2015-16

Government of the People's Republic of Bangladesh

Ministry of Planning

Implementation Monitoring and Evaluation Division

PROJECT COMPLETION REPORT (PCR)

IMED 04/2003 (Revised)

UPPER SURMA-KUSHIYARA PROJECT (3rd REVISED)

(July 2001 to June 2016)

Bangladesh Water Development Board

Sylhet O & M Division, Sylhet.

March, 2017.

Government of the People's Republic of Bangladesh
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PROJECT COMPLETION REPORT: **IMED 04/2003 (Revised)**

A. PROJECT DESCRIPTION

01.	**Name of the Sub-Project**	:	Upper Surma- Kushiyara Project (3rd Revised).
02.	**Administrative Ministry/Division**	:	Ministry of Water Resources.
03.	**Executing Agency**	:	Bangladesh Water Development Board.
04.	**Location of the Project**	:	Upazilla: Sylhet Sadar, Golapganj, Beanibazar, Kanaighat, Fenchuganj & Zakiganj, District: Sylhet.
05.	**Objective of the Project**	:	

- To prevent monsoon flood for saving Boro Paddy;
- To promote expansion of HYV paddy onto lower lands by reducing flood depths, improving internal drainage, and reducing risk of early flooding;
- To reduce flood damage for homesteads and infrastructure by river floods;
- To provide irrigation facilities to net area of 5600 ha in the upper eastern part of the project area by construction of pump station at Rahimpur and installation of 3 pumps with total capacity of 7.52 m^3/s (4 units 1.88 m^3/s each) and excavation canals, construction of related structures;
- To increase cropping intensity from 127.99% to 178.87%;
- To increase annual paddy production from 111188 mt to 198014 mt (incremental paddy production 86826 mt valued Tk. 4336.69 lakh); and
- To increase employment opportunities of farm labour from 2303475 person-days to 34,10,960 person-days (incremental farm labour 11,07,485 person-days).

06. Estimated Cost :

(In lakh Taka)

	Original	**Latest Revised**
(a) Total	11106.68	14458.46
(b) Taka	7724.80	14458.46
(c) Foreign Currency	-	-
(d) Project Aid	-	-
(e) RPA	3381.88	-

07.	**Date of Approval**	**PCP**	**PP**
(a)	Original	-	16.01.2002
(b)	Latest Revised	-	09.02.2015

08.	Implementation Period	Date of Commencement	Date of Completion
(a)	Original	July, 2001	June, 2006
(b)	Latest Revised	July, 2001	June, 2016
(c)	Actual	July, 2001	June, 2016

09. Financing Arrangement (Source-wise)

9.1 Status of Loan/Grant :

a) Foreign Financing : Not Applicable

b) GOB :

(In lakh Taka)

Total amount	Loan	Grant	Cash Foreign Exchange
1	*2*	*3*	*4*
14458.46	-	14458.46	-

9.2 Utilization of Project Aid: (Source wise)

(In million)

Source (s)	Total Amount		Actual Expenditure		Unutilized Amount	
	In US $	In Local Currency	In US $	In Local Currency	In US $	In Local Currency
1	*2*	*3*	*4*	*5*	*6*	*7*
----------Not Applicable----------						

9.3 Re-imbursible Project Aid (RPA)

(In lakh Taka)

R P A Amount		Amount Spent	Amount Claimed	Amount Re-imbursed	Remarks
As per PP	As per Agreement				
1	*2*	*3*	*4*	*5*	*6*
----------Not Applicable----------					

B. IMPLEMENTATION POSITION

01. Implementation Period:

Implementation Period as per PP		Actual Implementation period	Time Over-run (% of original implementation period)	Remarks
Original	Latest Revised			
1	*2*	*3*	*4*	*5*
July, 2001 to June, 2006	July, 2001 to June, 2016	July, 2001 to June, 2016	200%	• The project got conditional approval on January, 2002 with the condition of financing of Tk. 3381.88 lakh as project aid. Till FY 2007-08, there was no donor negotiated thus an uncertainity regarding project financing occured. • Upgraded and updated feasibility study had conducted as almost whole implementation period of the original project was elapsed but the progress was not satisfactory due to lack of financing. • According to the recommendation of the feasibility study report the 1st revised DPP of the project had been approved with the inclusion of an incremental benefits of irrigation facilities in new 5000 ha area by constructing a pump house at Rahimpur area. • The new challenges about the location of pump house and the concern land acquisition come in front while site selection for pump house had been done. The locality didn't agree to the resettlement issues regarding pump house land acquisition which spent another two to three years for settling the issues. • After solving the issues regarding pump house location, another difficult issues regarding intake channel construction comes in front. The slope failure of the intake channel occurred several times which also cause settle down the local residential house-holds. It takes considerable amount of time to revise the intake channel design for better solution. • Finally, BSF prtotection against the intake channel construction

				make another delay as a portion of intake channel lies within the 'no man's land' of the Indo-Bangla boarder line which is situated along the mid line of the Kushiyara river flows besides the intake channel. These are the most important reason regarding the 200% time over-run.

02. Cost of the Project:

(In lakh Taka)

Description	Estimated Cost		Actual expenditure	Cost over-run (% of original cost)	Remarks
	Original	Latest revised			
1	*2*	*3*	*4*	*5*	*6*
TOTAL	11106.68	14458.46	13910.61	25.25 %	-
TAKA	11106.68	14458.46	13910.61	25.25 %	-
PA	-	-	-	-	-

03. Project Personnel:

Sanctioned strength as per PP	Manpower employed during execution	Status of the existing manpower			Manpower Employed	
		Manpower requirement for O&M as per pp	Existing manpower for O & M	Others	Male	Female
1	*2*	*3*	*4*	*5*	*6*	*7*
Officer (s)	-	-	6	-	-	-
Staff(s)	-	-	4	-	-	-
Total	-	-	10	-	-	-

04. Training of Project Personnel (Foreign/Local):

Field of Training /Study tour/workshop/Seminer etc.	Provision as per PP		Actual		Remarks
	Number of person	Man - months	Number of person	Man - months	
1	*2*	*3*	*4*	*5*	*6*
a. Foreign	----------Not Applicable----------				
b. Local	----------Not Applicable----------				

05. Component-wise Progress (As per latest approved PP):

Items of work (as per PP)	Unit	Target (as per PP)		Actual Progress		Reasons for deviation (±)
		Financial	Physical (Quantity)	Financial	Physical (Quantity)	
1	*2*	*3*	*4*	*5*	*6*	*7*
Revenue Component						
Petrol and Lubricant	L.S.	10.50	1 item	10.50	1 item	-
Printing and publication	L.S.	6.00	1 item	5.77	1 item	-
Stationary, seal and stamps	L.S.	2.50	1 item	2.50	1 item	-
Survey & Investigation	L.S.	22.00	1 item	21.59	1 item	-
Contingency	L.S.	15.20	1 item	15.20	1 item	-
Overhead cost	L.S.	148.50	1 item	148.50	1 item	-
Sub-total (Revenue Component) =		**204.70**	-	**204.06**	-	-
Capital Component						
Motor Cycle	Nos.	4.00	3	4.00	3	-
Photocopier	No.	1.16	1	1.16	1	-
Engeering Instrument (Leveling Instrument, Staffs, Plane Table etc.)	Nos.	3.00	3	3.00	3	-
Computer (including Fax, Printer, UPS etc.)	No.	1.03	1	1.03	1	-
Furniture	Set	1.00	1	1.00	1	-
Land Acquisition (including Stamps, duty, Registration fee etc.)	Ha	747.66	38	747.66	38	-
Construction of Pumping Station and Installation of Pumps (4 Nos.), Intake channel protection works-440 m, River Bank Protective Work- 100 m, Delivery channel protection works-50 m, Fencing of intake channel-1100 m, Construction of Operator Shed with Ansar Barrak-100 sqm.	No.	6868.00	1 (100%)	6335.51	1 (92.24%)	-
Excavation of Irrigation channel	Km.	498.00	39.50	498.00	39.50	-
Irrigation Structure	No.	624.00	20	624.00	20	-
Construction of drainage cum flushing regulator	Nos.	1675.00	16	1672.43	16	-
Excavation/Re-excavation of drainage channel	Km.	1365.41	48.50	1365.41	48.50	-
Construction/Re-section of Embakment	Km.	2207.50	143.07	2207.50	143.07	-
O&M during construction	L.S.	258.00	1 item	245.85	1 item	-
Sub-total (Capital Component) =		**14253.76**	-	**13706.55**	-	-
Grand Total =		**14458.46**	-	**13910.61**	**96.21%**	-

06. Information regarding Project Director (s):

Name &Designation with pay Scale.	Full time	Part time	Responsible for more than one project	Date of		Remarks
				Joining	Transfer	
1	*2*	*3*	*4*	*5*	*6*	*7*
Md. Quamruzzaman Superintending Engineer	-	Yes	N/A	11-04-2001	01-10-2002	-
Md. Abdus Salam Superintending Engineer	-	Yes	N/A	01-10-2002	05-05-2004	-
S.K Abdul Momin Superintending Engineer	-	Yes	N/A	05-05-2004	12-05-2004	-
Md. Abdul Quader Superintending Engineer	-	Yes	N/A	12-05-2004	30-12-2004	-
G.M. Shamsur Rahman Superintending Engineer	-	Yes	N/A	30-12-2004	19-07-2007	-
Kamal Uddin Ahmed Superintending Engineer	-	Yes	N/A	19-07-2004	19-08-2007	-
G.M. Shamsur Rahman Superintending Engineer	-	Yes	N/A	19-08-2007	06-12-2007	-
Md. Delwar Hossain Superintending Engineer	-	Yes	N/A	06-12-2007	10-12-2007	-
M.A Wadud Bhuiyan Superintending Engineer	-	Yes	N/A	10-12-2007	10-09-2008	-
Syed Ahsan Ali Superintending Engineer	-	Yes	N/A	10-09-2008	01-03-2011	-
Md. Nasir Uddin Superintending Engineer	-	Yes	N/A	01-03-2011	21-03-2011	-
Md. Abul Kalam Azad Superintending Engineer	-	Yes	N/A	21-03-2011	23-10-2013	-
Md. Nazir Ahmed Superintending Engineer	-	Yes	N/A	23-10-2013	06-11-2013	-
Md. Nasir Uddin Superintending Engineer	-	Yes	N/A	06-11-2013	11-02-2014	-
A.K.M Shamsul Karim Superintending Engineer	-	Yes	N/A	11-02-2014	30-12-2015	-
Md. Nurul Islam Sarkar Superintending Engineer	-	Yes	N/A	31-12-2015	30-06-2016	--

07. Procurement of Transport (in Nos.):

Type of transport	Number as per P.P.	Procured with date	Transferred to Transport Pool with date	Transferred to O & M with date	Condemned/ damaged with date	Remarks
1	*2*	*3*	*4*	*5*	*6*	*7*
Motor Cycle	3 Nos.	-	N/A	N/A	N/A	-

08. Procurement of Goods, Works and Consultancy Services:

08.1 Goods & Works of the Project costing above Tk. 200.00 lakh. and Consultancy above Tk. 100.00 lakh :

Description of procurement (goods/works /consultancy) as per bid document	Tender/Bid/Proposal Cost (in crore Taka)		Tender/Bid/Proposal		Date of completion of works/services and supply of goods	
	As per PP	Contracted value	Invitation date	Contract signing/ L.C opening date	As per contract	Actual
1	*2*	*3*	*4*	*5*	*6*	*7*
(a) Construction of Civil Works of Pump House and other related facilities, (b) Supplying, Installation & Commissioning of 4 Nos. of mixed flow submergible Pumps (V.T.) (Capacity 1.8 cum/sec each) along with accessories and related Electro-Mechanical Equipments, at Rahimpur in Zakiganj Upazilla of Sylhet District under Sylhet O&M Division, BWDB, Sylhet during the year 2010-11 & 2011-12.	6868	3569.04 (original) 4499.53 (revised)	26/10/10	23/06/2011	30/06/16	30/06/16
Intake channel Protection works with subsoil dewatering, shoring, RCC U-wall (simultaneously), Sheet piling & River Bank Protective Work in c/w Rahimpur Pump House in Upazilla Zakiganj of District Sylhet under Upper Surma-Kushiyara Project during the year 2013-14.		1240.02 (original) 1820.26 (revised)	08/10/13	26/01/2014	30/06/16	07/06/16
Protection of Intake channel in between EL: +13.00m (PWD) to EL: +18.00m (PWD) (410m in each side) and at mouth of Rahimpur Khal to kushiyara river (100m) of Rahimpur Pump House in Upazilla Zakigonj of District Sylhet in C/W Upper Surma-Kushiyara Project under Sylhet O&M Division, BWDB, Sylhet during the year 2014- 15.		382.48 (original) 365.83 (revised)	11/09/14	05/04/2015	30/06/16	15/05/16

8.2 Use of Project Consultant (s) (Foreign/Local):

Name of the Field	Approved man month		Actual man month utilised	Remarks
	As per PP	As per contract		
1	*2*	*3*	*4*	*5*
a) Foreign	----------Not Applicable----------			
b) Local	----------Not Applicable----------			

09. Construction/Erection/Installation Tools & Equipment:

Description of Items	Quantity (as per P.P.)	Quantity Procured with date	Transferred to O & M with date	Disposed off as per rule with date	Balance	Remarks
1	*2*	*3*	*4*	*5*	*6*	*7*
Pump(Mixed Flow Submersible Pump)	4 Nos.	-	1/07/16	N/A	Zero	-

C. FINANCIAL AND PHYSICAL PROGRAMME

01. (a) Original and revised schedule as per PP :

(In lakh Taka)

Financial Year	Financial provision & physical target as per original PP				Financial provision & physical target as per latest revised PP			
	Total	Taka	P.A.	Physical %	Total	Taka	P.A.	Physical %
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*
Year-1: FY:2001-02	50.00	50.00	-	0.45%	40.00	40.00	-	0.28%
Year-2: FY:2002-03	2161.97	2161.97	-	19.46%	274.48	274.48	-	1.90%
Year-3: FY:2003-04	3285.59	3285.59	-	29.58%	346.37	346.37	-	2.40%
Year-4: FY:2004-05	3723.70	1749.70	1974.00	33.53%	350.00	350.00	-	2.42%
Year-5: FY:2005-06	1885.42	477.54	1407.88	16.98%	491.04	491.04	-	3.40%
Year-6: FY:2006-07	-	-	-	-	14.20	14.20	-	0.10%
Year-7: FY:2007-08	-	-	-	-	323.15	323.15	-	2.24%
Year-8: FY:2008-09	-	-	-	-	1300.00	1300.00	-	8.99%
Year-9: FY:2009-10	-	-	-	-	1762.98	1762.98	-	12.19%
Year-10: FY:2010-11	-	-	-	-	998.14	998.14	-	6.90%
Year-11: FY:2011-12	-	-	-	-	1125.00	1125.00	-	7.78%
Year-12: FY:2012-13	-	-	-	-	2000.00	2000.00	-	13.83%
Year-13: FY:2013-14	-	-	-	-	2000.00	2000.00	-	13.83%
Year-14: FY:2014-15	-	-	-	-	3000.00	3000.00	-	20.75%
Year-15: FY:2015-16	-	-	-	-	433.10	433.10	-	2.99%
Total	**11106.68**	**7724.80**	**3381.88**	**100.00%**	**14458.46**	**14458.46**		**100%**

(b) Revised ADP allocation and progress:

(In lakh Taka)

Financial Year	Revised Allocation & target				Taka release	Expenditure & physical progress			
	Total	Taka	P.A.	Physical %		Total	Taka	P.A.	Physical %
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*
Year-1: FY:2001-02	40.00	40.00	-	0.28%	40.00	40.00	40.00	-	0.28%
Year-2: FY:2002-03	274.48	274.48	-	1.90%	274.48	274.48	274.48	-	1.90%
Year-3: FY:2003-04	346.37	346.37	-	2.40%	346.37	346.37	346.37	-	2.40%
Year-4: FY:2004-05	350.00	350.00	-	2.42%	350.00	350.00	350.00	-	2.42%
Year-5: FY:2005-06	491.04	491.04	-	3.40%	491.04	491.04	491.04	-	3.40%
Year-6: FY:2006-07	14.20	14.20	-	0.10%	14.20	14.20	14.20	-	0.10%
Year-7: FY:2007-08	323.15	323.15	-	2.24%	323.15	323.15	323.15	-	2.24%
Year-8: FY:2008-09	1300.00	1300.00	-	8.99%	1300.00	1300.00	1300.00	-	8.99%
Year-9: FY:2009-10	1762.98	1762.98	-	12.19%	1762.98	1762.98	1762.98	-	12.19%
Year-10: FY:2010-11	998.14	998.14	-	6.90%	998.14	998.14	998.14	-	6.90%
Year-11: FY:2011-12	1125.00	1125.00	-	7.78%	1125.00	1125.00	1125.00	-	7.78%
Year-12: FY:2012-13	2000.00	2000.00	-	13.83%	2000.00	2000.00	2000.00	-	13.83%
Year-13: FY:2013-14	2000.00	2000.00	-	13.83%	2000.00	2000.00	2000.00	-	13.83%
Year-14: FY:2014-15	3000.00	3000.00	-	20.75%	1500.00	1500.00	1500.00	-	10.37%
Year-15: FY:2015-16	433.10	433.10	-	2.99%	1400.00	1385.25	1385.25	-	9.58%
Total	**14458.46**	**14458.46**		**100%**	**13925.36**	**13910.61**	**13910.61**		**96.21%**

D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT

Objectives as per PP	Actual achievement	Reasons for shortfall, if any
• To prevent monsoon flood for saving Boro Paddy; • To promote expansion of HYV paddy onto lower lands by reducing flood depths, improving internal drainage, and reducing risk of early flooding; • To reduce flood damage for homesteads and infrastructure by river floods; • To provide irrigation facilities to net area of 5600 ha in the upper eastern part of the project area by construction of pump station at Rahimpur and installation of 3 pumps with total capacity of 7.52 m^3/s (4 units 1.88 m^3/s each) and excavation canals, construction of related structures; • To increase cropping intensity from 127.99% to 178.87%; • To increase annual paddy production from 111188 mt to 198014 mt (incremental paddy production 86826 mt valued Tk. 4336.69 lakh); and • To increase employment opportunities of farm labour from 2303475 person-days to 34,10,960 person-days (incremental farm labour 11,07,485 person-days).	• After Completion of the project Boro production increased drastically. • Internal drainage system is highly improved and there is reduction of the risk of early flooding. • Flood damage for homesteads and infrastructure by river flood is now under control. • About 5000 ha areas have been included in irrigation facilities through the construction of 39.5 km irrigation canal network. • Incremental cropping intensity, annual paddy production and employment oppprtunities will be evaluated later by BWDB's concern directorate.	According to the project goal, targeted area for the inclusion of irrigation facilities was 10,600 ha. But about 5600 ha area cannot be included in irrigation facilities as the constructed pump house & 4 Nos. installed pump cannot come into operation due to the incompleteness of intake channel. After resolving the boarder issues through JRC, the remaining works of intake channel will be carried out by Non-development Revenue budget of BWDB. That will enhance facilities the benefits already derived from the project.

E. BENEFIT ANALYSIS

01. Annual Out-put:

Items of out-put	Unit	Estimated quantity expected at full capacity	Actual quantity of out-put during the 1st year of operation at full capacity (or during, real production for newly completed project).
a) Comprehensive FCDI facilities b) Income & output (both agri. & non-agri.) increased c) Living standard of local dwellers increased	-	-Increase of cropping intensity from 127.99% to 178.87%; -Increase of annual paddy production from 111188 mt to 198014 mt (incremental paddy production 86826 mt valued Tk. 4336.69 lakh); -Enhancement of employment opportunities of farm labour from 2303475 person-days to 34,10,960 person-days (incremental farm labour 11,07,485 person-days).	Actual quantity of output will be evaluated later by BWDB's concern directorate.

02. Cost / Benefit:

Item	Estimated	Actual
(1) Benefit cost ratio of the project (i) Financial	1.67:1.00	Actual benefits will be evaluated later by BWDB's concern directorate.
(ii) Economic	2.02:1.00	
(2) Internal Rate of Return (i) Financial	FIRR : 22.60 %	
(ii) Economic	EIRR : 28.27 %	

03. Please give reasons for shortfall, if any, between the estimated and actual benefit:

According to the project goal, net areas of 10600 ha have to be irrigated on which 5600 ha areas irrigation facilities would be done thorough pump house and excavation canal and the remaining portion of 5000 ha would be irrigated through irrigation canal network. But the estimated benefit of pump house could not be turned into actual benefit because of the incompleteness of the intake channel of Rahimpur Pump Station. About 325m connections between pump house and Kushiyara River through intake channel have been constructed but the remaining portion of the construction is stopped now. This portion is situated on "No-Mans Land" of Bangladesh India Border. Joint River Comission had arraged several discussion meeting for getting the permission from India side in order to construct the intake channel fully. But finally, clear decision from India side had not received yet. Necessary steps should be taken by higher authority and JRC regarding this conflict so that completion of the remaining portion of intake channel can be commenced immediately.

F. MONITORING AND AUDITING

0.1 Monitoring:

Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	*2*	*3*	*4*
Mr. Rabindra Nath Barman Director, IMED.	01-04-2011	1) There was no major problem identified for the overall project implementation. 2) The construction of 9-vent Kakura Regulator was on-going during the inspection time. The progress of that construction work was in slow.	1) The on going 30 packages should be done within due time. The contractors must be alerted by the concern clauses of the contract agreement done with procuring entity in order to complete the work within the stipulated time. 2) 'Time over run'or Çost over run'should be avoided for the implementation of the project within the implementation period.
Nandita Sarkar, Deputy Secretary and Abu Yusuf Mohammad Rasel, Assistant Chief, MoWR	13-11-2016	The operation of pump house is not possible because of the excavation of intake channel has not been completed yet.	1) Pump house is adjacent to the border of India and Bangladesh. The position of pump house is not in place. 2) Construction of intake canal is not completed yet. This is causing severe damage to the whole procedure of the project. 3) JRC should take necessary steps regarding Intake Canal. 4) Proper maintenance of regulator and embankment should be done by all means. 5) Senior officers should monitor the project regularly.

0.2. Auditing during and after Implementation:

2.1. Internal Audit:

Period of Audit	Date of submission of Audit Report	Major findings/ objections	Whether objections Resolved or not.
1	*2*	*3*	*4*
-	-	-	-
-	-	-	-
-	-	-	-

2.2. External Audit:

Audit period	Date of submission of Audit Report	Major findings/ objections	Whether objections Resolved or not.
1	*2*	*3*	*4*
2009-10	31-05-2011	M.S Bar of 9-vent Kakura regulator have been used without testing of tensile strength	Yes (Resolved)

G. DESCRIPTIVE REPORT

1. General Observations/Remarks of the Project on:

1.1 Background

Attainment of food grain self-sufficiency and food security remains the stated objectives of the national food policy and strategies in Bangladesh. This will provide daily nutritious diet of the people, generate rural employment and enhance economic uplift of entire population through alleviation of poverty. Hence the govt. usually set the target to achieve self-sufficiency in food grain by increasing its productivity in the entire successive term plan since 1973. This goal has to be attained mainly through the effective restoration of potential efficiency of existing facilities as well as rapid expansion of irrigable area and improvement of agricultural support services. The issue has been given high priority in the ongoing Fifth Five year Plan.

1.2 Justification/Adequacy

The project is scheduled for commencement in 2001-2002 during the Fifth Five Year Plan period and proposed to be completed by 2005-2006. The Fifth Five Year Plan has the following national level objectives:

a. Allevation of poverty through accelerated economic growth (on an average 7% per amum) during the plan period to bring about a noticeable improvement in the standard of living of citizens by raising their level of income and ensuring adequate supply of basic needs.

b. Generation of substantial employment opportunities and increase in productivity through an optimal choice of the traditional labour intensive and new capital intensive technologies.

c. Attainment of food production beyond the self-sufficiency level in the shortest possible time and higher production of diversified high valued export goods;

d. Promotion and diversification of high value-added production for exports;

e. Human resources development with emphasis on compulsory primary education and vocational training;

f. Development of necessary infrastructure, utilities and other service needed to promote, growth, particularly in the private sectore.

1.3 Objectives

Main objective of the project is to provide flood control and drainage facilities to a gross area of 49,200 ha. (net cultivable area is 33,600 ha) and irrigation facilities to 5,600 ha. In addition due to implementation of project:

- To reduce flood damage to monsoon and Boro paddy;
- To promote expansion of HYV paddy on lower lands by reducing flood depths on these lands, improving internal drainage and reducing risk of early flooding.
- To reduce flood damage to homesteads and infrastructure by river floods;

- To provide irrigation facilities to met area of 5,600 ha. in the upper eastern part of the project area by construction of a pump station at Rahimpur and installation of 4 pumps with total capacity of

  7.52m^3/s (4 units 1.88 m^3/s each) and excavation canals, construction of related structures;
- To increase cropping intensily from 127.99% to 178.87%;
- To increase annual paddy production from 86873.45 mt. to 156731.00 mt. (incremental paddy production 69857.55 mt valued about Tk. 4,497.43 lakh);

1.4 Project revision with reasons:

- **Reason Behind the 1st revision:**
  During the commencement of the project total estimated cost was Tk.11106.68 Lakh including project aid of Tk 3381.88 lakh which was proposed to be lined up for financing from potential donor. But-to-date no donor was finally negotiated for project financing. Meanwhile the project execution carried on only through GOB finance. So the DPP had to be revised.
- **Reason Behind the 2nd Revision:**
  The 2nd revised DPP of Upper Surma-Kushiyara project had been prepared in the light of the report of the technical committee and according to the decision taken in the meeting held on 05.11.2012. Technical committee proposed some measures to be included and excluded in the 2nd revised DPP.
- **Reason Behind 3rd Revision:**
  The 3rd revised RDPP had been prepared in the light of revised cost of pump house and intake channel. In these circumstances the proposed 3rd revised RDPP had been prepared with total cost of Tk. 14458.46 lakh, which is 9.95% higher than the approved 2nd revised DPP.

2. Rationale of the project in respect of Concept, Design, Location and Timing.

In conformity with the national objectives and targets describe above the "Upper Surma-Kushiyara Project" has been taken up for implementation. Upper Surma-Kushiyara Project is situated in Upazillas Sylhet Sadar, Jakigonj, Kanaighat, Beani Bazar, Golapgonj and Fenchugonj under the district of sylhet.

The Barak River is about 4000 km. long and has a drainage basin of 20,263 km^2 which is located in India. The upper part of the basin is hilly with mountains reaching 3000 m above sea level. The river descends to about 30m PWD in the flood plain before it enters Bangladesh at Amalshid, where it bifurcates into the Surma to the North and the kushiyara to the south. The Surma and Kushiyara rivers which flow on the higher ridges, define the natural boundary of the project basin. As the interior part of the basin is below the banks of the rivers, the rivers dominate the flooding and also control drainage from the project area. In pre-project condition peoples of the project area had experienced early flooding, drainage congestion during pre-monsoon and monsoon time and also suffered from severe droughts during the dry season.

The mean monthly discharges in the Surma River recorded at Kanaighat range from a 2.7 m^3/s minimum in March to a 1960.3 m^3 /s maximum in August. On the other hand Kushiyara River mean monthly discharges recorded at sheola range from a 37.0 m^3/s minimum in March to a 2188.1 m^3/s maximum in August. Dry season flow of the Surma River recorded at Kanaighat is too low to be considered for irrigation development (minimum daily 2.7 m^3/s). Therefore, the Kushiyara River,

which has the lowest guaranteed flow of 17.78 m^3/s is the only potential surface water source for irrigation during winter season. So the project is mandatory for flood control, drainage and irrigation.

3. Brief description on planning and financing of the project and its applicability.

- **Project Identification**: The main problems of the project area are floods and seasonal inundation over a major part of the area. Flooding of crops during the pre-moonsson and the monsoon seasons causes yield reduction and limits the cropped area to the higer lands. In addition to the losses in agriculture, flood causes substantial damage to the homesteads and raods. Flood embankments have already been constructed but the area continues to be flooded through open khals. This encourages farmers to cut the embankments to introduce silt onto the arable land and to infill the low beel areas. This situation affects fisheries and causes drainage congestion, which magnifies the flood risk. Also, during the post monsoon, the beel and low lying paddy field becomes totally dry due to the rapid drain out of the internal canal area. Therefore, the farmer didin't grow the paddy due to the lack of water which encourage the local community to submit there demand to the authority.

- **Project Preparation**

  During Study under flood Action plan (FAP-6) two major concepts were devepoled which are as follows:

  Alternative (1): Flood control and Drainage Improvement: A project that includes elements of full flood protection in the upper part of the project area and partial flood protection in the lower part as well as improvement of internal damage.

  Alternative(2): Flood Control, Drainage Improvement and Irrigation: A project that includes elements of full flood protection in the upper part of the project area, partial flood protection in the lower part, as well as improvement of internal damage and irrigation to 5600 ha in the upper of part of the project area.

  Considering the cost estimate and investment worth of both the alternatives, the second alternative had been recommended and accordingly project had been prepared for implementation.

- **Appraisal:**

  After the completion of the project the project will provide flood control and drainage facilities to a gross area of 53820 ha. (net cultivable area is 35,600 ha.) and irrigation facilities to 5600 ha. After the implementation of project,

  - It will reduce flood damage to monsoon and Boro Paddy.
  - It will promote expansion of HYV onto lower lands by reducing flood depths on these lands, improving internal damage and reducing risk of early flooding.
  - It will reduce flood damage to homesteads and infrastructure by river floods.
  - It will increase cropping intensity from 127.99% to 178.87%.
  - Estimated FIRR & EIRR of the project are 22.60% and 28.27% respectively.

- **Credit Negotiation:** No.
- **Credit Agreement:** No.
- **Credit Effectiveness:** No.
- **Loan Disbursement:** No.
- **Loan Conditionalities:** No.
- **Project Approval:** Original project was approved in 16.01.2002, 1st revised DPP was approved in 28.01.2008, 2nd revised DPP was approved in 10.09.2013 and 3rd revised DPP was approved in 09.02.2015.
- Others (if any)

4. Analysis of the Post-Implementation situation and result of the project:

4.1 Whether the beneficiaries of the project have clear knowledge about the Target/ Objectives of the project- **Yes.**

4.2 Programme for use of created-facilities of the project- **Yes**

4.3 O & M programme of the project - **Yes**

4.4 Impact of the project.

4.4.1 Direct: Increase of agriculture production, Reduction the risk of damage due to flood etc.

4.4.2 Indirect: Allevation of poverty, empowerment of women etc.

4.5 Transfer of Technology and Institutional Building through the project- **No.**

4.6 Employment generation through the project- **Yes**

4.7 Possibility of Self employment- **Yes**

4.8 Possibility of women-employment opportunity- **Yes**

4.9 Women's participation in development- **Yes**

4.10 Probable Impact on Socio-Economic activity- **Yes**

4.11 Impact on environment- **No.**

4.12 Sustainability of the project- **Yes**

4.13 Contribution to poverty alleviation/reduction- **Yes**

4.14 Opinion of the public representatives, local elite, local administration, teachers, religious leaders, women's representatives etc.- **Yes**

4.15 Contribution of Micro-credit programmes and Comments on overlapping with any NGO activities- No.

5. ***Problems encountered during Implementation (with duration & steps taken to remove those)***

5.1 Project Management- **No**
5.2 Project Director- **No**
5.3 Land Acquisition- **Yes**
5.4 Procurement-**No**
5.5 Consultancy-**N/A**
5.6 Contractor-**Yes**
5.7 Manpower-**Yes**
5.8 law & Order-**No**
5.9 Natural clamity-**Yes**
5.10 Project financing, allocation and release.-**Yes**
5.11 Design formulation/ approval-**Yes**
5.12 Project aid disbursement and re-imbursment-**N/A**
5.13 Mission of the development partners-**N/A**
5.14 Time & Cost Over-run-**Yes**
5.15 Project Supervision/Inspection-**No**
5.16 Delay in Decision-**No**
5.17 Transport-**No**
5.18 Training-**N/A**
5.19 Approval-**No**
5.20 Others.**N/A**

6. Remarks & Recommendations of the Project Director:

The remaining portions of the intake channel have to be completed immediately in order to use the installed 4 Nos. pump successfully. In this regard quick initiative from the JRC will make the situation favourable with respect to the problems of constructing permanent structures within the no man's land of Indo-Bangla transboundary.

23.03.17

(Md. Sirajul Islam)
Executive Engineer
Sylhet O&M Division
BWDB, Sylhet.

Signature of the Project Director/Manager

(Md. Nurul Islam Sarker)
Superintending Engineer.
Sylhet O & M Circle.
BWDB, Sylhet

7. Remarks/Comments of Agency Head

Implementation of this project has improved drainage and irrigation facilities in the project area as per project objectives. A tiny portion of intake channel works couldn't be completed on no mans land due to border issues. Upon resolving the border issues through JRC, BWDB will finish the incomplete works. The irrigation facilities could be extended for further 5600 ha area approximately through infrastructures constructed under this project.

Date : .....

Signature and Seal

(Md. Jahangir Kabir)
Director General
BWDB, Dhaka.

8. Remarks/Comments of the officer in- charge of the Ministry/Division

Date :

Signature and Seal