		5	Itna	N2, N7, N9, N10,	13.4	3.0		3.0													1		2	
		6	Karimganj	N1, N2, N7,					12.9															
				N14, R5, R6, N1,						2.1									-	-			-	
2	Kishoreganj	7	Katiadi	N5, N8,						2.1														
-	TishoreBung	8	Kishoreganj Sadar	R4, N1,			2.4			2.6	2.3										6	1	8	
			Kuliarchar	R7,			2.1			10.4	2.0											-	0	
			Mithamain	N2, N9,	10.0	9.6	3.0																	
		11	Nikli	N1, N2,							2.0	0.6												
				N5, N8, N14											<u> </u>									
			Pakundia	R5, R6,						30.2					<u> </u>						1	_		
		13	Tarail Sub-total	N6, N7, N10,	33.6	3.3 36.8	5.4	3.0	12.9	3.6 69.5	9.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8	1	10	30
		1	Ajmiriganj	R8, R9, N13,	7.0	4.2	2.0		12.9		9.2	0.0	0.0	0.0	0.0	60.0	70.0				1		10	30
			Bahubal	R13,	1.0		2.0	5.9	10	4.5	10.8					10.0	70.0	50.0		100.0	2			
		3	Baniachanj	R8, R9, R10, N13,		1.4			4.9	8.8	7.1		50.0	130.0	30.0		20.0	50.0	40.0		2	1	1	
			·	R13,																				
		4	Chunarughat												<u> </u>									
3	Habiganj	5	Habiganj Sadar	R13,							4.2	3.0								10.0	1		2	
		6	Lakhai	N13,																				
			Madhabpur																					
			Nabiganj																					
			Sub-total		7.0	5.6	2.0	34.0	18.9	17.5	22.1	3.0	50.0	130.0	30.0	70.0	90.0	100.0	80.0	200.0	6	2	3	30
			Akhaura																					
			Bancharampur	R11, R12,											<u> </u>	<u> </u>						<u> </u>	<u> </u>	
			Brahmanbaria Kashba																	-				
	Brahman-		Kashba Nabinagar										-							-			-	
4	baria		Nasimnagar											<u> </u>										
			Sarail																					
		8	Ashuganj																					
		9	Bijoynagar																					
\vdash			Sub-total		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	30
			Bishwamvarpur	N/2											<u> </u>					<u> </u>		<u> </u>	<u> </u>	
			Chhatak Derai	N3,	0.9		6.0	<u> </u>	0.9		3.2	<u> </u>			20.0	<u> </u>	10.0	<u> </u>	80.0	<u> </u>		<u> </u>	1	
			Derai Dharmapasha	N4,	8.7	8.0	0.0	<u> </u>	8.7		5.2	<u> </u>			20.0		10.0			1	1		1	
			Dowarabazar	,	0.7	0.0			0.7					<u> </u>			100.0		<u> </u>	<u> </u>	1			
_	e		Jagannathpur																					
5	Sunamganj		Jamalganj	N12,	0.1								20.0			20.0				10.0				
		8	Sullah																				1	
			Sunamganj Sadar	N12,	8.3	3.9	9.8	3.0		3.8		2.0					30.0	10.0	10.0			1	1	
			Tahirpur												<u> </u>					<u> </u>				
		11	South Sunamganj Sub-total	N12,	14.9	11.9	8.5		0.4	20	2.2	20	190.0		20.0	20.0	50.0 190.0		30.0		1	,	2	30
		I	Sub-total Total		32.9 79.7				9.6 41.4	3.8 101.6	3.2 46.8		210.0 260.0		20.0				200.0		1 18		5 21	30 150
Note	·c·		10/41	1	12.1	55.9	51.7	215.5	71.4	101.0	-0.0	198.7	200.0	1 500.0	110.0	760.0	200.0	170.0	1 200.0	860.0	10	22	21	150

Appendix 7.5 List of Sub-Projects of Component 2 and Component 3-2 by Upazila

tes: 2155 1) Part of R4 area (component 1 sub-project) is located in Nandail Upazila in Mymensingh District. 2) UZR=Upazila Road, UNR=Union Road, VRA=Village Road Type A, VRB=Village Road Type B

Appendix 7.6 Proposed Staff Arrangement of LGED PMO, PIUs and Project Upazila Offices for Implementation of the Project

*=Major tasks and duties of M&E Specialist and Environmental Engineer/Expert are shown in Page A7.6-4.

PMO (LGED)						Recruitment		Yen
Name of Post	Qua	ntity	Qualifications	Full/ Part	Deputation	Contractual	Outsourcing	Portion
Project Director	1		B.Sc. Civil Engineering	Full-time	Deputation			
Deputy Project Director	4	2	B.Sc. Civil Engineering	Full-time	Deputation			
Deputy Project Director		2	M.Sc. Fisheries/ Master in Sociology with having experience in CBFM/ Fisheries Governance	Full-time		Contractual		
Senior Assistant Engineer	2		B.Sc. Civil Engineering	Full-time	Deputation			
Community Resource Management Specialist	1		B.Sc. Fisheries/ Sociology with MBA	Full-time		Contractual		
Accounts Officer	1		Master in Finance/ Accounting	Full-time	Deputation	Contractual		
M&E Specialist*	1		Master in Economics/Statistics/ B.Sc. with MBA/ BBA & MBA/ MDS, with IT experience	Full-time		Contractual		Yen
Sub-Assistant Engineer	3	2	Diploma Civil Engineering	Full-time	Deputation			
Sub-Assistant Engineer		1	Diploma Civil Engineering	Full-time		Contractual		
Environmental Engineer/ Expert*	1		B.Sc. in Civil Engineering with M.Sc. in Environment/ B.Sc. in Environment	Full-time		Contractual		Yen
Administrative/Human Resources Manager	1		Bachelor in any discipline with MBA	Full-time		Contractual		
Finance Expert	2		Bachelor in any discipline	Full-time		Contractual		
Office Assistant cum Computer Operator	2		Bachelor in any discipline	Full-time		Contractual		
Driver	3	1	J.S.C.	Full-time			Outsourcing	
Office Helper	2		J.S.C.	Full-time			Outsourcing	
Guard	1		J.S.C.	Full-time			Outsourcing	

LGED PIU (District) Offices									Recruitment		
Name of Post	Qualifications	Netrokona PIU	Kishore- ganj PIU	Habiganj PIU	Brahman- baria PIU*1	Sunamganj PIU	Full/ Part	Deputation	Contractual	Outsourcing	Yen Portion
Executive Engineer	B.Sc. Civil Engineering	1	1	1	1	1	Part	Deputation			
District Project Coordinator	B.Sc. in Civil Engineering/ B.Sc. in Fisheries	1	1	1	1	1	Full	Deputation (structure)	Contractual (fisheries)		
Sub-Assistant Engineer (Structure)	Diploma in Civil Engineering	1	1	1	1	1	Full	Deputation			
Sub-Assistant Engineer (Fisheries)	Diploma in Civil Engineering	1	1	1	1	1	Full		Contractual		
District Training Coordinator	Masters in any Discipline	1	1	1	1	1	Full		Contractual		
Community Infrastructure Coordination Expert*	B.Sc. Civil Engineering	1	1	1	1	1	Full	Deputation			Yen
Community Resource Management Coordination Expert*	B.Sc. in Fisheries/ Bachelor in any discipline with CBFM experience	1	1	1	1	1	Full		Contractual		Yen
District M&E Officer	Master in Economics/ Statistics/ MBA/ MDS	1	1	1	1	1	Full		Contractual		
Accountant	Bachelor in Finance/ Accounting	1	1	1	1	1	Full	Deputation			
Computer Operator cum Office Assistant	Bachelor in any Discipline	1	1	1	1	1	Full		Contractual		
Driver	J.S.C.	1	1	1	1	1	Full			Outsourcing	
Boat Driver	J.S.C.	1	1	1	1	1	Full			Outsourcing	
Office Helper	J.S.C.	1	1	1	1	1	Full			Outsourcing	
Guard	J.S.C.	1	1	1	1	1	Full			Outsourcing	
Total		14	14	14	14	14					

Note: *=Major tasks and duties of Community Infrastructure Coordination Expert and Community Resource Management Coordination Expert are shown in Page A7.6-4.

LGED Project Upazila Offices (PUOs) - See separate sheet of PUOs for details

Name of Post	Qualifications	Netrokona	Kishoreganj	Habiganj	B Baria	Sunamganj	Full/		Recruitment	
Name of Post	Qualifications	9 PUOs*1	12 PUOs	4 PUOs	1 PUO*1	7 PUOs*1	Part	Deputation	Contractual	Outsourcing
Upazila Engineer	B.Sc. Civil Engineering	9	12	4	1	7	Part	Deputation		
Sub-Assistant Engineer	Diploma in Civil Engineering	9	12	4	1	7	Full	Deputation (structure)	Contractual (fisheries)	
SMS Fisheries*2	B.Sc. Fisheries/ Zoology	9	12	4	1	7	Full		Contractual	
Work Assistant	H.S.C.	9	12	4	1	7	Full	Deputation	Contractual	
LCS Organizer	Bachelor in any discipline	9	12	4	1	7	Full		Contractual	
Social Organizer (Fisheries)	Bachelor in any discipline	9	12	4	1	7	Full		Contractual	
Surveyor	Diploma in Engineering	9	12	4	1	7	Full	Deputation		
Guard	J.S.C.	9	12	4	1	7	Full			Outsourcing
Office Helper	J.S.C.	9	12	4	1	7	Full			Outsourcing
Tota	1	81	108	36	9	63				

Notes: *1=Staff of Brahmanbaria PIU and some PUOs in Netrokona, Brahmanbaria and Sunamganj will be re-arranged after identification of component 3-2 sub-projects. *2: SM S=Subject matter specialist

LGED Project Upazila Offices (PUOs)

	Name of Post	Atpara	Borhatta	Khaliajuri	Kamalkanda	Kendua	Madan	Mohonganj	Netrokona Sdr	Purbadhala	1			Total
	Upazila Engineer	1	1 Domatta	1 I	1	1	1	1 Iviononganj	1	1 1104011414	-			9
	Sub-Assistant Engineer	1	1	1	1	1	1	1	1	1	-			9
	SMS Fisheries*1	1	1	1	1	1	1	1	1	1	-			9
PUOs in	Work Assistant	1	1	1	1	1	1	1	1	1	-			9
		1	1	1	1	1	1	1	1	1	-			9
Netrokona	LCS Organizer	1	1	1	1	1	1	1	1	1	- N			
District	Social Organizer (Fisheries)		1	1	1	-	1	1		1	Note:			9
	Surveyor	1	1	1	1	1	1	1	1	1		particular in Kamal		9
	Guard	1	1	1	l	1	1	l	1	1		okona Sadar will be		9
	Office Helper	1	1	1	1	1	1	1	1	1	re-arranged after			9
	Total	9	9	9	9	9	9	9	9	9	component 3-2 su	ib-projects.		81
	*1: SMS=Subject matter specialist												<u> </u>	T =
	Name of Post	Astagram	Bajitpur	Hossainpur	Itna	Karimganj	Katiadi	Kishoreganj Sdr	Kuliarchar	Mithamain	Nikli	Pakundia	Tarail	Total
	Upazila Engineer	1	1	1	1	1	1	1	1	1	1	1	1	12
	Sub-Assistant Engineer	1	1	1	1	1	1	1	1	1	1	1	1	12
	SMS Fisheries*1	1	1	1	1	1	1	1	1	1	1	1	1	12
PUOs in	Work Assistant	1	1	1	1	1	1	1	1	1	1	1	1	12
Kishore-	LCS Organizer	1	1	1	1	1	1	1	1	1	1	1	1	12
ganj	Social Organizer (Fisheries)	1	1	1	1	1	1	1	1	1	1	1	1	12
District	Surveyor	1	1	1	1	1	1	1	1	1	1	1	1	12
	Guard	1	1	1	1	1	1	1	1	1	1	1	1	12
	Office Helper	1	1	1	1	1	1	1	1	1	1	1	1	12
	Total	9	9	9	9	9	9	9	9	9	9	9	9	108
	-		•		•	•			•		•	•	•	
	Name of Post	Ajmiriganj	Bahubal	Baniachanj	Habiganj sadar									Total
	Upazila Engineer	1	1	1	1	1								4
	Sub-Assistant Engineer	1	1	1	1									4
	SMS Fisheries*1	1	1	1	1	1								4
PUOs in	Work Assistant	1	1	1	1	1								4
Habiganj	LCS Organizer	1	1	1	1	1								4
District	Social Organizer (Fisheries)	1	1	1	1	-								4
DISTLICT	Surveyor	1	1	1	1	4								4
	Guard	1	1	1	1	4								4
	Office Helper	1	1	1	1	4								4
	Total		9	9	9	4								36
	10141	9	9	9	9									50
	Name of Post	Bancharampur	1											Total
	Upazila Engineer	1	1											10121
	Sub-Assistant Engineer	1	1											1
		1	-											1
	SMS Fisheries*1	1	-											
PUOs in	Work Assistant	1												1
Brahman-	LCS Organizer	1	1											1
baria	Social Organizer (Fisheries)	1												1
District	Surveyor	1									Note:			1
	Guard	1										ancharampur will b	be	1
	Office Helper	1									re-arranged after			1
	Total	9									component 3-2 su	1b-projects.		9
	Name of Post	Chhatak	Derai	Dharmapasha	Jamalganj	Sullah	Sunamganj Sdr							Total
	Upazila Engineer	1	1	1	1	1	1	1						7
	Sub-Assistant Engineer	1	1	1	1	1	1	1						7
	SMS Fisheries*1	1	1	1	1	1	1	1]					7
	Work Assistant	1	1	1	1	1	1	1	1					7
PUOs in		1	1	1	1	1	1	1	1					7
PUOs in Sunam-	LCS Organizer				1			1	1					
Sunam-	LCS Organizer Social Organizer (Fisheries)	1	1	1	1	1	1							1
Sunam- ganj	Social Organizer (Fisheries)	1	1	1	1	1		-			Note:			7
Sunam-	Social Organizer (Fisheries) Surveyor	1	-	1 1 1	1 1 1	1	1 1 1	1 1 1			Note: Staff of PUO in C	hhatak will be		7
Sunam- ganj	Social Organizer (Fisheries)	-	-	1 1 1 1	1 1 1 1			1			Note: Staff of PUO in C re-arranged after			

Institutional Support Component for LGED

(1) PMO (LGED)

Name of Post	Major Tasks and Duties
Environmental	- Conduct works relevant to environmental management under the guidance of PD.
Engineer/ Expert	- 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 Specialist	- Conduct works relevant to reporting and project management under the guidance of PD.
	- Prepare AWPB and procurement plan with the help of consultants team.
	- Prepare the optimum type of monitoring & evaluation program for project implementation.
	- Design a 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 environmental programs.
	- 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.
	- Generate other reports to satisfy the reporting obligation of GOB and JICA with the
	help of consultants.

(2) PIU (LGED)

Name of Post	Major Tasks and Duties
Community	- Conduct works relevant to community infrastructure management under the
Infrastructure	guidance of EE.
Coordination Expert	 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	- Conduct works relevant to community resource management under the guidance of
Management	EE.
Coordination Expert	- 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.
	- Establish rights of the community on the community resources and sustainable management in coordination with LGI and community.

Appendix 7.7 Result of Interview Survey on Communities' O&M Works

Methodology of Questionnaire Survey on Communities' O&M Works

1. Objective of Survey

Currently O&M works for flood management structures at field level are carried out by both BWDB local offices and local communities depending on the scales of structures, types of structure, types of O&M activities, etc. It is therefore assumed that such works will be carried out by local communities in cooperation with BWDB in the proposed sub-projects in the future as well.

The purpose of this questionnaire survey is to collect information on the communities' O&M works regarding flood management sub-projects/ structures from the relevant communities in order to understand the current situations and to identify issues and their needs toward the establishment of a proper O&M system in the proposed sub-project areas.

2. Target Groups for the Survey

In view of effective and efficient identification of communities' issues and needs, target group will be selected from the existing sub-project areas. The conceivable sub-projects are tabulated as below. The target group shall be i) members of existing water management organization or similar organization, or ii) persons with experience in actual O&M works. In case neither i) nor ii) are available, a chairman or members of Union Parishad (UP) shall be selected.

The interview will be made with at least one interviewee per one sub-project. In the case of the above ii), an interviewee will be basically selected from regulator operators because the regulators are the main facilities for O&M. The number of interviewee is however changeable depending on the situation such as accessibility and communities reason. The tentative number of sub-projects is 15 for the time being as shown in the table below.

No.	Sub-project Name	District	Nos. of	Project
			Regulators	Туре
1	Dampara Water Management Project	Netrokona	2	FCDI
2	Kangsha River Scheme	Netrokona	7	FCDI
3	Singer Beel Subproject	Netrokona	4	FCDI
4	Boraikhali Khal Sub-project	Mymensingh and Kishoreganj	1	FCDI
5	Alalia-Bahadia Sub-project	Kishoreganj	1	FCD
6	Motkhola-Bairagir Char Sub-project	Kishoreganj	1	FCD
7	Ganakkhali Sub-project	Kishoreganj	2	FCD
8	Kair Dhala Ratna Sub-project	Habiganj	3	FCDI
9	Bashira River Re-excavation Sub-project	Habiganj	2	FCDI
10	Aralia khal Sub-project	Habiganj	2	FCDI
11	Chandal beel Sub-project	Brahmanbaria	1	FCDI
12	Satdona Beel Scheme	Brahmanbaria	2	FCDI
13	Gangajuri Sub-project	Habiganj	7	FCD
14	Khaliajuri FCD Polder-2	Netrokona	10	FCD
15	Khaliajuri FCD Polder-4	Netrokona	5	FCD

 Table 2.1
 List of Sub-projects and Numbers of Regulators for the Survey

Source: Result of inventory survey conducted in the Data Collection Survey

3. Survey Method

The questionnaire is prepared on the assumption of interview-style rather than self filling-upstyle. Answer sheets will be separately prepared for each question. The Survey Team's 2-3 local engineers will execute the survey by making appointments in advance and visiting the respective sub-project areas. The O&M planner of JICA Survey Team will also guide the local engineers by conducting interview together with them on the first day. The contact persons of each sub-project have been already identified through the inventory survey conducted in the Data Collection Survey. The collected information shall be summarized for each interviewee.

4. Survey Schedule

The survey will be carried out between August 26 and September 5 with some optional extra days in consideration of the possibility of interruption due to unanticipated events like hartals.

	Date		Activities
August	22	(Thu)	Guidance by JICA Survey Team
	23	(Fri)	
	24	(Sat)	
	25	(Sun)	Preparatory works including appointments and travel arrangement
	26	(Mon)	Conducting interview survey in the field
	27	(Tue)	Conducting interview survey in the field
	28	(Wed)	Conducting interview survey in the field
	29	(Thu)	Conducting interview survey in the field
	30	(Fri)	Conducting interview survey in the field
	31	(Sat)	Conducting interview survey in the field
September	1	(Sun)	Conducting interview survey in the field
	2	(Mon)	Conducting interview survey in the field
	3	(Tue)	Data input/ an optional extra day for interview survey in the field
	4	(Wed)	Data input/ an optional extra day for interview survey in the field
	5	(Thu)	Data input/ an optional extra day for interview survey in the field

Table 4.1Tentative Schedule of Survey

QUESTIONNAIRE ON COMMUNITIES' O&M WORKS

1. Basic Information on Interview

Date of interview	
Location	District: Netrokona Upazila: Purbodhola Village:
Name of interviewee	Mr. Polash
Organization	Dampara Regulator Committee
Position	Operator of Chorervita Regulator
Name of enumerator	

Note: Italic characters denote the example of "Dampara Water Management Project".

2. Basic Information on Sub-project

(* to be filled up in advance by enumerator based on the result of Inventory Survey conducted in the Data Collection Survey.)

Sub-project name	Dampara Water Management Project
Location	District: Netrokona Upazila: Purbodhola
Regulator	Reg-1: Chorervita Reg., L 25m x W 16m, 10 vents, functioning
	Reg-2: Khatuary Reg., L 13m x W 7.5m, 5 vents, not functioning
	continue if any
Full embankment	Length 20 km, Crest width 4.27 m, Crest elev. 12.20 to 13.14 El.m
Submergible embankment	Length 27 km, Crest width 2.44 m, Crest elev. 10.14 to 11.80 El.m
Canal	Can-1: Motiara Khal, L 5.0 km, Bed width 4.5 m, Top width 16 m
	Can-2: Kalihor Khal, L 12.0 km, Bed width 4.0 m, Top width 15 m
	continue if any

Note: Italic characters denote the example of "Dampara Water Management Project".

3. Your Personal Experience in O&M Works

- Q3-1: What is your major income source?
- Q3-2: How many years do you have experience in O&M works?
- Q3-3: What kinds of O&M works have you experienced?

O&M works	Check	Frequency
Periodical inspection of flood management structures		
Operation of regulator		
Maintenance of embankment		
Maintenance of drainage canal		
Repair of structures		
Others (specify in detail)		

- Q3-4: How far and how long does it take from your house to the O&M work place (to the regulator, to the water gauge, to the embankment)?
- Q3-5: How often and how do you go to the O&M work place?

- Q3-6: Do you belong to any local community groups including but not limited to O&M work purpose? (what is the name? what is the purpose of group?)
- Q3-7: If you participate in O&M works individually, do you have an official contract with BWDB?

4. Current Status of Your Organization

- Q4-1: Are there any special organization/ committee for O&M works in the sub-project? (when was it formed? who formed it? what is the name of organization?)
- Q4-2: How many persons do belong to the organization/ committee? (what are their major income sources (including side job)?)
- Q4-3: Is cooperation of members is enough? (what is the reason?)
- Q4-4: What is the major funding source of your organization/ committee? (who provide a cost for your O&M activities? does your organization/ committee contribute to cost sharing?)
- Q4-5: Does your organization/ committee receive any O&M cost from BWDB? (how much do you receive? how is the amount decided? what is the criteria for cost allocation?)

Q4-6: What kinds of O&M works is your organization responsible for?

O&M works	Check	Frequency
Periodical inspection of flood management structures		
Operation of regulator		
Maintenance of embankment		
Maintenance of drainage canal		
Repair of structures		
Others (specify in detail)		

- Q4-7: What is the demarcation of roles and responsibilities between BWDB and your organization?
- Q4-8: Is there any other local community group in/ around the sub-project area? (what is the name? what is the purpose of group?)
- Q4-9: Do you know whether BWDB officers regularly come to the field for inspection? (how often? what is his position?)
- Q4-10: Do you regularly communicate with BWDB offices? (how often? what situation? what is the communication tool?)
- Q4-11: Do you have a proper contact when you face to issues on your O&M works?

5. Issues on Operation Works

- Q5-1: When you operate a regulator, do you use a rule/ technical manual/ standard? (who provided it? what are stipulated in the document? do you always follow it?)
- Q5-2: Do you sometimes have no idea of what to do for operating regulator? (What situation?)
- Q5-3: Do you have any problems if you operate a regulator in accordance with only water level or seasonal fixed operating schedule.

- Q5-4: Do you have any experience that you failed to operate a regulator due to sudden troubles while there have been no problems in normal time? (what situation? what is the main cause?)
- Q5-5: Do you have any experience that flash flood could not be prevented though you properly operated a regulator? (what situation? what is the main cause?)
- Q5-6: Do you have any experience that you had difficulties in allowing water to flow into polder or draining water from polder though you properly operated a regulator? (what situation? what is the main cause?)
- Q5-7: Have you been made a complaint over your operation by local people? (what situation? how did you respond to the complaint?)
- Q5-8: Are there problems in operating regulator due to any conflict between different groups, for instance, farmers and fisheries? (what group? what situation? how solved?)
- Q5-9: What are other issues in operation works? (please specify in detail.)

6. Issues on Maintenance Works

Structure	Cause of Failure	Check	Structure	Cause of Failure	Check
Regulator	1. Lack of grease		Embankment	13. Artificial cut	
	2. Lost or loose of bolt			14. Erosion by rainfall	
	3. Damage of gear box			15. Erosion by wave	
	4. Theft of gear box			16. Erosion by river flow	
	5. Damage of hoist rod			17. Wheel truck	
	6. Theft of hoist rod			18. Shortage of height	
	7. Lost of gate			19. Overtopping	
	8. Damage of rubber seal			20. Others (specify in detail)	
	9. Damage of structure		Canal	21. Sedimentation	
	10. Debris in front of gate			22. Land degradation	
	11. No operation committee			23. Others (specify in detail)	
	12. Others (specify in detail)		Others	24. (specify in detail)	

Q6-1: Have there been any failures of flood management structures?

Q6-2: What measures did you take to overcome the above respective failures?

O&M works			Struc	tural Fa	ilure No	(from	Q6-1)		
	1	2	3	-	-	-	22	23	24
Repair by your own manpower									
Outsourcing									
Purchase any missing parts									
Request BWDB to repair									
Others (specify in detail)									

- Q6-3: If no measure has been taken to the above failures, please explain the reason.
- Q6-4: Do you provide different maintenance works for submergible structures and non-submergible structures? (what is the difference?)
- Q6-5: What are other issues in maintenance works? (please specify in detail.)

7. Technical Capacities

- Q7-1: What kinds of guidance/ trainings on O&M works have you been provided? (by whom? how frequent? what is the contents?)
- Q7-2: Are you satisfied with the above guidance/ training? (what is the reason?)
- Q7-3: What kinds of equipments, materials and transportation for O&M works have you been provided?
- Q7-4: Are you satisfied with the above equipment? (what is the reason?)
- Q7-5: Is there any difficulty in accessing to the field? (what situation? to where? why?)
- Q7-6: When you inspect structures, what points do you normally check?

Structure	Check Points	Check	Structure	Check Points	Check
Regulator	1. Lack of grease		Embankment	15. Artificial cut	
	2. Lost or loose of bolt			16. Erosion by rainfall	
	3. Damage of gear box			17. Erosion by wave	
	4. Theft of gear box			18. Erosion by river flow	
	5. Damage of hoist rod			19. Wheel truck	
	6. Theft of hoist rod			20. Shortage of height	
	7. Lost of gate			21. Crack	
	8. Damage of rubber seal			22. Wet condition	
	9. Damage of steel structure			23. Uncovering	
	10. Crack of concrete			24. Others (specify in detail)	
	11. Degradation of concrete		Canal	25. Sedimentation	
	12. Settlement of structure			26. Land degradation	
	13. Debris in front of gate			27. Others (specify in detail)	
	14. Others (specify in detail)		Others	28. (specify in detail)	

8. Needs for Future O&M Works

- Q8-1: Do you need any technical training/ manual? (what kind? why?)
- Q8-2: Do you need to be provided communication tool? (what tool? why?)
- Q8-3: Do you need to be provided equipments? (what equipment? why?)
- Q8-4: Although proper O&M works may bring much benefit from farm products, do you still need financial assistance from the Government for participating in O&M works? (why?)
- Q8-5: Do you think that the number of organization members should be increased for proper O&M works? (how many? why?)
- Q8-6: Do you think that other types of members should be participated in O&M works? (who? why?)
- Q8-7: What are other needs in O&M works? (please specify in detail.)

End of Questionnaire

Thank you for your cooperation.

Interview Result: Dampara Water Management Project

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Q-56 No. I an not involved in any other community group. Q-177 No. Contrast with MVDB 4 Current ************************************			
Q:5.7 No contract with BWDB Q:1 There is no special organization for 0.4 M works : but there is another shace committee named Khatuary Shice Committee. Q:1 Internets : All are functions. All are functions. Q:1 Internets : All are functions. All are functions. Q:4 Internets : All are functions. All are functions. Q:4 Non-more status status committee on the large functions. Q:4 Non-more status status comments. Q:4 There is no such contact moments up on pair and maintenance of the functures and large scale maintenance of draining canal Q:4 There is no such contact moments up on pair and maintenance of the functures. Q:4 Non-more is no such contact moments up on pair and maintenance of the maintenance of functures. Q:4 Non-more is no such contact moments up on pair and maintenance of the maintenance of draining canal Q:4 Non-more is no such contact moments and such as the functures. Q:4 Non-more is no contact moments is no such con			
4. Current Neuron of Yoor Organization in Co & M. works: but there is another shake committee annot Khatuay Shace Committee. Q-1: There is no special organization for 0 & M. work: but there is another shake committee annot Khatuay Shace Committee. Q-12: I mellenses : All are fameses. Q-13: Test, if is congli. Decision every body is famer. Q-14: I mellenses : Q-14: I mellense is on such dimenzations the mellense and some of mellense. Q-14: I mellense is on such dimenzations the mellense and secosity. Q-14: I No. regulary communicated. is done only when there is necessity. Q-11: No. regulary communicated. is done only when there is necessity. Q-14: No. regulary communicated. is done only when there is necessity. Q-14: No. we have no trule / standard/ mmall. No: regulary communicated. is done only when there is necessity. Q-14: </td <td></td> <td></td> <td></td>			
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Q4-5: No. BWDB pays nothing. Q4-6: Periodic inspection of food management structures. Operation of regulator, Maintenance of Embankment Canal are the responsibilities of BWDB. Q4-7: There is no such demacration, however repair and maintenance of the Structure and large scale maintenance of Embankment Canal are the responsibilities of BWDB. Q4-8: There is no such contact point. Q4-10: Not repair or nummial regoin in around. Q4-11: No, there is no such contact point. Q4-10: Not repair by embanding. Q5: No. we have no nulls. / standards/ manual. Q5: No. we have no nulls. Standards in the construction of the Committee. Q5: Out of 10 (cin) gate-2 gates are duraged and we face difficulties as to what to do in reactivating those. Q5: Q5: No uch troubles occurred. Q6: To cons-functioning of Tag tates, water enters inside the polder causing durange to crops. However, we repaired those by crude methods of our own. That is not sufficient enough. Q5: No there is no conflicting group in the sub-project area. Q6: De to non-functioning of tag tates, water enters inside the polder causing durange to crops. However, we repaired those by crude methods of our own. That is not sufficient enough. Q5: No there is no on-functioning of tag tates. Mointerannee Works. Q6:<		Because every bod	y is farmer.
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Q48: There is no other local community group in around Q41: These is no soft contact point. Q41:10: Not regularly communicated; it is done only when there is necessity. Q41:11: Not regularly communicated; it is done only when there is necessity. Q51:12: Not have is no such contact point. Q52:2: Out 01 (10:en) gats 2: gats are damaged and we face difficulties is to what to do in neactivating those. Q53:3: No, we do not face any problem. Q54:5: Due to non-functioning of The gates, water enters inside the polder causing damage to crops. However, we repaired those by crude methods of our own. That is not sufficient enough. Q55:5: Due to non-functioning of The gates, water enters inside the polder causing damage to crops. However, we repaired those by crude methods of our own. That is not sufficient enough. Q55:5: Due to non-functioning of The gates. Q6 (11): hype of problem occurring frequently. Q55:1: No such compliants logged itli now. S5. Q55:1: No there is no conflictioning group in the sub-project area. Q55:1: No there is no conflictioning group in the sub-project area. Q56:1: Lack of groupse, 2. Lost or hose of bolt, 3. Durange of gar box, 4. Theft of gaar box, 5. Durange of hoist rod, 8. Durange of rubber seal, 9. Durange of structure, 10. Debris in front of g			
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Q4-11: No, there is no such contact point. Stasses on Operatic Regress conding to the decision of the Committee. Q5: No, we have no rules / standards' manual. We operate the gates according to the decision of the Committee. Q5:: No, we do not face any problem. Q5:4: No such troubles occurred. Q5:5: Date to non-functioning of structure elements (ice Fup Gates), this type of problem occurring frequently. Q5:6: Date to non-functioning of structure elements (ice Fup Gates), this type of problem occurring frequently. Q5:7: No such compliants lodged till now. Q5:8: No there is no conflicting group in the sub-project area. Q5:8: No thing is particular. G:Suesses on Maintenance Works Gene Q6:1: 1. Lack of grease, 2. Lost or boose of bolt, 3. Damage of gar box, 4. Theft of gear box, 5. Damage of hoist rod, 8. Damage of rubber seal, 9. Damage of structure, 10. Debris in front of gate, 10. Overtopping 21. Seadimentation Q6:1: 1. Lack of grease, 2. Lost or boose of bolt, 3. Damage of gar box, 4. Theft of gars box, 5. Damage of rubber seal, 9. Damage of structure, 10. Debris in front of gate, 10. Overtopping 21. Seadimentation Q6:3: We could not reglace the flap gates because it is out of our capacity. Q6:4: Almost same. Q7:1: No condineet flap gates. <td></td> <td></td> <td></td>			
5. Issues on Operation Works Q5: We operate the gates according to the decision of the Committee. Q5: Out of 10 (ten) gates 2 gates are damaged and we face difficulties as to what to do in reactivating those. Q5: Out of 10 (ten) gates 2 gates are damaged and we face difficulties as to what to do in reactivating those. Q5: Date of 10 (ten) gates 2 gates, water enters inside the polder causing damage to crops. However, we repaired those by crude methods of our own. That is not sufficient enough. Q5: Due to non-functioning of thag gates, water enters inside the polder causing damage to crops. However, we repaired those by crude methods of our own. That is not sufficient enough. Q5: Due to non-functioning of the gates, water enters inside the polder causing damage to crops. However, we repaired those by crude methods of our own. That is not sufficient enough. Q5: No there is no conflicting group in the sub-project area. Q5: No there is no conflicting group in the sub-project area. Q6: 10. Vectorphysics 10. Sugnature. Q6: Not kod graves. 2. Lost or loose of bolt. Q6: Not sugna sume. Q6: N			
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Q5-6: Due to non-functioning of structure elements (ie Flap Gates), this type of problem occurring frequently. Q5-7: No such compliants lodged till now. Q5-8: No, there is no conflicting group in the sub-project area. Q5-9: Nothing is particular. 66. Summer and works Q6-1: I. Lack of prease. Q6-2: Repair by your own mapover, Request BWDB to repair Q6-3: We could not replace the flap gates because it is out of our capacity. Q6-4: I. Moot structure, Q6-5: Nothing is particular. Q6-5: Nothing is particular. Q6-5: Nothing is particular. Q6-5: Nothing in particular. Q6-5: Nothing in particular. Q7-1: No comments. Q7-2: No comments. Q7-3: No to condificult job. Q7-3: No communicated. Q7-4: No, we are not satisfied. Thesa or not adcipuate Job or operation of gate is too difficult job. Q7-5: I. Lack of grease. Losd of concrete, 11. Degradation of concrete, 12. Settlement of structure, 13. Debris in front of gate, 15. Artificial cut, 16. Erosion by varinfind, 17. Erosion by wave, 18. Erosion by vari			
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Q8-7: [A thorough rehabilitation / major repair / maintenance should be undertaken by BWDB immediately. Afterwards the whole subproject should be handed over to the committee.	~		
	0.07	A thorough rehabi	litation / major repair / maintenance should be undertaken by BWDB immediately. Afterwards the whole subproject should be handed over to the committee.

Interview Result: Kangsha River Scheme

1. Basic Info	ormation on Intervi	
Date of	interview	28 August 2013; Time: 11.00 AM to 01.30 PM
Locatio	n	District: Netrokona, Upazila: purbodhala, Village: shaldigha
	of interviewee	M. Jobiet Hossain Fakir
Organiz		Shakigha Regulator Committee
Position		General Secretary
	of interviewer	Md. Moniruzzaman P Eng
Basic Info	ormation on Sub-pr	oject
Sub-pro	oject name	Kangsha River subproject.
Locatio	n	District: Netrokona Upazila: purbodhala
Regulat		Reg-1:
rtoguint		Reg-2:
E 11	1 1	
	bankment	Length: 20.0 km, Crest width: 4.27m, Crest elev.12.20 to 10.90 ELm
	gible embankment	Length: x km, Crest width: x m, Crest elev. to El.m
Canal		Can-1:
		Can-2:
3. Your Pers	onal Experience in	O&M Works
	Trading ; pharmad	
	Agricultural Farm	
02.2		
	For about 15 (Fift	
		ion of flood management structures, Operation of regulator, Maintenance of embankment, Maintenance of drainage canal
Q3-4:	5 minutes walk	
Q3-5:	Frequently - at ar	y time ; walking on foot.
		rugs Trading Association.
		well being of drug traders.
03-7.		f the committee keep liaison with BWDB.
	tatus of Your Orga	
Q4-1:		tion/ committee exist.
		er regulators in this subproject; and each regulator has its own committee. Interviewee was not aware of it.)
Q4-2:	13 member comm	ittee.
Q4-3:	Yes, common inte	rest of the members.
		ption of money (for O&M) raised at times of needs only; this amount is spent for O &M (by the committee).
		nothing (against O&M costs) to the committee.
		instrumg regulars over easily for the communication of regulator, Maintenance of embankment, Maintenance of drainage canal, Others (We are supposed to undertake all the above
Q4=0.		
		ice we do these only as and when required.)
		ays no roles, so the question of demarcation with those of ours is immaterial.
Q4-8:	Yes ; there are :	
	Shaldigha Bazar c	ommittee – for the development of the market.
	-	ng Club – for spots/ games.
Q4-9:		s visit periodically.
Q4=9.		
	Level/ Position: W	
Q4-10:		ee communicates to BWDB both verbally and in writing.
-	When we face pro	blem in O & M ; as and when required.
Q4-11:	When we face pro Yes ; we establish	
Q4-11:	When we face pro	blem in O & M ; as and when required.
Q4-11: 5. Issues on	When we face pro Yes ; we establish Operation Works	blem in O & M ; as and when required. contact with a designate staff of BWDB i.e Sectional Officer / Work Asstt.
Q4-11: 5. Issues on	When we face pro Yes ; we establish Operation Works Yes, we follow so	blem in O & M ; as and when required. contact with a designate staff of BWDB i.e. Sectional Officer / Work Asstt. me norms set by the committee.
Q4-11: 5. Issues on	When we face pro Yes ; we establish Operation Works Yes, we follow so BWDB did not pr	blem in O & M ; as and when required. contact with a designate staff of BWDB i.e. Sectional Officer / Work Asstt. me norms set by the committee. rovide any thing.
Q4-11: 5. Issues on Q5-1:	When we face provide the second secon	bblem in O & M ; as and when required. contact with a designate staff of BWDB i.e. Sectional Officer / Work Asstt. me norms set by the committee. rovide any thing. only issue and we operate gates according to agricultural needs. No conflict exists
Q4-11: 5. Issues on Q5-1:	When we face pro Yes ; we establish Operation Works Yes, we follow so BWDB did not pr Agriculture is the Yes, such situatio	blem in O & M ; as and when required. contact with a designate staff of BWDB i.e. Sectional Officer / Work Asstt. me norms set by the committee. rovide any thing.
Q4-11: 5. Issues on Q5-1: Q5-2:	When we face prov Yes ; we establish Operation Works Yes, we follow so BWDB did not pr Agriculture is the Yes, such situatio attention	bblem in O & M ; as and when required. contact with a designate staff of BWDB i.e. Sectional Officer / Work Asstt. me norms set by the committee. rovide anything. only issue and we operate gates according to agricultural needs. No conflict exists n of difficult operation beyond our ideas occurred. All the river side gates (4 nos.) were damaged and when river stage rise water enters. We look like helpless – BWDB pays on
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Q4-11: 5. Issues on Q5-1: Q5-2: Q5-3:	When we face pro Yes ; we establish Operation Works Yes, we follow so BWDB did not pr Agriculture is the Yes, such situatio attention No, we operate ac	bblem in O & M ; as and when required. contact with a designate staff of BWDB i.e. Sectional Officer / Work Asstt. me norms set by the committee. rovide anything. only issue and we operate gates according to agricultural needs. No conflict exists n of difficult operation beyond our ideas occurred. All the river side gates (4 nos.) were damaged and when river stage rise water enters. We look like helpless – BWDB pays on
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Q4-11: 5. Issues on Q5-1: Q5-2: Q5-3: Q5-4: Q5-5:	When we face pro Yes; we establish Operation Works Yes, we follow soo BWDB did not pp Agriculture is the Yes, such situatio attention No, we operate ac Yes, it happened As stated above; t	bblem in O & M ; as and when required. contact with a designate staff of BWDB i.e. Sectional Officer / Work Asstt. me norms set by the committee. rovide any thing. only issue and we operate gates according to agricultural needs. No conflict exists n of difficult operation beyond our ideas occurred. All the river side gates (4 nos.) were damaged and when river stage rise water enters. We look like helpless – BWDB pays on ccording to the needs of agricultural requirement. No problem occurs.
Q4-11: 5. Issues on Q5-1: Q5-2: Q5-3: Q5-4: Q5-5: Q5-6:	When we face pro Yes; we establish Operation Works Yes, we follow so BWDB did not pr Agriculture is the Yes, such situatio attention No, we operate at Yes, it happened As stated above; t As stated above.	bblem in O & M ; as and when required. contact with a designate staff of BWDB i.e. Sectional Officer / Work Asstt. me norms set by the committee. rovide any thing. only issue and we operate gates according to agricultural needs. No conflict exists n of difficult operation beyond our ideas occurred. All the river side gates (4 nos.) were damaged and when river stage rise water enters. We look like helpless – BWDB pays on cording to the needs of agricultural requirement. No problem occurs. conce in this long 15 years. The people in the upstream area were submerged due to high flooding. They came and cut away the embankment. the gates were closed gates but the upstream people become aggrieved and cut the embankment.
Q4-11: 5. Issues on Q5-1: Q5-2: Q5-3: Q5-4: Q5-5: Q5-6: Q5-6: Q5-7:	When we face pro Yes ; we establish Operation Works Yes, we follow so BWDB did not pr Agriculture is the Yes, such situation No, we operate ac Yes, it happened As stated above; No there has been	bblem in O & M ; as and when required. contact with a designate staff of BWDB i.e Sectional Officer / Work Asstt. me norms set by the committee. rovide any thing. only issue and we operate gates according to agricultural needs. No conflict exists n of difficult operation beyond our ideas occurred. All the river side gates (4 nos.) were damaged and when river stage rise water enters. We look like helpless – BWDB pays on cording to the needs of agricultural requirement. No problem occurs. once in this long 15 years. The people in the upstream area were submerged due to high flooding. They came and cut away the embankment. the gates were closed gates but the upstream people become aggrieved and cut the embankment. In o complaint against committee decision.
Q4-11: 5. Issues on Q5-1: Q5-2: Q5-3: Q5-4: Q5-5: Q5-6: Q5-6: Q5-7: Q5-8:	When we face pro Yes ; we establish Operation Works Yes, we follow so BWDB did not pr Agriculture is the Agriculture is the Yes, such situatio attention No, we operate ac Yes, it happened As stated above; t As stated above; No there has been No, there is no co	bblem in O & M ; as and when required. contact with a designate staff of BWDB i.e. Sectional Officer / Work Asstt. me norms set by the committee. rovide any thing. only issue and we operate gates according to agricultural needs. No conflict exists n of difficult operation beyond our ideas occurred. All the river side gates (4 nos.) were damaged and when river stage rise water enters. We look like helpless – BWDB pays on cording to the needs of agricultural requirement. No problem occurs. noce in this long 15 years. The people in the upstream area were submerged due to high flooding. They came and cut away the embankment. the gates were closed gates but the upstream people become aggrieved and cut the embankment. in on complaint against committee decision. nflicting group.
Q4-11: 5. Issues on Q5-1: Q5-2: Q5-3: Q5-4: Q5-5: Q5-6: Q5-6: Q5-7: Q5-8: Q5-9:	When we face pro Yes ; we establish Operation Works Yes, we follow so BWDB did not pr Agriculture is the Agriculture is the Yes, such situation attention No, we operate ac Yes, it happend As stated above; As stated above; As stated above. No, there has been I think there shou	bblem in O & M ; as and when required. contact with a designate staff of BWDB i.e. Sectional Officer / Work Asstt. me norms set by the committee. rovide anything. only issue and we operate gates according to agricultural needs. No conflict exists n of difficult operation beyond our ideas occurred. All the river side gates (4 nos.) were damaged and when river stage rise water enters. We look like helpless – BWDB pays on cording to the needs of agricultural requirement. No problem occurs. once in this long 15 years. The people in the upstream area were submerged due to high flooding. They came and cut away the embankment. the gates were closed gates but the upstream people become aggrieved and cut the embankment. In complaint against committee decision. milicting group. Id have some strong co-operative society based on this structure/ block of farming area so that it can work for the O & M without any external aid.
Q4-11: 5. Issues on Q5-1: Q5-2: Q5-3: Q5-4: Q5-5: Q5-6: Q5-6: Q5-7: Q5-8: Q5-9: 6. Issues on	When we face pro Yes; we estabilish Operation Works Yes, we follow so BWDB did not pr Agriculture is the Yes, such situatio attention No, we operate aa Yes, it happened As stated above; No there is no co think there shou Maintenance Worf	bblem in O & M ; as and when required. contact with a designate staff of BWDB i.e Sectional Officer / Work Asstt. me norms set by the committee. orvide any thing. only issue and we operate gates according to agricultural needs. No conflict exists n of difficult operation beyond our ideas occurred. All the river side gates (4 nos.) were damaged and when river stage rise water enters. We look like helpless – BWDB pays on cording to the needs of agricultural requirement. No problem occurs. once in this long 15 years. The people in the upstream area were submerged due to high flooding. They came and cut away the embankment. the gates were closed gates but the upstream people become aggrieved and cut the embankment. In complaint against committee decision. nflicting group. Id have some strong co-operative society based on this structure/ block of farming area so that it can work for the O & M without any external aid. Is o
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Q4-11: 5. Issues on Q5-2: Q5-3: Q5-3: Q5-5: Q5-6: Q5-6: Q5-6: Q5-9: 6. Issues on Q6-1:	When we face pro Yes ; we establish Operation Works Yes, we follow so BWDB did not pr Agriculture is the Agriculture is the Yes, it happened Yes, it happened Yes, it happened Yes, it happened As stated above; As stated above; No there has been No, there is no co I think there shou Maintenance Worf I. Lack of grease, Debris in front of	bblem in O & M ; as and when required. contact with a designate staff of BWDB i.e. Sectional Officer / Work Asstt. me norms set by the committee. rovide anything. only issue and we operate gates according to agricultural needs. No conflict exists n of difficult operation beyond our ideas occurred. All the river side gates (4 nos.) were damaged and when river stage rise water enters. We look like helpless – BWDB pays on cording to the needs of agricultural requirement. No problem occurs. once in this long 15 years. The people in the upstream area were submerged due to high flooding. They came and cut away the embankment. the gates were closed gates but the upstream people become aggrieved and cut the embankment. In o complaint against committee decision. mflicting group. Id have some strong co-operative society based on this structure/ block of farming area so that it can work for the O & M without any external aid. esc 2. Lost or loose of bolt, 3. Damage of gar box, 4. Theft of gar box, 5. Damage of hoist rod, 6. Theft of hoist rod, 8. Damage of rubber seal, 9. Damage of structure, 10. gute, 13. Artificial cut, 17. Wheel truck, 19. Overtopping. 22. Land degradation
Q4-11: 5. Issues on Q5-1: Q5-2: Q5-3: Q5-4: Q5-5: Q5-5: Q5-7: Q5-8: Q5-7: Q5-8: Q5-7: Q5-8: Q5-7: Q5-8: Q5-1: Q5-1: Q5-2: Q	When we face pro Yes; we estabilish Operation Works Yes, we follow so BWDB did not pr Agriculture is the Yes, such situatio attention No, we operate aa Yes, it happened As stated above: No there is no co As stated above. No there is no co L think there shou Maintenance Worf I. Lack of grease, Debris in front of Repair by your or	bblem in O & M ; as and when required. contact with a designate staff of BWDB ic Sectional Officer / Work Asstt. me norms set by the committee. orvide any thing. only issue and we operate gates according to agricultural needs. No conflict exists n of difficult operation beyond our ideas occurred. All the river side gates (4 nos.) were damaged and when river stage rise water enters. We look like helpless – BWDB pays on cording to the needs of agricultural requirement. No problem occurs. once in this long 15 years. The people in the upstream area were submerged due to high flooding. They came and cut away the embankment. the gates were closed gates but the upstream people become aggrieved and cut the embankment. In complaint against committee decision. nflicting group. Id have some strong co-operative society based on this structure/ block of farming area so that it can work for the O & M without any external aid. s 2. Lot or loose of bolt, 3. Damage of gar box, 4. Theft of gar box, 5. Damage of hoist rod, 6. Theft of hoist rod, 8. Damage of rubber seal, 9. Damage of structure, 10. gate, 13. Artificial cut, 17. Wheel truck, 19. Overtopping, 22. Land degradation win manpower, Purchase any missing parts, Request BWDB to repair
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Q4-11: 5. Issues on Q5-1: Q5-3: Q5-4: Q5-5: Q5-6: Q5-7: Q5-8: Q5-9: 6. Issues on Q6-1: Q6-2: Q6-4: Q6-5: Q7-2: Q7-3: Q7-4: Q7-5: Q7-6: 8. Needs for	When we face pro Yes; we estabilish Operation Works Yes, we follow so BWDB did not pr Agriculture is the Yes, such situatio attention No, we operate ac Yes, it hap pened: As stated above; As stated above; As stated above; As stated above; As stated above; I think there shou No there has been No, there is no co I think there shou Maintenance Worf I. Lack of grease, Debris in front of Repair by your ov We have limitation No, submergible ei Same as reply to 6 Capacities Just after commis No, this is not sut Manual operation No, the field is qu I. Lack of grease, tedel structure, I Shortage of height Future O&M Wor O & M training ;	bibmin 0 & M 1 as and when required. i contact with a designate staff of BWDB is Sectional Officer / Work Asstt. me norms set by the committee. rovide anything. only issue and we operate gates according to agricultural needs. No conflict exists on of difficult operation beyond our ideas occurred. All the river side gates (4 nos.) were damaged and when river stage rise water enters. We look like helpless – BWDB pays on cording to the needs of agricultural requirement. No problem occurs. one in this long 15 years. The poople in the upstream area were submerged due to high flooding. They came and cut away the embankment. the gates were closed gates but the upstream people become aggieved and cut the embankment. in complaint against committee decision. flicting group. Id have some strong co-operative society based on this structure/ block of farming area so that it can work for the O & M without any esternal aid. sets 2. Lost or loose of bolt, 3. Damage of gare box, 4. Theft of gare box, 5. Damage of hoist rod, 6. Theft of hoist rod, 8. Damage of rubber seal, 9. Damage of structure, 10. group. Bub the upstream people becore pages and the repair sand BWDB remains silent. hankarment (in the sub-project). 2. Sp: lence skipped sioning of the gate BWDB provided one day consultative training on O & M. fficient. of gates is seriously hard. it accessible. 2. Lost or loose of bolt, 3. Damage of gare box, 4. Theft of gare box, 5. Damage of hoist rod, 6. Theft of hoist rod, 7. Lost of gate, 8. Damage of rubber seal, 9. Damage of concide the sub-project). 2. Lost or loose of bolt, 3. Damage of gare box, 4. Theft of gare box, 5. Damage of hoist rod, 6. Theft of hoist rod, 7. Lost of gate, 8. Damage of rubber seal, 9. Damage of concide the sub-project). 2. Lost or loose of bolt, 3. Damage of gare box, 4. Theft of gare box, 5. Damage of hoist rod, 6. Theft of hoist rod, 7. Lost of gate, 8. Damage of rubber seal, 9. Damage of 0. Crack of concrete, 11. Degradation of concrete, 12. Settlement of structure,
Q4-11: 5. Issues on Q5-1: Q5-3: Q5-4: Q5-5: Q5-6: Q5-7: Q5-7: Q5-7: Q5-7: Q5-8: Q5-9: 6. Issues on Q6-2: Q6-3: Q6-4: Q7-1: Q7-2: Q7-3: Q7-4: Q7-5: Q7-6: 8. Needs for Q8-1:	When we face pro Yes ; we estabilish Operation Works Yes, we follow so BWDB did not pr Agriculture is the Yes, such situatio attention No, we operate ac Yes, it happened As stated above; t As stated above; t As stated above; t As stated above; t As stated above; No, there is no co I think there shou Maintenance Worl 1. Lack of grease, Debris in front of Repair by your oo We have limitatio No submergible et Same as reply to 0 Gapacities Just after commis No, the field is qu I. Lack of grease, steel structure, I Shortage of height Future 0&M Wor O & M training ; Socio- Economic C Inhs will ensure it	bibm in 0 & M 1 as and when required. contact with a designate staff of BWDB is Sectional Officer / Work Asstt. me norms set by the committee. rovide anything. only issue and we operate gates according to agricultural needs. No conflict exists in of difficult operation beyond our ideas occurred. All the river side gates (4 nos.) were damaged and when river stage rise water enters. We look like helpless – BWDB pays on ecording to the needs of agricultural requirement. No problem occurs. once in this long 15 years. The poople in the upstream area were submerged due to high flooding. They came and cut away the embankment. the gates were closed gates but the upstream people become aggiveed and cut the embankment. In complaint against committee decision. afficting group. It have some strong co-operative society based on this structure/ block of farming area so that it can work for the O & M without any external aid. Second in this long of gar box, 4. Theft of gar box, 5. Damage of hoist rod, 6. Theft of hoist rod, 8. Damage of structure, 10. gate, 13. Artificial cut, 17. Wheel truck, 19. Overtopping, 22. Land degradation wa manpover, Purchase any missing parts, Request BWDB to repair so and BWDB remains silen. baskment (in the sub-project). Q-5. 59: lence skipped sisning of the gate BWDB provided one day consultative training on O & M. Tifeien. and development support for better O & M. given for operation of gate. 7. Lost or loose of both, 3. Damage of gar box, 4. Theft of gar box, 5. Damage of hoist rod, 6. Theft of hoist rod, 7. Lost of gate, 8. Damage of rubber seal, 9. Damage of with a sub BWDB trong for better O & M. given for operation of gate. 7. Lost or loose of both, 3. Damage of gar box, 4. Theft of gar box, 5. Damage of hoist rod, 6. Theft of hoist rod, 7. Lost of gate, 8. Damage of rubber seal, 9. Damage of 7. Lost or loose of both, 3. Damage of gar box, 4. Theft of gar box, 5. Damage of hoist rod, 6. Theft of hoist rod, 7. Lost of gate, 8. Damage of rubber seal, 9. Damage of 7
Q4-11: 5. Issues on Q5-1: Q5-3: Q5-4: Q5-5: Q5-6: Q5-7: Q5-7: Q5-7: Q5-7: Q5-8: Q5-9: 6. Issues on Q6-2: Q6-3: Q6-4: Q7-1: Q7-2: Q7-3: Q7-4: Q7-5: Q7-6: 8. Needs for Q8-1:	When we face pro Yes ; we estabilish Operation Works Yes, we follow so BWDB did not pr Agriculture is the Yes, such situatio attention No, we operate ac Yes, it happened As stated above; t As stated above; t As stated above; t As stated above; t As stated above; No, there is no co I think there shou Maintenance Worl 1. Lack of grease, Debris in front of Repair by your oo We have limitatio No submergible et Same as reply to 0 Gapacities Just after commis No, the field is qu I. Lack of grease, steel structure, I Shortage of height Future 0&M Wor O & M training ; Socio- Economic C Inhs will ensure it	bibelin O & M 1 as and when required. contact with a designate staff of BWDB is Sectional Officer / Work Asstt. me norms set by the committee. rovide anything. only issue and we operate gates according to agricultural needs. No conflict exists on of difficult operation beyond our ideas occurred. All the river side gates (4 nos.) were damaged and when river stage rise water enters. We look like helpless – BWDB pays on cording to the needs of agricultural requirement. No problem occurs. one in this long 15 years. The people in the upstream area were submerged due to high flooding. They came and cut away the embankment. the gates were closed gates but the upstream people become aggieved and cut the embankment. In complaint against committee decision. Inflicting group. Id have some strong co-operative society based on this structure/ block of farming area so that it can work for the O & M without any esternal aid. Is a control of bolt, 3. Damage of gare box, 4. Theft of gar box, 5. Damage of hoist rod, 6. Theft of hoist rod, 8. Damage of rubber seal, 9. Damage of structure, 10. gree, 13. Artificial cut, 17. Wheel truck, 19. Overtopping. 22. Land degradation we manpower. Purchase any missing parts. Request BWDB to repair as and BWDB remains silent. Inharkment (in the sub-project). 2. So rol posse of bolt, 3. Damage of gar box, 4. Theft of gar box, 5. Damage of hoist rod, 6. Theft of hoist rod, 8. Damage of rubber seal, 9. Damage of structure, 10. gree, 13. Artificial cut, 17. Wheel truck, 19. Overtopping. 22. Land degradation we manpower. Purchase any missing parts. Request BWDB to repair as and BWDB remains silent. Inharkment (in the sub-project). 2. So rol operation of gate. Theire. of gates BWDB provided one day consultative training on O & M. Theire. of gates is seriously hard. it accessible. 2. Loss of loss of holt, 3. Damage of gar box, 4. Theft of gar box, 5. Damage of hoist rod, 6. Theft of hoist rod, 7. Lost of gate, 8. Damage of rubber seal, 9. Damage of 0. Crack of concrete, 1
Q4-11: 5. Issues on Q5-1: Q5-2: Q5-3: Q5-4: Q5-5: Q5-6: Q5-7: Q5-8: Q5-9: 6. Issues on Q6-1: Q6-2: Q6-3: Q6-4: Q6-3: Q6-4: Q7-4: Q7-3: Q7-4: Q7-5: Q7-6: 8. Needs for Q8-1: Q8-2: Q8-2:	When we face pro Yes; we estabilish Operation Works Yes, we follow so BWDB did not pr Agriculture is the Yes, such situatio attention No, we operate ac Yes, it happende As stated above; As stated above; As stated above; As stated above; As stated above; No there has been No, there is no co Hinth there shou Maintenance Worf I. Lack of grease, Debris in front of Repair by your o We have limitation No submergible eu Same as reply to 1 Capacities Just after commis No, this is not suf We need training : Only one handle ge Only one handle ge, steel structure, I Shortag of height Future O&M Wor O & M training : Socio- Economic (This will ensure in We need one Ope	bibm in 0 & M 1 as and when required. contact with a designate staff of BWDB is Sectional Officer / Work Asstt. me norms set by the committee. rovide anything. only issue and we operate gates according to agricultural needs. No conflict exists in of difficult operation beyond our ideas occurred. All the river side gates (4 nos.) were damaged and when river stage rise water enters. We look like helpless – BWDB pays on ecording to the needs of agricultural requirement. No problem occurs. once in this long 15 years. The poople in the upstream area were submerged due to high flooding. They came and cut away the embankment. the gates were closed gates but the upstream people become aggrieved and cut the embankment. In complaint against committee decision. afficting group. It have some strong co-operative society based on this structure/ block of farming area so that it can work for the O & M without any external aid. Secomments of the sole of bolt, 3. Damage of gar box, 4. Theft of gar box, 5. Damage of hoist rod, 6. Theft of hoist rod, 8. Damage of structure, 10. gate, 13. Artificial cut, 17. Wheel truck, 19. Overtopping, 22. Land degradation wa manpover, Purchase any missing parts, Request BWDB to repair so and BWDB remains silent. baskment (in the sub-project). Q-5. 59: lence skipped sisning of the gate BWDB provided one day consultative training on O & M. Tifeient. and development support for better O & M. given for operation of gate. 7. Lost or loose of bolt, 3. Damage of gar box, 4. Theft of gar box, 5. Damage of hoist rod, 6. Theft of hoist rod, 7. Lost of gate, 8. Damage of rubber seal, 9. Damage of the cacessible. 2. Lost or loose of bolt, 3. Damage of gar box, 4. Theft of gar box, 5. Damage of hoist rod, 6. Theft of hoist rod, 7. Lost of gate, 8. Damage of rubber seal, 9. Damage of the cacessible. 2. Lost or loose of bolt, 3. Damage of gar box, 4. Theft of gar box, 5. Damage of hoist rod, 6. Theft of hoist rod, 7. Lost of gate, 8. Damage of rubber seal, 9. Damage of the cacessibl
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Q4-11: 5. Issues on Q5-1: Q5-1: Q5-3: Q5-4: Q5-5: Q5-6: Q5-7: Q5-8: Q5-9: 6. Issues on Q6-2: Q6-3: Q6-4: Q7-1: Q7-2: Q7-3: Q7-4: Q7-5: Q7-6: 8. Needs for Q8-2: Q8-2: Q8-3: Q8-3:	When we face pro Yes ; we estabilish Operation Works Yes, we follow so BWDB did not pp Agriculture is the Yes, such situatio attention No, we operate ac Yes, it hap pened As stated above; t As stated abo	bebm in 0 & M i as and when required. contact with a designate staff of BWDB ic Sectional Office / Work Asstt. me norms set by the committee. voide anything only issue and we operate gates according to agricultural needs. No conflict exists on of difficult operation beyond our ideas occurred. All the river side gates (4 nos.) were damaged and when river stage rise water enters. We look like helpless – BWDB pays on cording to the needs of agricultural requirement. No problem occurs. once in this long 15 years. The people in the upstream area were submerged due to high flooding. They came and cut away the embankment. the gates were closed gates but the upstream people become aggreeved and cut the embankment. no complaint against committee decision. flicking group. 2 Lost or loose of bolt, 3. Damage of gar box, 4. Theft of gar box, 5. Damage of hoist rod, 6. Theft of hoist rod, 8. Damage of rubber seal, 9. Damage of structure, 10. gate, 13. Artificial cut, 17. Wheel truck, 19. Overtopping, 22. Land degradation w manpower, Purches any missing parts. Request BWDB to repair s and BWDB remains silent. mbankment (in the sub-project). Q- 59: hence skipped sisting of the gate BWDB provided one day consultative training on O & M. frieet. q development support for better O & M. given for operation of gate. Thefter. 2. Lost or loose of bolt, 3. Damage of gar box, 4. Theft of gar box, 5. Damage of hoist rod, 6. Theft of hoist rod, 7. Lost of gate, 8. Damage of rubber seal, 9. Damage of given for operation of gate. Thefter. Q- 59: hence skipped sisting of the gate BWDB provided one day consultative training on O & M. frieet. 2. Lost or loose of bolt, 3. Damage of gar box, 4. Theft of gar box, 5. Damage of hoist rod, 6. Theft of hoist rod, 7. Lost of gate, 8. Damage of rubber seal, 9. Damage of given for operation of gate. frieet. Q- 59: hence skipped sisting of the gate BWDB provided one day consultative training on O & M. frieet. 2. Lost or loose of bolt, 3. Damage of gar box, 4. Theft of gar box, 5. Damage of hoist rod, 6.
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Q4-11: 5. Issues on Q5-1: Q5-2: Q5-3: Q5-4: Q5-5: Q5-8: Q5-9: G. Issues on Q6-1: Q6-5: Q6-6: Q6-2: Q6-3: Q6-4: Q7-2: Q7-3: Q7-4: Q7-3: Q7-4: Q7-5: Q7-6: Q7-6: Q8-1: Q8-1: Q8-2: Q8-3: Q8-4: Q8-5: Q7-5: Q8-1: Q7-5: Q8-1: Q8-1: Q7-5: Q8-1: Q8-1: Q7-5: Q8-1: Q8-1: Q8-1: Q8-1: Q7-5: Q8-1: Q8-1: Q8-1: Q7-5: Q8-1: Q8-1: Q8-1: Q8-1: Q8-1: Q7-5: Q8-1: Q	When we face pro Yes; we estabilish Operation Works Yes, we follow so BWDB did not pr Agriculture is the Yes, such situatio attention No, we operate ac Yes, it happened As stated above; As stated above; As stated above; No, there is no co I think there shou Maintenance Worf I. Lack of grease, Debris in front of Repair by your o We have limitatio No, this is not sut Gapacities No, this is not sut Same as reply to G Capacities No, this is not sut Manual operation No, the field is qu I. Lack of grease, Only one handle g No, this is not sut Manual operation No, the field is qu I. Lack of grease, Steel structure, I Shortage of height Fature O&M Wor O & M training : Socio- Economic G This will ensure i We need one Ope Chain pulley- for No, fi we become	bbm in O & M : is and when required. i contract with a designate staff of BWDB is Sectional Officer / Work Asstt. me norms set by the committee. voide anything. only issue and we operate gates according to agricultural needs. No conflict exists on of difficul operation beyond our ideas occurred. All the river side gates (4 nos.) were damaged and when river stage rise water enters. We look like helpless – BWDB pays on cording to the needs of agricultural requirement. No problem occurs. once in this long 15 years. The prophe in the upstream area were submerged due to high flooding. They came and cut away the embankment. the gates were closed gates but the upstream people become aggrieved and cut the embankment. the gates were closed gates but the upstream people become aggrieved and cut the embankment. In coording to the needs of agricultural requirement. No problem occurs. once in this long 15 years. The prophe in the upstream area were submerged due to high flooding. They came and cut away the embankment. In coording to the needs of agricultural requirement were agrieved and cut the embankment. In coording to the needs of agricultural requirement were agrieved and cut the embankment. In coording to the needs of agricultural requirement where the submerged due to high flooding. They came and cut away the embankment. In coording to the needs of agricultural requirement were the submerged and the submerged due to high flooding. They came and cut away the embankment. In coording to the needs of agricultural requirement were submerged due to high flooding. They came and out away the embankment. In some strong co-operative society based on this structure block of farming area so that it cam work for the O & M without any external aid. So 2. Lost or lose of roloh. 3. Damage of gar box. 4. Theft of gar box. 5. Damage of hoist rod, 6. Theft of hoist rod, 7. Lost of gate. 8. Damage of rubber seal, 9. Damage of 1. Crack for concrete, 11. Degradation of concrete, 12. Strtiement of structure, 13. Debris
Q4-11: 5. Issues on Q5-1: Q5-2: Q5-3: Q5-4: Q5-5: Q5-8: Q5-9: G. Issues on Q6-1: Q6-5: Q6-6: Q6-2: Q6-3: Q6-4: Q7-2: Q7-3: Q7-4: Q7-3: Q7-4: Q7-5: Q7-6: Q7-6: Q8-1: Q8-1: Q8-2: Q8-3: Q8-4: Q8-5: Q7-5: Q8-1: Q7-5: Q8-1: Q8-1: Q7-5: Q8-1: Q8-1: Q7-5: Q8-1: Q8-1: Q8-1: Q8-1: Q7-5: Q8-1: Q8-1: Q8-1: Q7-5: Q8-1: Q8-1: Q8-1: Q8-1: Q8-1: Q7-5: Q8-1: Q	When we face pro Yes; we estabilish Operation Works Yes, we follow so BWDB did not pr Agriculture is the Yes, such situatio attention No, we operate ac Yes, it happened As stated above; As stated above; As stated above; No, there is no co I think there shou Maintenance Worf I. Lack of grease, Debris in front of Repair by your o We have limitatio No, this is not sut Gapacities No, this is not sut Same as reply to G Capacities No, this is not sut Manual operation No, the field is qu I. Lack of grease, Only one handle g No, this is not sut Manual operation No, the field is qu I. Lack of grease, Steel structure, I Shortage of height Fature O&M Wor O & M training : Socio- Economic G This will ensure i We need one Ope Chain pulley- for No, fi we become	bebm in 0 & M : as and when required. contact with a designate staff of BWDB is Sectional Officer / Work Asstt. me norms set by the committee. voide any thing. only issue and we operate gates according to agricultural needs. No conflict exists on of difficult operation beyond our fides occurred. All the river side gates (4 nos.) were damaged and when river stage rise water enters. We look like helpless – BWDB pays on cording to the needs of agricultural requirement. No problem occurs. once in this long 15 years. The people in the upstream area were submerged due to high flooding. They came and cut away the embankment. the gates were closed gates but the upstream people become aggrieved and cut the embankment. no complaint against committee decision. flicting group. the assess strong co-operative society based on this structure/ block of farming area so that it can work for the O & M without any external aid. s 2. Lost or loss of fold, 3. Damage of gare box, 4. Theft of gare box, 5. Damage of hoist rod, 6. Theft of hoist rod, 8. Damage of rubber seal, 9. Damage of structure, 10. grapt, 13. Artificial cut, 17. Wheel ruck, 19. Overtopping, 22. Land degradation wn manpower, Parchase any missing parts, Request BWDB to repair as and BWDB runks, 19. Overtopping, 22. Land degradation wn manpower, Parchase any missing parts, Request BWDB to repair as and BWDB runks and structure, 19. Overtopping, 22. Land degradation wn mapower, Parchase any missing parts, Request BWDB to repair as and BWDB runks and structure, 19. Overtopping, 22. Land degradation wn mapower, Parchase any missing parts, Request BWDB to repair as and BWDB remains site. of the subper of the tro O & M. frieter. 1. Degradation of other to Q & M. frieter. 2. Jost or loose of bolt, 3. Damage of gar box, 4. Theft of gar box, 5. Damage of hoist rod, 6. Theft of hoist rod, 7. Lost of gate, 8. Damage of rubber seal, 9. Damage of Crack of correct, 11. Degradation of concrete, 12. Settlement of structure, 13. Debris in front of gate, 15. Artificial cut, 16. Ero

Interview Result: Singer Beel Subproject

1. Basic Info	ormation on Intervi	ew
	interview	[3] Aug 2013; Time: 08.35 AM to 11.05 AM
Locatio		Dirtici: Netwoona Upazila Barhatta Village:Putukia
-	of interviewee	District recrossing opparte Damata v mage: utusa Md. Jalal Udah (in presence of Md.Shahjahan, Gate Operator)
Organiz		Mic. Jaa Oulin (in presence of Mic.stanjana), Gate Operator) Tunnir Sluce Committee
Position		Chaiman of the Committee
	of interviewer	Charman of the Committee
	ormation on Sub-pr	
	oject name	Singer Beel Subproject
Locatio		Jonge Deer Subproject
Regulat		District, recrossing Openia, Damarca Reg-11 umin Regulator
regulat		Reg-1: I unimi Regulatori Reg-2:
Full em	bankment	Arge 2 Length:20.0 km, Crest width:4.27 m, Crest elev. 12.20 to 13.14 ELm
		Length 20 km, Crest while 24 m Crest elev: 10.14 to 11.80 ELm
Canal	oourkinelit	Length 27/0 Mit, Cless wall, 2-44 mit, Cless Cev-10-14 f0 11:00 Length 200 m
Canar		Can-2:Kamahour Canal, tength: 200 Ani, Bed width: 50 m, Top width: 18.0m
3 Your Pare	onal Experience in	
	I am a farmer	U WIN WORKS
	I am a farmer	in filled and the second s
		ion of flood management structures, Operation of regulator, Maintenance of embankment, Maintenance of drainage canal, Repair of structures
		and it takes nearly 1.00 hour walking time (to see every thing).
		ryday; I walk on foot.
		mosque committee as its member
		esponsibilities I carry out; that is absolutely a voluntary effort.
	tatus of Your Orga	
		ommittee is responsible for O&M works; there is no other organization/committee.
		it may be a 24-member committee. All are farmers; main income comes from agricultural activities.
		ause we have the common interest of farming.
		ng source of the committee. Local beneficiaries provide little money when it is required to take up any O&M work emergently.
		ee never received any O&M cost from BWDB.
		ion of flood management structures, Operation of regulator, Maintenance of embankment, Maintenance of drainage canal, Repair of structures
-		roles and those of BWDB.
		community/group in and around the area.
Q4-9:	Yes, periodically	they come here; they means -Sectional Officer and Work Assistant etc.
Q4-10:		e does not communicate regularly.
	When BWDB me	n approaches and ask for any information, we provide it verbally.
Q4-11:	No proper contac	t point to get any crisis solved or even simply to report.
5. Issues on	Operation Works	
Q5-1:	Yes, we have our	own norms and practices set by the Committee; this includes gate opening /closing schedule as per crops production demand.
	Yes, we have been	n following those norms.
Q5-2:		s back the Gear Box of 2 nos. gates were stolen; we became helpless. No remedies as yet.
		ce any such problem.
		ed this problem once when the Gear Box was stolen.
05-5:	No such situation	
	No such situation	occurred.
Q5-6:	No, this situation	occurred. never happened.
Q5-6: Q5-7:	No, this situation No, there has not	occurred. never happened. been any complaint till now.
Q5-6: Q5-7: Q5-8:	No, this situation No, there has not The gates are ope	occurred. never hap pened. been any complaint till now. ned or closed as per agricultural needs only; no Fisheries Groups exist here and hence no such conflicting situation arises.
Q5-6: Q5-7: Q5-8:	No, this situation No, there has not The gates are ope The Gear Box (02	occurred. never happened. been any complaint till now. ned or closed as per agricultural needs only; no Fisheries Groups exist here and hence no such conflicting situation arises. et nos. out of 03gates) were stolen 4 years ago. Since then the gates are being opened/closed manually. This is really a hard job. We want some remedial measures; BWDB should take
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	-		
Qo-/: Jummediate restoration of the gates and accomplishment of other maintenance works are vital at this stage.			
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	Q8-7:		

Interview Result: Alalia-Bahadia Sub-project

1 Desig Info	mastion on Intomi										
	ormation on Intervi										
	interview	27 Aug 2013; Time: 11.25 AM to 02.10 PM									
Locatio		District: Kiashoreganj Upazila: Pakundia + Katiadi Village:Bahadia									
	of interviewee	Md. Lal Miah									
Organiz	ation	Bahadia Sluicce Committee									
Position	n	Member of the Committee									
	of interviewer	Md. Moniruzzaman P Eng									
	ormation on Sub-pr										
	pject name	Alaia-Bahadia Subproject									
		Anana-Danakua suopinjeet									
Locatio											
Regulat	or	Reg-1:Bahadia Regulator									
		Reg-2:									
Full em	bankment	Length: km, Crest width: m, Crest elev. x to x El.m									
Submer	gible embankment	Length: x km, Crest width: x m, Crest elev. x to x El.m									
Canal	0	Can-1:Alalia Canal; Length:5.0 km; Bed width: 5.0 m, Top width: 13.0 m									
		Can-2:Bahad ia Canal: Length:5.0 km Bed Width: 5.0m Top Width: 12.0m									
2 Voue Does	onal Experience in										
	Agricultural Farm										
		e since commissioning of the Regulator									
Q3-3:	Operation of regu	lator, Repair of structures									
Q3-4:	Structure: about 1	00 m apart from my house; off and on I go there and see.									
	No embankment;	and I do not go to visit Canal sites									
03-5	Very often; just b										
		hadia Sluce Gate Mosque Committee as Member;									
Q3-0.											
00.7	It is the prayer pl										
Q3-7:		the Committee-just nominally.									
1		people/staffs approach me at times of need.									
1	No official contra	et with BWDB.									
4. Current St	tatus of Your Orga	nization									
		her organization/committee for the O&M works									
		the organization on minimizer for the Occur Works									
Q4-2:											
		rece is agricultural farming.									
	Yes; but some are										
Q4-4:		ement. The committee provides no money for O&M.									
	BWDB does ever	ything (O&M works) what is required.									
Q4-5:	BWDB places no	fund (for the cost of O&M works) to the committee.									
	Operation of regu										
		ities assigned to the committee; Committee undertakes those responsibilities what BWDB asks for.									
Q4-8:		f LLP (Low-lift Pump) groups;									
	Bahadia Madhyap	para-2 Nos. and									
	Bahadia Dakshinp	ara-1 No									
	These are for surf	ace water irrigation.									
Q4-9:	Once or twice in a										
X · · · ·		Officer or Work Assistant.									
04.10											
Q4-10:	No such regular co	mmunication with BWDB;									
		occur some problems, the committee informs BWDB at Kishoreganj either in writing or verbally.									
Q4-11:		occur some problems, the committee informs BWDB at Kishoreganj either in writing or verbally. uch contact at BWDB.									
5. Issues on	No. There is no su Operation Works	ich contact at BWDB.									
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Interview Result: Motkhola-Bairagir Char Sub-project

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Biological protection of embankment slopes to check erosion is also required.	Q6-1: Q6-2: Q6-3: Q6-4: Q6-4: Q6-5: 7. Technical Q7-1: Q7-2: Q7-3: Q7-4: Q7-4: Q7-5: Q7-6: 8. Needs for Q8-1: Q8-2: Q8-3: Q8-4: Q8-5: Q8-5: Q8-6:	The water level in To save the polde Maintenance Worf I. Lack of grease, Repair by your on It is due to the in What we do - thou There should have Capacities Only Physical det No other training No, We need more Only a hand oper- too other training No, We need som No, there is no dif I. Lack of grease, steel structure, I Erosion by river f Future O&M Worf Yes, already told O&M training- to A motor bike for So that he can mo Grease Gun – to a I think no assistar That should be se I feel that the num	ou that during monsoon it happens (as noted below) at times: side the polder and also that in the river side becomes same- it is mainly due to flooding or incessant rainfall. At this condition no gate operation solves the problem. r inhabitants (from drowning), can it be made some provision that we have also the pumping facilities. set inhabitants (from drowning), can it be made some provision that we have also the pumping facilities. set 2. Lost or loose of bolt, 3. Damage of gear box, 8. Damage of rubber seal, 9. Damage of structure, 10. Debris in front of gate, 14. Erosion by rainfall, 17. Wheel truck we manpower, Request BWDB to repair ability of the Sluice Committee. No other comments ergible type of structures or embankment. So I can not make any comments. set are for non-submergible elements. well organized and registered cooperative society for the sub-project. That will be viable enough economically. oroks can be done as per needs and in time. monstration of gate operation; by BWDB at the time of hand over of handle-once for all. given. te training on O&M as well as on strengthening our capabilities. ating tool for opening / closing of gates. 2. Lost or loose of bolt, 3. Damage of gate box, 4. Theft of gear box, 5. Damage of hoist rod, 6. Theft of hoist rod, 7. Lost of gate, 8. Damage of nubber seal, 9. Damage of o. Crack of concrete, 11. Degradation of concrete, 12. Settlement of structure, 13. Debris in front of gate, 15. Artificial cut, 16. Erosion by rainfall, 17. Erosion by wave, 18. low, 19. Wheel truck, 20. Shortage of height, 21. Crack, 22. Wet condition, 23. Uncovering rks earlier. bring in improvement in O&M works and also sustainability assurance. the Operator. ve and see the condition of embankment regularly pply grease to Gear Box, Painting Brushes -for painting ; Wrench Box- to undertake minor repairing and Chain Pulley- to lift gates; ce will be effective, instead there should have some arrangement to make the beneficiaries' organization stronger for O&M works. i									
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Interview Result: Ganakkhali Sub-project

	ormation on Intervie	AND A DECEMBER OF									
	f interview	108.2013									
Locatio		District: Kishoreganj Upazila: Kuliarchar Village: Vhatidaria									
	of interviewee	Protip Chardra Shaha, Son of Late Debesh Chardra Shaha									
Organiz		From Changing Son of Late Debesh Changing									
Positio											
	of interviewer	- Muhammad Alamgir Hossain									
	ormation on Sub-pro										
		gev Ganakkhali Sub-project									
	oject name										
Locatio		District: Kishoreganj Upazila: Kuliarchar									
Regulat	tor	Reg-1: Ganakkhali Reg, 2 Vents, size (BXH): 1.52m x 1.83m, Not functioning									
	nbankment	Length - km, Crest width - m, Crest elev to - El.m									
	rgible embankment	Length - km, Crest width - m, Crest elev to - ELm									
Canal		Can-1: -									
Your Pers	sonal Experience in	O&M Works									
Q3-1:	My major income	sources are Business and Cultivation. Boro paddy (Irri) is cultivated here once a year.									
Q3-2:	My father had 16	years experience in O&M works and I have 4 years experience.									
		nor I did any O&M works. There was no necessity of operation for the regulator									
		gulator is 400 m far from my house and it takes 10 to 15 minutes to reach the regulator site by walking.									
		or site once a week on foot.									
		g to any local community groups.									
		g to any secar commany groups.									
Q3=7.											
		ather by the contractor and the BWDB office. I don't know whether my father had any official contract with BWDB.									
	1 don't have any o	ffice contract with BWDB.									
1.0											
	Status of Your Organ										
Q4-1:		ecial organization/ committee for O&M works in the sub-project.									
		dividual irrigation schemes in the sub-project area. The owners of the irrigation scheme take paddy the farmers who received water from the respective irrigation scheme.									
Q4-2:	-	zation/ committee for O&M works in the sub-project.									
	There are some in	dividual irrigation schemes in the sub-project area.									
Q4-3:	There is no organi	zation/ committee for O&M works in the sub-project. After construction of the regulator, the handle was given to my father by the contractor and the BWDB office.									
	There is no fundin										
		e any O&M cost from BWDB. The blocks of the downstream of the regulator were repaired BWDB around 4 years ago.									
		essity of operation for the regulator.									
		possibilities. I just have the handle.									
		portative societies among the fishermen out side the regulator area to develop their fishery.									
Q4-9:		fiftees do not regularly come to the field for inspection. They come occasionally and do not contact with me. As I know they came here 4 years ago. The position of the BWDB									
		rk Assistant (W/A).									
	No, it is not neces										
		per contact with BWDB offices because the regulator was not operated even a single time.									
	Operation Works										
		not operated even a single time. There is no rule/ technical manual/ standard.									
Q5-2:	Skip.										
Q5-3:	The regulator was	not operated even a single time.									
Q5-4:	The regulator was	not operated even a single time.									
Q5-5:	Our area is higher	than others. So no flash flood is occurred here. We need water for irrigation purpose.									
Q5-6:	One gate is close.	The second gate has been stolen and the vent is open. Small amount of water passes through the regulator because the canal is silted up.									
	The regulator was	regulator was not operated even a single time. So no complaint was there.									
		not operated even a single time. So no complaint was there.									
	There are some co	not operated even a single time. So no complaint was there. operative societies among the fishermen out side the project area. So there is no conflict between different groups, for instance, farmers and fisheries.									
Q5-9:	There are some co No specific issues	not operated even a single time. So no complaint was there. operative societies among the fishermen out side the project area. So there is no conflict between different groups, for instance, farmers and fisheries. in operation works is there. A formal regulator operator may be required if the 3 km canal is excavated and regulator is repaired.									
Q5-9: 6. Issues on	There are some co No specific issues Maintenance Work	not operated even a single time. So no complaint was there. operative societies among the fishermen out side the project area. So there is no conflict between different groups, for instance, farmers and fisheries. in operation works is there. A formal regulator operator may be required if the 3 km canal is excavated and regulator is repaired. s									
Q5-9: 6. Issues on Q6-1:	There are some co No specific issues Maintenance Work 4. Theft of gear bo	not operated even a single time. So no complaint was there. operative societies among the fishermen out side the project area. So there is no conflict between different groups, for instance, farmers and fisheries. in operation works is there. A formal regulator operator may be required if the 3 km canal is excavated and regulator is repaired. society of the structure of the structure of the structure operator o									
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Q5-9: 6. Issues on Q6-1: Q6-2:	There are some co No specific issues Maintenance Work 4. Theft of gear bo Request BWDB to	not operated even a single time. So no complaint was there. operative societies among the fishermen out side the project area. So there is no conflict between different groups, for instance, farmers and fisheries. in operation works is there. A formal regulator operator may be required if the 3 km canal is excavated and regulator is repaired. is o, 6. Theft of hoist rod, 7. Lost of gate, 11. No operation committee, 21. Sedimentation o repair									
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Q5-9: 6. Issues on Q6-1: Q6-2: Q6-3: Q6-3: Q6-4: Q6-5: Q7-1: Q7-2: Q7-3: Q7-4: Q7-5: Q7-6: Q8-2: Q8-3: Q8-2: Q8-2: Q8-4: Q8-4:	There are some co No specific issues Maintenance Work 4. Theft of gear bo Request BWDB to The regulator has Long time ago we well well before th Excavation of the The regulator is no The canal has ever Capacities No guidance' train Skip. Only the handle o I am not satisfied project. There is no diffici If They have no e Future O&M Wor If it is just for ope No, I have mobile Some spread is ne Yes, we need som O&M Cost. If the Yes, it viable orga organization.	not operated even a single time. So no complaint was there. operative societies among the fishermen out side the project area. So there is no conflict between different groups, for instance, farmers and fisheries. in operation works is there. A formal regulator operator may be required if the 3 km canal is excavated and regulator is repaired. is one can be the canal of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the regulator is a very necessary for proper functioning of the project. In such the water the canal for irrigation. When the canal was silted up we did not receive water from the canal during dry season. So we started using of ground water by deep tube- te construction of the regulator. 3 km canal is a very necessary for proper functioning of the project. on-submergible structure and there is no embankment around the project. rot been excavated. f the regulator has been provided. with the about the hole project. We have lost our land but we did not get any benefit from the project. Excavation of the 3 km canal is a very necessary for proper functioning of the sperience in the inspection of the structure. kx mation of the gregulator then no training Manual is required. phone. I can use my mobile phone if it's necessary to communicate. I just need the amount of money (500 Taka per Month) for balance of mobile. eded for Exavation of the 3 km. e financial assistant from the government for participating in O&M works. We are not able to be are to take to our poverty. We agree to provide some percentage of length of the canal is and and volume of the exavation is less then we will do the exavation own kby ourselves.									
Q5-9: 6. Issues on Q6-1: Q6-2: Q6-3: Q6-3: Q6-4: Q6-5: Q6-4: Q6-5: Q7-2: Q7-3: Q7-4: Q7-5: Q7-5: Q8-1: Q8-1: Q8-2: Q8-2: Q8-2: Q8-5: Q8-5: Q8-5:	There are some co No specific issues Maintenance Work 4. Theft of gear bo Request BWDB to The regulator has Long time ago we well well before th Exeavation of the The regulator is an The canal has ever Capacities No guidance/ train Skip. Only the handle o I am not satisfied project. There is no difficu- If They have no ef Future O&M Wor No, I have mobile Some spread is no O&M cost. If the Yes, wit viable orga organization. Yes, other types of	not operated even a single time. So no complaint was there. operative societies among the fishermen out side the project area. So there is no conflict between different groups, for instance, farmers and fisheries. in operation works is there. A formal regulator operator may be required if the 3 km canal is excavated and regulator is repaired. So the local community. used the local community. used the water the canal for irrigation. When the canal was silted up we did not receive water from the canal during dry season. So we started using of ground water by deep tube- tube to the local community. Used the water the canal for irrigation. When the canal was silted up we did not receive water from the canal during dry season. So we started using of ground water by deep tube- tube construction of the regulator. 3 km canal is a very necessary for proper functioning of the project. on-submergible structure and there is no embankment around the project. If the regulator has been provided. If the regulator hen hole project. We have lost our land but we did not get any benefit from the project. Excavation of the 3 km canal is a very necessary for proper functioning of the Ity in accessing to the field. Sperience in the inspection of the structure. Is a framical assistant from the government for participating in O&M works. We are not able to bear the total O&M cost due to our poverty. We agree to provide some percentage of length of the canal is small and volume of the excavation is less then we will do the excavation work by ourselves. nization of the gate. All the beneficiaries will be member of the comm									
Q5-9: 6. Issues on Q6-1: Q6-2: Q6-3: Q6-3: Q6-4: Q6-5: Q6-4: Q6-5: Q7-2: Q7-3: Q7-4: Q7-5: Q7-5: Q8-1: Q8-1: Q8-2: Q8-2: Q8-2: Q8-5: Q8-5: Q8-5:	There are some co No specific issues Mois pecific issues Request BWDB to The regulator has Long time ago we well well before th Exavation of the The regulator has Long time ago we well well before th Exavation of the The regulator is no The canal has ever Capacities No guidance/ train Skip. Only the handle o I am not satisfied project. There is no difficu If They have no ci Future O&M Wor If it is just for opp No, I have mobile Some spread is ne Yes, we need som O&M cost. If the Yes, it viable orga organization. Yes, other types of contribute financic	not operated even a single time. So no complaint was there. operative societies among the fishermen out side the project area. So there is no conflict between different groups, for instance, farmers and fisheries. in operation works is there. A formal regulator operator may be required if the 3 km canal is exavated and regulator is repaired. So the for hoist rod, 7. Lost of gate, 11. No operation committee, 21. Sedimentation or epair no use to the local community. used the water the canal for irrigation. When the canal was silted up we did not receive water from the canal during dry season. So we started using of ground water by deep tube- tee construction of the regulator. 3 km canal is a very necessary for proper functioning of the project. no-submergible structure and there is no embankment around the project. no-submergible structure and there is no embankment around the project. root been excavated. ings on O&M works have been provided. 4 the regulator has been provided. 4 the regulator has been provided. 4 the regulator has been provided. 4 the regulator has been provided. 5 the regulator has been provided. 5 the regulator has been provided. 5 the regulator has been provided. 5 the regulator has been provided. 5 the regulator has been provided. 5 the regulator has been provided. 5 the regulator has been provided. 5 the regulator has been provided. 5 the regulator has been provided. 5 the regulator has been provided. 5 the regulator has been provided. 5 the regulator has been provided. 5 the regulator has been provided. 5 the regulator has been provided. 5 the regulator has been provided. 5 the regulator has been provided. 5 the regulator has been provided. 5 the regulator the field. 5 the regulator the field. 5 the regulator the regulator then no training Manual is required. 5 phone. I can use my mobile phone if it's necessary to communicate. I just need the amount of money (500 Taka per Month) for balance of mobile. 5 the financial assistant from the government for p									

Interview Result: Kair Dhala Ratna Sub-project

	rmation on Intervie	ew 30.08.2013									
Location		5008-2013 District: Habiganj Upazila: Ajmiriganj Village: Korcha									
	of interviewee	District Hangan Upzzia, Ajimigan Yinagi, Kotcha Gourango Boisnab									
Organiz											
Positior		•									
	of interviewer	Muhammad Alamgir Hossain									
	ormation on Sub-pr										
Location	oject name	Kair Dhala Ratna Sub-project District: Habiganj Upazila: Ajmiriganj Village: Korcha									
Regulate		Reg-1: Korcha Reg, L 4 4m x W 4.4m, 2vents, Not functioning									
	bankment	Length - km, Crest width - m, Crest elev to - El.m									
	gible embankment	Length -26 km, Crest width - 3.96 m, Crest elev to - ELm									
Canal		Kairdhala khal, L 40.0km, Bed Width 4 m, Top Width 25 m.									
3 Your Pers	onal Experience in	O&M Works									
		Source is cultivation.									
		2 years experience in O&M works from time of regulator construction. After construction of the regulator local MP gave me the responsibilities for operation.									
		nbankment, Maintenance of drainage canal									
		s about 200 m away from my house and takes 5-10 minutes to reach the regulator site by walking.									
		or daily. I notice the regulator twice a week on foot. he "Korcha village committee." The committee plays a vital role to keep peace and regulation in the village and arrange various religious events. They also arrange the auction for									
Q3=0.	irrigation scheme.	e Rotcha vinage committee. The committee plays a vita fore to keep peace and regulation in the vinage and arrange various religious events. They also an arge the auction for									
Q3-7:		contract with BWDB.									
	tatus of Your Orga										
Q4-1:		l organization/ committee at all for O&M works in the sub-project.									
		committee named "Korcha village committee." The village committee does various activities for peace and happiness of the village including arraigning various religious events and									
04-2.		on scheme before cultivation. re in the organization/ committee. 10-12 senior citizens control the entire committee. Most of them are farmers.									
		e in the organization committee. For 2 senio efficients control the entire committee, brost of them are families. ery cooperative among themselves.									
		ng source for O&M activities of the organization/ committee.									
		agers construct embankment by their own cost for protecting crops from flood.									
015		aged embankment have been being repaired by BWDB at every year.									
Q4-5:		on/ committee does not receive any O&M cost from BWDB. naged embankment have been being repaired by BWDB at every year.									
Q4-6:		lagor dunhanking navo och och och och och och och och och oc									
		nandle and we operate the gate according to our needs depending on water level.									
		agers construct embankment by their own cost for protecting crops from flood.									
		naged embankment have been being repaired by BWDB at every year.									
		operative societies among the fishermen in the sub-project area to develop their fishery. fficers do not regularly come to the field for inspection. They come here occasionally, like once a year for estimate the O&M allocation. The position of the BWDB officer may be									
Q4=9.	Sectional Officer (
Q4-10:		unicate with BWDB.									
Q4-11:		per contact with BWDB officials.									
		te according to our needs depending on water level. We take decision all together.									
	Operation Works	echnical manual/ standard.									
Q5-1.		ccumical manufast standard. te according to our needs depending on water level. We take decision all together.									
Q5-2:		e gate according to our needs depending on water level. We take decision all together.									
Q5-3:		nal fixed operating schedule then will be some problems because flash flood does not follow the seasonal fixed operating schedule. We have to operate the regulator according to									
		se monitoring during early flood.									
	Gear box has brok										
Q3-3.		I the area in between the regulator and Kalni river is inundated because canal is silted up. and pressure was so high that 150m embankment was washed away.									
Q5-6:		likel up and the farmers don't get sufficient irrigation water from the river.									
-	During early floor	I the area in between the regulator and Kalni river is inundated because canal is silted up.									
	There is no comp										
Q5-8:		t between different groups, for instance, farmers and fisheries because fishermen also have cultivable land in the project area and they also produce crops with us. All the decisions									
Q5-9:	are taken by the v During early floor	magest together. the intake canal of the regulator is closed by the villagers to protect their crops.									
	Maintenance Work										
-		3. Damage of gear box, 8. Damage of rubber seal, 11. No operation committee, 19. Overtopping, 21. Sedimentation									
	Request BWDB t										
Q6-3:		lamaged embankment have been being repaired by BWDB at every year. en by traditional way. The villagers gather in a meeting for an open auction. The seniors are presided over the meeting. They who give lowest price will get the contact. The									
		en by traditional way. The vinagets gather in a meeting for an open auction. The seniors are presided over the meeting. They wild give rowest price will get the contact. The >-tube well for irrigation scheme.									
Q6-4:		regulator & embankment) are submergible.									
-	J	o regulator 1.5 km and from regulator to the beel another 1 km canal need to be excavated. Blocks are also need to be repaired.									
7. Technical		ine og 0.8M mede hans hans semided									
Q7-1: Q7-2:	0	ings on O&M works have been provided.									
×1-2.		rraining are essential for proper operation and maintenance works.									
Q7-3:		naterials and transportation for O&M works have been provided.									
Q7-4:											
		Ity in accessing to the field. It is accessible on foot.									
	Future O&M Wor	3. Damage of gear box, 8. Damage of rubber seal, 25. Sedimentation ks									
		as final training/ manual.									
	· For smooth oper										
	• For proper main										
00.2		tioning of the organization. phone Lean warm mobile phone if it's persent to communicate. A certain amount of money (500 Take per Month) for belance of mobile is peeded									
		phone. I can use my mobile phone if it's necessary to communicate. A certain amount of money (500 Taka per Month) for balance of mobile is needed. nent should be provided. Spade- for canal excavation and embankment repair, Shovel- for removing debris in front of gate, Wrench- for maintenance works, Water leave gauge-									
Q0=J.		ent should be provided. Space not can exavation and entoansment repair, shover to removing debits in nom or gate, wrench to manteniance works, water leave gauge- water level, forease gan-to apply grease									
Q8-4:		e financial assistant from the government for participating in O&M works. We are not able to bear the total O&M cost due to our poverty. We agree to provide some percentage of									
	O&M cost.										
Q8-5:	-	nization should be in place. All the beneficiaries will be member of the committee for better functioning of the organization and there will be a core committee to supervise the									
Q8-6:	organization. Yes, other types of	of members (like women, service holders) should be participated in O&M works. Involvement of women will increase the work capacity of the organization. Service holders can									
Q0-0.		n incriners (the worker) service noners) should be participated in Oaxy works. Involvement of women win increase the work capacity of the organization, service nonders can ally for OAM works.									
Q8-7:		o regulator 1.5 km and from regulator to the beel another 1 km canal need to be excavated. Blocks are also need to be repaired.									
	Proper monitoring	g is necessary from both BWDB and local administrative officials with regulator committee for smooth running the project.									

Interview Result: Bashira River Re-excavation Sub-project

1. Basic Info	Basic Information on Interview										
	interview	28.08.2013									
Locatio		District: Habiganj Upazila: Baniachong Village: Islampur									
	of interviewee	M d. Dolon M ia									
Organiz		Poilarkandi Union Parishad UP Member UP Member UP Member									
Position		UP Member Muhammad Alamgir Hossain									
	of interviewer ormation on Sub-pr										
	oject name	jject Bashira River Re-excavation Sub-project									
Locatio		Bashira River Re-excavation Sub-project District: Habiganj Upazila: Baniachong Village: Islampur									
Regulat		Reg-2: Islampur Reg, L 6.25m x W 4.75m, 2vents, Not functioning									
Full em	bankment	Length - km, Crest width - m, Crest elev to - El.m									
	gible embankment	Length -15 km, Crest width - 3.5 m, Crest elev to - El.m									
Canal		Bashira River, L 20.0km, Bed Width 3 m, Top Width 40 m.									
2 Vour Doro	onal Eve orignog in	ORM Weeks									
	onal Experience in	UGAN WORKS source is cultivation and small business.									
		source is curryation and small obsides. gulatory was built about 30 years ago and it was wooden plated. After one year the embankment was built. The water current and pressure was so high that 300m embankment was									
Q0 2.		deliate after construction. So embankment was not completed and the regulator was not operated even a single time.									
Q3-3:		nbankment, Maintenance of drainage canal									
Q3-4:	Islampur regulator	is about 400m away from my house and takes 15-20 minutes to reach the regulator site by walking.									
		ulator once a week on foot.									
		g to any local community groups.									
		ontract with BWDB.									
	tatus of Your Orga										
Q4-1.		cial organization/ committee at all for O&M works in the sub-project. The water current and pressure was so high that 300m embankment was washed away immediate after mbankment was not completed and the regulator was not operated even a single time.									
		instantiation was not compreted and the regulator was not operated even a single time. committee named "Islampur village committee." The village committee does various activities for peace and happiness of the village including arraigning the auction for irrigation									
	scheme before cul										
Q4-2:		e in the organization/ committee. Most of them are farmers.									
		ery cooperative among themselves.									
Q4-4:		g source for the organization/ committee.									
		tructed embankment at every year by their own cost for protecting crops from flood.									
		has been being constructed by has been BWDB for last 3/4 years.									
Q4-5:		on/ committee does not receive any O&M cost from BWDB.									
04.6		has been being constructed by has been BWDB for last 3/4 years									
		nbankment, Maintenance of drainage canal tructed embankment at every year by their own cost for protecting crops from flood.									
Q4=7.		has been being constructed by has been BWDB for last 34 years.									
Q4-8:		operative societies among the fisherment in the sub-project area to develop their fishery.									
Q4-9:		ficers do not regularly come to the field for inspection. They come here occasionally, like once a year for estimate the O&M allocation. The position of the BWDB officer may be									
	Sectional Officer (S0).									
		e occasionally with BWDB offices over mobile-phone.									
		lationship with BWDB officials.									
	Operation Works										
Q5-1:		echnical manual/standard.									
05.2		es the regulator was not operated even a single time. gates and the regulator was not operated even a single time.									
		gates and the regiment was not operated even a single time.									
Q5-4:		Since the relatives we not obtained over a surger time.									
		and pressure was so high that 300m embankment was washed away immediate after construction.									
		ilted up and the farmers don't get sufficient irrigation water from the river.									
	There is no comp										
Q5-8:		t between different groups, for instance, farmers and fisheries because fishermen also have cultivable land in the project area and they also produce crops with us. All the decisions									
		villagers together.									
		in operation works is there.									
	Maintenance Work	s committee, 16. Erosion by river flow, 19. Overtopping, 21. Sedimentation									
	Request BWDB t										
		has been being constructed by has been BWDB for last 3/4 years.									
		en by traditional way. The villagers gather in a meeting for an open auction. The seniors are presided over the meeting. They who give lowest price will get the contact. The									
		p-tube well for irrigation.									
	All the structures	(regulator & embankment) are submergible.									
		excavation is very essential to save the sub-project.									
7. Technical											
-	-	ings on O&M works have been provided.									
Q/-2:	-	ings on O&M works have been provided. raining are essential for proper operation and maintenance works.									
07-3		taming are essential to proper operation and maintenance works. aterials and transportation for O&M works have been provided.									
Q7-3: Q7-4:											
		Ity in accessing to the field. It is accessible on foot.									
Q7-6:	25. Sedimentation										
8. Needs for	Future O&M Wor	ks									
Q8-1:		nical training/ manual.									
	• For smooth open										
1	For proper main For smooth func										
08.2		tioning of the organization. phone. I can use my mobile phone if it's necessary to communicate. A certain amount of money (500 Taka per Month) for balance of mobile is needed.									
		prome, i can use my monie prome in is necessary to communicate. A certain annount of money Ovor taxa per Monin for Balance of monie is necesci. ent should be provided. Spade-for canal exavation and embankment repair, Shovel-for removing debris in front of gate. Wrench- for maintenance works, Water leave gauge-									
20-5.		ten should be provided. Space for can a convariant and emparitient repair, shover for removing debits in none of gate, whether for maintenance works, water rave gatego- water level, Grease gate to apply grease									
Q8-4:		financial activity of the government for participating in O&M works. We are not able to bear the total O&M cost due to our poverty. We agree to provide some percentage of									
	O&M cost.										
Q8-5:		nization should be in place. All the beneficiaries will be member of the committee for better functioning of the organization and there will be a core committee to supervise the									
	organization.										
Q8-6:		of members (like women, service holders) should be participated in O&M works. Involvement of women will increase the work capacity of the organization. Service holders can									
		illy for O&M works.									
Q8-7:		excavation is very essential to save the sub-project.									
		ation is also required for drainage and irrigation.									
1		ncient canal which is more wide and deep 1 km away from the regulator. More water can passes through the deep and wide canal. constructed on a new cut canal which bed lewel is bidset than the bed lewel of existing canal. If the regulator was constructed on the existing deep and wide canal, it would be better									
1		constructed on a new cut canal which bed level is higher than the bed level of existing canal. If the regulator was constructed on the existing deep and wide canal, it would be better.									
		,									

Interview Result: Aralia khal Sub-project

Description Description Description Variation Description Description Description Variation Description Description <t< th=""><th></th><th>rmation on Intervi-</th><th>SW Sector Se</th></t<>		rmation on Intervi-	SW Sector Se									
Lanzen Distan Ralagin Upzik Ralagin Ralagin Upzik Ralagin Upzik Ralagin Ralagin Upzik Ralagin												
Name of marview High Take Win Optimization Service of marview Manual Alling Housin East Information of Markation Service of marview Manual Alling Housin East Information of Markation Service of marview Service of marview Fill Communic Communic Marview Manual Alling Housin Service Marview Fill Communic Communic Marview Service Marview Service Marview Fill Communic Communic Marview Service Marview Service Marview Fill Communic Explore Marview Service Marview Service Marview Fill Communic Explore Marview Service Marview Service Marview Service Marview Q1-11 Marview Marview Service Marview Service Marview Service Marview Q2-11 Marview Marview Service Marview Service Marview Service Marview Q2-11 Marview Service Marview Service Marview Service Marview Q2-11 Marview Service Marview Service Marview Service Marview Q2-11 Marview Service Marview Service M												
Points Operator of Roomakin Register Note of environ Mathematic Allergy [Fourth 18 Register and for the state segment 19 Register and for the state segment 10 Register and for the state segment and for the state of the state segment and for the state of the state segment and for the state of the state segment and for the state of the state segment and for the state of the state segment and for the state of the state segment and for the state of the state segment and for the state of the state segment and for the state of the state segment and for the state of the state segment and for the state of the state segment and for the state of the state segment and for the state of the state segment and for the state of the state segment and for the state of the state segment and for the state of the state segment and for the state of the state segment and state and for the state of the state segment and for the state of the state segment and state and for the state of the state segment and for												
Name of unrevene Median Atlangt Housin Explorement in the second s	Organiz	ation	-									
2 Rest Networkson or Make Paper Constrained on Make Paper Constrained on Make Paper Constrained on Make Paper Register												
Subjective Audit Mak Subject Institution Dataset Hadge (pupel Banakase Wage, Stormathan Registre Karget Registre Karget Subject Hadge (pupel Banakase Wage, Stormathan Explore Subject Hadget (pupel Banakase Wage, Stormathan Explore Subject Hadget (pupel Banakase Wage, Stormathan Explore Subject Hadget (Pupel Banakase Wage, Stormathan Explore Other Theorematic Hadget (Pupel Banakase Wage, Stormathan Explorematic Hadget (Pupel Hadget Pupel Hadget (Pupel Hadget												
Lease District Réguit Oparlie Randow Wile Shoromala Réguitar & Reguitar Margan Reguitar Strategie Reguitar Strategi Reguitar Strategi Reguitar Strategie Reguitar Strat												
Big Darr Big Street Stree												
File disbutcher Impli-Im Cost width on, Chen day, - un-Ellin File disbutcher See and the set of the set o												
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Submittable embilishing [Ling] In: Chev With - In: Chev With - In: Chev With 1 III. Cond Submittable experiments in OAM works Submittable experiments Submittable experiments Submittable experiments Submittable Submittable experiments Submittable Sub	Full emb	bankment	Length - km, Crest width - m, Crest elev to - ELm									
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 (D5-6) Yes, the cault is slited up and the farmers don't get sufficient irrigation water from the river. In dry season water level of river goes more than 1m down to the regulator sill level and Low Lift Pump (ILD) is used for irrigation. Cost of cultivation is more due to use of LLP. (D5-7) There is no compliant. (D5-8) There is no compliant. (D5-9) Superific issues in operation works is there. A formal operator is required for sound operation of the regulator. (D5-9) Superific issues in operation works is there. A formal operator is required for sound operation of the regulator. (D5-9) Superific issues in operation works is there. A formal operator is required for sound operation of the regulator. (D6-10) Superific issues in operation works is there. A formal operator is required for sound operation of the regulator. (D6-2) Request BWDB to require (D6-2) Request BWDB to require (D6-2) Superific issues in operation works is there. A formal operator is required hoist rod, 8. Damage of rubber seal, 11. No operation committee, 21. Sedimentation (D6-2) Request BWDB to require (D6-2) Request BWDB to require an apolice case has been filed. No measure has been taken to the above failures due to lack of manprover and budget limitation of BWDB. (D1/2) Californian base by solubility of gate operation. (D6-4) The regulator is non-submergible. (D6-5) Formal accession is required. (D7-1) Alfre the construction of the regulator a simple demonstration was given at the very beginning. After that no guidance' training on O&M works have been provided. (D7-2) It is not enough. (D7-4) It is not enough. (D7-4) It is not enough. (D7-4) It is in offering are essential for proper operation and maintenance works. (D7-4) It is not e												
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 [05:8] There is no conflict between different groups, for instance, farmers and fisherise because fishermen also have cultivable land in the project area and they also produce crops with us. All the decision were also have cultivable land in the project area and they also produce crops with us. All the decision were also have cultivable land in the project area and they also produce crops with us. All the decision were also hyperbolic bases on Ministreamee Works. [6] Issues on Ministreamee Works [6] Issues on Ministreamee Works [7] I. Lack of grease, 3. Damage of gar box, 4. Theft of gar box, 5. Damage of hoist rod, 8. Damage of rubber seal, 11. No operation committee, 21. Sedimentation [7] G-3: In one submergible. [7] G-3: In one submergible. [7] G-4: The regulator is non-submergible. [7] G-5: Canal exavation is required. Gara hos should be repaired. [7] The villagers gather in a meeting for an open auction. The seniors are presided over the meeting. They who give lowest price will get the contact. The contactor has the responsibility of gate operati also. [7] G-5: Canal exavation is required. Gara hos should be repaired. [7] The regulator is non-submergible. [7] The regulator is not submergible. [7] The regulator is not enable regulator a simple demonstration was given at the very beginning. After that no guidance/ trainings on O&M works have been provided. [7] The regulator is not enable regulator has been provided about 20 years ago. [7] There is no difficult in accessing to the field. It is accessible on foot. [7] There is no difficult in accessing to the field. It is accessible on foot. [8] We see net other difficult in accessing to the field. It is accessible on foot.<!--</th--><td>-</td><td>(LLP) is used for i</td><td>irrigation. Cost of cultivation is more due to use of LLP.</td>	-	(LLP) is used for i	irrigation. Cost of cultivation is more due to use of LLP.									
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Q7-6: They have no experience in the inspection of the structure. 8. Needs for Future O&M Works Q8-1: We need technical training manual for smooth operation, for proper maintenance and for smooth functioning of the organization. Q8-2: A mobile phone is require for communicate to the O& M committee as well as BWDB official. A certain amount of money (500 Taka per Month) for balance of mobile is also required. Q8-3: Yes, some equipments should be provided. Spade- for excavation of the 2 km, Shovel- for removing debris in front of gate, Wrench- for maintenance works, Water leave gauge- for observatior water level, Grease gun- to apply grease Q8-4: Yes, we need some financial assistant from the government for participating in O&M works. We are not able to bear the total O&M cost due to our poverty. We agree to provide some percentage O&M cost. If the length of the canal is small and volume of the excavation is less then we will do the excavation work by ourselves. Q8-5: Yes, it viable organization should be in place. All the beneficiaries will be member of the committee for better functioning of the organization and there will be a core committee to supervise the organization. Q8-6: Yes, other types of members (like women, service holders) should be participated in O&M works. Involvement of women will increase the work capacity of the organization. Service holders can contribute financially for O&M works. Q8-6: Yes, other types of members (like women, service holders) should be participated in O&M works. Involvement of government organization. Q8-6: Ye												
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Q8-7: Canal lining and LLP (Low Lift Pump) is required to increase irrigation facilities in the field.												
- open monitoring is necessary non-over b w bb and own animistrative orticans with regulator commutee for smooth functioning the project.	08 7.											
	Q8-7:	Canal lining and L										

1. Basic Info	ormation on Intervi	W .									
	f interview	26.08.2013									
Locatio	n	District: Brahmanbaria Upazila: Bancharampur Village: Mirpur									
	of interviewee	Mukhles Mia									
Organiz		11 No. Salimabad Union Parishad									
Position	n of interviewer	UP Member Muhammad Alamgir Hossain									
	ormation on Sub-pr										
	oject name	Satdona Beel Scheme									
Locatio		Districi: Brannabaria Upazila: Bancharampur Village: Mirpur									
Regulat	or	Reg-2: Mirpur Reg, L 4.27m x W 4.27m, 2vents, Not functioning									
	bankment	Length - km, Crest width - m, Crest elev to - Elm									
Canal	gible embankment	Length - km, Crest width - m, Crest elev to - El.m Nil									
Cunu											
3. Your Pers	sonal Experience in	O&M Works									
Q3-1:	My major income	source is Cultivation. Boro paddy (Irri) is cultivated here once a year.									
		in about 1989. In next year, near the regulator about 100m embankment was washed away due to heavy current and huge pressure of the flood water. Since then it has been unused.									
	Operation of regu										
		s about 200m away from my house and takes 10minutes to reach the regulator site by walking. or site once a week on foot.									
		n site onke a week on root. g to any local community groups.									
		to un locar commany goops. the Mr. Saidur Rahman had any official contract with BWDB.									
		no official contact with BWDB.									
	tatus of Your Orga	ization									
Q4-1:		s no special organization/ committee for O&M works in the sub-project.									
		nittee named Mirpur Sluice Committee formed by Mr. Saidur Rahman, key person of the committee. He gave the responsibility of gate operation for the regulator to Mr. Kasem.									
		ere in that committee. Among them Mr. Kasem was the responsible person for the operation of the regulator.									
Q4-3:		embers is not enough. In, the key person of the committee was very influential person among the local community. He gave the responsibility of gate operation for the regulator to Mr. Kasem.									
Q4-4:	There is no fundir	g source for the organization/ committee.									
04.5		BWDB will take all responsibilities. The organization/ committee did not take any responsibility. We just have the handle.									
	No, the organizati Operation of regu	on/ committee does not receive any O&M cost from BWDB.									
	1.	posibilities. We just have the handle.									
Q4-8:		individual irrigation schemes named Aubul Kashem Irrigation Scheme in the sub-project area. The owner of the irrigation scheme takes paddy the farmers who received water from									
	the irrigation sche										
Q4-9:		ficers do not regularly come to the field for inspection. They come occasionally, like once a year for estimate the O&M allocation. The position of the BWDB officer may be									
0.1.10	Sectional Officer (,									
		ommunicate with BWDB offices. Sometimes they communicate with me over mobile phone.									
	Operation Works	onship with BWDB officials.									
		tion of the regulator a demonstration was given at the very beginning. After one year the regulator was out of order and there was no rule/ technical manual/ standard.									
		ated to prevent entering the early flash flood into the polder at least 15 days so that farmers can harvest their crops.									
		level gauge and they use their experience for gate operation.									
Q5-2:											
		regulator was out of order and no operation was done.									
		regulator was out of order and no operation was done. At present regulator is not operated & gates are open.									
		gulator were closed for the first time. In next year, near the regulator about 100m embankment was washed away due to heavy current and huge pressure of the flood water. nal is silted up. So draining water from polder is slow.									
		and is since up: so training water from poncer is sow.									
		flict between different groups, for instance, farmers and fisheries because gates were closed for only 15 days.									
Q5-9:	No specific issues	in operation works is there. A formal operator is required for sound operation of the regulator.									
	Maintenance Work										
		3. Damage of gear box, 5. Damage of hoist rod, 11. No operation committee, 19. Overtopping, 21. Sedimentation									
	Request BWDB t	o repair een taken to the above failures due to lack of manpower and budget limitation of BWDB.									
		eer taken to the above families due to lack of manpower and budget initiation of BwDB. (regulator & embankment) are submergible.									
Q6-5:		Utguator te ennoamment are submetgure.									
	2 km canal excava										
	Capacities										
Q7-1:		tion of the regulator a demonstration was given at the very beginning. After one year the regulator was out of order.									
07-2:	No guidance/ train It is not enough.	ings on O&M works have been provided									
Q7-2:		raining are essential for proper operation and maintenance works.									
Q7-3:		aming are essential to proper operation and maintenance works. The regulation has been provided 23 years ago.									
	It is insufficient.										
		or gate operation. We have no equipment for small scale maintenance works.									
		Ity in accessing to the field. It is accessible on foot.									
		erience in the inspection of the structure.									
	Future O&M Wor We need technical										
Q0-1.	For operation.										
	For maintenance										
	• For smooth func	tioning of the organization.									
Q8-2:		ne. I can use my mobile phone if it's necessary to communicate with the committee and BWDB. I just need the amount of money (500 Taka per Month) for balance of mobile.									
09.2		sary to increase mobilization for 0.8M works									
Q8-3:		ents should be provided. Spade- for canal excavation and embankment repair, Shovel- for removing debris in front of gate, Wrench- for maintenance works, Water leave gauge- water level, Grease gun- to apply grease									
Q8-4:		water never, or access gains to appry grease of the power									
<u> </u>		length of the canal is small and volume of the execution is less then we will do the execution work by ourselves.									
Q8-5:	Yes, it viable orga	nization should be in place. All the beneficiaries will be member of the committee for better functioning of the organization and there will be a core committee to supervise the									
	organization.										
Q8-6:		f members (like women, service holders) should be participated in O&M works. Involvement of women will increase the work capacity of the organization. Service holders can									
09.7		illy for O&M works.									
Q8-7:	Canal inning and L	LP (Low Lift Pump) is required to increase irrigation facilities in the field.									

Interview Result: Gangajuri Sub-project

1 Deels Infe											
	ormation on Intervi										
	finterview	30.08.2013 District Urbinni Unwiller Urbinni Seder Villem Neuelded									
Locatio		District: Habiganj Up azila: Habiganj Sadar Village: Noy akhal									
	of interviewee	Abu Saleh									
Organiz		Female UP Member									
Position	n	Husband of Female UP Member									
	of interviewer	Muhammad Alamgir Hossain									
	ormation on Sub-pr										
Sub-pro	oject name	Gangajuri Sub-project									
Locatio	n	District: Habiganj Upazila: Habiganj Sadar Village: Shikarpur									
Regulat	or	Reg-1: Shikarpur Reg., L 14.21m x W 22.87m, 7vents, Not functioning									
Full em	ibankment	Length -46 km, Crest width -4.27 m, Crest elev to - El.m									
Submer	gible embankment	Length - km, Crest width - m, Crest elev to - El.m									
Canal		Gangajuri khal, L 4.5 km, Bed Width 2 m, Top Width 40 m.									
Your Pers	sonal Experience in	O&M Works									
Q3-1:	My major income	e source is cultivation. My wife is a member of Union Parishad									
Q3-2:	The regulator was	s constructed about 22 years ago.									
	Mr. Janab Ali wh	to is dead was the operator of the regulator for about 17 years. After that the responsibility is given to me by the chairman as my wife is a member of Tegharia Union Parishad. I have									
	5 years experience	e.									
Q3-3:	Operation of regu	lator									
Q3-4:	Korcha regulator	is about 2.5 km away from my house and takes 40-45 minutes to reach the regulator site by walking.									
Q3-5:	In rainy season I	go to the regulator site at 2 days interval by waking through the field. During heavy rainfall I go to the regulator daily.									
Q3-6:	Yes, I belong to th	he "Noyakhala-Shikarpur village committee." The committee plays a vital role to keep peace and regulation in the village and arrange various religious events. They also arrange the									
	auction for irrigati	ion scheme.									
Q3-7:	I have no official	contract with BWDB.									
4. Current St	tatus of Your Orga										
Q4-1:	There is no specia	al organization/committee at all for O&M works in the sub-project.									
		committee named "Noyakhala-Shikarpur village committee." The village committee does various activities for peace and happiness of the village including arraigning various religious									
		auction for irrigation scheme before cultivation.									
Q4-2:	All the villagers a	re in the organization/ committee. 4-6/village senior citizens control the entire committee. Most of them are farmers.									
		very cooperative among themselves.									
Q4-4:		ng source for O&M activities of the organization/ committee.									
-		naged embankment have been being repaired by BWDB at every year.									
Q4-5:		ion/ committee does not receive any O&M cost from BWDB.									
-	Some parts of dar	naged embankment have been being repaired by BWDB at every year.									
Q4-6:	Operation of regu										
	We just have the l	handle and we operate the gate according to our needs depending on flash flood caused by rainfall.									
-	Some parts of dar	naged embankment have been being repaired by BWDB at every year.									
Q4-8:		soperative societies among the fishermen in the sub-project area to develop their fishery.									
		fficers do not regularly come to the field for inspection. They come here occasionally, like twice a year for estimate the O&M allocation. The position of the BWDB officer may be									
	Sectional Officer										
04-10:		te regularly with BWDB over mobile. Sometimes I visit the BWDB office when I go to district headquarters for other purposes.									
		requiring interpretentiation of the constraints of the constraints of the constraints of the purposes.									
Q		te according to our needs depending on rainfall and water level. We take decision all together.									
с х	fire operate the ge	ace according to our needs depending on name and water roter. We take decision an together.									
	Operation Works										
	Operation Works There is no rule/ t	echnical manual/standard									
	There is no rule/ t	rechnical manual/ standard. ite according to our needs depending on rainfall and water level. We take decision all together.									
Q5-1:	There is no rule/ t We operate the ga	ate according to our needs depending on rainfall and water level. We take decision all together.									
Q5-1: Q5-2:	There is no rule/ t We operate the ga No, We operate th	ate according to our needs depending on rainfall and water level. We take decision all together. he gate according to our needs depending on rainfall and water level. We take decision all together.									
Q5-1: Q5-2:	There is no rule/ t We operate the ga No, We operate th If we follow seaso	ate according to our needs depending on rainfall and water level. We take decision all together. he gate according to our needs depending on rainfall and water level. We take decision all together. onal fixed operating schedule then will be some problems because flash flood does not follow the seasonal fixed operating schedule. We have to operate the regulator according to									
Q5-1: Q5-2:	There is no rule/t We operate the ga No, We operate th If we follow sease rainfall and water	ate according to our needs depending on rainfall and water level. We take decision all together. he gate according to our needs depending on rainfall and water level. We take decision all together. onal fixed operating schedule then will be some problems because flash flood does not follow the seasonal fixed operating schedule. We have to operate the regulator according to level by close monitoring during early flood.									
Q5-1: Q5-2: Q5-3:	There is no rule/ t We operate the ga No, We operate th If we follow sease rainfall and water During heavy rain	ate according to our needs depending on rainfall and water level. We take decision all together. he gate according to our needs depending on rainfall and water level. We take decision all together. onal fixed operating schedule then will be some problems because flash flood does not follow the seasonal fixed operating schedule. We have to operate the regulator according to level by close monitoring during early flood. afall gate is opened to draining the water.									
Q5-1: Q5-2: Q5-3: Q5-4:	There is no rule/t We operate the ga No, We operate the If we follow seaso rainfall and water During heavy rain Gearbox damaged	ate according to our needs depending on rainfall and water level. We take decision all together. he gate according to our needs depending on rainfall and water level. We take decision all together. onal fixed operating schedule then will be some problems because flash flood does not follow the seasonal fixed operating schedule. We have to operate the regulator according to level by close monitoring during early flood. fall gate is opened to draining the water. Gate-1 hoisting rod is damaged.									
Q5-1: Q5-2: Q5-3: Q5-4:	There is no rule/t We operate the ga No, We operate the If we follow seaso rainfall and water During heavy rain Gearbox damaged Yes, small amoun	ate according to our needs depending on rainfall and water level. We take decision all together. he gate according to our needs depending on rainfall and water level. We take decision all together. onal fixed operating schedule then will be some problems because flash flood does not follow the seasonal fixed operating schedule. We have to operate the regulator according to level by close monitoring during early flood. fall gate is opened to draining the water. . Gate-1 hoisting rod is damaged. t of rain water can pass through the regulator because it was constructed on higher land over a new cut canal.									
Q5-1: Q5-2: Q5-3: Q5-4: Q5-5:	There is no rule/t We operate the ga No, We operate the If we follow sease rainfall and water During heavy rain Gearbox damaged Yes, small amoun The canal is also s	ate according to our needs depending on rainfall and water level. We take decision all together. he gate according to our needs depending on rainfall and water level. We take decision all together. onal fixed operating schedule then will be some problems because flash flood does not follow the seasonal fixed operating schedule. We have to operate the regulator according to level by close monitoring during early flood. fall gate is opened to draining the water. . Gate-1 hoisting rod is damaged. to frain water can pass through the regulator because it was constructed on higher land over a new cut canal. silted up and sufficient water cannot pass through the regulator.									
Q5-1: Q5-2: Q5-3: Q5-4:	There is no rule/t We operate the ga No, We operate the If we follow sease rainfall and water During heavy rain Gearbox damaged Yes, small amoun The canal is also s Yes, the canal is a	ate according to our needs depending on rainfall and water level. We take decision all together. he gate according to our needs depending on rainfall and water level. We take decision all together. onal fixed operating schedule then will be some problems because flash flood does not follow the seasonal fixed operating schedule. We have to operate the regulator according to level by close monitoring during early flood. tfall gate is opened to draining the water. I. Gate-1 hoisting rod is damaged. It of rain water can pass through the regulator because it was constructed on higher land over a new cut canal. Silted up and sufficient water cannot pass through the regulator. ilted up and the farmers don't get sufficient irrigation water from the river and sufficient water cannot pass through the regulator.									
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Q5-1: Q5-2: Q5-3: Q5-3: Q5-6: Q5-7: Q5-7: Q5-8: Q5-7: Q5-8: Q5-9: 6. Issues on Q6-1: Q6-2: Q6-3: Q6-3: Q6-3: Q6-3: Q6-3: Q6-3: Q6-4: Q7-4: Q7-2: Q7-3: Q7-4: Q7-2: Q7-3: Q7-4: Q7-2: Q7-3: Q7-4: Q8-1: Q8-1: Q8-1: Q8-3: Q8-3: Q8-4: Q8-5: Q8-6: Q8-6: Q8-6:	There is no rule/t We operate the gy No, We operate the Use operate the gy Gearbox damaged Yes, small and water During heavy rain Gearbox damaged Yes, small amount The canal is also Yes, the canal is also Small amount of r No, We operate the Fishermen cut the No other specific Maintenance Word 3. Damage of gear Request BWDB 1 Cultivation has be Some portion of c Cultivation has be Some portion of c Cultivation has be origiation contact All the structures There is an ancien Canal excavation i There is no difficu S. Damage of gear Future O&M Wor Yes, we need tech No, I have mobile Yes, some equipt for observation of Ves, we need som O&M cost. Yes, it viable orgo organization. Yes, other types contribute financi The existing old c contribute financi	ite according to our needs depending on rainfall and water level. We take decision all together. Item get ascording to our meeds depending on rainfall and water level. We take decision all together. Item of the get ascording to our meeds depending on rainfall and water level. We take decision all together. Item of the get ascording to our meeds depending on rainfall and water level. We take decision all together. Item of the water. Item of the maged. Item of the maged. Item of the maged. Item of the maged for the regulator because it was constructed on higher land over a new cut canal. Silted up and lafficient water cannot pass through the regulator. Silted up and lafficient mater cannot pass through the regulator because it was constructed on higher land over a new cut canal. Item are an pass through the regulator because it was constructed on higher land over a new cut canal. The gate ascording to our meeds depending on rainfall and water level. We take decision all together. Item of the regulator because it was constructed on higher land over a new cut canal. The gate ascording to our meeds depending on rainfall and water level. We take decision all together. Item of the regulator because it was constructed on higher land over a new cut canal. The gate ascording together. Item our meeds depending on rainfall and water level. We take decision all together. Item our meeds depending on rainfall and water level. We take decision all together. Item our meeds depending on rainfall and water level. Item land the decision all together. Item our meeds depending on rainfall and water level. We take decision all together. Item our meeds dependent periaded by BVDB and and bater level. Item our high is negated to lack of manpover and budget limitation of BWDB. Item apped rehakinem take bee howed periaded by BVDB at every year. Item also to item with a decision all together. Item also to item with all decision all together. Item also the above failures together. Item also the tabove failures the									
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Interview Result: Khaliajuri FCD Polder-2

Intervie	w Result: r	Shallajuri FCD Polder-2									
	rmation on Intervie										
	interview	29 Aug. 2013; Time: 09.30 AM to 12.05 PM									
Location		District: Netrokona Upazila: Khaliajuri Village: Shantinagari									
	f interviewee	Md. Razu Miah									
Organiz Position		Shantinagar Sluicce Committee Chairman of the Committee									
	f interviewer	Charlman of the Columnice									
	rmation on Sub-pr										
	ject name	Khaliajuri FCD Polder-2									
Location		District: Netrokona Upazila: Khalajuri									
Regulat	or	Reg-1:Shantinagar Regulator									
		Reg-2:									
	bankment	Length:5.30 km, Crest width:3.0 m, Crest elev. x to x El.m									
	gible embankment	Length: 52.1km, Crest width: 2.96 m, Crest elev. x to x ELm									
Canal		Can-1:Lipsar Canal; Length:2:50 km; Bed width:5.0 m, Top width: 50.0 m									
2 Vous Doso	onal Experience in	Can-2:									
	Agricultural Activ										
	About 16 years										
~		ion of flood management structures, Operation of regulator, Maintenance of embankment, Maintenance of drainage canal, Repair of structures									
		lius (appx.); and it takes about 2/3 hours of walking.									
Q3-5:	Twice in a week; t	travel on foot (in dry season) and by boat (during wet season).									
Q3-6:	No, I do not belor	g to any other organization									
Q3-7:	No, this is an info	rmal relationship. At times BWDB staffs give me something as lump sum; no contractual agreement. I work for them and in lieu thereof I approach for some assistance. Some times									
		e money and some times not.									
	atus of Your Organ										
Q4-1:		luice Committees- one for each regulator to look after the O&M works. hittee was formed in 1997;									
		ittee was formed in 1997; d. Its name is Shaninagar Sluice Committee.									
	•	it, its name is snamager source committee. mittee; there are 05 nos. of - members. All of them are farmers; major income source is agricultural farming.									
~		marcee, there are of nos, or memors. An or memors hardly respond to any call. I have to move alone.									
		with BWDB's silence and not taking necessary action in time.									
		no source of funding. Whatever little expenditure are incurred for O&M of the structure I have to manage fund for all those for from my own. Also at times I try to collect some									
		ffluent farmers/land owners.									
		oney for cost of O&M works from BWDB.									
		ion of flood management structures, Operation of regulator, Maintenance of embankment, Maintenance of drainage canal, Repair of structures									
		to what extent BWDB will do and how much the Sluice Committee will have to take care of.									
		her community group in this polder.									
Q4-9:		ry season (i.e. November to April), Sectional Officer, Sub-divisional Engineer and also Executive Engineer come here to visit. The Superintending Engineer, My mensingh Circle also									
04.10		n a year. Work Assistant visits as and when required. 3WDB staffs come to my place for information and also I send letters to BWDB offices at Modon and Netrokona stating various problems faced in the field.									
		who stans tone to my pace for mormation and also I send acters to Bwho onces a woodon and vertokona stating various proteens faced in the neal. Teer of Netrokona Division Office.									
	Operation Works	Re of Performa Division Office.									
		ork Assistant and Sectional Officer has taught me informally about what to do on gate operation and also for maintenance.									
		ork Assistant and Sectional Officer has taught me informally about what to do on gate operation and also for maintenance. happened.									
Q5-2:	Yes, BWDB's Wo	hap pened.									
Q5-2: Q5-3:	Yes, BWDB's Wo No such situation I did never face an	hap pened.									
Q5-2: Q5-3: Q5-4: Q5-5:	Yes, BWDB's Wo No such situation I did never face an Yes, this was the Yes. As stated abo	happened. y such problems. problem of overtopping the embankment due to sudden on-rush of flood water. It happened 3 times, such as in 2004, 2006 and 2012. ove.									
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Q5-2: Q5-3: Q5-4: Q5-5: Q5-5: Q5-6: Q5-7: Q5-8:	Yes, BWDB's Wo No such situation I did never face an Yes, this was the Yes. As stated ab Simply due to suc Yes, it happened of stop opening of th No. Yes, it happened of	happened. y such problems. problem of overtopping the embankment due to sudden on-rush of flood water. It happened 3 times, such as in 2004, 2006 and 2012. ove. Iden high rise of stages in the river. Iden high rise of stages in the river. Iden high rise of stages on the river. In these I 6 years of operation by me. The gates used to remain closed according to our agricultural needs. One Fisheries Group backed by some influential people wanted to the gates to save their fish products. But I opened the gate instantaneously to save the embankment from breaching. Donce.									
Q5-2: Q5-3: Q5-4: Q5-5: Q5-6: Q5-6: Q5-7: Q5-8:	Yes, BWDB's Wo No such situation I did never face an Yes, this was the Yes. As stated ab Simply due to suc Yes, it happened of stop opening of t No. Yes, it happened of I have stated this	happened. y such problems. problem of overtopping the embankment due to sudden on-rush of flood water. It happened 3 times, such as in 2004, 2006 and 2012. we. liden high rise of stages in the river. noce in these I 6 years of operation by me. The gates used to remain closed according to our agricultural needs. One Fisheries Group backed by some influential people wanted to to gates to save their fish products. But I opened the gate instantaneously to save the embankment from breaching. noce. noce. noce. notes in the set of the same of the									
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Q5-2: Q5-3: Q5-4: Q5-5: Q5-6: Q5-6: Q5-7: Q5-8:	Yes, BWDB's Wc No such situation I did never face an Yes, this was the Yes, as stated abc Simply due to suc Yes, it happened d No. Yes, it happened d I have stated this This is concerning Very difficult to li	happened. y such problems. problem of overtopping the embankment due to sudden on-rush of flood water. It happened 3 times, such as in 2004, 2006 and 2012. we. liden high rise of stages in the river. noce in these I 6 years of operation by me. The gates used to remain closed according to our agricultural needs. One Fisheries Group backed by some influential people wanted to to gates to save their fish products. But I opened the gate instantaneously to save the embankment from breaching. noce. noce. noce. notes in the set of the same of the									
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Q5-2: Q5-3: Q5-4: Q5-5: Q5-6: Q5-6: Q5-7: Q5-8: Q5-9: G. Issues on Q6-1:	Yes, BWDB's Wc No such situation I did never face an Yes, this was the Yes. As stated ab Simply due to suc Yes, it happened of stop opening of th No. Yes, it happened of I have stated this is This is concerning Very difficult to if I strongly draw th Maintenance Work I. Lack of grease,	happened. y such problems. problem of overtopping the embankment due to sudden on-rush of flood water. It happened 3 times, such as in 2004, 2006 and 2012. yee. Iden high rise of stages in the river. Iden high rise of stages rise flat flat flat rise rise of stages rise rise of stages rise flat rise rise rise of rise rise rise of rise rise rise rise rise rise rise rise									
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Q5-2: Q5-3: Q5-4: Q5-6: Q5-6: Q5-6: Q5-8: Q5-9: Q5-9: Q5-9: Q6-1: Q6-2:	Yes, BWDB's Wc No such situation I I did never face and Yes, this was the j Yes. As stated ab Simply due to sud Yes, it happened stop opening of th No. Yes, it happened thave stated this i This is concerning Very difficult to li I strongly draw th Maintenance Work I. Lack of grease, height, 19. Overt Repair by your ov	happened. y such problems. problems. problems. problem of overtopping the embankment due to sudden on-rush of flood water. It happened 3 times, such as in 2004, 2006 and 2012. yee. Uden high rise of stages in the river. protection of peration by me. The gates used to remain closed according to our agricultural needs. One Fisheries Group backed by some influential people wanted to e gates to save their fish products. But I opened the gate instantaneously to save the embankment from breaching. protection of authority to Q5.6 gthe Gate Operation: if the gate manually. It is not possible to operate by one man; at least 02 (two) strong labors are needed and it takes about ¾ hours to complete lifting the gates. e attention of authority to do some thing that may ease this hard laborious job. s 2. Lost or loose of bolt, 3. Damage of gear box, 4. Theft of gear box, 8. Damage of rubber seal, 10. Debris in front of gate, 13. Artificial cut, 17. Wheel truck, 18. Shortage of opping, 21. Sedimentation, 22. Land degradation wn manpower, Purchase any missing parts, Request BWDB to repair									
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Q5-2: Q5-3: Q5-3: Q5-3: Q5-4: Q5-5: Q5-6: Q5-6: Q5-7: Q5-8: Q5-9: Q6-1: Q6-1: Q6-2: Q6-3: Q6-4: Q7-4: Q7-3: Q7-5: Q7-5: Q7-6: Q8-1: Q8-2: Q8-3: Q8-4: Q8-5:	Yes, BWDB's Wc No such situation I did never face an Yes, this was the Yes. As stated ab Simply due to suc Yes, it happened of stop opening of th No. Yes, it happened of I have stated this: This is concerning Very difficult to li I strongly draw th Maintenance Work I. Lack of grease, height, 19. Overt Repair by your ox Only when I beco All structures, em However I face din There should have protect the emban Urges, I received tra Yes, I received tra Yes, I received tra Yes, it eaccssful However another about op King Merice No. We need som Yes, There should However another about op King Yes, it as accessibl We need technical I. Lack of grease, steel structure, I Erosion by river ff This can be taught A communication I want Mobile ph Nes. I think the fo for periodical pair I is not possible I No. I think increase Yes, it should be I	happend. y such problems. problem of overtopping the embankment due to sudden on-rush of flood water. It happened 3 times, such as in 2004, 2006 and 2012. ²⁰⁰⁶ due high rise of stages in the river. ance in these 16 years of operation by mr. The gates used to remain closed according to our agricultural needs. One Fisheries Group backed by some influential people wanted to gate sto save their fish products. But I opened the gate instantaneously to save the embankment from breaching. Ince. in reply to Q5.6 the Gate Operation: fft the gate manually. It is not possible to operate by one man; at least 02 (two) strong labors are needed and it takes about % hours to complete lifting the gates. e attention of authority to do some thing that may case this hand laboritous job. S 2. Lost or boos of bolt. 3. Damage of gate box, 4. Theft of gate box, 8. Damage of rubber seal, 10. Debris in front of gate, 13. Artificial cut, 17. Wheel truck, 18. Shortage of opping. 21. Sedimentation, 22. Land degradation on manpower. Purchase ary missing parts. Request BWDB to repair methelpless, Irrefan from doing any thing. Every thing is not within the reach of mankind-this becomes the consolation. Buildment and canalis in this polder are submergible. I have no idea about the non-submergible ones. Triculties in the maintenance of submergible structures here, rusting and consol are really problematic. ga dong the embankment can be assured (in dy season), then preventive maintenance will be ensured. It will require community sub-groups to take part voluntarily. Particip attributes in the maintenance of submergible structures here, rusting and consol are really problematic. ga dong the embankment can be assured (in dy season), then preventive maintenance will be ensured. It will require community sub-groups to take part voluntarily. gradient works. It was organized by BWDB twice at My mensingh. Training topics included- how to operate, how to maintain and other relevant issues. "things. 2. Lost or loose of bolt, 3. D									

Interview Result: Khaliajuri FCD Polder-4

Date of in	nation on Intervie	W									
		30 Aug. 2013; Time: 10.15 AM to 12.30 PM									
Location		District: Netrokona Upazila: Khaliajuri Village:Pasch Hat									
		Md. Masud Rana									
Organizati		Kumaria Sluicce Committee Chairman of the Committee									
Position Name of it		Charman of the Committee Md. Moniruzzaman P Eng									
	nation on Sub-pro										
Sub-proje		Ject Khaliajuri FCD Polder-4									
Location		District: Netrokona Upazila: Khaliajuri									
Regulator		Reg-1:Kumaria Regulator									
E-B h		Reg 2:									
Full emba		Length: km, Crest width: m, Crest elev. to El.m Length: 47.0 km, Crest width: 2.96 m, Crest elev.: NA El.m									
Canal		Earlier with Canal Length 250 km Clear with 2.70 km Top width: 20.0 m									
		Can-2:Kamalpur Canal; Length:3.00km; Bed width:6.0m, Top width: 18.0m									
	nal Experience in (
	Agricultural farmir	lg									
	About 03 years	an of load monormant structures. On metion of exercises. Maintanance of embediement									
	Regulator: about 1	ion of flood management structures, Operation of regulator, Maintenance of embankment									
-	Water Gauge: sam										
		hin 1.okm radius. It takes normally 2.00 hours to visit all these by walking on foot.									
-	-	w because the regulator has gone out of order for long.									
		ent, other committee members undertake the responsibilities of minor repairing as and when required.									
		e Local Govt. Institute as Chairman; Name: Gazipur Union Council; Purpose: The Union Council looks after the local administration of the Govt.									
	No, I have no such tus of Your Organ	n experiences of doing O&M works individually. I have no official contract with BWDB. nization									
		induction to thas its own Sluice Committee for the O&M works; Kumaria Sluice Committee is responsible for O&M works of Kumaria Regulator and adjoining places. It was formed in 1997.									
		ma na official and the second									
		er committee. They are predominantly farmers; some of them have some subsidiary trading enterprises.									
		are very much cooperative.									
		bers are farmers, they have a common interest of agricultural farming and they take interests in water management issues. To be as no south funds. Whenever we need money to complete any meintenance work for the structure embalyment or for canal we reise it through instantaneous collection from the									
· ·		tee has no such funds. Whenever we need money to complete any maintenance work for the structure, embankment or for canal we raise it through instantaneous collection from the rs and affluent farmers.									
		s and innear names.									
		ion of flood management structures, Operation of regulator, Maintenance of embankment, Repair of structures									
		bout the responsibilities of BWDB- to what extent they will play their roles.									
		all what is possible for us; it is the question of our subsistence/livelihood.									
		ommunity based organizations in the sub-project area. This is a remote place; development efforts become apparent at late. I Officer and Work Assistant from Netrokona and Modon visit here only in the dry season.									
-		To the and work Assistant norm vectors and and wood of visit net only in the dry season. ryb, We inform them only when we face problems in O&M works. ryb, We inform them only when we face problems in O&M works.									
-	-	and approaches us and ask for any information, we provide it verbally and also in writing.									
	No, we have no su										
	peration Works										
		of its own set by the Sluice Committee as a whole for opening and closing of the gates.									
	Surrently for abou No, we did not hav	tt last 3/4 years, the Regulator is lying idle; no operation and hence no question of following the rules.									
	No, we did not na No comments.	ze such situation.									
		ot functioning. So I can simply say - No Comments.									
		failure in preventing the flash flood (during the period when the regulator used to function properly).									
Q5-6: N	No, this situation	did not happen. As long as the regulator was in operation we had no difficulties in entering water inside or draining outside.									
		been any complaint.									
		ation scope exists inside the polder; agriculture is the main business. That is why no such conflict grew here in the past and at present the regulator does not function.									
· ·		win become effective, it an mannealment needs to be rehabilitated first; at the same time sluice Committee should also undergo some reform measures with training and other support									
	o run the business										
If	f the above noted	situation can be achieved, a participatory approach in O&M of the sub-project may be possible.									
2	aintenance Work										
		2. Lost or loose of bolt, 4. Theft of gear box, 8. Damage of rubber seal, 9. Damage of structure, 10. Debris in front of gate, 14. Erosion by rainfall, 16. Erosion by river flow,									
	21. Sedimentation	vn manpower, Request BWDB to repair									
		An manyowd, request or DD or topan mittee fails to undertake measures for restoration of the system due to lack of money and administrative /official support. They become simply helpless.									
		here are of the submergible type. We have no idea of the required maintenance for non- submergible ones.									
		nay be considered:									
		lar patrolling to watch over the infrastructures has no alternative. This needs engaging a special gang of labors from among the community.									
- T	The Committee should be given necessary powers and authority to raise fund for O&M works. The Local Govt. Institutions should have some controlling power over the Sluice Committees.										
7. Technical Ca	apacities										
7. Technical Ca Q7-1: N N	'apacities No guidance /train Nothing else.	nstitutions should have some controlling power over the Sluice Committees.									
7. Technical Ca Q7-1: N N Q7-2: N	'apacities No guidance /train: Nothing else. No, this is not suf	nstitutions should have some controlling power over the Sluice Committees.									
7. Technical Ca Q7-1: N N Q7-2: N B	apacities No guidance /train Nothing else. No, this is not suf 3WDB/Govt. sho	nstitutions should have some controlling power over the Sluice Committees.									
7. Technical Ca Q7-1: N N Q7-2: N B Q7-3: A	apacities No guidance /train Nothing else. No, this is not suf BWDB/Govt. sho As stated earlier, c	nstitutions should have some controlling power over the Sluice Committees. ing was given; BWDB gave only one operating handle for manual operation of the gates and at that time they demonstrated the use of the handle for opening and closing of the gates. Ficient enough; there are many issues involved in O&M of this kind of sub-projects. uld help us to become self reliant, otherwise we can not spend any money for O&M from our end. only one operating handle for manual lifting/closing of the gates.									
7. Technical Ca Q7-1: N Q7-2: N B Q7-3: A Q7-4: N	apacities No guidance /train Nothing else. No, this is not suf 3WDB/Govt. sho As stated earlier, c No. Gate opening	nstitutions should have some controlling power over the Sluice Committees. ing was given; BWDB gave only one operating handle for manual operation of the gates and at that time they demonstrated the use of the handle for opening and closing of the gates. ficient enough; there are many issues involved in O&M of this kind of sub-projects. uld help us to become self reliant, otherwise we can not spend any money for O&M from our end. mly one operating handle for manual lifting/closing of the gates. and closing (manually) is a very laborious job. Lifting of Flap Gate needs 2/4 nos. of men for 4/5 hours									
7. Technical Cz Q7-1: N N Q7-2: N B Q7-3: A Q7-4: N B	apacities No guidance /train Nothing else. No, this is not suf 3WDB/Govt. sho As stated earlier, o No. Gate opening Besides, there are	nstitutions should have some controlling power over the Sluice Committees. ing was given; BWDB gave only one operating handle for manual operation of the gates and at that time they demonstrated the use of the handle for opening and closing of the gates. Ficient enough; there are many issues involved in O&M of this kind of sub-projects. uld help us to become self reliant, otherwise we can not spend any money for O&M from our end. only one operating handle for manual lifting/closing of the gates.									
7. Technical Ca Q7-1: N Q7-2: N Q7-2: A Q7-3: A Q7-4: N B Q7-5: Y T	apacities No guidance /train Nothing else. No, this is not suf BWDB/Govt. sho As stated earlier, c No. Gate opening Besides, there are : Yes, we need more the embankment a	nstitutions should have some controlling power over the Sluice Committees. ing was given; BWDB gave only one operating handle for manual operation of the gates and at that time they demonstrated the use of the handle for opening and closing of the gates. ficient enough; there are many issues involved in O&M of this kind of sub-projects. uld help us to become self reliant, otherwise we can not spend any money for O&M from our end. mly one operating handle for manual lifting/closing of the gates. and closing (manually) is a very laborious job. Lifting of Flap Gate needs 2/4 nos. of men for 4/5 hours also other difficulties that needs took/equipment. e connectivity facilities for easy access to the field. and canal banks alignment should be made clean and free from jungles/bushes at all time.									
7. Technical Cr Q7-1: N N Q7-2: N B Q7-3: A Q7-4: N B Q7-5: Y T Q7-6: I.	apacities No guidance /train Nothing else. No, this is not suff 3WDB/Govt. sho As stated earlier, c No. Gate opening Besides, there are - kes, we need more The embankment a Lack of grease,	nstitutions should have some controlling power over the Sluice Committees. ing was given; BWDB gave only one operating handle for manual operation of the gates and at that time they demonstrated the use of the handle for opening and closing of the gates. Util help us to become self reliant, otherwise we can not spend any money for O&M from our end. only one operating handle for manual lifting/closing of the gates. and closing (manually) is a very laborious job. Lifting of Flap Gate needs 2/4 nos. of men for 4/5 hours also other difficulties that needs tools/equipment. c connectivity facilities for easy access to the field. and canal banks alignment should be made clean and free from jungles/bushes at all time. 2. Lost or loose of bolt, 3. Damage of gar box, 4. Theft of gar box, 5. Damage of hoist rod, 6. Theft of hoist rod, 7. Lost of gate, 8. Damage of rubber seal, 9. Damage of									
7. Technical Ca Q7-1: N N Q7-2: N B Q7-3: A Q7-3: A Q7-4: N B Q7-5: Y T Q7-6: I. st	apacities No guidance /train Vothing else. No, this is not suf WDB/Govt. sho As stated earlier, c No. Gate opening Besides, there are are embankment at Lack of grease, teel structure, 10	nstitutions should have some controlling power over the Sluice Committees. Ing was given; BWDB gave only one operating handle for manual operation of the gates and at that time they demonstrated the use of the handle for opening and closing of the gates. Ficient enough; there are many issues involved in O&M of this kind of sub-projects. Udd help us to become self reliant, otherwise we can not spend any money for O&M from our end. only one operating handle for manual lifting/closing of the gates. and closing (manually) is a very laborious job. Lifting of Flap Gate needs 2/4 nos. of men for 4/5 hours also other difficulties that needs tools/equipment. c onnectivity facilities for easy access to the field. and canal banks alignment should be made clean and free from jungle/bushes at all time. 2. Lost or loose of bolt, 3. Damage of gare box, 4. Theft of gare box, 5. Damage of hoist rod, 6. Theft of hoist rod, 7. Lost of gate, 8. Damage of rubber seal, 9. Damage of O. Crack of concrete, 11. Degradation of concrete, 12. Settlement of structure, 13. Debris in front of gate, 15. Artificial cut, 16. Erosion by rainfall, 17. Erosion by wave, 18.									
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Appendix 7.8 Proposed Manpower of BWDB for O&M Works

Division Office

Division Office				1					_				r		-
	Set-up	Existing	Proposed			Proposed	Set-up	Existing	Proposed	Set-up		Proposed	Set-up	Existing	Propose
Name of Post	1	Netrokon	a	k	Cishorega	nj		Habiganj		Bi	ahmanba	ria		Sunamga	nj
Executive Engineer	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Revenue Officer	0	0		0	0		0	0		1	0		0	0	
Assistant Engineer	1	0	1	1	0	1	1	0	1	0	0	1	1	0	1
Assistant Extension Officer (AEO)	1	0	2	0	0	2	0	0	2	0	0	2	0	0	2
Sub-assistant Engineer/Estimator	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
U.D. Assistant	1	0	1	1	1	1	1	0	1	0	0		1	0	1
Assistant Accountant	1	0	1	0	0	1	1	0	1	0	0		1	0	1
Senior Accounts Assistant	1	1	1	1	0	1	1	0	1	0	0		1	0	1
Accounts Clerk	1	0	1	0	0	1	1	1	1	0	0		1	1	1
Senior Clerk	0	0		0	0		0	0		1	0	1	0	0	
L.D. Assistant cum Typist/DEO	3	1	3	0	0	3	3	1	3	0	0		0	0	
DEO	0	0		1	0		0	0		1	0	1	3	0	3
Revenue Surveyor	1	0	1	1	0	1	1	0	1	0	0	1	1	0	1
DMO	1	0	1	1	0	1	1	0	1	0	0	1	1	0	1
Driver	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
Speed Boat Driver	0	0	1	1	0	1	0	0	1	0	0	1	0	0	1
Tracer	1	0	1	0	0	1	1	0	1	0	0	1	1	0	1
MLSS	4	2	4	2	2	4	4	2	4	2	0	2	4	0	4
Chowkidar (Guard)	1	0	1	2	0	1	1	0	1	1	0	1	1	0	1
Sweeper	0	0		1	0		0	0		0	0		0	0	
Mali (Gardener)	1	0	1	0	0	1	1	0	1	0	0		1	0	1
Total	21	7	23	15	6	23	20	7	23	9	1	15	20	4	23
									-						-
	Netrokona			Kishoreganj			Habiganj			Brahmanbaria			Sunamganj		
Sub-division Office (SDO)									5						
	Set-up	Existing	Proposed	Set-up		Proposed	Set-up	Existing	Proposed	Set-up	Existing	Proposed	Set-up	Existing	Propose
Name of Post	Net	trokona S	DO	Kish	pregani S	DO^{*1}	Ha	biganj-1 S	DO	Na	binagar S	DO	Suna	amganj-1	SDO
Sub-divisional Engineer	1	0	1	1	1	2	1	0	1	1	0	1	1	0	1
LD Assistant cum Typist/DEO	1	1	1	1	0	2	1	1	1	1	0	1	1	1	1
Account Clerk	1	0	1	1	1	2	1	0	1	0	0		1	0	1
Surveyor (Engineering)	1	1	1	1	0	2	1	0	1	1	0	1	1	1	1
Extension Overseers (EO)			22			26			10			4			6
Driver	1	0	1	1	0	2	1	0	1	1	0	1	0	0	
Speed Boat Driver	1	0	1	1	1	2	1	0	1	0	0		1	1	1
MLSS	2	1	2	2	1	4	2	1	2	1	0	1	2	1	2
Pump Operator	1	0	1	0	0		1	1	1	0	0		0	0	
Chowkider (Guard)	1	0	1	1	1	2	1	1	1	1	0	1	1	1	1
Assistant Cook	1	0	1	0	0		1	1	1	0	0		1	0	1
Electrician	0	0		0	0		0	0		0	0	İ	1	0	1
Bearer	1	1	1	1	1	2	1	0	1	0	0		1	0	1
Imam (Religious Leader)	0	0		0	0		1	0	1	0	0	İ	0	0	1
Total	-	4	34	10	6	46	13	5	23	6	0	10	11	5	17
					, ~					~	, v				
Sub-division Office (SDO)	Set-up	Existing	Proposed	Set-up	Existing	Proposed	Set_up	Existing	Proposed	I			Set-up	Existing	Pronose
Name of Post					hairah SI			bigani-2 S						amgani-2	

	Set-up	Existing	Proposed	Set-up	Existing	Proposed	Set-up	Existing	Proposed
Name of Post	Mol	nongang	SDO	Bl	hairab SI	00	Hal	biganj-2 S	SDO
Sub-divisional Engineer	1	1	1	1	1	1	1	1	1
LD Assistant cum Typist	1	1	1	1	0	1	1	0	1
Account Clerk	1	0	1	1	0	1	1	0	1
Surveyor (Engineering)	1	0	1	1	1	1	1	0	1
Extension Overseers (EO)			8			9			13
Driver	1	0	1	1	0	1	1	0	1
Speed Boat Driver	1	0	1	1	0	1	0	0	
MLSS	2	0	2	2	0	2	2	1	2
Pump Operator	0	0		0	0		0	0	
Chowkider (Guard)	1	0	1	1	0	1	1	0	1
Assistant Cook	1	0	1	0	0		0	0	
Electrician	0	0		0	0		0	0	
Bearer	1	0	1	1	0	1	0	0	
Imam (Religious Leader)	0	0		0	0		0	0	0
Tota	1 11	2	19	10	2	19	8	2	21

Set-up	Existing	Proposed
Suna	mganj-2	SDO
1	0	1
1	0	1
1	0	1
1	0	1
		8
0	0	
1	1	1
2	1	2
0	0	
1	1	1
0	0	
0	0	
0	0	
0	0	
8	3	16

Section Office (SO)

	[Set-up	Existing	Proposed	Set-up	Existing	Proposed	Set-up	Existing	Proposed	Set-up	Existing	Proposed	Set-up	Existing	Proposed
Name of Post		5 se	ction off	ices	5 + new	3 section	n offices	6 se	ection off	ices	3 se	ection off	ices	6 se	ection off	ices
Sub-assistant Engineer/ S.O.		5	4	5	5	5	8	6	4	6	3	0	3	6	6	6
Work Assistant		10	5	10	10	3	16	8	5	8	3	0	3	12	4	12
MLSS		5	1	5	5	1	8	6	0	6	3	0	3	6	0	6
Т	otal	20	10	20	20	9	32	20	9	20	9	0	9	24	10	24

Source: JICA Survey Team based on discussion with BWDB

Note: *1 The existing Kishoreganj sub-division office will be devided into 2 offices. The numbers of manpower show the total for 2 offices.

Appendixes 8.1 to 8.5

<Appendix 8.1 :Environmental Clearance Process in DoE >

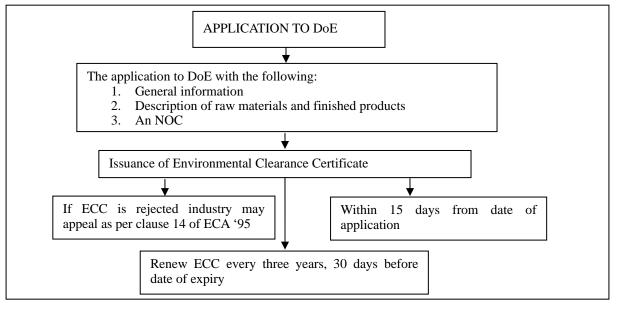


Figure A.8.1 Process in the Green category

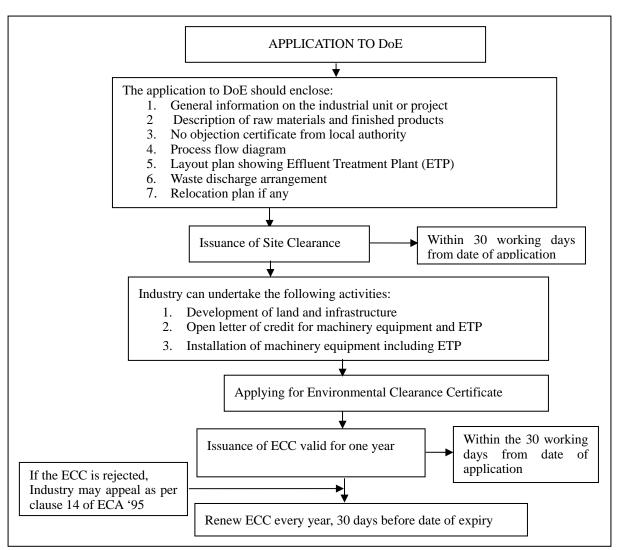


Figure A.8.2 Process in the Orange A category

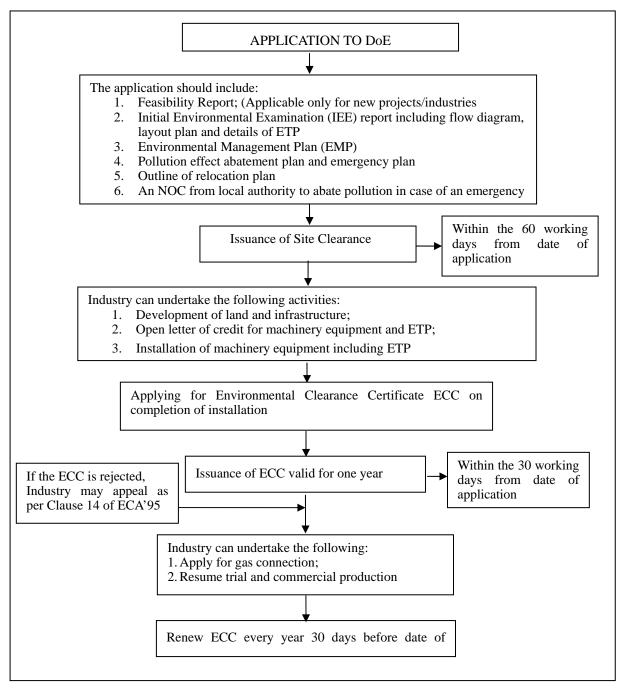


Figure A.8.3 Process in the Orange B category

<Appendix 8.2 Tentative Categorization in ECR 1997> Table-A.8.1 Tentative Categorization in ECR 1997 for Rehabilitation Subprojects by BWDB (Component 1)

(0)	omponent I)					
No.	Name of Project	Location	Component	Category in BD.	Description of categorization	Remarks
R-1	Dampara Water Management Scheme	Netrakona district Upazila : Purbodhola	Resection of Embankment=200m(Full), 460m (Submergible) Replacement of Gearbox=4nos. Replacement of Rubber Seal = 3nos. Re-excavation of Canal=12km (Kalihor Khal) Pipe cleaning=3locations Sluice gate (0.6mx0.6m)=23nos. Maintenance equipments = 1no.	Red	The project includes reconstruction activities as resectioning of 200m of full and 460m of submergible embankments which categorized in 66. Construction/reconstruction /expansion of flood control embankment, polder, dike, etc. in ECR1997. The resectioning work does not require any additional land.	IEE is required for the other cases in rehabilitation.
R-2	Kangsa River Scheme	Netrakona district Upazila: Netrokona Sadar, Purbodhola	Resection of Embankment=40m(Full) Fully replacement of Gate with related mechanical equipments=1no. Replacement of Gearbox=10nos. Replacement of rubber seal=1no. Maintenance equipments = 1no.	Red	The project includes reconstruction activities as resectioning of 40m of full embankments which categorized in 66. Construction/reconstruction /expansion of flood control embankment, polder, dike, etc. in ECR1997. The resectioning work does not require any additional land.	The resectioning work does not require any additional land
R-3	Singer Beel Scheme	Netrakona district Upazila: Barhatta	Resection of Embankment=100m(Full),125m (Submergible) Replacement of Gearbox=2nos. Re-excavation of Canal=2km (1km+1km) Installation of Sluice Gate (1.5mx1.8m)=1no. Pipe cleaning=2locations	Red	The project includes reconstruction activities as resectioning of 100m of full and 125m of submergible embankments which categorized in 66. Construction/reconstruction /expansion of flood control embankment, polder, dike, etc. in ECR1997. The resectioning work does not require any additional land.	The resectioning work does not require any additional land.
R-4	Baraikhali Khal Scheme	Kishoreganj district Upazila: Hossainpur, Kishoreganj Sadar Mymensingh district Upazala: Nandail	Resection of Embankment=10m(Full) Re-excavation of Canal=24.5km Installation of flap gate (0.5m x 0.5m)=2nos. Pipe cleaning=2locations Maintenance equipments = 1no.	Red	The project includes reconstruction activities as resectioning of 10m of full embankments which categorized in 66. Construction/reconstruction /expansion of flood control embankment, polder, dike, etc. in ECR1997. The resectioning work does not require any additional land.	The resectioning work does not require any additional land.
R-5	Alalia-Bahadi a Scheme	Kishoreganj district Upazila: Katiadi, Pakundia	Re-excavation of Canal=8km (5km+3km)	N/A	No any activities listed in ECR1997.	

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No.	Name of Project	Location	Component	Category in BD.	Description of categorization	Remarks
R-6	Modkhola Bhairagirchar sub-project Scheme	Kishoreganj district Upazila: Pakundia, Katiadi	Resection of Embankment=50m(Full)	Red	The project includes reconstruction activities as resectioning of 50m of full embankments which categorized in 66. Construction/reconstruction /expansion of flood control embankment, polder, dike, etc. in ECR1997. The resectioning work does not require any additional land.	New land may be required. The resectioning work does not require any additional land.
R-7	Ganakkhalli Sub-scheme	Kishoreganj district Upazila: Kuliarchar	Fully replacement of Gate (1.5mx1.8m) with related mechanical equipments=3nos. Maintenance equipments = 1no.	N/A	No any activities listed in ECR1997.	
R-8	Kairdhala Ratna Scheme	Habiganj district	Resection of Embankment=60m(Submergible) Replacement of Gearbox=5nos. Replacement of rubber seal=1no. Maintenance equipments = 1no.	Red	The project includes reconstruction activities as resectioning of 60m of submergible embankment which categorized in 66. Construction/reconstruction /expansion of flood control embankment, polder, dike, etc. in ECR1997. The resectioning work does not require any additional land.	The resectioning work does not require any additional land.
R-9	Bahira River Scheme	Habiganj district Upazila: Ajmiriganj, Baniachong	Resection of Embankment=6,000m(Submergib le) Installation of Gate (1.5mx1.8m) with related mechanical equipments=4nos. Re-excavation of Canal=20km Maintenance equipments = 1no.	Red	The project includes reconstruction activities as resectioning of 6,000m of submergible embankment which categorized in 66. Construction/reconstruction /expansion of flood control embankment, polder, dike, etc. in ECR1997. The resectioning work does not require any additional land.	The resectioning work does not require any additional land.
R-10	Aralia Khal Scheme	Habiganj district Upazila: Baniachong	Reinstallation of Gearbox=4nos. Re-excavation of Canal=2.4km Maintenance equipments = 1no.	N/A	No any activities listed in ECR1997.	To be confirmed DoE
R-11	Chandal Beel Scheme	Brammanbari a district Upazila: Bancharampu r	Resection of Embankment=100m(Full) Fully replacement of Gate with related mechanical equipments=2nos. Re-excavation of Canal=1.5km Maintenance equipments = 1no.	Red	The project includes reconstruction activities as resectioning of 100m of full embankment which categorized in 66. Construction/reconstruction /expansion of flood control embankment, polder, dike, etc. in ECR1997. The resectioning work does not require any additional land.	The resectioning work does not require any additional land.

No.	Name of Project	Location	Component	Category in BD.	Description of categorization	Remarks
R-12	Satdona Beel Scheme	Brammanbari a district Upazila: Bancharampu r	Installation of Stoplogs =2sets Fully replacement of Gate with related mechanical equipments=2nos. Maintenance equipments = 1no.	N/A	No any activities listed in ECR1997.	To be confirmed DoE
R-13	Gangajuri FCD sub-project	Habiganj district Upazila: Bahubol,Bani achong& Sadar	Embankment =600m (Full)Replacement of Gearbox=19nos.Replacement of hoist rod = 1no.Re-excavation of canal =4.5km	Red	The project embankment includes reconstruction activities as 600m of full embankment which categorized in 66. Construction/reconstruction /expansion of flood control embankment, polder, dike, etc. in ECR1997. The resectioning work does not require any additional land.	The project only for rehabilitation and not involves new land acquisition.
R-14	Kaliajuri polder #02 scheme	Netrakona district Upazila: Kaliajuri	Embankment = 810m (Submergible) Replacement of Gearbox =19nos	Red	The project embankment includes reconstruction activities as 810m of submergible embankment which categorized in 66. Construction/reconstruction /expansion of flood control embankment, polder, dike, etc. in ECR1997. The resectioning work does not require any additional land.	The project only for rehabilitation and not involves new land acquisition.
R-15	Kaliakjuri polder #04 scheme	Netrakona district Upazila: Kaliajuri	Embankment = 630m (Submergible) Fully replacement of Gate with related mechanical equipments=2nos. Replacement of Gearbox=1no.	Red	The project embankment includes reconstruction activities as 630m of submergible embankment which categorized in 66. Construction/reconstruction /expansion of flood control embankment, polder, dike, etc. in ECR1997. The resectioning work does not require any additional land.	The project only for rehabilitation and not involves new land acquisition.

Note: Screening of Category in Bangladesh is conducted by the survey team tentatively referring the ECR 1997. All project are subject to the categorization by DoE.

Table A.8.2 Tentative Categorization in ECR 1997 for New Submergible EmbankmentSubprojects by BWDB (Component 1)

	Subprojects by BWDB (Component 1) Name of Location Component 1									
No.	Project	Location	Component	in BD.	categorization	Remarks				
N-1	Boro Haor Project (Nikli)	Kishorganj district Upazila: Karimganj, Katiadi, Kishoreganj Sadar, Nikli	Embankment (Submergible) =10.3km Re-excavation of canal = 10km 9-vent Regulator = 2nos. 3-vent Regulator = 1no.	Red	The project includes construction activities of 10.3km of submergible embankments which categorized in 66. Construction/reconstruction /expansion of flood control embankment, polder, dike, etc. in ECR1997.	New land may be required.				
N-2	Naogaon Haor Project	Kishorganj district Upazila: Itna, Karimganj, Mithamain, Nikli	Embankment (Submergible) =31.2km Re-excavation of canal = 20km 9-vent Regulator = 2nos. 8-vent Regulator = 1no. 4-vent Regulator = 1no.	Red	The project includes construction activities of 31.2km of submergible embankments which categorized in 66. Construction/reconstruction /expansion of flood control embankment, polder, dike, etc. in ECR1997.	New land may be required.				
N-3	Jaliar Haor Project	Sunamganj district Upazila: Chhatak	Embankment (Submergible) =12.4km Re-excavation of canal = 8km 2-vent Regulator = 1no. 2-vent Regulator = 1no.	Red	The project includes construction activities of 12.4km of submergible embankments which categorized in 66. Construction/reconstruction /expansion of flood control embankment, polder, dike, etc. in ECR1997.	New land may be required.				
N-4	Dharmapasha Rui Beel Project	Sunamganj district Upazila: Dharampasha Netrokona district Upazila: Barhatta, Kalmakanda, Mohanganj Thana	Embankment (Submergible) =54.3km Re-excavation of canal = 5km 9-vent Regulator = 3nos. 8-vent Regulator = 2nos. 6-vent Regulator = 1no. 3-vent Regulator = 1no.	Red	The project includes construction activities of 54.3km of submergible embankments which categorized in 66. Construction/reconstruction /expansion of flood control embankment, polder, dike, etc. in ECR1997.	New land may be required.				
N-5	Chandpur Haor Project	Kishorganj district Upazila: Katiadi, Nikli	Embankment (Submergible) =2.2km Re-excavation of canal = 5km 4-vent Regulator = 1no. 1-vent Regulator = 1no.	Red	The project includes construction activities of 2.2km of submergible embankments which categorized in 66. Construction/reconstruction /expansion of flood control embankment, polder, dike, etc. in ECR1997.	New land may be required.				
N-6	Suniar Haor Project	Kishorganj district Upazila: Tarail Netrokona district Upazila: Kendua	Embankment (Submergible) =15.4km Re-excavation of canal = 25km 4-vent Regulator = 1no. 1-vent Regulator = 1no.	Red	The project includes construction activities of 15.4km of submergible embankments which categorized in 66. Construction/reconstruction /expansion of flood control embankment, polder, dike, etc. in ECR1997.	New land may be required.				

No.	Name of Project	Location	Component	Category in BD.	Description of categorization	Remarks
N-7	Badla Haor Project	Kishoreganj district Upazila: Itna, Karimganj, Tarail	Embankment (Submergible) =9.7km Re-excavation of canal = 2km 2-vent Regulator = 2nos.	Red	The project includes construction activities of 9.7km of submergible embankments which categorized in 66. Construction/reconstruction /expansion of flood control embankment, polder, dike, etc. in ECR1997.	New land may be required.
N-8	Nunnir Haor Project	Kishorganj district Upazila: Bajitpur, Kariadi, Nikli	Embankment (Submergible) =23.2km Re-excavation of canal = 20km 5-vent Regulator = 1no. 2-vent Regulator = 2nos.	Red	The project includes construction activities of 23.2km of submergible embankments which categorized in 66. Construction/reconstruction /expansion of flood control embankment, polder, dike, etc. in ECR1997.	New land may be required.
N-9	Dakhshiner Haor Project	Kishorganj district Upazila: Ajmirganj, Itna, Mithamain	Embankment (Submergible) =16.8km Re-excavation of canal = 10km 6-vent Regulator = 1no. 3-vent Regulator = 1no.	Red	The project includes construction activities of 16.8km of submergible embankments which categorized in 66. Construction/reconstruction /expansion of flood control embankment, polder, dike, etc. in ECR1997.	New land may be required.
N-10	Chatal Haor Project	Kishorganj district Upazila: Tarail, Itna, Madan	Embankment (Submergible) =5.8km Re-excavation of canal = 11km 1-vent Regulator = 2nos.	Red	The project includes construction activities of 5.8km of submergible embankments which categorized in 66. Construction/reconstruction /expansion of flood control embankment, polder, dike, etc. in ECR1997.	New land may be required.
N-11	Ganesh Haor Project	Netrokona district Upazila: Madan, Atpara	Embankment (Submergible) =19.4km Re-excavation of canal = 3km 3-vent Regulator = 1no. 2-vent Regulator = 1no.	Red	The project includes construction activities of 19.4km of submergible embankments which categorized in 66. Construction/reconstruction /expansion of flood control embankment, polder, dike, etc. in ECR1997.	New land may be required.
N-12	Dhakua Haor Project	Sunamganj district Upazila: Dakshin, Sunamganj, Jamalganj, Sunamganj Sadar	Embankment (Submergible) =32.9km Re-excavation of canal = 30km 5-vent Regulator = 1no. 3-vent Regulator = 1no. 1-vent Regulator = 1no.	Red	The project includes construction activities of 32.9km of submergible embankments which categorized in 66. Construction/reconstruction /expansion of flood control embankment, polder, dike, etc. in ECR1997.	New land may be required.

No.	Name of Project	Location	Component	Category in BD.	Description of categorization	Remarks
N-13	Mokhar Haor Project	Habiganj Sadar,	Embankment (Submergible) =28.4km Re-excavation of canal = 110km 5-vent Regulator = 1no. 4-vent Regulator = 2nos. 3-vent Regulator = 2nos.	Red	The project includes construction activities of 28.4km of submergible embankments which categorized in 66. Construction/reconstruction /expansion of flood control embankment, polder, dike, etc. in ECR1997.	New land may be required.
N-14	Noapara Haor Project	Kishorganj district Upazila: Austagram, Karimganj, Nikli	Embankment (Submergible) =23.3km Re-excavation of canal = 7km 3-vent Regulator = 1no. 2-vent Regulator = 1no. 1-vent Regulator = 1no.	Red	C	New land may be required.

Note: Screening of Category in Bangladesh is conducted by the survey team tentatively referring the ECR 1997. All project are subject to the categorization by DoE.

Table .	Table A.8.3 Tentative Categorization in ECR 1997 for Component 2 subprojects in the								
Rehabilitation haor area(Tentative)									
				<i>a</i> .					

No.	Name of Project site	Location	Component	Categor y in BD.	Description of works	Remark s
R-1	Dampara Water Management Scheme	Netrakona district Upazila : Purbodhola	Road improvement (2 Union Road : 9.36km, and 2 Village Road : 6.20km):4 nos = 15.56km Bridge: 1=60meter Hat construction: 2 locations Ghat: New construction: 3 locations	OrangeB	Approx.15km of the road improvement with bridges which are less than 100m and it can be categorized as; 63. Construction, re-construction and extension of road (feeder road, local road). And 64. Construction, re-construction and extension of bridge (length below 100 meters).	
R-2	Kangsa River Scheme	Netrakona district Upazila: Netrokona Sadar, Purbodhola	Road improvement(1 Village Road: 3.0km): 1=3.0km Hat/Bazar: Village Bazar improvement: 1no Ghat: Improvement of Jaria ghat: 1no	OrangeB	Approx. 3km of local road improvement and it can be categorized; 63. Construction, re-construction and extension of road (feeder road, local road).	
R-3	Singer Beel Scheme	Netrakona district Upazila: Barhatta	No any activities	N/A	-	
R-4	Baraikhali Khal Scheme	Kishoreganj district Upazila: Hossainpur, Kishoreganj Sadar Mymensingh district Upazala: Nandail	Road improvement(2 Village Roads: 9.53km, 4 Union Roads: 13.53km): 6no=23.06km Hat/Bazar: Village bazaar improvement: 3no Ghat: Bazar ghat improvement: 2no	OrangeB	Approx. 23km of local road improvement and it can be categorized; 63. Construction, re-construction and extension of road (feeder road, local road).	

					Appendix 8.2
R-5	Alalia-Bahadia Scheme	Kishoreganj district Upazila: Katiadi, Pakundia	Road improvement(3 Union Roads : 30.20km): 3no=30.20km Hat/Bazar: Village bazaar improvement: 1no	OrangeB	Approx. 30km of local road improvement and it can be categorized as: 63. Construction, re-construction and extension of road (feeder road, local road).
R-6	Modkhola Bhairagirchar sub-project Scheme	Kishoreganj district Upazila: Pakundia, Katiadi	Road improvement(1Union Road: 2.1km): 1no: 2.10km	OrangeB	Approx. 2 km of localroad improvement and itcan be categorized as:63. Construction,re-construction andextension of road (feederroad, local road).
R-7	Ganakkhalli Sub-scheme	Kishoreganj district Upazila: Kuliarchar	Road improvement(1 Union Road: 4.97km): 1no=4.97km Ghat: Improvement of Kacharighat: 1no	OrangeB	Approx. 5 km of localroad improvement and itcan be categorized as:63. Construction,re-construction andextension of road (feederroad, local road).
R-8	Kairdhala Ratna Scheme	Habiganj district Upazila: Ajmiriganj, Baniachong	Road improvement(3 Upazila Road: 20.9km , 1 Union Road: 8.45km, 10Village Road: 30.6km): 14no=60.0km Ghat: Improvement of Boalia ghat: 1no Hat/Bbazaar: Imrovement of Bbadhalpur Bazar: 1no Culvert: Improvement: 12no=123.2meter Bridge: Improvement: 2no=70meter	OrangeB	Approx. 60km of local road improvement and it can be categorized as: 63. Construction, re-construction and extension of road (feeder road, local road).
R-9	Bahira River Scheme	Habiganj district Upazila: Ajmiriganj, Baniachong	Road improvement(1 Union Road: 5.38km, 4 Village Road: 8.9km): 5no=14.28km Culvert: Improvement: 4no=18.5meter Bridge: Improvement: 1no=55meter Ghat: Improvement: 2no Hat Bazar: Village Bazar improvement: 2no	OrangeB	Approx. 14 km of local road improvement with55m of bridges and it can be categorized as:63. Construction, re-construction and extension of road (feeder road, local road). And64. Construction, re-construction and extension of bridge (length below 100 meters).
R-10	Aralia Khal Scheme	Habiganj district Upazila: Baniachong	Road improvement(1 Union Road: 3.0km): 1no=3km Bridge: Improvement: 1no=100meter Culvert: Improvement: 1no=30meter Ghat: Improvement of Sujatpur bazaar ghat: 1no Hat Bazar: Improvement of Sujatpur bazaar: 1no	OrangeB	Approx. 3 km of localroad improvement with100m of total bridgelengths (less than 100meach) and it can becategorized as:63. Construction,re-construction andextension of road (feederroad, local road).64. Construction,re-construction andextension of bridge (lengthbelow 100 meters).

R-11	Chandal Beel Scheme	Brammanbaria district Upazila: Bancharampur	No any activities	N/A	
R-12	Satdona Beel Scheme	Brammanbaria district Upazila: Bancharampur	No any activities	N/A	
R-13	Gangajuri FCD sub-project	Habiganj district Upazila: Bahubol,Baniachon g& Sadar	Road improvement (1 Upazila Road:7.02km, 2 Union Road : 11.9km & 7 Village Roads: : 28.13km): 10no=47.05km Bridge: Improvement: 3no=70meter Culvert: Improvement: 8no=260meter Hat bazar: Improvement of Bazar: 4 no Ghat: Bazar ghat improvement: 2no	OrangeB	Approx. 74 km of local road improvement with 61m of total bridge lengths (less than 100m each) and it can be categorized as: 63. Construction, re-construction and extension of road (feeder road, local road). 64. Construction, re-construction and extension of bridge (length below 100 meters).
R-14	Kaliajuri polder #02 scheme	Netrakona district Upazila: Kaliajuri	Hat/Bazar: Improvement: 2no Ghat: Improvement of Bazar ghat: 3no	N/A	
R-15	Kaliakjuri polder #04 scheme	Netrakona district Upazila: Kaliajuri	Road improvement(3 Union Road : 31.64km & 1 Village Road: 5.0km): 4no=36.64km Bridge: Improvement: 3no=464meter Culvert: Improvement: 3no=42meter Hat/Bazar: Improvement: 2no	OrangeB	Approx. 37 km of local road improvement with 464 m of total bridge lengths (less than 100m each) and it can be categorized as: 63. Construction, re-construction and extension of road (feeder road, local road). 64. Construction, re-construction and extension of bridge (length below 100 meters).

Note: Screening of Category in Bangladesh is conducted by the survey team tentatively referring the ECR 1997. All projects are subject to the categorization by DoE.

Table A.8.4 Tentative Categorization in ECF	R 1997 for Component 2 subprojects in the new
construction haor area	

No.	Name of Project	Location	Component	Category in BD.	Description of works	Remarks
N-1	Boro Haor Project (Nikli)	Kishorganj district Upazila: Karimganj, Katiadi, Kishoreganj Sadar, Nikli	Road improvement (1 Union Road:2.61km, 1Village Road: 2.0km) : 2no=4.61km Hat/bazaar (2Rural Markets and 1 Growth Center) : 3no Ghat: New construction: 3no	OrangeB	Approx. 5 km of local road improvement and it can be categorized as: 63. Construction, re-construction and extension of road (feeder road, local road).	

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N-2	Naogaon Haor Project	Kishorganj district Upazila: Itna, Karimganj, Mithamain, Nikli	Road improvement (1 Upazila Road: 10.0km ,1Union Road: 9.59km, 1Village Road: 3.0km): 3no=22.59km Ghat: New construction: 1no Hat/bazaar(New village market construction):1no	OrangeB	Approx. 23 km of local road improvement and it can be categorized as: 63. Construction, re-construction and extension of road (feeder road, local road).
N-3	Jaliar Haor Project	Sunamganj district Upazila: Chhatak	No any activities	N/A	-
N-4	Dharmapasha Rui Beel Project	Sunamganj district Upazila: Dharampasha Netrokona district Upazila: Barhatta, Kalmakanda, Mohanganj Thana	Road improvement (1 Upazila Road: 17.46km ,1Union Road: 8.00km): 2no=25.46km Culvert :New construction: 2no=150meter Hat/bazaar(New village market construction):1no	OrangeB	Approx. 25 km of local road improvement and it can be categorized as: 63. Construction, re-construction and extension of road (feeder road, local road).
N-5	Chandpur Haor Project	Kishorganj district Upazila: Katiadi, Nikli	Road improvement(1 Upazila Road: 6.24 km , 1Union Road: 6.47km, 1 Village Road: 4.39km): 3no=17.10km Bridge: New construction: 1no=10meter Culvert: New construction: 1no=10meter Growth C/ Chandrapur:1	OrangeB	Approx. 22 km of local road improvement with 8 m of total bridge lengths and it can be categorized as:63. Construction, re-construction and extension of road (feeder road, local road).64. Construction, re-construction and extension of bridge (length below 100 meters).
N-6	Suniar Haor Project	Kishorganj district Upazila: Tarail Netrokona district Upazila: Kendua	Road improvement (1 Upazila Road: 10.20km , 3Union Road: 24.21km) : 4no=34.21km Market: New Bazar construction: 1no	OrangeB	Approx. 36 km of local road improvement and it can be categorized as: 63. Construction, re-construction and extension of road (feeder road, local road).
N-7	Badla Haor Project	Kishoreganj district Upazila: Itna, Karimganj, Tarail	Road improvement (2Union Road: 6.54km, 1Village Road: 3.0km) : 3no=9.54km Ghat: New construction: 1no=Bashikura bazaar ghat	OrangeB	Approx. 10 km of localroad improvement and itcan be categorized as:63. Construction,re-construction andextension of road (feederroad, local road).
N-8	Nunnir Haor Project	Kishorganj district Upazila: Bajitpur, Kariadi, Nikli	Road improvement (1Union Road: 7.06km, 1Village Road: 0.64km): : 2no=7.70km	OrangeB	Approx. 8 km of local road improvement and it can be categorized as: 63. Construction, re-construction and extension of road (feeder road, local road).
N-9	Dakhshiner Haor Project	Kishorganj district Upazila: Ajmirganj, Itna, Mithamain	Road improvement(2Upazila Road: 26.27km):: 2no=26.27km Hat:New Bazar construction: 1no	OrangeB	Approx. 26 km of local road improvement and it can be categorized as: 63. Construction, re-construction and extension of road (feeder road, local road).

N-10	Chatal Haor Project	Kishorganj district Upazila: Tarail, Itna, Madan	NA	N/A				
N-11	Ganesh Haor Project	Netrokona district Upazila: Madan, Atpara	Road improvement (3Village Road: 5.25km): 3no=5.25km	OrangeB	Approx. 5 km of local road improvement and it can be categorized as: 63. Construction, re-construction and extension of road (feeder road, local road).			
N-12	Dhakua Haor Project	Sunamganj district Upazila: Dakshin, Sunamganj, Jamalganj, Sunamganj Sadar	Road improvement(3 Upazila Road: 23.58 km, 1Union Road: 7.7 km, 8 Village Road: 23.35km): 12no=54.63km Culvert: New construction: 7no=140meter Bridge: New construction: 3no=230meter Hat: Growth center: New construction: 1no Ghat: New Bazar ghat construction: 3no	OrangeB	Approx. 71 km of local road improvement with 390 m of total bridge lengths (less than 100m each) and it can be categorized as: 63. Construction, re-construction and extension of road (feeder road, local road). 64. Construction, re-construction and extension of bridge (length below 100 meters).			
N-13	Mokhar Haor Project	Habiganj district Upazila: Habiganj Sadar, Baniachanpur, Ajmirganj	Road improvement(1Village Road: 3.00km): 1no=3.00km Culvert: New construction: 1no= 10meter	OrangeB	Approx. 3 km of local road improvement and it can be categorized as: 63. Construction, re-construction and extension of road (feeder road, local road).			
N-14	Noapara Haor Project	Kishorganj district Upazila: Austagram, Karimganj, Nikli	No any activities	N/A	-			

Note: Screening of Category in Bangladesh is conducted by the survey team tentatively referring the ECR 1997. All projects are subject to the categorization by DoE.

<Appendix 8.3 Tentative Environmental Checklist > Table A.8.5 Tentative Environmental Checklist Related to Environmental Consideration for Component 1

-		Component 1	1	
Category	Environmental Item	Main Check Items	Yes: Y No : N	Confirmation of Environmental Considerations (Reasons, Mitigation Measures)
1 Permits	(1) EIA and Environmental Permits	 (a) Have EIA reports been already prepared in official process? (b) Have EIA reports been approved by authorities of the host country's government? (c) Have EIA reports been unconditionally approved? If conditions are imposed on the approval of EIA reports, are the conditions satisfied? (d) In addition to the above approvals, have other required environmental permits been obtained from the appropriate regulatory authorities of the host country's government? 	(a) N (b) N (c) N (d) Y	 (a) Official process should be conducted by implementing agencies after the JICA survey. Preliminary study is ongoing under the survey. (b) -same- (c) -same- (d) Related to EIA process, the proponent should obtained "certificate of no objection for the project" from local government.
and Explanation	(2) Explanation to the Local Stakeholders	 (a) Have contents of the project and the potential impacts been adequately explained to the Local stakeholders based on appropriate procedures, including information disclosure? Is understanding obtained from the Local stakeholders? (b) Have the comment from the stakeholders (such as local residents) been reflected to the project design? 	(a) Y (b) Y	 (a) At the process in Haor Master Plan, range of the stake holder meeting were held. And 2 public consultation meeting at haor level are under implementation in the JICA preparatory survey. (b) The Master Plan was prepared in participatory way consulting local residents. Also, result of the PCM in the JICA preparatory survey will be shared among the implementation agencies.
	(3) Examination of Alternatives	(a) Have alternative plans of the project been examined with social and environmental considerations?	(a) Y	(a) With/Without project are compared.
	(1) Water Quality	(a) Is there a possibility that changes in river flow downstream (mainly water level drawdown) due to the project will cause areas that do not comply with the country's ambient water quality standards?	(a) N	(a) At the subproject selection process in the data collection survey, the water flow was studied and it does not affect the water flow in the area.
2 Pollution Control	(2) Wastes	(a) In the case of that large volumes of excavated/dredged materials are generated, are the excavated/dredged materials properly treated and disposed of in accordance with the country's standards?	(a) Y	(a) The detail plan is not available at the moment. But the soil excavation/spoiled material treatment should be conducted proper way not causing serious erosion.
	(3) Subsidence	(a) Is there a possibility that the excavation of waterways will cause groundwater level drawdown or subsidence? Are adequate measures taken, if necessary?	(a) N	(a) The excavation will be only existing water way to remove sediment from the upper stream, as dredging and it not affect ground water flow seriously.
3 Natural Environmen t	(1) Protected Areas	(a) Is the project site located in protected areas designated by the country's laws or international treaties and conventions? Is there a possibility that the project will affect the protected areas?	(a) N	(a) There is no protected area in the proposed area.

	(2) Ecosystem	 (a) Does the project site encompass primeval forests, tropical rain forests, ecologically valuable habitats (e.g., coral reefs, mangroves, or tidal flats)? (b) Does the project site encompass the protected habitats of endangered species designated by the country's laws or international treaties and conventions? (c) If significant ecological impacts are anticipated, are adequate protection measures taken to reduce the impacts on the ecosystem? (d) Is there a possibility that hydrologic changes, such as reduction of the river flow, and seawater intrusion up the river will adversely affect downstream aquatic organisms, animals, vegetation, and ecosystems? (e) Is there a possibility that the changes in water flows due to the project will adversely affect aquatic environments in the river? Are adequate measures taken to reduce the impacts on aquatic organisms? 	(a) N (b) N (c) N (d) N (e) N	 (a) No any primeval forests, tropical rain forests, ecologically valuable habitats may be involved because the new embankment are planned to construct submergible embankment on farm land and rehabilitation works are planned improvement of existing embankment in seasonal flood area in haor. (b) No any protected habitats of endangered species may be involved because the plan only focus the improvement of existing road. (c) Not particular habitats for endangered species have been identified. Fish species in the area includes some protected species. (d) The embankment should be designed not to disturb the current natural flow. (e) No any large destruction of the ecosystem, because water-gates will be installed at current natural flow at embankment. (f) No large impact is expected to the natural environment. At the subproject selection process in the data collection survey, the water flow was studied and it does not affect the water flow in the area. Also, water-gates will be installed at current natural flow at embankment.
3 Natural Environmen	(3) Hydrology	 (a) Is there a possibility that hydrologic changes due to the project will adversely affect surface water and groundwater flows? (a) Is there a possibility that excavation of 	(a) N (a) N	 (a) At the subproject selection process in the data collection survey, the water flow was studied and it does not affect the water flow in the area. (a) No large topographic change is
t	(4) Topography and Geology	rivers and channels will cause a large-scale alteration of the topographic features and geologic structures in the surrounding areas?		anticipated.
5 Others	(1) Impacts during Construction	 (a) Are adequate measures considered to reduce impacts during construction (e.g., noise, vibrations, turbid water, dust, exhaust gases, and wastes)? (b) If construction activities adversely affect the natural environment (ecosystem), are adequate measures considered to reduce impacts? (c) If construction activities adversely affect the social environment, are adequate measures considered to reduce impacts? 	(a) Y (b) Y (c) Y	(a) Management Plan should be developed based on the environmental study.(b) Impact to natural should be reduced, if it will be found.(c) Adequate compensation will be considered within the Resettlement Frame Work.
6 Note	(2) Monitoring	 (a) Does the proponent develop and implement monitoring program for the environmental items that are considered to have potential impacts? (b) What are the items, methods and frequencies of the monitoring program? (c) Does the proponent establish an adequate monitoring framework (organization, personnel, equipment, and adequate budget to sustain the monitoring framework)? (d) Are any regulatory requirements 	(a) Y (b) - (c) Y (d) N	 (a) The proponent should follow the management plan prepared in the preliminary EIA. (b) Permission process at the designing stage and grievance from PAPs should be monitored adequately. (c) The framework should develop the adequately at the process of the Environmental clearance in GOB. (d) No particular regulation has been identified.

	pertaining to the monitoring report system identified, such as the format and frequency of reports from the proponent to the regulatory authorities?		
Reference to Checklist of Other Sectors	(a) Where necessary, pertinent items described in the Forestry checklist should also be checked.	(a) Y	(a) Project involves other activities besides embankment construction such as rural infrastructure, agriculture and fishery.
Environmental Checklist	(a) If necessary, the impacts to transboundary or global issues should be confirmed (e.g., the project includes factors that may cause problems, such as transboundary waste treatment, acid rain, destruction of the ozone layer, or global warming).	(a) N/A	(a) No any particular involvement.

Source: JICA Survey Team

Table A.8.6 Tentative Environmental Checklist Related to Environmental Consideration for Component2 & 3

Category	Environmental Item	Main Check Items	Yes: Y No: N	Confirmation of Environmental Considerations (Reasons, Mitigation Measures)
	(1) EIA and Environmental Permits	 (a) Have EIA reports been already prepared in official process? (b) Have EIA reports been approved by authorities of the host country's government? (c) Have EIA reports been unconditionally approved? If conditions are imposed on the approval of EIA reports, are the conditions satisfied? (d) In addition to the above approvals, have other required environmental permits been obtained from the appropriate regulatory authorities of the host country's government? 	(a) N (b) N (c) N (d) Y	 (a) Official process should be conducted by implementing agencies after the JICA preparatory survey. Preliminary study is ongoing under the survey. (b) -same- (c) -same- (d) Related to EIA process, the proponent should obtained "certificate of no objection for the project" from local government.
1 Permits and Explanation	(2)Explanation to the Local Stakeholders	 (a) Have contents of the project and the potential impacts been adequately explained to the Local stakeholders based on appropriate procedures, including information disclosure? Is understanding obtained from the Local stakeholders? (b) Have the comment from the stakeholders (such as local residents) been reflected to the project design? 	(a) Y (b) Y	 (a) At the process in Haor Master Plan, range of the stake holder meeting were held. And 2 public consultation meeting at haor level are under implementation in the JICA preparatory survey. (b) The Master Plan was prepared in participatory way consulting local residents. Also, result of the PCM in the JICA preparatory survey will be shared among the implementation agencies.
	(3)Examination of Alternatives	(a) Have alternative plans of the project been examined with social and environmental considerations?		(a) With/Without project are compared.
2 Pollution Control	(1) Air Quality	(a) Is there a possibility that air pollutants emitted from the project related sources, such as vehicles traffic will affect ambient air quality? Does ambient air quality comply with the country's air quality standards? Are any mitigating measures taken?(b) Where industrial areas already exist near the route, is there a possibility that the project will make air pollution worse?	(a) N (b) N	 (a) The plan basically contains improvement of existing road condition in the rural condition based on the request of residents. No any additional pollutant emission is predicted. (b) The road improvement is for improving local environment to enhance connectivity between communities and not related to the large scale development at the time.

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	(2) Water Quality	 (a) Is there a possibility that soil runoff from the bare lands resulting from earthmoving activities, such as cutting and filling will cause water quality degradation in downstream water areas? (b) Is there a possibility that surface runoff from roads will contaminate water sources, such as groundwater? (c) Do effluents from various facilities, such as parking areas/service areas comply with the country's effluent standards and ambient water quality standards? Is there a possibility that the effluents will cause areas not to comply with the country's ambient water quality standards? 	(a) N (b) N (c) N	 (a) Some soil erosion may be occurred on the road slope during flood season. Also, during construction, some water turbidity may increase. (b) The construction site is located in the seasonal flood area. No particular water source are anticipated to be contaminated. (c) The project is only focusing the improvement of existing rural road and no any additional facilities are planned at the moment.
	(3) Wastes	(a) Are wastes generated from the project facilities, such as parking areas/service areas, properly treated and disposed of in accordance with the country's regulations?	(a) Y	(a) The activities include only rural road improvement for altering living condition and particular additional facilities are not planned.
	(4) Noise and Vibration	(a) Do noise and vibrations from the vehicle and train traffic comply with the country's standards?	(a) Y	(a) No particular impact.
	(1) Protected Areas	(a) Is the project site located in protected areas designated by the country's laws or international treaties and conventions? Is there a possibility that the project will affect the protected areas?	(a) N	(a) No any protected areas are found within the currently proposed project Ares(37 subproject areas).
3 Natural Environment	(2) Ecosystem	 (a) Does the project site encompass primeval forests, tropical rain forests, ecologically valuable habitats (e.g., coral reefs, mangroves, or tidal flats)? (b) Does the project site encompass the protected habitats of endangered species designated by the country's laws or international treaties and conventions? (c) If significant ecological impacts are anticipated, are adequate protection measures taken to reduce the impacts on the ecosystem? (d) Are adequate protection measures taken to prevent impacts, such as disruption of migration routes, habitat fragmentation, and traffic accident of wildlife and livestock? (e) Is there a possibility that installation of roads will cause impacts, such as destruction of forest, poaching, desertification, reduction in wetland areas, and disturbance of ecosystems due to introduction of exotic (non-native invasive) species and pests? Are adequate measures for preventing such impacts considered? (f) In cases the project site is located at undeveloped areas, is there a possibility that the new development will result in extensive loss of natural environments? 	(a) N (b) N (c) Y (d) Y (e) N (f) N	 (a) No any primeval forests, tropical rain forests, ecologically valuable habitats may be involved because the plan only focus the improvement of existing road. (b) No any protected habitats of endangered species may be involved because the plan only focus the improvement of existing road. (c) Not particular habitats for endangered species have been identified. Fish species in the area includes some protected species. (d) The road should be designed not to disturb the current natural flow. (e) No any large destruction of the ecosystem, because the plan only focus the improvement of existing road. (f) Because the plan only focus the improvement of existing road, no large impact is expected to the natural environment.
	(3) Hydrology	(a) Is there a possibility that alteration of topographic features and installation of structures, such as tunnels will adversely affect surface water and groundwater flows?	(a) N	(a) Hydrological impact was studied for the screening of the project site within the flood control management at data collection survey.

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	(4) Topography and Geology	 (a) Is there any soft ground on the route that may cause slope failures or landslides? Are adequate measures considered to prevent slope failures or landslides, where needed? (b) Is there a possibility that civil works, such as cutting and filling will cause slope failures or landslides? Are adequate measures considered to prevent slope failures or landslides? (c) Is there a possibility that soil runoff will result from cut and fill areas, waste soil disposal sites, and borrow sites? Are adequate measures taken to prevent soil runoff? 	(a) N (b) N (c) N	(a) No information available. However, the area is generally flood area not requires high embankment.(b) The area is flood low land and may not cause serious land failure.(c) Should be considered.
	(1) Impacts during Construction	 (a) Are adequate measures considered to reduce impacts during construction (e.g., noise, vibrations, turbid water, dust, exhaust gases, and wastes)? (b) If construction activities adversely affect the natural environment (ecosystem), are adequate measures considered to reduce impacts? (c) If construction activities adversely affect the social environment, are adequate measures considered to reduce impacts? 	(a) Y (b) Y (c) Y	 (a) The impact should be minimized using available way even the project scale are small. (b) The construction may involve local resident who are relying on the natural resources. But no big impact is anticipated because of the scale of the project. (c) Adequate compensation are considered for the land as most large impact for the society. But no big impact is anticipated because of the scale of the project.
5 Others	(2) Monitoring	 (a) Does the proponent develop and implement monitoring program for the environmental items that are considered to have potential impacts? (b) What are the items, methods and frequencies of the monitoring program? (c) Does the proponent establish an adequate monitoring framework (organization, personnel, equipment, and adequate budget to sustain the monitoring framework)? (d) Are any regulatory requirements pertaining to the monitoring report system identified, such as the format and frequency of reports from the proponent to the regulatory authorities? 	(a) Y (b) - (c) Y (d) N	 (a) The proponent should follow the management plan prepared in the preliminary EIA. (b) Permission process at the designing stage and grievance from PAPs at construction & operation should be monitored adequately. Also, RAP & LAP process should be monitored if require. (c) The proponent should develop the adequate monitoring plan based on the preliminary EIA result conducted under preparatory survey. (d) No particular regulation has been identified.
6 Note	Reference to Checklist of Other Sectors	 (a) Where necessary, pertinent items described in the Forestry Projects checklist should also be checked (e.g., projects including large areas of deforestation).(b) Where necessary, pertinent items described in the Power Transmission and Distribution Lines checklist should also be checked (e.g., projects including installation of power transmission lines and/or electric distribution facilities). 	(a) N(b) N	(a) No any particular involvement.(b) No any particular involvement.
	Note on Using Environmental Checklist	(a) If necessary, the impacts to transboundary or global issues should be confirmed, if necessary (e.g., the project includes factors that may cause problems, such as transboundary waste treatment, acid rain, destruction of the ozone layer, or global warming).	(a) N/A	(a) The road development here is only focusing the local transport improvement in the seasonal wet area, Haor in Bangladesh. No particular impacts on the transboundary issues are involved.

JICA Survey Team

<Appendix 8.4 Environmental Monitoring Form>

Form 1: Environmental Process Monitoring Form during Planning/Design Stage

a) Monitoring Period From Date Month Year

To Date Month Year

S.N.	Items Environmental License	Check Point Have Environmental Licenses been obtained?	Evaluation or Mitigation status Y:Good /Yes N: Poor /No	Remark And Signature by Checker Photocopy of the license and relevant documents, such as EIA reports include EMP & EMoP.
1		Are there any conditions for obtaining the license?	$\Box Y / \Box N$	Signature by Checker Conditions and its countermeasures
2	Documentatio n of EIA report	Have EIA/IEE reports been already prepared in official process?	□Y / □N	. Confirmation of environmental critical areas .Confirmation of exclusion of significant natural environment (forest/endangered species, etc.) . Confirmation of resettlement status
3	Information disclosure to the local residents	Have the project been explained to the general public?	$\Box Y / \Box N$	PCM Report
	Approval of EIA report	Have EIA reports been approved by authorities of the host country's government?	$\Box Y / \Box N$	Approved Environmental Management Plan and Monitoring Plan
4		Have updated monitoring plan based on approved EMP & EMoP?	$\Box Y / \Box N$	Updated monitoring plan

Form2: Social items Monitoring Form during Planning/Design Stage

Year

a) Monitoring Period From Date

To Date Month Year

Month

SN	Items	Check Point	Evaluation or Mitigation status Y:Good /Yes N: Poor /No	Remark And Signature by Checker
	Documentation	(a) Has RAP & LAP Framework been prepared?	$\Box Y / \Box N$	
1		(b) Have RAP & LAP been prepared?	$\Box Y / \Box N$	
1		(c) Has the Project specific compensation policy been prepared?	$\Box Y / \Box N$	
		(d) Has the entitlement matrix been prepared?	$\Box Y / \Box N$	
2	Approval	(a) Has RAP & LAP Framework been approved?	$\Box Y / \Box N$	
		(b) Have RAP & LAP been approved?	$\Box Y \ / \ \Box N$	
	Disclosure and consultation	(a) Has Project related and LAP/RAP related information been disclosed to the residents?		
3		(b) Has consultation during RAP preparation been conducted?	$\Box Y / \Box N$	
		(c) Has consultation after entitlement been conducted?	$\Box Y / \Box N$	

SN	Items	Check Point	Evaluation or Mitigation status Y:Good /Yes N: Poor /No	Remark And Signature by Checker
4	Grievance redress	(a) Has the grievance redress mechanism been prepared?	$\Box Y / \Box N$	
		(b) Has the Grievance Committee been formed?	$\Box Y / \Box N$	
5	Implementation arrangement	(a) Has the implementation arrangement been prepared?	$\Box Y / \Box N$	
5		(b) Have the relevant committees been formed?	$\Box Y / \Box N$	
	Cost and budget	(a) Has the implementation cost been prepared?	$\Box Y / \Box N$	
6		(b) Has the budget been approved?	$\Box Y / \Box N$	
		(c) Has the budget management mechanism been prepared?	$\Box Y / \Box N$	
7	Schedule	Has the implementation schedule been prepared?	$\Box Y / \Box N$	
8	Monitoring	(a) Has the implementation monitoring plan been prepared?	$\Box Y / \Box N$	
		(b) Has the external monitoring plan been prepared?	$\Box Y / \Box N$	

Form 3: Environmental Process Monitoring Form during Construction Stage

a) Monitoring Period From Date Month Year

To <u>Date Month Year</u>

S.N.	Items	Check Point	Evaluation or Mitigation status Y:Good /Yes N: Poor /No	Remark And Signature by Checker
1	Grievance handling during the construction	Have any grievance raised by Project Affected People/ Residence nearby?	$\Box Y / \Box N$	Contents of grievance should be reported at the time of periodical project report
		If yes; Have the problems been solved?	$\Box Y / \Box N$	Countermeasure for the problem
2	Adequate project implementatio n following legislation / instruction of DoE and contents in approved EMP • EMoP	Have adequate monitoring plan prepared based on instruction of DoE and contents in approved EMP • EMoP after the EIA process?	$\Box Y / \Box N$	Submission of Approved monitoring plan (may include; waste management,

Form 4: Environmental Process Monitoring Form after Construction Stage

a) Monitoring Period From Date Month Year

To Date Month Year

S.N.	Items	Check Point	Evaluation or Mitigation status Y:Good /Yes N: Poor /No	Remark And Signature by Checker
1	Grievance handling during the construction	Have any grievance raised by Project Affected People/ Residence nearby?	$\Box Y / \Box N$	Contents of grievance should be reported at the time of periodical project report
		If yes; Have the problems been solved?	$\Box Y / \Box N$	Countermeasure for the problem

Table-A.8.7Sample Checklist for environmental monitoring summery in Subprojects by
BWDB (Component 1)

No.	Name of Project	No of Resettlement & progress of RAP	Area of Land acquisition & progress of LAP	Identified negative impact & its countermeasure in EIA
R-1	Dampara Water Management Scheme			
R-2	Kangsa River Scheme			
R-3	Singer Beel Scheme			
R-4	Baraikhali Khal Scheme			
R-5	Alalia-Bahadia Scheme			
R-6	Modkhola Bhairagirchar sub-project Scheme			
R-7	Ganakkhalli Sub-scheme			
R-8	Kairdhala Ratna Scheme			
R-9	Bahira River Scheme			
R-10	Aralia Khal Scheme			
R-11	Chandal Beel Scheme			
R-12	Satdona Beel Scheme			
R-13	Gangajuri FCD sub-project			
R-14	Kaliajuri polder #02 scheme			
R-15	Kaliakjuri polder #04 scheme			

No.	Name of Project	No of Resettlement & progress of RAP	Area of Land acquisition & progress of LAP	Identified negative impact & its countermeasure in EIA
N-1	Boro Haor Project (Nikli)			
N-2	Naogaon Haor Project			
N-3	Jaliar Haor Project			
N-4	Dharmapasha Rui Beel Project			
N-5	Chandpur Haor Project			
N-6	Suniar Haor Project			
N-7	Badla Haor Project			
N-8	Nunnir Haor Project			
N-9	Dakhshiner Haor Project			
N-10	Chatal Haor Project			
N-11	Ganesh Haor Project			
N-12	Dhakua Haor Project			
N-13	Mokhar Haor Project			
N-14	Noapara Haor Project			

Source: JICA Preparatory Survey Team

Note: This list is presented as an example to summarize monitoring situation and the contents should be modified with the project progress.

Table-A.8.8 Sample Checklist for environmental monitoring summery in Subprojects by LGED (Component 2)

No.	Name of Project Area	No of Resettlement & progress of RAP	Area of Land acquisition & progress of LAP	Identified negative impact & its countermeasure in EIA
	Dampara Water Management Scheme			
R-1	Road improvement = 15.56km (Bridge=60m)			
K-1	Hat construction: 2 locations			
	Ghat: New construction: 3 locations			
	Kangsa River Scheme			
R-2	Road improvement: 1=3.0km			
K 2	Hat/Bazar: Village Bazar improvement: 1no			
	Ghat: Improvement of Jaria ghat: 1no			
R-3	Singer Beel Scheme (N/A)			
	Baraikhali Khal Scheme			
R-4	Road improvement=23.06km			
K-4	Hat/Bazar: Village bazaar improvement: 3no			
	Ghat: Bazar ghat improvement: 2no			
	Alalia-Bahadia Scheme			
R-5	Road improvement=30.20km			
	Hat/Bazar: Village bazaar improvement: 1no			
R-6	Modkhola Bhairagirchar sub-project Scheme			
K-0	Road improvement=2.10km			
	Ganakkhalli Sub-scheme			
R-7	Road improvement=4.97km			
	Ghat: Improvement of Kacharighat: 1no			
	Kairdhala Ratna Scheme			
ъο	Road improvement=60.0km(Culvert=123.2m,Bridge =70m)			
R-8	Ghat: Improvement of Boalia ghat: 1no			
	Hat/Bbazaar: Imrovement of Bbadhalpur Bazar: 1no			
	Bahira River Scheme			
D O	Road improvement=14.28km(Culvert=18.5m,Bridge=55m)			
R-9	Ghat: Improvement: 2no			
	Hat Bazar: Village Bazar improvement: 2no			
	Aralia Khal Scheme			
D 10	Road improvement=3km(Bridge=100m,Culvert=30m)			
R-10	Ghat: Improvement of Sujatpur bazaar ghat: 1no			
	Hat Bazar: Improvement of Sujatpur bazaar: 1no			
R-11	Chandal Beel Scheme			
R-12	Satdona Beel Scheme			
	Gangajuri FCD sub-project			
D 12	Road improvement =47.05km(Bridge=70m, Culvert=260m)			
R-13	Hat bazar: Improvement of Bazar: 4 no			
	Ghat: Bazar ghat improvement: 2no			
	Kaliajuri polder #02 scheme			
R-14	Hat/Bazar: Improvement: 2no			
	Ghat: Improvement of Bazar ghat: 3no			
	Kaliakjuri polder #04 scheme			
R-15	Road improvement=36.64km(Bridge=464m, Culvert=42m)			
	Hat/Bazar: Improvement: 2no			

Boro Haor Project (Niki) Road improvement =4.61km Hat/bazaar (2Rural Markets and 1 Growth Center): 3no Ghat: New construction: 3no N-2 Road improvement =22.59km Ghat: New construction: 1no Hat/bazaar(2Rural Markets and 1 Growth Center): 3no N-2 Road improvement =22.59km Ghat: New construction: 1no Hat/bazaar(New village market construction):1no N-3 Jaliar Haor Project Dharmapasha Rui Beel Project Image: Construction (Construction):1no N-4 Road improvement =25.46km(Culvert=150m) Hat/bazaar(New village market construction):1no Hat/bazaar(New village market construction):1no Chandpur Haor Project Image: Construction (Construction):1no N-5 Road improvement=32.12km Market: New Bazar construction: 1no Image: Construction: 1no Badla Haor Project Image: Construction: 1no N-8 Nunnir Haor Project N-8 Road improvement =2.54km Ghat: New construction: 1no Image: Construction: 1no Badla Haor Project Image: Construction: 1no N-8 Road improvement =2.70km Hat:New Bazar construction: 1no Image: Constru	No.	Name of Project Area	No of Resettlement & progress of RAP	Area of Land acquisition & progress of LAP	Identified negative impact & its countermeasure in EIA
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Source: JICA Preparatory Survey Team

Note: This list is presented as an example to summarize monitoring situation and the contents should be modified with the project progress.

<Appendix 8.5 TOR for the EIA study in BWDB/LGED >

This draft Terms of Reference (TOR) for the EIA Study has been prepared based on the results of the Initial Environmental Examination (IEE) and subsequently considering the environmental scoping as represented in the previous sections of this chapter. Public Consultation Meeting will be arranged at the project affected areas as per JICA and Bangladesh Government Environmental guidelines. After the Public Consultation Meeting (PCM), the draft TOR will be finalized based on the outcomes of the PCM.

A.8.5.1 Objective of the EIA Study

The main objective of the EIA study is to identity the significant environmental impacts for New Submergible Embankment Subprojects to be implemented by Bangladesh Water Development Board (BWDB) along with mitigation measures as per JICA and the Government of Bangladesh's EIA guidelines and rules. A preliminary EMP should also be prepared.

A.8.5.2 Scope of the EIA Study

The scope of the EIA study is based upon the requirements of the environmental guidelines of JICA and GoB. The scopes of work include:

- (1) Organizing Public Consultation Meetings for EIA
- (2) Update of the EIA TOR as per the outcomes of Public Consultation Meeting
- (3) Review of all relevant environmental reports including monitoring
- (4) Project description from environmental aspect
- (5) Supplementary secondary & primary data collection
- (6) Data analysis to describe the natural environment, social environment and environmental pollution, especially for the negative impacts identified in the IEE
- (7) Environmental quality survey on water (surface & ground)
- (8) Input from Preparation of Preliminary Abbreviated Resettlement plan (ARP)
- (9) In depth Survey on Flora and Fauna in the project affected areas
- (10) Meeting and consultation with stakeholders particularly Public Consultation Meeting (PCM)
- (11) Analysis of environmental impacts
- (12) Identification of mitigation measures
- (13) Preparation of Preliminary EMP to reduce or eliminate significant environmental impacts
- (14) Environmental Monitoring Plan (EMoP)
- (15) Preparation of Environmental Impact Assessment (EIA) report

A.8.5.3 Project Components and Study Area

Study Item for BWDB Scheme

The EIA study is to be carried for two (2) New Submergible Embankment Subprojects to be implemented by Bangladesh Water Development Board (BWDB). The major features of the projects are new Submergible Embankments, Re-excavation of Canals and regulators. The detail of the project area to be covered and the major project features for which EIA studies need to be conducted are shown in the Overall IEE study : The EIA study will be carried out on the following environmental parameters.

Natural Environment

(1). Topography, (2). Soil Erosion and Siltation, (3). Regional Hydrology (Flooding, Drainage Congestion and Water Logging), (4). Landscape and Land use and (5). Sand Carpeting

Agriculture

(1). Crop Production, (2). Crop Damage and (3). Irrigated Area

Ecological Parameters

(1). Fisheries, (2). Wildlife, (3). Forest / Tree / Crop loss, (4). Wetlands eco-system/ Bio diversity and (5). Endangered Species

Environmental Pollution

(1). Air Pollution, (2). Ground & Surface Water Pollution, (3). Noise and Vibration, (4). Soil Contamination, and(5). Waste Disposal

Social Environment

(1). Land acquisition and/or resettlement, (2). Homestead Loss, (3). Income Loss, (4). Income gain, (5). Employment, (6). Food Intake, (7). Historical and Cultural Loss, (8). Occupational Health and Safety, (9). Accidents, (10). Ethnic Minorities and Indigenous People and (11). Hazards(Risks) infectious disease such as HIV/AIDS

Study Item for LGED Scheme

The EIA study is to be carried for the projects under LGED Scheme. The activities are construction/reconstruction of upazilla, union and village level roads, construction of landing ghats at rural water ways, construction of growth centers and markets. LGED is responsible to implement these projects within the haor areas as shown in the Overall IEE study.

The EIA study will be carried out on the following environmental parameters.

Natural Environment

(1). Topography

Agriculture

(1). Crop Transportation, (2). Marketing of crops

Ecological Parameters

(1). Fisheries, (2). Wildlife, (3). Forest / Tree / Crop loss and (4). Endangered Species

Environmental Pollution

(1). Air Pollution, (2). Ground & Surface Water Pollution, (3). Noise and Vibration, (4). Soil Contamination, and(5). Waste Disposal

Social Environment

Land acquisition and/or resettlement, (2). Homestead Loss, (3). Employment, (4). Historical and Cultural Loss, (5). Occupational Health and Safety, (6). Accidents, (7). Ethnic Minorities and Indigenous People and (8). Hazards(Risks) infectious disease such as HIV/AIDS

A.8.5.4 Examination of Environmental and Social Impact

Based on results of Secondary data, field reconnaissance survey and detail field surveys for the environmental and social impact items as stated in the above section should be studied deeply and all conceivable impacts should be examined as quantitatively as possible to consider required measures to avoid or minimize the impacts in planning, construction, and operation phases of the project.

A.8.5.5 Preparation of Mitigation Measures, Environmental Management Plan and Environmental Monitoring Plans

Based on result of examination on environmental and social impacts, measures to avoid or minimize the impacts shall be proposed, especially for the environmental and social items which would be affected significantly. Based on the proposed measures, an Environmental Management Plan shall be prepared to implement such measures adequately, considering detailed implementation method. In addition, an Environmental Monitoring Plan shall be prepared to check effect of the measures and unexpected impact after the operation of the project. The Environmental Monitoring Plan includes monitoring items, period, frequency and location.

Appendixes 10.1 to 10.11

Appendix 10 Economic and Financial Analysis

Appendix 10.1: Economic Price of Boro Rice

		In	nport Parity	
		Estimation	US\$/ton	BDT/Kg
1.	Price Forecast of rice, Bangkok, Thailand, f.o.b.		*1) 400.0	
2.	Quality Adjustment (damaged rice 90%)		380.0	
3.	Insurance, freight, etc.		40.0	
4.	Forecast 2013 c.i.f. price of rice, Chittagong		420.0	
	Currency exchange *2)			32.7
5.	Port handling, storage and losses	5% +		1.6
6.	Transportation (port to wholesaler)	+		1.7
7.	Ex-wholesaler price			36.0
8.	Merketing Margin	10% -		3.6
9.	Local transportation (village to wholesaler)	-		0.5
10.	Value of Milled Rice			31.9
11.	Conversion of Paddy	68%		21.7
12.	Milling Cost	-		0.8
13.	Local transportation (farm to village)	-		0.5
14.	Economic farm gate price			20.4

*1) Thai 5% broken rice, price forecast in nominal US\$ in 2025, converted to 2013 constant price

- Projection in 2025 480 US\$/ton

- MUV index 2013 – 2025 (July/2013) 1.20

- Projection in 2025 by constant price in 2013

400 US\$/ton

*2) 1US\$=77.8 BDT

Appendix 10.2: AADT (Annual Average Daily Traffic) data provided by LGED (1/2)

										AADT							
Ran king	No.	District	Upazila	Road Code	Road Name				orizd			Nor	n-motori	zed	(1000		
sing						Truck	Bus	Utility/ Jeep	Car/Ta xi	Auto Ricksh	Motor Cycle	Biycle	Ricksh aw/van	Cart	TK/year)		
					Difference of Economic VOC between IRI 4 and 16 (TK/km)	14.34	26.11	16.55	10.26	2.06	0.96	2.22	3.32	8.68			
1	4-103	Habiganj	Baniachang	636113013	Subidpur Up office-Aowar Mohal Bazar Via Kabirpur, Niamat pur												
2	4-7	Habiganj	Sadar	636444065	Bohula 2no word Pirbari - Paschim Haor Road												
3	1-44	Kishoreganj	Karimganj	348422008	Niamatpur-Gundhar GC Road via Fazilkhali Bazar	146	160	55	28	242	267	173	180	17	3,414		
4	2-4	Netrokona	Purbadhala	372833012	Ghagra UP (Kapashia)-Jaria Bazar road via Katwari	0	0	0	0	0	16	79	51	0	131		
5	3-64	Sunamganj	Sunamganj-Sadar	690892009	R&H (Rabarbari)-Baishber-Joynagar GC	0	0	28	0	36	70	144	209	0	591		
6	4-100	Habiganj	Baniachang	636112007	Kadir Gonj Gc-Paharpur Gc Via Karcha	0	0	0	0	5	30	158	162	75	576		
7	4-105	Habiganj	Baniachang	636113017	Bithangal Gc-Hobigonj - Sujathpur Road Via Monduri Up office ,												
8	4-55	Habiganj	Azmiriganj	636024002	Pirojpur Lanchghat-Jalsuka bazar Rd.	0	0	0	0	0	0	12	0	4	22		
9	2-19	Netrokona	Khailajuri	372384012	Hayatpur-Chanpur via Khusalpur												
10	3-99	Sunamganj	Dakhin Sunamganj.	690932011	Santiganj bazar (UZ HQ.)-Rajaniganj bazar(Patharia GC) via Dungri	128	8	166	38	412	350	395	569	30	3,428		
11 12	1-21	Kishoreganj Kishoreganj	Austagram Pakundia	348022002 348793006	Austagram-Mitamoin Road Hossendi UP-Ashutia old bazer Rd via Mongalbaria and Thutarja	0 60	0	66 14	3	70 50	37 145	38 308	64 58	53	741 863		
12	1-3	Kishoreganj	Pakundia	348793000	Pakundia UP-Mosua hat via Saluadi	38	1	44	4	30	66	126	142	11	824		
14	1-4	Kishoreganj	Itna	348332004	Itna-Kakailchew Road	8	0	0		20	25	27	41	77	381		
15	1-15	Kishoreganj	Sadar		Baratopa-Thadapara Bazer Road		0		0	20	20	27			201		
16	1-18	Kishoreganj	Nikli	348764005	Jariatala UP office-Chetra Road												
17	1-29	Kishoreganj	Hossainpur	348274038	Gangahatia bazar-Janata bazarvia Abdul Aziz H/S road												
18	1-35	Kishoreganj	Mithamoin	348593001	Mithamoin Noya hati-Dhaki UP Office Rd.	0	0	0	0	0	20	42	11	16	105		
19	1-26	Kishoreganj	Hossainpur	348273007	Char Pumdi bazar-Pumdi UP H/Q Road	43	0	0	6	12	55	139	77	0	482		
20	4-54	Habiganj	Azmiriganj	636025034	Anandopur Ghat - Anadopur Village	0	0	0	0	0	0	0	0	0	-		
21	1-22	Kishoreganj	Austagram	348023004	Austagram-Badha ghat-Kalma UP office road	0	0	0	0	51	40	31	36	29	213		
22	1-28	Kishoreganj	Hossainpur	348273010	Gobindapur UP H/Q-Janata bazar Road	31	0	0	_	19	57	139	132	0	480		
23	1-48	Kishoreganj	Kuliarchar	348543006	Dumrakanda Bazar-Ramdi UP Office Rd.	5 29 40 50 114 96 135 261 0 ree/Mohanpur) 0 0 0 0 43 63 71 76 0 2 0 10 0 16 209 366 59 1 0 0 0 0 47 73 24 47 41 0 0 5 0 14 79 131 21 0 34 0 67 40 39 158 402 219 40 0 0 0 0 0 534 0 55 1 0 0 0 13 59 142 50 0				1,276 204							
24	3-67	Sunamganj	Sunamganj-Sadar	690893001	R&H road Janigaon-Joy nagar Bazar Road (Laxmansree/Mohanpur)	-	-		-				135 261 0 71 76 0 366 59 1 24 47 41 131 21 0 402 219 40 34 0 55 142 50 0 301 312 16				
25	4-47	Habiganj	Azmiriganj	636022003	Azmirigonj - Paharpur road.									1	527		
26	1-23	Kishoreganj	Austagram	348023005	Austagram-Mohishertilla-Gagra UP office Rd		-								253		
27 28	4-49 1-5	Habiganj	Azmiriganj	636022005	Paharpur - Baniachong Via Jhilsuik.	Ů	-								200		
28 29	1-5	Kishoreganj		348063001 348335041	Ujanchar bazar-Halimpur UP Rd										1,535 204		
29 30	1-8	Kishoreganj Kishoreganj	Itna M ithamoin	3485592002	Mowra-Chandrapur hat Rd. Mithamoin Sadar-Karimganj Boardar Balikhola Road		-		0						204		
31	1-34	Kishoreganj	Mithamoin	348594001	Singua Ferry ghat-Bagadia Bazar Rd.	0	0	0	0	15	59	142	50	0	200		
32	1-37	Kishoreganj	Tarail	348923004	Thana H.Q-Dhamiha Bazer	26	5	27	6	80	81	301	312	16	1,131		
33	3-47	Sunamganj	Derai	690292004	Derai Bazar-Dhol-Marculi Road	22	26	65	18	92	116	86	695	0	1,845		
34	4-8	Habiganj	Bahubal	636053004	Satkapan UP Office (Chalitatala)-Bakterpur via Shoaia bazar Rd	3	0	14	12	335	89	359	589	0	1,433		
35	4-109	Habiganj	Baniachang	636114049	Pukra Up office -Kandipura village Riad Via Darowa, Sathgran High												
36	1-10	Kishoreganj	Itna	348333007	Badla UP-Barshikura Hat Road	0	0	0	0	0	0	35	0	72	256		
37	1-39	Kishoreganj	Tarail	348923010	Jawer UP-Dhamiha UP via Echapashar	5	4	5	3	47	34	141	72	0	354		
38	1-47	Kishoreganj	Kuliarchar	348543002	Chhaysuti UP Office[R&H]-Paltia Bazar via Madhobdi, Pailanpur	28	42	89	135	144	267	261	100	0	2,125		
39	2-3	Netrokona	Purbadhala	372833002	Purbadhala (Kalduar)-Ghagra UP (Kapashia) road via Ghagra bazar	136	30	117	36	382	728	544	738	22	3,786		
40	4-53	Habiganj	Azmiriganj	636025035	Solori - Shibpasha.	0	0	0	0	0	0	0	0	0	-		
41	4-106	Habiganj	Baniachang	636114013	Habigonj-Baniyachong RHD to Sunaru vill												
42		Habiganj	Baniachang	636114019	Shibgonj Bazar to halderpur Chilori road	0	0	0	0	0	141	226	174	34	551		
43		Habiganj	Azmiriganj	636025026	Kamulpur Ghat - Kamulpur Pry School.												
44	1-2	Kishoreganj	Pakundia	348793005	Hossendi UP-Motkhola GC Via Alamdi	33	5	15	3	52	47	186	61	5	618		
45		Kishoreganj	Nikli		Guroi UP office-Chapirchar Rd	210	102	0	72	120	166	246	100	0	2.260		
46 47	1-25	Kishoreganj Kishoreganj		348273005 348273009	Gobindapur Chowrasta bazar-Gobindapur UP H/Q Road	218 51	103	63 0	73 16	139 34	166 64	246 140	190 171	0	3,369 696		
47	1-27	Kishoreganj	Hossainpur Katiadi	348273009 348453007	Adu Master bazar-Shahedal UP H/Q Road Achmita UP H/QPong Masua bazar Rd.	14	6	0	16	34 42	64 95	217	69	18	696 560		
48 49	2-6	Netrokona	Purbadhala	348433007	Kalihor R&H-Dampara via Chander Bazar	14	0	0	15	42		217	09	10	500		
50	2-0	Netrokona	Purbadhala	372835039	Shahala-Hatkhala Bazar												
51	2-20	Netrokona	Barhatta	372092007	Amtala-Samaj GC Road (Barhatta Portion)	58	0	57	2	53	55	70	31	0	809		
52	3-73	Sunamganj	Sunamganj-Sadar	690894005	Tokerghat-Bahadurp ur Rd.(Laxmansree)	0	0	0	0	0	15	52	57	0	116		
53		Habiganj	Bahubal	636054079	Guharua Pry. School - Panchparia Road Via Sluice gate Durga pur.		0			0							
54	4-48	Habiganj	Azmiriganj	636023001	Pashchimbag - Azmirigonj Road.	0	0	0	0	52	175	106	16	0	206		
55	4-59	Habiganj	Azmiriganj	636025001	G C C Road - Ronia Road.	0	0	0	0	0	0	0	0	0			
56	4-57	Habiganj	Azmiriganj	636025008	Pituarkandi Ghat - Shalla Highschool.	0	0	0	0	0	0	0	0	0	-		
57	4-52	Habiganj	Azmiriganj	636025027	Kakilsow Bazar - Rahala Rd.												
58	1-11	Kishoreganj	Sadar	348493009	Danapatuli UP-Jalia bazar	18	0	39	0	82	719	477	313	0	1,409		
59	2-11	Netrokona	Atpara	372045037	Sukari Badirakola												
60	3-60	Sunamganj	Derai	690294018	Nagergaon Ferry ghat-Nasnibazar	0	0	0	0	0	23	51	23	0	77		
61	3-61	Sunamganj	Derai	690294019	Akilha Bazar-Nagergaon via Kulanje	0	0	0	0	5	27	47	16	0	71		
62	3-62	Sunamganj	Derai	690294020	Akilha Bazar-Nasni Bazar	0	0			10	36	50	0	0	61		
63		Habiganj	Sadar		Poil-Pachparia Rd.	0	0	0	0	2	18	29	13	0	47		
64		Habiganj	Bahubal	636055058	Shuaiy abaz ar-Ruy ail												
65	4-56	Habiganj	Azmiriganj	636025006	Bong rd - Paddy land Rd	0	0	11	0	0	0	0	7	0	75		
66	2-28	Netrokona	Barhatta	372094015	Rambhadrapur FRB-Naihati Bazar Rd	0	19	12	32	176	284	386	316	110	1,649		
67	3-107	Sunamganj	Dakhin Sunamganj.	690934021	Ganiganj RHD-Jibdara Road.	0	0	21	0	158	291	342	69	0	708		
60			Bahubal	636054010	Khagaura Bagdair Road							1			1		
68 69	4-12 4-51	Habiganj Habiganj	Azmiriganj	636025023	Kakilsow GCCR - Rosulpur.												

Appendix 10.3: AADT (Annual Average Daily Traffic) data provided by LGED (2/2)

						AADT										
Ran	No.	District	Upazila	Road Code	Road Name			Mot	orizd			No	n-motori	zed	(1000	
king	140.	District	Opazita	Roau Coue	Roau ivanie	Truck	Bus	Utility/ Jeep	Car/Ta xi	Auto Ricksh	Motor Cycle	Biycle	Ricksh aw/van	Cart	(1000 TK/year)	
71	2-9	Netrokona	Atpara	372045034	Ukrakhal Road											
72	2-10	Netrokona	Atpara	372045036	Duaz bazar road											
73	2-16	Netrokona	Khailajuri	372383009	Upazila HQ - Gazipur UP office rd.	0	0	0	0	0	38	64	111	10	231	
74	2-25	Netrokona	Barhatta	372093004	Barhatta Ferry ghat (UP)-Horiatola bazar.	0	0	0	0	24	39	52	60	12	185	
75	3-57	Sunamganj	Derai	690294012	Tarapasa-Tongor	0	0	0	0	0	22	28	0	0	30	
76	3-59	Sunamganj	Derai	690294017	Boalia Bazar-Bhaitgaon	11	0	78	71	57	101	58	33	0	960	
77	3-72	Sunamganj	Sunamganj-Sadar	690894022	RHD(Haluargoan)-Islampur.(Laxmansree)											
78	3-76	Sunamganj	Sunamganj-Sadar	690894073	Bahaderpur RHD to Nurulla Village Road.(Laxmansree/Mohanpur)											
79	3-83	Sunamganj	Sunamganj-Sadar	690895111	Katair joynagor GC road (Noagaon)-Kandigoan village road.(Katair)											
80	3-93	Sunamganj	Sunamganj-Sadar	690895038	Katair-Joy nagar Road to Narkila GPS.(Mohanpur)											
81	3-115	Sunamganj	Dakhin Sunamganj.	690934048	Ashammura Pry. School-Puran -Kandigoan Road.	0	0	0	38	95	207	250	107	0	619	
82	4-6	Habiganj	Sadar	636444064	Boro Bohula 1no word Care Road - Moiltarpar Road											
83	4-9	Habiganj	Bahubal	636053005	Snanghat UP Office-Bagdair bazar	14	0	24	3	160	50	100	431	0	971	
84	4-11	Habiganj	Bahubal	636055015	Khagaura Algahati-Noayahati via Primary school											
85	4-13	Habiganj	Bahubal	636054012	Amrita-Barchar Road											
86	4-17	Habiganj	Bahubal	636054080	Digambar bazar-Noawai Road											
87	4-60	Habiganj	Azmiriganj	636025002	R&H Road - Morolbari Road	0	0	14	0	0	6	11	6	0	103	
88	3-109	Sunamganj	Dakhin Sunamganj.	690934030	Derai RHD - Sreenathpur via Jahanpur -Madrassa Road.	0	0	0	0	0	11	34	49	0	91	
89	4-16	Habiganj	Bahubal	636055044	Raisgong Rd-Barkadabad											
90	2-18	Netrokona	Khailajuri	372383011	Khaliajuri UP office - Panchhat bazar rd.	0	0	0	0	0	20	43	39	3	99	
91	3-117	Sunamganj	Dakhin Sunamganj.	690934086	Kandagaon LGED UZR Road to Nowakhali - Bhimkhali UZR via Ra	0	0	32	0	51	141	264	33	0	535	
92	4-14	Habiganj	Bahubal	636055017	Fotehpur-Shampur Road											
93	2-8	Netrokona	Atpara	372045016	Gopalasram-Madukal											
94	2-13	Netrokona	Atpara	372045068	Sunajur bazar											
95	2-17	Netrokona	Khailajuri	372383010	Gazipur UP office-Panchhat bazar rd.	0	0	0	0	0	12	59	69	7	158	
96	2-21	Netrokona	Barhatta	372092009	Atitpur Bazar (R&H)-Chandrapur Bazar via Huzrabari, Dariapur,	35	0	5	0	47	60	86	59	7	433	
97	4-90	Habiganj	Chunarughat	636264009	Durgapur Bazar - Sreerampur Road.	11	0	21	0	0	10	62	81	15	384	
98	2-12	Netrokona	Atpara	372045066	Chargati GPS road											
99	3-82	Sunamganj	Sunamganj-Sadar	690895092	Jalalpur-Dakher hawore road.											
100	3-94	Sunamganj	Sunamganj-Sadar	690895070	RHD, Ahsampara Bridge-Jogjinpur road.											
101	3-95	Sunamganj	Sunamganj-Sadar	690895039	Katair Joy nagar Road to Noagaon GPS.(Mohanpur)											
102	4-78	Habiganj	Chunarughat	636264008	Ware House Ubahata-Sakir Mohammad Road.											
103	2-33	Netrokona	Kendua	372475053	Batta - Kachari road	0	0	0	0	0	0	0	0	0	-	
104	2-32	Netrokona	Kendua	372475010	Muzafarpur Pacca road (Gogda Bazar) - Sunai Beel.	0	0	0	0	0	0	0	0	0	-	
105	3-102	Sunamganj	Dakhin Sunamganj.	690933008	Shimilbak UP office - Muktakhai - Joy nagar via Chandpur GPS Road	0	0	41	0	98	102	206	157	0	714	
106	4-79	Habiganj	Chunarughat	636265044	Ulukani govt.Pry. School - Assian Highway link road.											
107	5-40	Brahmanbai	Sarail	412945098	Dewra-Charuhati Road											
108	5-41	Brahmanbai	Sarail	412945145	Shahajadapur-Dhauria Road											
109	4-45	Habiganj	Nabigonj	636775068	Muktahar brdge-Shakua bazar road											

Appendix 10.4: Sensitivity of Economic VOC of Vehicles to Road Roughness in 2009 price

(unit: BDT/km)

IRI (International Roughness Indes)	Auto Ricksh aw	Car	large Bus	Bus Mini	Mediu m Truck	Bus Light	Motor Cycle	Truck Small	Utility	Animal Cart	Ricksh aw	Bicycle
4	4.78	16.09	68.40	28.21	21.42	15.17	3.18	11.34	15.95	8.02	2.32	1.61
5	4.99	16.96	71.65	29.74	22.80	15.96	3.23	11.96	16.27	8.34	2.44	1.68
6	5.09	17.54	73.46	30.71	23.75	16.44	3.28	12.10	17.39	8.71	2.57	1.77
7	5.16	17.69	73.33	30.96	24.16	16.52	3.32	12.68	17.49	9.19	2.75	1.83
8	5.70	17.91	74.62	31.68	24.28	15.74	3.32	12.78	18.28	10.06	3.07	2.03
9	5.86	19.02	77.20	33.39	26.19	17.71	3.34	14.37	20.57	10.16	3.47	2.14
10	5.88	21.14	81.78	37.10	29.10	19.68	3.41	15.97	22.85	10.23	3.67	2.44
11	6.00	23.25	82.36	40.82	30.01	21.64	3.51	16.57	25.14	11.51	3.77	2.54
12	6.12	23.36	82.94	41.53	31.92	21.91	3.54	16.66	26.42	11.96	3.99	2.61
13	6.19	23.46	83.40	42.41	32.41	22.45	3.66	16.83	26.95	12.62	4.03	2.74
14	6.25	23.58	84.13	43.44	32.68	22.63	3.73	17.37	27.41	14.23	4.99	3.01
15	6.31	24.60	84.63	44.80	32.91	22.82	3.84	17.77	27.92	15.23	5.08	3.46
16	6.51	24.67	90.23	45.67	33.41	23.49	3.98	17.87	29.79	15.28	5.09	3.47
Difference (IRI $= 16 - 4$)	1.73	8.58	21.83	17.46	11.99	8.32	0.80	6.53	13.84	7.26	2.77	1.86

Source: Rural Infrastructure Improvement Project (RIIP) RDP-25, Road User Cost Study for LGED Roads, Final Report (August 2009, GTZ)

Appendix 10.5: Sensitivity of Economic VOC of Vehicles to Road Roughness

(unit: BDT/km)

IRI (International Roughness Indes)	Auto Ricksh aw	Car	large Bus	Bus Mini	Mediu m Truck	Bus Light	Motor Cycle	Truck Small	Utility	Animal Cart	Ricksh aw	Bicycle
4	5.72	19.24	81.79	33.73	25.61	18.14	3.80	13.56	19.07	9.59	2.77	1.93
5	5.97	20.28	85.68	35.56	27.26	19.09	3.86	14.30	19.46	9.97	2.92	2.01
6	6.09	20.97	87.84	36.72	28.40	19.66	3.92	14.47	20.80	10.42	3.07	2.12
7	6.17	21.15	87.69	37.02	28.89	19.75	3.97	15.16	20.91	10.99	3.29	2.19
8	6.82	21.42	89.23	37.88	29.03	18.82	3.97	15.28	21.86	12.03	3.67	2.43
9	7.01	22.74	92.32	39.93	31.32	21.18	3.99	17.18	24.60	12.15	4.15	2.56
10	7.03	25.28	97.79	44.36	34.80	23.53	4.08	19.10	27.32	12.23	4.39	2.92
11	7.17	27.80	98.49	48.81	35.89	25.88	4.20	19.81	30.06	13.76	4.51	3.04
12	7.32	27.93	99.18	49.66	38.17	26.20	4.23	19.92	31.59	14.30	4.77	3.12
13	7.40	28.05	99.73	50.71	38.76	26.85	4.38	20.13	32.23	15.09	4.82	3.28
14	7.47	28.20	100.60	51.95	39.08	27.06	4.46	20.77	32.78	17.02	5.97	3.60
15	7.55	29.42	101.20	53.57	39.35	27.29	4.59	21.25	33.39	18.21	6.07	4.14
16	7.78	29.50	107.90	54.61	39.95	28.09	4.76	21.37	35.62	18.27	6.09	4.15
Difference (IRI = 16 - 4)	2.06	10.26	26.11	20.88	14.34	9.95	0.96	7.81	16.55	8.68	3.32	2.22

Source: Rural Infrastructure Improvement Project (RIIP) RDP-25, Road User Cost Study for LGED Roads, Final Report (August 2009, GTZ)

Appendix 10.6: Benefit Estimation of Net Pen Culture

Items	Units	WoP				WP			
itens	Units	wor	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8-23
Number of Net-Pen installation annually	Number	-	2	2	3	3	0	0	0
Incremental number of net pen installed	Number	-	2	4	7	10	10	10	10
Incremental area covered by Net-Pen	Acres	-	40	80	140	200	200	200	200
Investment cost (400,000 Tk/Net Pen)	Tk	-	800,000	800,000	1,200,000	1,200,000	-	-	-
Operating cost (Tk 517,000) borne by Project	Tk	-	1,034,000	1,034,000	1,551,000	1,551,000	-	-	-
Operating cost (Tk 517,000) borne by Group	Tk	-	0	1,034,000	2,068,000	3,619,000	5,170,000	5,170,000	5,170,000
Fish catch (kg/acre)	kg/acre	70	70	600	630	662	695	695	695
Incremental Fish catch (kg/acre)	kg/acre	-	70	530	560	592	625	625	625
Total fish catch	kg	-	2,800	21,200	44,800	82,810	124,915	124,915	124,915
Fish catch value (Tk/kg)	110 Tk	-	308,000	2,332,000	4,928,000	9,109,100	13,740,650	13,740,650	13,740,650

Remarks:

- Number of Net-Pen = 10 units (2 units/district); 10 units will be installed in 4 years as pilots.

- Approximate Area size per unit = 20 acres; total area is about 200 acres. (Size of net pen may vary from location to location).

- Fish catch (kg/acre) = 600 kg/acre (WP); 70 kg/acre (WoP)

- Investment cost borne by project

- From 2nd year after installation, the users group will maintain & operate; all cost borne by the user groups.

- Stocking size of fingerlings is 5" to 6" (selective fish species of high market value).

Appendix 10.7: Benefit Estimation of Cage Culture (Individual Cages and Joint Cages)

Individual Cages

¥4		Units	WoP				WP			
Items		Units	wor	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8-23
Number of sets (individual cage) installed annually		Sets	-	2	2	1	0	0	0	0
Incremental number of sets (individual cages) installe	ed	Sets	-	2	4	5	0	0	0	0
Total number of cages		Number	-	40	80	100	100	100	100	100
Investment cost (80,000 Tk/set)		Tk	-	160,000	160,000	80,000	-	-	-	-
Operating cost (Tk 20,000) borne by Project		Tk	-	40,000	40,000	20,000	-	-	-	-
Operating cost (Tk 20,000) borne by Group		Tk	-	0	40,000	80,000	100,000	100,000	100,000	100,000
Fish catch (kg/acre)	15	kg/cage	-	0	15	15	15	15	15	15
Total fish catch		kg	-	0	600	1,200	1,500	1,500	1,500	1,500
Fish catch value (Tk/kg)	110	Tk	-	-	66,000	132,000	165,000	165,000	165,000	165,000
Remarks:										

Remarks

- Number of small separate cages per set = 20 small cages (each cage is 1 cubic meter); (1 set/district); 5 sets will be installed in 3 years as pilots.

- Fish catch (kg/cage) = 15 kg/cage

- Investment cost borne by project

- From 2nd year after installation, the users group will maintain & operate; all cost borne by the user groups.

- Stocking size of fingerlings is 5" to 6" (selective fish species of high market value).

- Joint Cages

Items		Units	WoP				WP			
neus		Units	wor	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8-23
Number of sets (joint-cage) installed annually		Sets	-	2	2	1	0	0	0	0
Incremental number of sets (joint-cages) installed		Sets	-	2	4	5	0	0	0	0
Number of Cages established		Number	-	20	40	50	100	100	100	100
Investment cost (180,000 Tk/set)		Tk	-	160,000	160,000	80,000	-	-	-	-
Operating cost (Tk 220,000) borne by Project		Tk	-	440,000	440,000	220,000	-	-	-	-
Operating cost (Tk 220,000) borne by Group		Tk	-	0	440,000	880,000	1,100,000	1,100,000	1,100,000	1,100,000
Fish catch (kg/cage)	350	kg/cage	-	0	350	350	350	350	350	350
Total fish catch		kg	-	0	7,000	14,000	17,500	35,000	35,000	35,000
Fish catch value (Tk/kg)	110	Tk	-	-	770,000	1,540,000	1,925,000	3,850,000	3,850,000	3,850,000

Remarks:

- Number of joint-cages per set = 10 cage; (1 set/district); 5 sets will be installed in 3 years as pilots.

- One set is 25 CuM

Fish catch (kg/cage) = 350 kg/cage

- Investment cost borne by project

- From 2nd year after installation, the users group will maintain & operate; all cost borne by the user groups.

- Stocking size of fingerlings is 5" to 6" (selective fish species of high market value).

Appendix 10.8: Benefit Estimation of Backyard Pond Culture

Items		Units	WoP	WP									
пень		Units	wor	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8-23			
Number of groups organised for culture annually		Groups	-	4	4	2	0	0	0	0			
Incremental number of groups		Groups		4	8	10							
Incremental area of ponds prepared & developed		Acres	-	10	20	25	25	25	25	25			
Investment cost (380,000 Tk/group or 2.5 acres	of ponds)	Tk	-	1,520,000	1,520,000	760,000	-	-	-	-			
Operating cost (70,000 Tk) borne by Project		Tk	-	280,000	280,000	140,000	-	-	-	-			
Operating cost (70,000 Tk) borne by Group		Tk	-	0	280,000	560,000	700,000	700,000	700,000	700,000			
Fish cultured or produced (kg/acre)	1,000	kg/acre	-	0	1,000	1,050	1,103	1,213	1,213	1,213			
Total fish cultured		kg	-	-	10,000	21,000	27,563	30,319	30,319	30,319			
Fish value (Tk/kg)	110	Tk	-	-	1,100,000	2,310,000	3,031,875	3,335,063	3,335,063	3,335,063			

Remarks:

- Number of ponds vary (5-10 ponds) per group; approximate area size of ponds per group = 2.5 acres (4 groups/district); total 10 groups will be organized in 3 years as model groups. - Pond preparation and maintenance will be group-work, thus no maintenance and wage cost.

- Investment cost borne by project

- From 2nd year onwards all cost are borne by the groups.

- Stocking size of fingerlings is 5" to 6" (selective fish species of high market value).

- Fish production = 1,000 kg/acre (expected to improve production thru pond management)

Benefit Estimation of Seasonal Floodplain Aquaculture - Daudkandi Model Appendix 10.9:

Items		Units	WoP				WP			
nens		Units	wor	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8-23
Number of model area prepared & developed	1	Number	-	1	1	0	0	0	0	0
Incremental model area prepared & developed	d	Acres	-	25	50	50	50	50	50	50
Investment cost (500,000 Tk/model site or 25	acres	Tk	-	500,000	500,000	-	-	-	-	-
Operating cost (500,000 Tk) borne by Project	t	Tk	-	500,000	500,000	-	-	-	-	-
Operating cost (500,000 Tk) borne by Group		Tk	-	0	500,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Fish cultured or produced (kg/acre)	650	kg/acre	-	0	650	715	787	865	865	865
Total fish cultured		kg	-	-	16,250	35,750	39,325	43,258	43,258	43,258
Fish value (Tk/kg)	110	Tk	-	-	1,787,500	3,932,500	4,325,750	4,758,325	4,758,325	4,758,325
Domoska										

Remarks

- Daudkandi model aquaculture will be established at 2 suitable sites in the 5 districts. One model area size is about 10 ha (25 acres); total 2 model sites to be located suitably within the 5 districts.

- Each model site area is about 10 ha (25 acres); low water depth area will be selected that grow paddy during dry months and fishing during wet months.

- Normally the land that grows one crop of paddy and remains idle in winter months (wet months) will be selected.

- One group (consisting of members of HHs, farmers, fishers) will be formed for each model site.

- Investment cost borne by project

- From 2nd year onwards all cost are borne by the groups.

- Stocking size of fingerlings is 5" to 6" (selective fish species of high market value).

Appendix 10.10: Anticipated Generated Income by SIGS

1. Housing Beu Vegeuisie Guitare Schenke									
Annual Estimated Net Return per Bed (unit BDT)									
Item 1st Year 2nd Year 3rd Year									
Gross Return	3,150 - 4,200	3,150 - 4,200	3,150 - 4,200						
Production Cost 1/	(3,000)	1,020	1,020						
Net Return	3,150 - 4,200	2,130 - 3,180	2,130 - 3,180						

1. Floating Bed Vegetable Culture Scheme

1/: In 1st year, production cost (except family labour cost) born by the sub-project

Program description

- Floating bed size per beneficiary: 12m2
- Cropping: 3 times per year (6 months in rainy season)
- Target crops: 5 crops/time
- Country beans, sweet gourd, brinjal, bitter gourd, cucumber
- Production cost: 1st year BDT 3,000, 2nd year & on BDT 1,020
- Production: 30 40kg/2months x 3 times = 90 120 kg/year
- Gross return: average unit price BDT 35/kg
- 90 120kg x BDT 35/kg = BDT 3,150 4,200.-

Anticipated generated income (per year/beneficiary):

1st year: 3,150 - 4,200, 2nd & 3rd year: 2,130 - 3,180 BDT

2. Small-scale Vegetable Production Support Scheme

Annual Estimated Net Return per Plot (unit BDT)									
Item 1st Year 2nd Year 3rd Year									
Gross Return	4,200 - 7,000	4,200 - 7,000	4,200 - 7,000						
Production Cost 1/	(3,200)	2,500	2,500						
Net Return	4,200 - 7,000	1,700 - 4,500	1,700 - 4,500						

l/: In 1st year, production cost (except family labour cost) born by the sub-project

Program description

- Vegetable plot size per beneficiary: 40m2
- Cropping: 3 times per year
- Target crops: 5 crops/time
- Rabi crop: cauliflower, tomato, sweet gourd, brinjal, spinach
- Kharif 1 crop: amaranths, okra, white gourd, long beans, bitter gourd
- Kharif 2 crop: red amaranths, radish, cucumber, sweet gourd, ladies finger
- Production: 150 250kg/3 croppings
- Gross return: 150 250kg x @BDT 28/kg = BDT 4,200 7,000.-
- Anticipated generated income (per year/beneficiary):
 - 1st year: 4,200 7,000, 2nd & 3rd year: 1,700 4,500 BDT

3. Fruit Production Support Scheme

Annual Estimated Net Return per 15 Fruit Trees (unit BDT)									
Item	1st Year	3rd Year							
Gross Return	0	0	2,500 - 6,000						
Production Cost 1/	(2,769)	2,500	2,500						
Net Return	0	-2,500	0 - 3,500						
Item	4th Year	5th Year							
Gross Return	4,500 - 11,500	7,000 - 15,000							
Production Cost	2,500	2,500							
Net Return	2,000 - 9,000	4,500 - 12,500							

1/: In 1st year, production cost (except family labour cost) born by the sub-project

Program description

- No. of saplings/beneficiaries: 15 saplings (3 kinds of fruit tree)
- Target fruit: litchi, jujubee, guava
- Production: 3rd year: 25 60kg, 4th year: 45 115kg, 5th year 70 150kg
- Gross retum: @ BDT 100/kg; 3rd year: BDT 2,500 6,000, 4th year: BDT 4,500 - 11,500, 5th year: BDT 7,000 - 15,000
- Anticipated generated income (per year/beneficiary): 3rd year: BDT 0 - 3,500, 4th year: BDT 2,000 - 9,000,

5th year BBDO 4,500 - 12,500

4. Micro Poultry Raising Scheme

Annual Estimated Net Return (10 hens/beneficiary, unit BDT)								
Item	Item 1st Year 2nd Year 3rd Year							
Gross Return	16,000 - 24,000	16,000 - 24,000	16,000 - 24,000					
Production Cost 1/	(17,000)	13,000	13,000					
Net Return	16,000 - 24,000	13,000 - 11,000	13,000 - 11,000					

l/: In 1st year, production cost (except family labour cost) born by the sub-project

2/: Sale of egg & old hens

Program description

- No. of hen (3 months old Sonali Breed)/beneficiary: 10 hens
- Production cycle: 6 months/cycle

- Investment Cost:

- Hen: 10 hens x BDT 300 = BDT 3,000.-
- Temporary poultry shed materials: BDT 1,000.-
- Feed: 35kg/month/hen x 10 hens x BDT 37/kg = BDT 13,000.-
- Egg prod./year: 200 300 pcs../bird x 10 birds = 2,000 3,000 pcs.
- Gross return: @BDT 8/pc.; BDT 16,000 24,000/year

Anticipated generated income (per year/beneficiary):

1st year: BDT 16,000 - 24,000, 2nd/3rd year: BDT 13,000 - 11,000

5. Small-scale Mushroom Culture Scheme

Annual Estimated Net Return (12 shelves/beneficiary; unit BDT)									
Item	Item 1st Year 2nd Year 3rd Year								
Gross Return	7,200 - 14,400	10,200 - 20,400	10,200 - 20,400						
Production Cost 1/	(4,500)	4,000	4,000						
Net Return	7,200 - 14,400	6,200 - 16,400	6,200 - 16,400						

1/: In 1st year, production cost (except family labour cost) born by the sub-project

Program description

- No. of mushroom shelves/beneficiary: 12 shelves
- No. of mushroom spoons/beneficiary: 400 ready spoons
- Production cycle: 2 months; 6 harvests per year
- Production: 1st year 60 120kg, 2nd & 3rd year 85 170kg/year
 Gross return: @BDT 120/kg;
 - 1st year 60 120kg x BDT 120/kg = BDT 7,200 14,400, , 2nd & 3rd year 85 170kg x BDT 120/kg = 10,200 20,400
- Anticipated generated income (per year/beneficiary):
 - 1st year: BDT 7,200 -14,400, , 2nd/3rd year: BDT 6,200 16,400

Appendix 10.11: Calculation of Damage Rate of Rice

Damage rate of rice by flood inundation is presented in Table 13.4.1 in the Main Report. This damage rate was calculated from the estimated rice production influenced by probable floods which was calculated in the feasibility study report of the Kalni-Kushiyara River Management Project (KKRPMP, 1998). The same flooded rice production was applied in this survey, since the study area of the KKRMP had been also extended in the haor area. The F/S of KKRMP determined the yield of rice in the damage free land (inundation depth < 0.3 m) and flood damaged land (inundation depth > 0.3 m), referring to past surveys such as NERP Farm Household Survey (1996), NERP Land Use Survey (1995 – 1996), K-K Farm Monitoring Survey (1995 – 1996), Kalni-Kushiyara Pre-F/S (1994), National Minor Development Project (1994) and information of Bangladesh Bureau of Statistics published in 1991 and 1993. The rice production was calculated from these yields of rice and inundation areas for the floods of 2, 5 and 10-year probabilities as shown in the table below.

Damage Rate for 2	-year flood								
		Flood	Flood Year (2-year)			No	No Flood Year		
Crop		Cultivated area	Yield	Production		Cultivated area	Yield	Production	
			(ton/ha)	(ton)		(ha)	(ton/ha)	(ton)	
HYV Boro	Damage Free	169,239	4.69	793,731		193,752	4.69	908,697	
111 V D010	Damaged	24,513	2.9	71,088					
Local Boro	Damage Free	25,710	3.11	79,958		43,010	3.11	133,761	
Local Bolo	Damaged	17,300	1.6	27,680					
B. Aus	Damage Free	7,384	1.1	8,122		7,446	1.10	8,191	
D. Aus	Damaged	62	1.04	64					
DW Aman	Damage Free	21,245	1.93	41,003		25,297	1.93	48,823	
Dw Aman	Damaged	4,052	1.5	6,078					
Loc T. Aman	Damage Free	36	2.15	77		36	2.15	77	
Loc I. Allali	Damaged	0	1.75	0					
HYV T. Aman	Damage Free	7,430	3.2	23,776		7,518	3.20	24,058	
HIVI. Aman	Damaged	88	2.24	197					
Total Production				1,051,774				1,123,607	
Loss due to Flood		1,123,607	-	1,051,774	=	71,833	ton		
Damage Rate		71,833	/	1,051,774.0	=	6.4	%		

Damage Rate for 5-year flood

		Flood	l Year (5-yea	ar)		No	Flood Year	
Crop		Cultivated area	Yield	Production		Cultivated area	Yield	Production
			(ton/ha)	(ton)		(ha)	(ton/ha)	(ton)
HYV Boro	Damage Free	61,411	4.69	288,018		193,752	4.69	908,697
HIV B010	Damaged	132,341	2.9	387,759				
Local Boro	Damage Free	9,329	3.11	29,013		43,010	3.11	133,761
Local Bolo	Damaged	33,681	1.6	53,890				
B. Aus	Damage Free	2,679	1.1	2,947		7,446	1.10	8,191
D. Aus	Damaged	4,767	1.04	4,958				
DW Aman	Damage Free	7,709	1.93	14,878		25,297	1.93	48,823
Dw Aman	Damaged	17,588	1.5	26,382				
Loc T. Aman	Damage Free	13	2.15	28		36	2.15	77
Loc I. Allali	Damaged	23	1.75	40				
UNA T Amon	Damage Free	2,696	3.2	8,627		7,518	3.20	24,058
HYV T. Aman Damaged	Damaged	4,822	2.24	10,801				
Total Pro	oduction			827,341	1		1,123,607	
Loss due to Flood		1,123,607	-	827,341	=	296,266	ton	
Damage Rate		296,266	/	827,341.0	=	26.4	%	

Damage Rate for 10-year flood

		Flood	Year (10-ye	ar)		No Flood Year		
Crop		Cultivated area	Yield	Production		Cultivated area	Yield	Production
		(ha)	(ton/ha)	(ton)		(ha)	(ton/ha)	(ton)
HYV Boro	Damage Free	9,217	4.69	43,228		193,752	4.69	908,697
111 ¥ B010	Damaged	184,535	2.9	540,688				
Local Boro	Damage Free	1,400	3.11	4,354		43,010	3.11	133,761
Local Bolo	Damaged	41,610	1.6	66,576				
B. Aus	Damage Free	402	1.1	442		7,446	1.10	8,191
D. Aus	Damaged	7,044	1.04	7,326				
DW Aman	Damage Free	1,157	1.93	2,233		25,297	1.93	48,823
Dw Anan	Damaged	24,140	1.5	36,210				
Loc T. Aman	Damage Free	2	2.15	4		36	2.15	77
Loc I. Allali	Damaged	34	1.75	60				
HYV T. Aman	Damage Free	405	3.2	1,296		7,518	3.20	24,058
Damaged	7,113	2.24	15,933					
Total Pro	Total Production			718,350				1,123,607
Loss due to Flood		1,123,607	-	718,350	=	405,257	ton	
Damage Rate		405,257	/	718,350.0	=	36.1	%	