



Haor Infrastructure & Livelihood Improvement Project (HILIP) And Climate Adaptation and Livelihood Protection (CALIP)



Description

Area

28 Upazilas under five *haor* districts

Goal

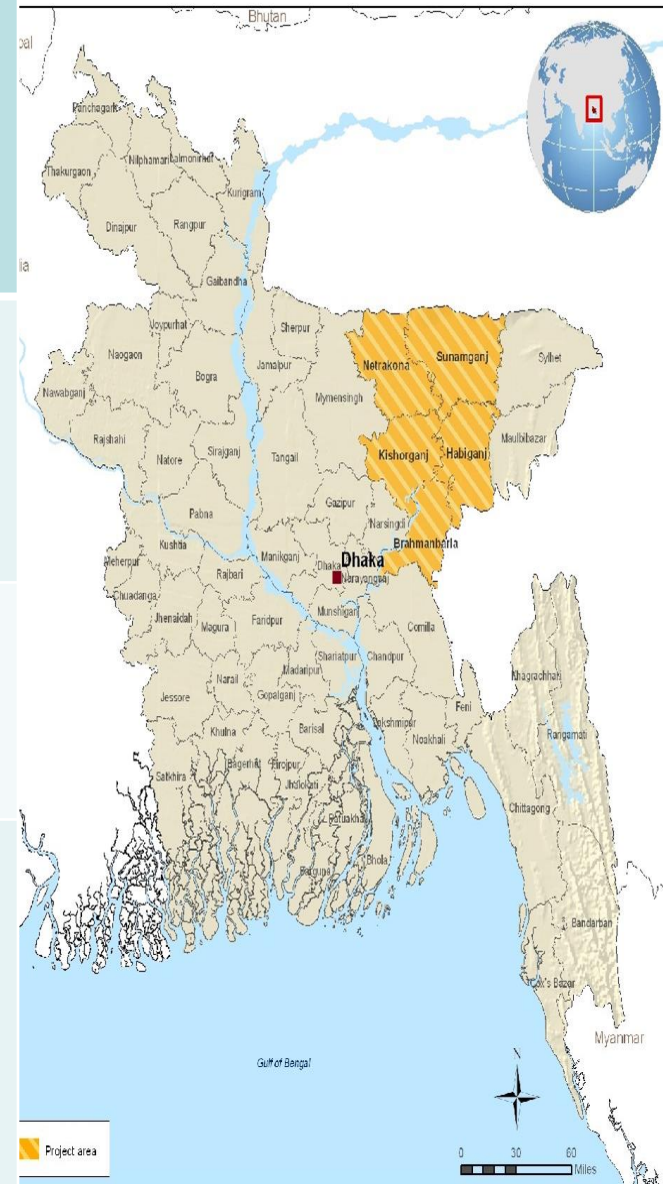
To contribute to the reduction of poverty in the Haor basin

Objectives

To improve living standards and reduce vulnerability of the poor

Project Period

January 2012 - June 2020



Project Financing (Million BDT)

Financier	Amount	Percentage	PA/GOB (Mill BDT and %)	Loan/Grant (Mill BDT and %)
IFAD (Loan)	3979.301	39	7207.016 (71%)	6003.92
IFAD (Grant)	73.10	01		(83.30)
Spanish Trust Fund (Loan)	2024.619	20		1203.096
ASAP	1129.996	11		(16.70)
GoB	2962.552	29	2962.552 (29%)	
Total	10169.56	100%		

Main Outcomes

Enhance

- access to markets, livelihood opportunities and social services
- access to village mobility, reduction in production losses and protection against extreme weather events
- access to fishery resources and conservation of biodiversity
- access to production, diversification and marketing of crop and livestock produce
- capacity and knowledge for building resilience
- Efficient, cost effective and equitable use of project resources



Investing in rural people

Target Group



➤ Poor & destitute women

➤ Poor households

➤ Smallholder farmers

➤ Poor fishermen

➤ Small traders and market intermediaries



**Total targeted
Beneficiaries
688000
Households**



Project Progress Up to April 2020

Cumulative Progress :

➤ **Physical: 86 %; Financial: 77%**

Com. No	Project Component	Physical	Financial
1.	Communication Infrastructure	86%	85%
2.	Community Infrastructure		
	(HILIP part)	85%	80%
	(CALIP part)	73%	68%
3.	Community Resource Management	58%	43%
4.	Livelihood Protection		
	(HILIP part)	90%	81%
	(CALIP part)	88%	70%
5.	Capacity and Knowledge for Building Resilience (CALIP)	70%	58%
6.	Project Management	80%	75%

Communication Infrastructure

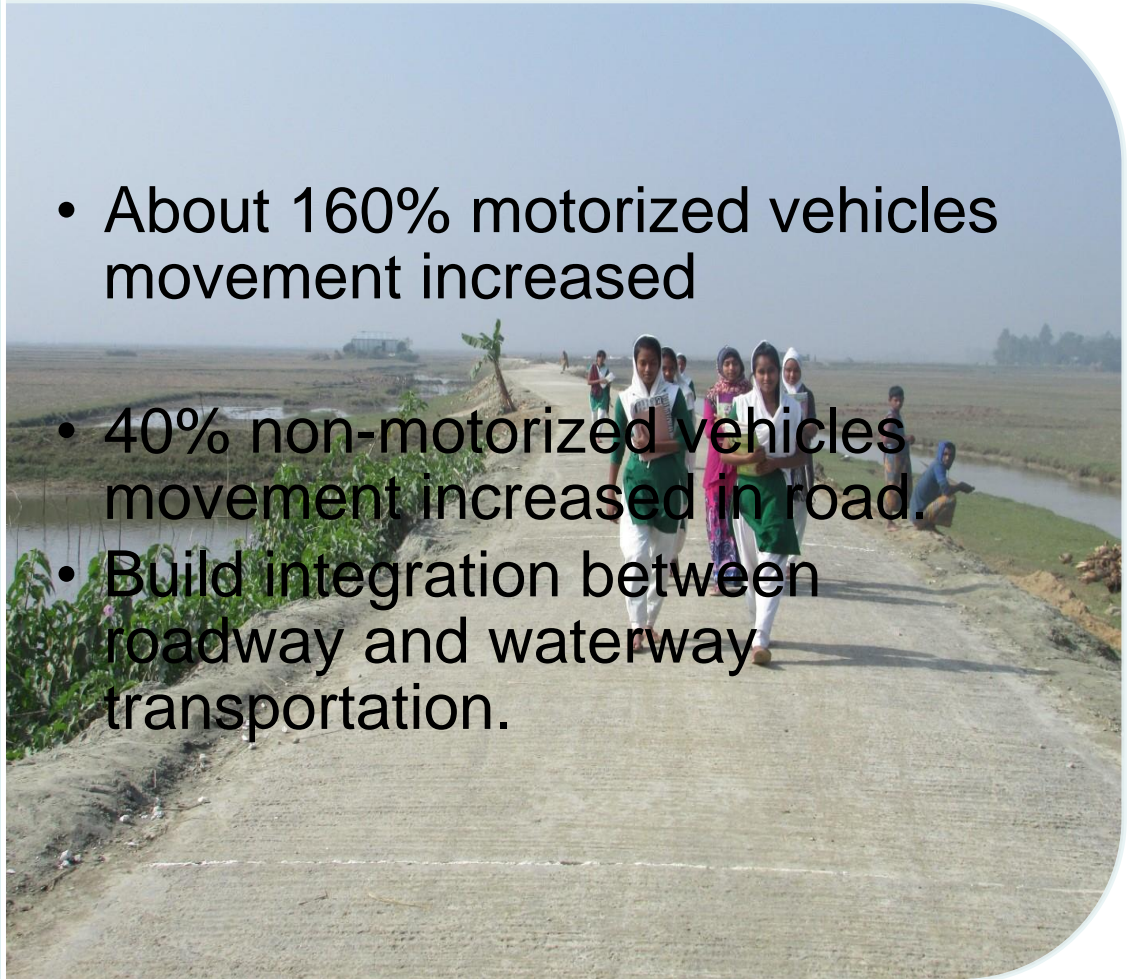
SL No	Activities	PHYSICAL & FINANCIAL PROGRESS Up to April 2020								
		Unit	RDPP Target		RAWPB Target		RAWPB Achievement		Cumulative Achievement	
			(QT)	(Amount)	(QT)	(Amount)	(QT)	(Amount)	(QT)	(Amount)
1	Upazila Roads	km	105	9984.67	5	472.5	5	440.48	95.50	9232.63
2	Union Roads	km	150	12680.00	5	400	3.5	110	140.50	11718.04
3	Bridges & Culverts on UZR	m	420	1086.44	16	34.24	16	29.96	405.00	998.32
4	Bridges & Culverts on UNR	m	650	1474.05	40	86.4	35	32.46	613.00	1322.63
5	Bridge & Culvert on CoR	m	1050	2915.04	80	261.6	80	81.58	742.00	2270.63
6	Bridge & Culverts in Sunamgonj	m	700	1389.35	-	-	-	-	700.00	1372.00
7	Boat Landing Ghats	no	40	1056.76	5	132.1	3	19.77	34	788.27
8	Minor Earth Work/road alignment	km	50	215.74	20	86.2	5	50.00	20.00	108.87
9	Training provided to contractors on PPR/ construction quality	no	40	96.50	4	4.4	-	-	23	48.37
10	Supervision by IMC	no	800	113.29	0	0	-	-	64.00	10.32
11	Infrastructure maintenance	Km	60	3968.94	30	1980	30	1697.98	33.00	1815.24

Result & Impact :

Communication Infrastructure

Impacts:

- About 160% motorized vehicles movement increased
- 40% non-motorized vehicles movement increased in road.
- Build integration between roadway and waterway transportation.



Community Infrastructure (HILIP Part)

Sl No.	Activities	PHYSICAL & FINANCIALPROGRESS Up to April 2020								
		Unit	RDPP Target		RAWPB Target		RAWPB Achievment		Cumulative Achievement	
			(QT)	(Amount)	(QT)	(Amount)	(QT)	(Amount)	(QT)	(Amount)
1	Community Road	km	300	19522.06	18	1080.90	11	69.80	280	18398.75
2	Development of Village Market	no	65	1896.35	3	87.53	2	67.63	63	1619.74
3	Market Collection Center	no	5	25.24	2	9.00	1	2.69	3	12.10
4	Village Protection Works	no	100	5620.61	15	843.15	10	197.92	74	4517.34
5	Market Protection Works	no	40	910.99	2	45.55	2	9.84	38	897.65
6	Irrigation infrastructure	no	55	1006.1	22	219.38	22	161.81	40	549.20
7	Minor earth work/road alignment undertaken	km	50	233.79	30	140.28	10	1.38	12.00	27.56
8	Pilot Innovative Infrastructure	LS.	5	150	-	0.00	-	-	-	-
9	Training LCS	no	1425	257.97	-	0.00	-	-	1336	257.23
10	Supervision by IMC	no	760	112.2	-	0.00	-	-	28	4.73
11	Exchange visit for Union Parishad undertaken	no	88	58.42	30	19.80	-	-	14	4.17
12	Technical studies	no	4	150	-	0.00	-	-	-	-
13	Infrastructure maintenance	km	40	3788.5	25	1663.49	25	529.31	28	617.05

Community Infrastructure

(CALIP Part)

SI No.	Activities	PHYSICAL & FINANCIAL PROGRESS Up to April 2020								
		Unit	RDPP Target		RAWPB Target		RAWPB Achievement		Cumulative Achievement	
			(QT)	(Amount)	(QT)	(Amount)	(QT)	(Amount)	(QT)	(Amount)
1	Village Protection Infrastructure	no	175	2542.25	40	581.08	18	106.21	140	1921.73
2	Village Internal Service	no	200	2603.96	30	390.6	27	108.08	174	2153.87
3	Model Village develop	no	2	295.68	1	147.84	0	-	0	-
4	Pilot Testing of beel bank protection	no	50	45.23	20	18.1	7	5.53	15	14.55
5	Pilot Testing of Killa protection	no	28	349.36	8	99.816	8	21.48	18	210.63
6	Pilot Testing of Upazila/ Union road slope protection	km	60	1390.83	20	463.6	15	106.97	33.00	606.42
7	Training LCS	no	530	98.70	-	-	-	-	343	74.26

Result & Impact

Community Infrastructure

Impacts

- About 40 % motorized vehicles movement increased.
- About 91% non-motorized vehicles movement increased.
- Increased the volume of goods marketed by about 60 %.
- Decreased the number of houses and markets destroyed by extreme weather events (wave action)
- Reduced in production losses through constructing killas (raised land) from flash flood.



Killa development



Village protection

Community Resource Management

SL No.	Activities	PHYSICAL & FINANCIAL PROGRESS Up to April 2020								
		Unit	RDPP Target		RAWPB Target		RAWPB Achievement		Cumulative Achievement	
			(QT)	(Amount)	(QT)	(Amount)	(QT)	(Amount)	(QT)	(Amount)
1	Beel developed (Total)	no	215	1738.381	3	23.68	4	20.45	76	323.29
2	Canal re-excavation	km	100	1538.71	24.34	374.52	6.82	340.87	57.44	1093.54
3	LCS Training	no	435	82.93	-	-	-	-	209	54.52
	Swamp forestry established		300000	101.19	10500	3.57	10,500	2.41	183000	39.84
4	No. of BMC received /attended training/exposure	No.	100	80.56	-	42.90	-	-	66	37.65
5	No. of legal service/assistance provided	No.	5	10	-	-	-	-	-	-
6	No. of third party monitoring done	No.	5	399.99	1	0.42	1	0.42	4	324.17
7	No. of dissemination workshop	No.	50	42.07	-	-	-	-	15	14.98
8	No. of promotional materials developed		8	395.88	1	2.91	1	2.91	7	17.14

Result & Impact

Community Resource Management

The BUG members get benefit from beel fisheries by selling fish.

**Total Profit
Distribution among
9589 BUG members is
BDT 76,896,826.**



**98 % fishers income
increased by fishing (Male
69% and Female 31%).**



**Increased conservation of
biodiversity**



**47% endanger species
increased leading to
increased biodiversity**

Livelihood Protection (HILIP Part)

SL No.	Activities									
		Unit			RAWPB Target		RAWPB Achievement		Cumulative Achievement	
			(QT)		(QT)	(Amount)	(QT)	(Amount)	(QT)	(Amount)
1	Crop, horticulture training , demonstration & exchange visit arranged	no	3510		9	2.310	8	2.12	3493	4241.98
2	Poultry and Livestock training , demonstration & exchange visit arranged	no	3720		314	106.29	278	66.18	3250	3816.89
3	Fisheries Training, demonstration & exchange visit arranged	no	1092		10	2.28	7	1.99	1078	1314.10
4	Innovative employment/business initiated	no	960		-	6.86	-		690	719.67
5	Activities initiated to build awareness on social issues	no	272		5	1.25	5	1.25	263	309.43
6	Recognition awards given to best practices	no	618		16	4			532	555.25
7	Motorcycles procured	no								15.77
8	CDF supported	no	200		165	125.4	165	100.01	165	502.13

Livelihood Protection (CALIP Part)

SL No.	Activities	PHYSICAL & FINANCIAL PROGRESS Up to April 2020								
		Unit	RDPP Target		RAWPB Target		RAWPB Achievement		Cumulative Achievement	
			(QT)	(Amount)	(QT)	(Amount)	(QT)	(Amount)	(QT)	(Amount)
1	Training on Village Forestry	Batch	2987	623.33	28	5.71	0	0	2959	575.49
2	Training on Pond Fishery	Batch	504	144.75	-	-	-	-	504	108.55
3	Advance Improved Training on Wood, Bamboo, Cane , Murta, Clay and Other products	Batch	378	538.16	-	-	-	-	378	537.44
4	Vocational Training	Batch	450	2590.8	175	953.92	118	459.13	372	1513.28
	Total		4319						4213	2734.76

Impact on Livelihood Protection

HILIP

- 95% demonstrated farmers reported that their production increased.
- 60 % farmers adopted recommended technologies.
- New command area expanded in Crop and fisheries.
- Increased involvement in poultry & livestock production.

Source: HILIP MTR report



Tower System Vegetable Demonstration



Trainee receiving kits after completing training

Impact on Livelihood Protection

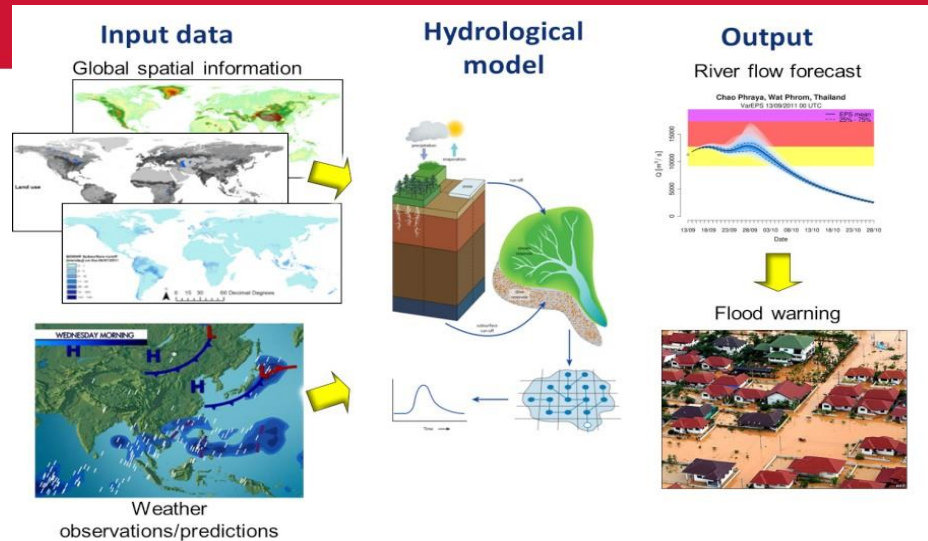
CALIP

- Mola fish culture adopted in ponds by pond fisheries trainee.
- Advanced improved products training and linkage with markets.
- More than 30% of target group diversified their income stream through self-employment and engaging in different organization.
- New skilled labor and entrepreneur developed by advanced improved and vocational training.

Capacity and Knowledge for Building Resilience

Outcomes: Enhance capacity and knowledge to contend with climate change impacts.

Outputs: FFEWS operational; Research findings on various technologies and systems are disseminated; Policy briefs advocate research findings and Climate sensitive policy dialogue to enhance frameworks.



Action Research:

Activities	Planned	progress
a) Climate change forecasting & participatory scenario development b) Assessment of the agriculture & fisheries sector and exposure to climate risk	1	90%
Analysis of the environment impacts on pond fisheries and climate change affects	1	100%
Examine the dynamics of reforestation and strengthening ecological resilience	1	RFP evaluation under process

Knowledge Management:

Activities	RDPP Target	Progress
Monitoring the performance of village protection, model village, Upazila road slope protection etc	1	90%
Pro-poor adaption pathways framework	1	0

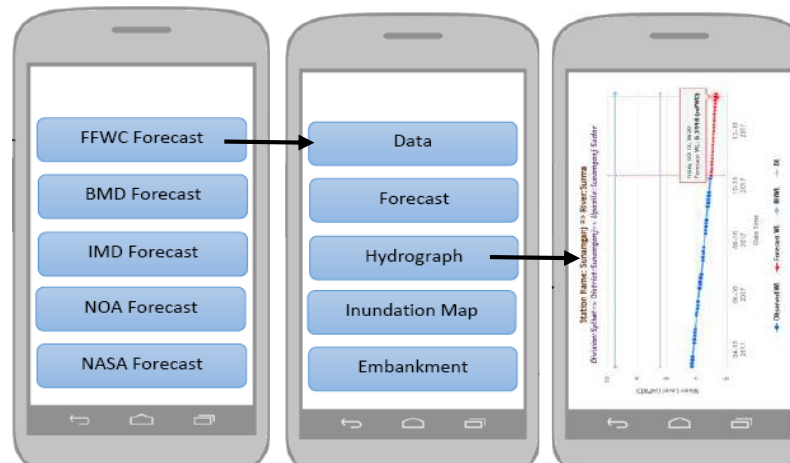
Capacity Building for Weather and Flash flood warning system :

Activities	RDPP Target	Cumulative Achievement	%
Develop rainfall dissemination system for Hoar by BMD	1	Continuing	80%
Develop FFEWS for haor region by IWFM	1	Continuing	90%
Training and KM by IWFM	1	1	100%
Performance evaluation of FFEWS models & management cost (BWDB)	1	0.8	80%
Funds for development of FFEWS by IWM	5	4.5	90%
Fast Computer system	3	3	100%

Impact

Capacity and Knowledge for Building Resilience

1. Two FFEWS model have been developed with increasing the lead time 3 to 5 days on experimental basis and evaluating its performance.
2. Danger Level for pre-monsoon period has been developed under this project.
3. Forecasting stations have been increased from 8 to 25 stations.
4. A dedicated webpage and dedicated mobile apps for flash flood forecast has been launched.
5. Embankment based Flash Flood Forecast has been tested two vulnerable Haor area at Shanir Haor and matian Haor in Sunamganj as pilot basis.



Direct Beneficiaries; Target vs. Achievement

Activities, Group and Gender Wise (HILIP Part)

Sl.No	Activities	Target as per RDPP (Nos.)	Achievement					
			Cumulative Achievement (Nos.)	% of Cumulative Achievement	Male (Nos.)	%	Female (Nos.)	%
	HILIP Part							
1	Infrastructure Development Works:							
	LCS Members of Component-2	35000	27842	80%	17477	63%	10365	37%
2	Community Resource Management:							
	a) Beel User group	13,020	11316	87%	7512	66%	3804	34%
	Sub Total	48,020	39158	82%	24989	64%	14169	36%
3	Livelihood Protection							
	1. Crop & Horticulture	43000	42785	100%	25481	60%	17304	40%
	2. Livestock	40000	41390	103%	14013	34%	27377	66%
	3. Fisheries	11000	12608	115%	6472	51%	6136	49%
	Sub Total	94,000	96783	103%	45966	47%	50817	53%
	Total of HILIP Part	142,980	135941	95%	70955	52%	64986	48%

Direct Beneficiaries; Target vs. Achievement

Activities, Group and Gender Wise (CALIP Part)

Sl.No	Activities	Target as per RDPP (Nos.)	Achievement					
			Cumulative Achievement (Nos.)	% of Cumulative Achievement	Male (Nos.)	%	Female (Nos.)	%
	CALIP Part							
1	Infrastructure Development Works:							
	LCS Members of Component-2	10600	8513	80%	5185	61%	3328	39%
	Livelihood Protection							
2	Village forestry training	59740	59177	99%	21677	37%	37500	63%
3	Pond fisheries training	5050	5050	100%	2778	55%	2272	45%
4	Advance improved training	7560	7560	100%	757	10%	6803	90%
5	Vocational training	9000	7509	83%	5954	79%	1555	21%
	Sub Total of Livelihood Protection	81350	79296	97%	31166	39%	48130	61%
	Total of CALIP Part	91950	87809	95%	36351	41%	51458	59%

Challenges

- ❖ Consecutive Flash floods reduce the construction period and hampering progress of civil works.
- ❖ Transportation of construction materials is multi-modal, time consuming and expensive during working season.
- ❖ Labours scarcity in the project area during the boro rice harvesting hamper progress.
- ❖ Bangladesh Road Transport Authority due to their shortage of staff can not issue driving license to the trainee.
- ❖ International collaboration for collecting cross boundary hydrological data is required to develop Flash Flood Early Warning System (FFEWS).
- ❖ All types of training and seminar are stopped due to COVID-19 .
- ❖ Due to devaluation and change unit rate in LGED rate schedule, activity wise internal adjustment is required.



Some Photographs of Communication Infrastructure





Boat Landing Ghat



Union Road

Community Road development



Road brings multiple socio-economic benefits to the Haor area and results a strong backbone for the agro-based economy.



After construction of road, now they save BDT.7000-8000 per acre crop production for easy, quickly and low cost transportation.

Village projection

Village Protection Work reduce the flood damage of the Communities



Every poor household in the village used to spend BDT 8-10 thousand per year to protect the homestead from the waves erosion.

Now, they are no hazard for flood or waves. homestead area has increased than before.

Photographs of Community Infrastructure-HILIP



Development of Village market

**Ramnagor
irrigation
Drain,
Jamalgonj**



Community road

Community Infrastructure

**Village
Protection
using CC
block**



**Village Protection using
Vetiver and CC block**



**Village Protection
using Vetiver**



Village Internal services



Households supported with

1. Safe water availability
- and
2. sanitation facilities



Some pictorial views : Killa Development

CALIP constructed killas (raised land) for safe keeping of Boro paddy from early flash flood event. During flash flood averagely 100 metric ton paddy were saved by each Killa



**Bogir Killa,
Baniachong, Habiganj**

**Mirandi
Haor Killa,
Austagram,
Kishoreganj**



Some pictorial views : Community Resource Management

Fish catch and
biodiversity
monitoring



Harvested fish
for marketing



Swamp tree plantation in Kishoreganj District

Impacts of Beel:

Recently land ministry denied to extend the MoUs for transferring beel to every project. But our BUG are capable to lease out beel competitive bidding.



Fish species diversity in HILIP *Beels*

Component 4: Livelihood Protection (HILIP)

Demonstration: Crop & Horticulture



Brinjal Demonstration at
Sunamganj



Sweet Gourd a Demonstration at
Sunamganj



Tomato Cultivation
Demonstration By
CIG Member,
Dharmapasha,
Sunamganj



Cauliflower
Demonstration By CIG
Member, Tahirpur,
Sunamganj
investing in rural people



Mixed fruit garden of
Kirpurnesa



Demonstration : Poultry & Livestock



Sheep Rearing and Duck Rearing demonstration at Sunamganj and Duck Ling produced in the hatchery of HILIP beneficiaries at Habiganj



Broiler rearing by CIG member at Netrokona



Goat rearing
Demonstration By CIG
Member, Sunamganj



Duck Farming by CIG
Members



Vaccination & De-worming program
of HILIP Project, Sunamganj

Vaccination
& Artificial
Insemination



Innovative
Employment/
Business
creation



Training on Sanitary Napkin

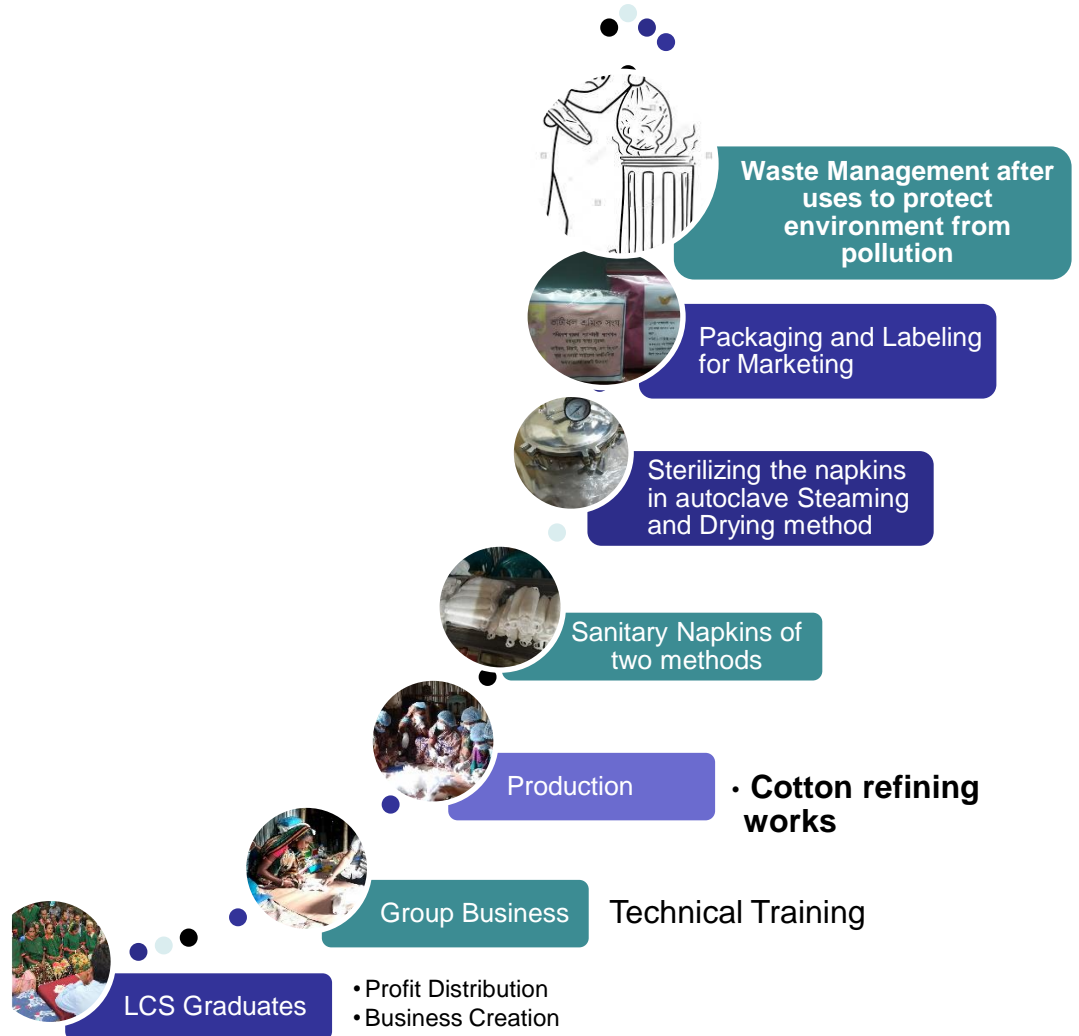


Result of artificial
insemination

Demo of Bamboo production from branch



Sanitary napkin production by LCS graduate women



- Ratibala monthly income is now about Taka 7,000 including monthly salary from POPI. In addition, she established a poultry farm in her residence with 50 chickens. Now, her income is gradually increasing from job, services as para-vet and from poultry farm.

Para-vet Ratibala a CIG Farmer under Poultry and Livestock Sector is now Self Reliant



Success Stories

Kaludeb received poly culture training and along with other ClG members, Kaludeb leased a pond of 120 decimals. They got Taka 77,700 as project support to establish poly culture.



**Poly-culture
changes the
Kaludeb life**



After one year they earned Taka 395,000 by selling 2800 kg fishes. They got taka 202,375 as net profit within one year.

Component 4: Livelihood Protection (CALIP)

Village Forestry



Training on agriculture



Distribution of Medicinal plant to beneficiaries



Swamp tree (*Hizal* and *Korch*) nursery at Netrokona district



IFAD mission meeting with BUG at Kishoreganj and visit of Mola brood pond

Vocational Training



*“To increase
and diversify sources
of income for poor
households and reduce
dependence on rice”*



Vocational Training



*Self employment after receiving
Vocational training*



Vocational Training



Opening of Motor Cycle Repairing Training, CALIP-HILIP, LGED, Sunamganj
Training on Refrigerator repairing at TMSS training center, Gajipur that visited by IFAD supervision team members and Motor Bike repairing training at Sunamganj



Motor bike training at sunamganj innuguarated by Mr. Mohsin, SE, Sylhet. and Motor cycle reparing) Practical training session at Habiganj



Opening of Motor Cycle Repairing Training, CALIP-HILIP, LGED, Sunamganj

Success Story in Vocational Training

- Uzzal sarker received 45 days long Vocational Training program on Refrigerator Repairing from HILIP.
- He received a call on the second day of his returning home for repairing a refrigerator. He earned Tk. 1200/ as remuneration.
- This was a remarkable inspiration for him. Then he started attending calls and providing home service to the clients.
- Now he has started a shop of his own in his local Upazila town Chhatak. On an average his present net income is Taka 10000/ per month.

***Uzzal Sarker -a self-reliant young
through receiving vocational
training of HILIP, LGED***



Thank you all