

BANGLADESH WATER DEVELOPMENT BOARD



Project Completion Report IMED-04/2003 (Revised) of

Southwest Area Integrated Water Resources Planning
and Management Project-2nd Phase (2nd Revision).

[ADB Loan No.3302-BAN(SF) & Dutch Grant No.0441-BAN(EF)]

Project Management Office
Southwest Area Integrated Water Resources Planning &
Management Project-2nd Phase
BWDB, Dhaka.

Government of the People's Republic of Bangladesh
Ministry of Planning
Implementation Monitoring and Evaluation Division

PROJECT COMPLETION REPORT: IMED 04/2003 (Revised)

A. PROJECT DESCRIPTION:

01. Name of the Project : Southwest Area Integrated Water Resources Planning and Management Project-2nd Phase (2nd Revision).
02. Administrative Ministry/Division : Ministry of Water Resources (MoWR).
03. Executing Agency : Bangladesh Water Development Board (BWDB).
04. Location of the Project :

Division	District	Upazila
Khulna	Narail	Narail Sadar
	Jessore	Jhikargacha, Chowgacha and Sharsa
	Magura	Magura Sadar & Shalikha
Dhaka	Gopalganj	Kashiani, Tungipara & Kotalipara
	Faridpur	Nagarkanda, Faridpur Sadar, Alfradanga, Boalmari, Sadarpur, Madhukhali & Bhanga.
	Rajbari	Rajbari Sadar, Baliakandi & Kalukhali

05. Objective of the Project :

The overall objective of the project is to enhance economic growth and to reduce poverty in the rural areas of selected districts (Magura, Faridpur, Rajbari and Gopalganj) in the Southwest region of Bangladesh. Its intermediate objective is to enhance and sustain water security and livelihoods of rural people within the hydrological boundaries defined by existing but underperforming and Flood damage structures & embankment systems.

Immediate objective A: Participatory Integrated Water Resources Management Plans (IWMP) for selected hydrological units;

Immediate objective B: Enhanced livelihoods and livelihood opportunities impacted by IWMP as a result of upgraded infrastructures, increased user participation and improved, decentralized service delivery, and

Immediate objective C: Strengthening institutional capacity for planning, implementing, operating, maintaining and monitoring demand driven participatory, integrated water resources management plans.

06. Estimated Cost :

Description	Original	1 st Revised	(In lakh Taka)
			Latest Revised (2 nd)
(a) Total	48210.00	52150.00	51531.84
(b) Taka (BDT)	7858.13	8776.60	8689.34
(c) Foreign Currency	-	-	-
(d) Project Aid	40351.87	43373.40	42842.50
(e) RPA	35520.28	38745.72	38324.82

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07. Date of Approval	:	PCP	PP
(a) Original	:	-	25/08/2015
(b) Inter-Item Cost Adjustment	:	-	05/05/2019
(c) 1 st Revised	:	-	01/11/2021
(b) Latest Revised	:	-	30/03/2023

08. Implementation Period :

	Date of Commencement	Date of Completion
(a) Original	July 2015	June 2022
(b) Inter-item Cost Adjustment	July 2015	June 2022
(c) 1 st Revised	July 2015	June 2023
(d) Latest Revised (2 nd)	July 2015	June 2023
(e) Actual	July 2015	June 2023

09. Financing Arrangement (Source-wise):

9.1 Status of Loan/Grant

a) Foreign Financing:

Source (s)	Currency as per Agreement in US \$	Amount in US \$ (Million)	Nature (Loan/Grant / supplier's credit)	Date of Agreement	Date of Effectiveness	Date of Closing	
						Original	Revised
1	2	3	4	5	6	7	8
Asian Development Bank [Loan No: 3302-BAN (SF)]	USD	45.00	Loan	13/12/2015	06/01/2016	31 st December 2022	31 st December 2023
Government of The Netherlands [Grant No: 0441-BAN]	USD	7.00	Grant	13/12/2015	06/01/2016	31 st December 2022	31 st December 2023

b) GOB:

(In lakh Taka)

Total amount	Loan	Grant	Cash Foreign Exchange
1	2	3	4
8689.34	-	8689.34	

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=(2-4)	7=(3-5)
Asian Development Bank	44.53	3700.375	41.3512	3632.12	3.1783	68.255
Government of The Netherlands	7.00	583.872	6.9276	577.53	0.0727	6.340

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- a. At the time of loan signing, the loan amount of ADB portion was SDR 32265000.00 which was equivalent of US\$ 45.00 million. But at present ADB loan portion becomes US\$ 44.36 million because of SDR rate decreased.
- b. In 2nd revised DPP the \$ conversion rate was considered as flat rate \$1=83.4104 BDT, but actually from the very beginning to the end of the project the USD conversion rates were different.

9.3 Reimbursable Project Aid (RPA) :

(In lakh Taka)

RPA Amount		Amount Spent	Amount Claimed	Amount Re-imbursed	Remarks
As per PP	As per Agreement				
1	2	3	4	5	6
38324.79	38745.72	37631.00	37631.00	37631.00	

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 (2 nd)			
1	2	3	4	5
July 2015 ~ June 2022	July 2015 ~ June 2023	July 2015 ~ June 2023	14.29%	Due to COVID-19, the implementation of the work was hampered. Additionally, because of the sudden death of the Project Director, a one-year extension was necessary for 2022-23

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02. Cost of the Project:

(In lakh Taka)

Description	Estimated Cost		Actual expenditure	Cost over-run (% of original cost)	Remarks
	Original	Latest revised (2 nd)			
1	2	3	4	5	6
TOTAL	48210.00	51531.84	50559.77	4.87%	1. Basically when the dollar exchange rate increased against BDT, the amount of PA increased in Equivalent BDT, which the USD remain fixed. 2. This additional BDT was used for increased quantity of different intervention, VAT and IT. 3. To meet up the increased amount of matching fund with respect to equivalent PA in BDT the cost overrun happened.
TAKA	7858.13	8689.34	8463.25	7.70%	
PA	40351.87	42842.50	42096.52	4.32%	

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		
1	2	3	4	5	Male	Female
Officer (s) = 42	36	For O&M activities the respective office of Executive Engineer of the project area will be anguse with their existing manpower.	O&M of this project will be carried out by existing manpower of BWDB.	-	36	-
Staff (s) = 31	28				24	04
Total = 73	64				60	04

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

Field of Training /Study tour/workshop/Seminar 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					
Study Tour (Thailand and Vietnam)	15	-	15	-	
Study Tour (Thailand and	12	-	12	-	

Field of Training /Study tour/workshop/ Seminar etc.	Provision as per PP		Actual		Remarks
	Number of person	Man - months	Number of person	Man - months	
1	2	3	4	5	6
Vietnam)					
		Total (a)	27		
b. Local					
WMO Training	87,640		85,799		
Staff	1,546		1,546		
Total	89,186	Total (b)	87,345		

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
a) Revenue component						
Pay to Establishment	Item	849.92	1 Item	821.59	1 Item	As per work done
Travelling & Daily Allowances	Item	324.74	1 Item	309.59	1 Item	As per work done
Office Rent at Faridpur including Garage	Item	72.00	1 Item	72.00	1 Item	As per work done
VAT, IT and Other Taxes	Item	584.20	1 Item	562.58	1 Item	As per work done
Telephone	Item	14.40	1 Item	12.37	1 Item	As per work done
Vehicle Registration & Insurance Fees	Item	30.00	1 Item	29.60	1 Item	As per work done
Water	Item	15.36	1 Item	15.20	1 Item	As per work done
Electricity	Item	38.40	1 Item	34.37	1 Item	As per work done
CNG for Vehicle (PMO Dhaka)	Item	43.32	1 Item	41.38	1 Item	As per work done
Petrol & Lubricant (PMO & SMOs)	Item	292.62	1 Item	285.91	1 Item	As per work done
Printing & Publications	Item	75.00	1 Item	54.22	1 Item	As per work done
Office Supplies & Stationaries	Item	115.36	1 Item	97.86	1 Item	As per work done
Other Expenditure including advertisement	Item	45.00	1 Item	40.43	1 Item	As per work done
Training & Capacity Building						As per work done

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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
a) WMO Training	Item	4,079.27	1 Item	4,029.69	1 Item	As per work done
b) Staff Training	Item	578.00	1 Item	379.74	1 Item	As per work done
Consultancy Services						As per work done
a) Consulting Firm (IWMP & Implementation)	Item	8,395.86	1 Item	8,317.71	1 Item	As per work done
b) Upgrading of Digitalized existing MIS & maintenance	Item	168.00	1 Item	166.72	1 Item	As per work done
Honorarium (for TEC, PEC, PSC & other meetings)	Item	40.00	1 Item	30.19	1 Item	As per work done
Testing Fees	Item	68.67	1 Item	62.79	1 Item	As per work done
Survey, Investigation and Data collection	Item	331.00	1 Item	295.34	1 Item	As per work done
Social Mobilization	Item	4,135.52	1 Item	4,026.34	1 Item	As per work done
Vehicle O&M	Item	130.92	1 Item	125.29	1 Item	As per work done
Furniture O&M	Item	36.72	1 Item	30.98	1 Item	As per work done
Computer & Office Equipment O&M	Item	63.68	1 Item	54.56	1 Item	As per work done
Others	Item	86.36	1 Item	86.33	1 Item	As per work done
Sub Total of Revenue Component (a)		20614.32		19,982.78		
b) Capital Component						
a. 4WD Jeep (6 Nos)	Nos	423.16	6	423.16	6	
b. Pickup & Micro (12 Nos)	Nos	251.43	12	251.43	12	
c. Motorcycle (80 Nos)	Nos.	105.38	80	105.38	80	
Equipment and Goods	Item	687.92	1 Item	644.16	1 Item	No Deviation in physical quantity
Acquisition/Purchase of Land						
a. Land Acquisition	Ha	411.14	9.94	252.77	2.75	As per required field condition
b. Resettlement	Item	71.43	1 Item	44.36	1 Item	As per required field condition

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
Construction of Civil works						
Water Control Structures & Other Structures	Nos	10,618.40	43 Nos	10,560.54	43 Nos	
Embankment						
(a) Embankment Resectioning	km	782.73	28.21	782.73	28.21	
(a) Embankment (Retired)	km	342.32	2.242	342.32	2.242	
Re-excavation of Irrigation Canal/ Drainage Khal	km	6,511.52	344.402	6,500.37	344.402	
Bank Protective Works	km	4,434.60	2.038	4,428.69	2.038	
PMO building at Faridpur	Item	562.54	1 Item	549.99	1 Item	
Inspection Bungalow at Jessore	Item	332.60	1 Item	322.67	1 Item	
Bituminous Carpeting Road	km	1,892.50	32.737	1,892.13	32.737	
O&M During Construction	Item	473.40	1 Item	473.33	1 Item	
Improvement of Water Management System under NSP & CBSP	Item	419.40	1 Item	412.32	1 Item	
CD SD		450.80		450.64		
Sub Total of Capital Component (b)		28771.27		28,436.99		
Sub-total (a+b)		49385.59		48,419.77		
(c) Physical Contingency		100.00		-		
(d) Price Contingency		100.00		-		
(e) ADB & GON Service Charge		2146.25		2,140.00		
Grand Total (a+b+c+d+e)		51531.84	100.00%	50,559.77	100.00%	

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. Kamalur Rahman Talukder Addl. Chief Engineer Pay Scale: 56500-74400/-	Full time	-	-	01-07-2015	25.01.2016	
Akhil Kumar Biswas Superintending Engineer/SE Pay Scale: 50000-71200/-			-	25-01-2016	11-02-2016	Additional charge given by the BWDB

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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
Anisul Islam (i) Superintending Engineer/SE Pay Scale: 50000-71200/- (ii) Addl. Chief Engineer Pay Scale: 56500-74400/-	Full time	- -	- -	(i) 11-02-2016 (ii) 22-01-2019	(i) 21-01-2019 (ii) 14-12-2020	
Md. Shamsuddoha Addl. Chief Engineer Pay Scale: 56500-74400/-			-	15-12-2020	28-01-2021	Additional charge given by the BWDB
AKM Tahmidul Islam Superintending Engineer/SE Pay Scale: 50000-71200/-	Full time		-	28-01-2021	14-09-2021	
Abu Sale Mohammad Tofahel Chowdhury Executive Engineer Pay Scale: 43000-69850/-			-	14-09-2021	19-09-2021	Additional charge given by the BWDB
Md. Abul Hossain Addl. Chief Engineer Pay Scale: 56500-74400/-	Full time		-	19-09-2021	23-03-2022	
Sayed Ahammad Superintending Engineer/SE Pay Scale: 50000-71200/-			-	23.03.2022	30.03.2022	Additional charge given by the BWDB
Md. Abu Baker Siddique Bhuayan Superintending Engineer/SE Pay Scale: 50000-71200/-	Full time		-	30.03.2022	Till date	

07. Procurement of Transport (in Nos) :

Type of transport	Numbe r as per P.P.	Procured with date	Transferred to Transport Pool with date	Transferred to O & M with date	Condemn ed/damag ed with date	Remarks
1	2	3	4	5	6	7
Car						
Jeep	6	DPM for Progoti 2018				Enclosed in Annexure-1
Microbus						
Minibus						
Bus						
Pick-up	12	ICB, June, 2017				Enclosed in Annexure-1
Truck						
Motor Cycle	80	NCB, June, 2017				Enclosed in Annexure-1

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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
By-cycle						
Speed Boat						
Launch						
Others with name						

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 lakh 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
Procurement of Institutional Strengthening and Project Management Consultants (ISPMC) under SWAIWRPMP-AF	8888.50	8888.50	11-Apr-16	31-May-17	30-Jun-23	30-Jun-23
Bituminous Carpeting Road from km. 0.000 to km 6.300 during the Year-2019-20.	447.50	447.00	22-Oct-19	16-Feb-20	30-Feb-22	30-Feb-22
Bituminous Carpeting Road from km. 6.300 to km 12.600 during the Year-2019-20.	448.50	448.15	22-Oct-19	16-Feb-20	30-Feb-22	30-Feb-22
Repair of Belgachi 3-vent regulator, Rupsha 1-vent regulator and protective work at U/S and D/S of existing Rajapur 8-vent regulator in Horai River Sub-Project Under Rajbari O & M Division	375.31	375.31	06-Nov-19	26-Jan-20	30-Nov-22	30-Nov-22
Strengthening of loose aprons of Pateshori Regulator (10-V x 1.800 M) in CBSP	419.40	419.38	22-March-20	10-Sep-20	30-May-23	30-May-23

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Construction of Dohor pachuria Water Control Structure WCS Over Horai River Under Rajbari O&M Divisio	637.50	637.12	17-May-20	15-Sep-20	30-June-23	28-Feb-23
Construction of 10 nos surface pipe outlet Bamonkhali flood control embankment	225.65	225.69	18-Aug-20	5-Nov-20	30-Jun-22	30-Jun-22
Construction of Amuria WCS-03 (3vent-2m x1.80m) over Bornali khal	463.20	466.80	07-Oct-20	3-Mar-21	30-Jun-22	30-Jun-22
Construction of Uzgram Regulator (2-Vent-1.50m×1.80m) over Uzgram Khal at Km 0.390	234.50	234.50	14-Sep-20	4-Mar-21	30-Apr-23	30-Apr-23
Construction of Bridge over Hashemdia khal at km 4.360	222.00	221.01	29-Nov-20	15-Mar-21	31-May-23	31-May-23
Construction of Aronggacha check structure-01 (3V-2.00m×1.80m) over Sholua Khal at Km 2.525 Up: Maizpara, Upazila: Narail (Sadar)	412.21	412.21	13-Oct-20	24-Mar-21	30-Apr-23	30-Apr-23
Construction of Aronggacha check structure-02 (3V-2.00m×1.80m) over Bamonkhali Khal	408.64	408.64	13-Oct-20	24-Mar-21	30-Apr-23	30-Apr-23
Constrction of Herring Bone Bond (HBB) Road From Km. 17.400 to Km. 30.010 = 12.610 Km. on Bamonkhali-Bornali	462.00	461.95	25-Apr-21	16-Nov-21	1-May-23	1-May-23
Herring Bone Bond in between km 23.700 to 27,100 : 3.382 Km in c/w Alfadanga-Boalrnari Sub-project	210.50	210.05	17-Nov-21	17-Feb-22	30-May-23	30-May-23
River Bank Protective Work at Char Bhatpara (Kapalipara) along the Left Bank of Madhumati River from Km. (-) 0.160 to Km. 0.090 = 0. 250 Km in C/W "Purulia Char Bhatpara Sub-Project	875.00	874.52	30-Jan-22	26-May-22	10-Apr-23	10-Apr-23

Supply of 6 No RTK GPS (Base and Rover) including necessary accessories & operating software	267.00	258.89	24-Apr-23	29-May-23	26-Jun-23	26-Jun-23
Construction of Joyjhap Regulator (5V-1.50M x 1.80M) at KM 0.495 of Kuchiamara Khal-01 in C/W Beel Sukunia Sub-Project under Southwest Area Integrated Water Resources Planning & Management Project 2nd Phase under Faridpur O & M Division during 2018-19 & 2019-20.	612.00	611.99	30-Jan-2021	25-Jun-21	25-Jun-22	25-Jun-22
Re-excavation of 7.000 km Fukurhat Khal from km 0.000 to km 7.000 in c/w Chatler-Fakurhat Sub-Project under SAIWRPMP-AF during the year 2017-2018.	321.57	321.57	18-Feb-2018	22-May-18	04-Apr-19	31-Mrch-19
Re-excavation of 7.500km Fukurhat Khal from km 7.000 to km 14.500 in c/w Chatler-Fakurhat Sub-Project under SAIWRPMP-AF during the year 2017-2018.	230.00	262.08	25-Feb-2018	11-June-18	12-June-19	12-June-19
Re-excavation of 16.900 km Baliahati Khal from km. 0.000 to km. 16.900 in c/w Chatler-Fakurhat Sub-Project under SAIWRPMP-AF during the year 2017-18.	567.05	567.05	24-Jun-18	9-Sep-18	6-Aug-19	16-Jun-20
Re-excavation of Mora Kumar River km. 8.680 to km. 13.185 = 4.505 km (Rajbari Portion) under Horai River Sub-Project in c/w Southwest Area Integrated Water Resources Planning &	224.00	224.00	08-Aug-18	29-Nov-18	31-May-20	30-Jun-20

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Re-excavation of Horai River from km 25.000 to km 32.830 = 7.830 km (Belgachi Regulator towards Rajapur Regulator) of Horai River Sub-project in c/w "Southwest Area Integrated Water Resources Planning and Management Project-Additional Financial" in Upazilla-Rajbari Sadar Dist. Rajbari under Rajbari O&M Division, BWDB, Rajbari during the year 2018-2019.	224.25	224.25	14-Aug-18	29-Nov-18	20-Apr-20	20-Apr-20
Re-sectioning of 0.792km embankment from km. 23.700 to km. 24.492 & Construction of 1.450km retired embankment from km. 24.492/0.000 to km. 26.900/1.450 in c/w Alfadanga-Boalmari Sub-Project under SAIWRPMP-AF during the year 2017-2018 & 2018-2019.	342.32	342.32	25-Jul-18	18-Sep-18	30-Jun-20	30-Jun-20
Construction of Tita Regulator (2v-1.50m×1.80m) at Km. 26.900 in Alfadanga-Boalmari Sub-Project, Upzila- Alfadanga, Dist.-Faridpur under Specialized Division, BWDB, Faridpur During The Year 2018-19.	376.45	376.45	18-Dec-18	5-Mar-19	6-Mar-21	6-Mar-21
Re-excavation of Kanuda Khal from km 0.000 to km. 12.700 = 12.700 km in C/W KalidasKhali-Arpar sub Project	286.00	286.00	18-Apr-18	25-Jun-18	20-Jun-19	20-Jun-19
Re-sectioning of Flood Control Embankment from Ch. Km. 0.000 to km.12.600=12.600 Km. in Kalidas-Khali-Arpara sub Project under SWAIWRPMP-AF during the year 2017-2018 & 2018-19	286.64	286.64	7-Mar-18	25-Jun-18	20-Jun-19	20-Jun-22

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Construction of Boyra Regulator (2v- 1.80m x 3.00m) in C/W KalidasKhali-Arpar Sub Project under South-West Area Integrated Water Resources Planning and Management Project (SWAIWRPMP) Phase-2 Under Magura O&M Division BWDB during the Year-2018-19.	283.62	283.62	5-Feb-19	23-Apr-19	21-Jun-20	21-Jun-21
Construction of Naropoti Water Control Structure (WCS) Over Kuchiamora Khal At ch.km. 3.550 in C/W Kalidaskhali-Arpara Sub-Project, under South-West Area Water Resources Planning and Management Project (SWAIWRPMP) Phase-2 Under Magura O&M Division, BWDB Magura, during the Year 2019-20.	322.10	322.10	27-Nov-19	3-Feb-20	20-Jun-21	20-Jun-21
Strengthening of River Bank Protective Work at Daxmin Char Bhatpara Along the L/B of Madhumati River from km 0.460 to km 0.878 total 418.00 m in C/W Purulia Char Bhatpara Sub-Project under South West Area Integrated Water Resources Planning and Management Project-AF 2nd Phase at Kashiani Upazilla in District- Gopalganj under Gopalganj O&M Division BWDB Gopalganj during the FY of 2020-2021	983.00	982.26	30-Nov-20	31-Mar-21	12-Jun-22	30-Apr-22
Strengthening of River Bank Protective Work at Daxmin Char	734.00	733.53	30-Nov-20	31-Mar-21	12-Jun-22	30-Apr-22

Bhatpara Along the L/B of Madhumati River from km 0.090 to km 0.390 total 300.00 m in C/W Purulia Char Bhatpara Sub-Project under South West Area Integrated Water Resources Planning and Management Project-AF 2nd Phase at Kashiani Upazilla in District- Gopalganj under Gopalganj O&M Division BWDB Gopalganj during the FY of 2020-2021.						
River Bank Protection work at Daxmin Char Bhatpara to Village Joybangla along the Left Bank of Madhumati River from km. 0.878 to km 1.228 total 350 m under Southwest Area Integrated Water Resources Planning & Management Project-2nd Phase at Upazila-Kashiani District-Gopalganj under Gopalganj O & M Division BWDB Gopalganj during the year 2017-2018.	665.50	665.50	16-Apr-18	20-Jun-18	30-Dec-19	30-Dec-19
River Bank Protection work at Daxmin Char Bhatpara to Village Joybangla along the Left Bank of Madhumati River from km. 1.228 to km 1.578 total 350 m under Southwest Area Integrated Water Resources Planning & Management Project-2nd Phase at Upazila-Kashiani District-Gopalganj under Gopalganj O & M Division BWDB Gopalganj during the year 2017-2018.	619.58	619.58	16-Apr-18	12-Jun-18	30-Dec-19	30-Dec-19
River Bank Protection work at Daxmin Char Bhatpara to Village	563.13	563.13	16-Apr-18	12-Jun-18	20-May-19	30-Dec-19

Joybanga along the Left Bank of Madhumati River from km. 1.578 to km 1.878 total 300 m under Southwest Area Integrated Water Resources Planning & Management Project-2nd Phase						
Re-excavation of 8.477 km Bornali Khal from km 0.023 to km. 8.500 in C/W South-West Area Water Resources Planning and Management Project SWAIWRPMP Phase-2 under Bamonkhali-Bornali Sub Project Under Magura O&M Division BWDB during the Year-2019-20.	266.47	266.47	8-Aug-19	28-Oct-19	20-Jun-20	20-Jun-20
Re-sectioning of 12.610 Km Bamonkhali-Bornali Flood Control Embankment from Ch. at Km. 17.400 to km. 30.010 in C/W Bamonkhali-Bornali sub Project under South-West Area Water Recourse Planning and Management Project (SWAIWRPMP) Phase-2 Under Magura O&M Division BWDB during the Year-2019-20.	390.44	394.40	27-Nov-19	20-Dec-19	20-Jun-21	20-Jun-21
Construction of Shankockhali WCS (1-Vent-2.00 m x 1.80 m) over Shankockhali Khal, Up: Gopalgram, Upazila : Magura Sadar, District: Magura in C/W Bamonkhali-Bornali Sub-Project, under South-West Area Integrated Water Resources Planning and Management Project(SWAIWRPMP) Phase-2	306.92	307.18	25-Oct-20	3-Mar-21	3-Mar-22	20-Jun-22

Project Management Office (PMO) Building at Faridpur	562.54	562.54	27-Mar-17	29-Jun-17	4-Jan-19	23-Apr-19
Construction of 2 (Two) storied Rest House Building at Jashore BWDB compound in c/w Southwest Area Integrated Water Resources Planning & Management Project-Additional Financing SAIWRPMP-AF under Jashore O&M Division, Jashore.	332.60	332.60	30-Jul-19	29-Oct-19	26-Jun-22	26-Jun-22

Note: All the figures are taken from latest approved revised DPP and revised contract of packages.

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

Name of the Field	Approved man month		Actual man month utilized (As per VO-04)	Remarks
	As per DPP	As per contract		
1	2	3	4	5
a) Foreign	51.25	51.25	50.12	
b) Local	1016.53	1016.53	1016.53	

09. Construction/Erection/Installation Tools & Equipment:

Description of items	Quantity (as per PP)	Quantity procured with date	Transferred to O & M with date			Disposed off as per rule with date	Balance	Remarks
			Qty	Date	Location			
1	2	3	4			5	6	7
Laptop	22	22	1	2015-16	PMO, Dhaka			
			1	2015-16	PMO, Dhaka			
			1	2015-16	PMO, Dhaka			
			1	2015-16	SE, Design Circle-2			
			1	2017-18	PMO, Dhaka			
			1	2017-18	SE Design-05, BWDB, Dhaka			
			1	2017-18	PMO, Dhaka			
			1	2017-18	PMO, Dhaka			
			1	2017-18	SMO Spe Division, Faridpur			
			1	2017-18	PMO, Faridpur			
			1	2017-18	PMO, Faridpur			
			1	2017-18	PMO, Faridpur			
			1	2017-18	SMO Specialized Division, Faridpur			
			1	2018-19	Director Personel, BWDB, Dhaka			
			1	2018-19	Director Finance, BWDB, Dhaka			

Description of items	Quantity (as per PP)	Quantity procured with date	Transferred to O & M with date			Disposed off as per rule with date	Balance	Remarks
			Qty	Date	Location			
1	2	3	4			5	6	7
			1	2018-19	PMO, Dhaka			
			1	2021-22	PMO, Faridpur			
			1	2021-22	PMO, Dhaka			
			1	2021-22	PMO, Dhaka			
			1	2021-22	CWM, BWDB, Dhaka			
			1	2021-22	EE, Gopalganj			
			1	2021-22	PMO, Faridpur			
Desktop	40	40	2	2015-16	Chief Monitoring			
			1	2015-16	PMU Cluster Project			
			1	2015-16	PMO, Faridpur			
			1	2015-16	PMO, Faridpur			
			1	2015-16	PMO, Faridpur			
			1	2015-16	PMO, Faridpur			
			1	2015-16	PMO, Faridpur			
			2	2015-16	Planning Commission			
			1	2016-17	PMO, Dhaka			
			1	2016-17	PMO, Dhaka			
			1	2016-17	PMO, Dhaka			
			1	2016-17	PMO, Dhaka			
			1	2016-17	PMO, Dhaka			
			2	2016-17	Design Circle-02, BWDB, Dhaka			
			4	2017-18	PMO, Dhaka			
			1	2017-18	ADG (Western Region), Dhaka			
			1	2017-18	Director, Estate & Transport			
			2	2017-18	Design circle-05			
			1	2017-18	Chief Engineer (Planning), Dhaka			
			3	2017-18	PMO, Faridpur			
			2	2017-18	SMO Spe. Division, Faridpur			
			1	2018-19	PMO, Dhaka			
			1	2018-19	PMO, Faridpur			
			1	2018-19	SMO, SD, Faridpur			
			1	2018-19	EE, Gopalganj O&M Division			
			1	2018-19	EE, Faridpur O&M Division			
			1	2018-19	Director of Audit, Dhaka			
			3	2021-22	PMO, Dhaka.			
Air Conditioner	20	20	1	2015-16	PMO, Dhaka			
			2	2015-16	PMO, Dhaka			
			1	2015-16	PMO, Dhaka			
			1	2018-19	PMO, Faridpur			
			1	2018-19	PMO, Faridpur			
			2	2018-19	PMO, Faridpur			
			1	2018-19	Chief Planning,			

2

Description of items	Quantity (as per PP)	Quantity procured with date	Transferred to O & M with date			Disposed off as per rule with date	Balance	Remarks
			Qty	Date	Location			
1	2	3	4			5	6	7
					BWDB, Dhaka			
			2	2018-19	PMO, Faridpur			
			1	2018-19	PMO, Faridpur			
			1	2018-19	SMO, SD, Faridpur			
			1	2018-19	SMO,SD, Faridpur			
			2	2018-19	PMO, Faridpur			
			3	2021-22	PMO, Faridpur			
			1	2021-22	PMO, Dhaka			
Level Machine	28	28	1	2016-17	EE, Rajbari O&M Division			
			1	2016-17	EE, Jessore O&M Division			
			1	2016-17	EE, Magura O&M Division			
			1	2016-17	SMO, SD, Faridpur			
			1	2018-19	Magura, Rajbari			
			2	2018-19	SMO, SD, Faridpur			
			1	2018-19	Rajbari O&M Division			
			20	2022-23	PMO, Dhaka			
Printer	20	18	2	2017-18	PMO, Faridpur			
			3	2017-18	PMO, Faridpur			
			6	2017-18	SMO,SD, Faridpur			
			2	2018-19	PMO, Dhaka			
			2	2021-22	PMO, Dhaka			
			1	2021-22	Design Circle-05			
			2	2021-22	PMO, Faridpur			
Multimedia Projector	5	5	1	2018-19	PMO, Faridpur			
			1	2018-19	SE, Design Circle-8,			
			1	2021-22	PMO, Faridpur			
			1	2021-22	PMO, Faridpur			
			1	2021-22	PMO, Dhaka			
Scanner	10	10	3	2017-18	PMO, Dhaka			
			1	2017-18	PMO, Faridpur			
			3	2017-18	SMO, SD, Faridpur			
			1	2021-22	PMO, Dhaka			
			1	2021-22	PMO, Dhaka			
			1	2021-22	PMO, Faridpur			
Photocopier	8	8	2	2017-18	PMO, Dhaka			
			1	2017-18	PMO, Faridpur			
			1	2017-18	SMO, SD, Faridpur			
			1	2017-18	EE, Rajbari O&M Division			
			1	2017-18	ADG, Western Region			
			1	2017-18	MoWR			
			1	2021-22	SE Design - 5			
Robotic Total	1	1	1	2020-21	SMO, Faridpur			

Description of items	Quantity (as per PP)	Quantity procured with date	Transferred to O & M with date			Disposed off as per rule with date	Balance	Remarks
			Qty	Date	Location			
1	2	3	4			5	6	7
Station								
Mechanical Total Station	10	10	1	2020-21	SMO, Faridpur			
			9	2022-23	PMO, Dhaka			
Ecosounder	3	3	3	2022-23	PMO, Dhaka			
RTK GPS	6	6	6	2022-23	PMO, Dhaka			



C. FINANCIAL AND PHYSICAL PROGRAMME:

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

(in lakh Tk.)

Financial Year	Financial provision & physical target as per original DPP				Financial provision & physical target as per latest revised 2 nd Revision DPP			
	Total	Taka	P.A.	Physical %	Total	Taka	P.A.	Physical %
1	2	3	4	5	6	7	8	9
2015-2016	7543.83	1603.89	5939.94	15.65%	212.51	9.15	203.36	0.41%
2016-2017	8031.78	1661.40	6370.38	16.66%	1796.70	649.18	1147.52	3.49%
2017-2018	6802.39	1001.13	5801.26	14.11%	3027.59	812.90	2214.69	5.87%
2018-2019	6973.68	1007.98	5965.70	14.46%	8782.87	1686.18	7096.69	17.04%
2019-2020	7144.98	1014.83	6130.15	14.82%	6660.11	1059.75	5600.36	12.92%
2020-2021	7247.76	1018.94	6228.82	15.04%	7325.72	1076.21	6249.51	14.21%
2021-2022	4465.58	549.96	3915.62	9.26%	9987.83	1539.59	8448.24	19.38%
2022-2023	-	-	-	-	13738.51	1856.38	11882.13	26.68%
Total	48210.00	7858.13	40351.87	100.00%	51531.84	8689.34	42842.50	100.00%

01. (b) Revised ADP allocation and progress:

(In lakh Taka)

Financial Year	Revised Allocation & target				Taka release	Expenditure & physical progress			
	Total	Taka	PA	Physical %		Total	Taka	PA	Physical %
1	2	3	4	5	6	7	8	9	10
2015-2016	280.00	56.00	224.00	0.41%	56.00	212.53	39.6	172.93	0.44%
2016-2017	2015.00	675.00	1340.00	3.49%	675.00	1796.73	639.14	1157.59	6.50%
2017-2018	5200.00	977.00	4223.00	5.87%	977.00	3027.89	793.03	2234.86	8.50%
2018-2019	8925.00	1675.00	7250.00	17.04%	1675.00	8795.46	1681.37	7114.09	30.00%
2019-2020	7570.00	1080.00	6490.00	12.92%	1080.00	6647.28	1059.75	5587.53	18.87%
2020-2021	7550.00	1176.00	6374.00	14.21%	1176.00	7328.88	1120.84	6208.04	9.43%
2021-2022	10000.00	1500.00	8500.00	19.38%	1500.00	9984.60	1498.54	8486.06	15.00%
2022-2023	14030.00	1800.00	12230.00	26.68%	1800.00	12766.40	1630.98	11135.42	10.40%
Total	55570.00	8939.00	46631.00	100.00%	8939.00	50559.77	8463.25	42096.52	100.00%

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D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT:

Objectives as per PP	Actual achievement	Reasons for shortfall, if any
The overall objective of the project is to enhance economic growth and to reduce poverty in the rural areas of selected districts (Magura, Faridpur, Rajbari and Gopalganj) in the Southwest region of Bangladesh. Its intermediate objective is to enhance and sustain water security and livelihoods of rural people within the hydrological boundaries defined by existing but underperforming and Flood damage structures & embankment systems.	Through efficient water resources management & empowering the local communities to be the driving force for development, the overall objective of the project has been achieved.	
(a) Participatory Integrated Water Resources Management Plans (IWMP) for selected hydrological units.	04 nos IWMPs have been prepared, and 09 nos IWMPs have been implemented. Additionally, 23 Sub-unit Implementation Plans (SIPs) have been implemented and have already been endorsed by the Water Management Association (WMA)	
(b) Enhanced livelihoods and livelihood opportunities impacted by IWMP as a result of upgraded infrastructures, increased user participation and improved, decentralized service delivery.	<p>Rehabilitation works have been completed in 9 sub-projects by IWMP. As a result, the following outcomes have been observed:</p> <ul style="list-style-type: none"> a. Cropping Intensity: Cropping intensity has increased to 248%, compared to the baseline of 205% in 2013. b. Agricultural Production: Rice production has also increased to 3.84 tons per hectare (Ton/ha), up from the previous 1.62 Ton/ha recorded in 2013. c. Fisheries: According to field data collected by ISPM consultants and endorsed by the Department of Fisheries (DoF), the annual production of cultured fisheries has risen to 3,583 tons, compared to the previous 2,076.60 tons recorded in 2013 (a 72% incremental production from 2013). d. Livelihood: The average estimated annual household income of Water Management Group (WMG) 	

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Objectives as per PP	Actual achievement	Reasons for shortfall, if any
	<p>members has increased to Tk. 86,400, based on data collected from an income impact assessment survey for female-headed households. (In 2013, the baseline was Tk. 50,727.)</p> <p>e. Economic Internal Rate of Return (EIRR): The EIRR has been calculated at 24.59%, surpassing the estimated rate of 18.17%.</p>	
(c) Strengthening institutional capacity for planning, implementing, operating, maintaining and monitoring demand driven participatory, integrated water resources management plans.	<p>Participatory integrated water resources management plan has been implemented through formation of –</p> <p>a) 267 no WMG with total member of 112,634 in which 57,393 are female (51.10%)</p> <p>b) 23 nos WMA.</p> <p>c) Strengthening Institutional capacity through training like WMO training, FFS, FSF, FFD, and Motivational tour. Total 88,118 number of persons have taken those training.</p>	

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) Quality of life	Soft benefit non-monetary	-	After the implementation of the project the stakeholders are getting increased production benefit from the agriculture/fisheries etc (due to khal re-excavation, construction of water control structure & embankment construction). The stakeholders now are getting increased educational facilities, communication facilities (road, bridge & culvert) & getting safe drinking water due to installation of Arsenic free tube well.
(b) Poverty Reduction	Soft benefit non-monetary	-	Before project average income per household was Tk 50,727 (base line: 2013) & after implementation of project the average income of per household is Tk 86400. Increment of income is Tk. 35,673
(c) Empowerment of women	Soft benefit non-monetary	-	In 267 nos Water Management Group (WMG) the total number of WMG member

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).
			is 1,12,634 among them female members are 57,393 (51% against target of 30%). They are now enthusiastic in committing for more work and process are raising their social position as well as opinion and receiving positive appreciation from the community.
(d) Environmental Enhancement	Soft benefit non-monetary	-	Remarkable positive changes in case of environmental indicators such as land productivity, fish availability, tree plantation, number of livestock, poultry and human disease. Keeping ecologically important natural wetland habitat undisturbed. In respect of health safeguard the pandemic COVID-19 situation is successfully overcome.

Note: A Benefit Monitoring and Evaluation (BME) committee was formed comprises key members from various government departments and agencies, including MoWR, Planning Commission and Implementation Monitoring & Evaluation Division (IMED) for the Benefit Monitoring and Evaluation of Southwest Area Integrated Water Resources Planning & Management Project-Additional Financing (SAIWRPMP-AF) vide memo no – 42.00.0000.035.24.052.17-17 dated: 24 May 2023. The Executive summary of the report is attached herewith as Appendix-A.

02. Cost/Benefit:

Item	Estimated	Actual
(1) Benefit cost ratio of the project		
(i) Financial	1.00:1.19	1.00:1.68
(ii) Economic	1.00:1.57	1.00:2.36
(2) Internal Rate of Return		
(i) Financial	14.29%	19.04%

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(ii) Economic	18.17%	24.59%
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03. Please give reasons for shortfall, if any, between the estimated and actual benefit:
There is no shortfall.

F. MONITORING AND AUDITING

0.1 Monitoring:

Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
<u>(a) Ministry / Agency:</u>			
1. Dr. Pear Mohammad, Additional Secretary, ERD 2. Parimol Sarker, Deputy Secretary, ERD	18-19 November 2021	No problem was found remarkable.	i) To complete the project activities within the stipulated time and the activities should be completed quickly according to the rules. (ii) Appropriate steps should be taken by the Project Manager to expedite the implementation process. (iii) Inter-agency consultation/consultation is required to expedite utility transfers. Necessary measures should be taken in this regard. (iv) The Project Manager will continuously monitor and supervise the project activities through PIC and PSC.

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Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
1. Md. Abdur Rahman Ripon, Deputy Secretary, Ministry of Water Resources.	13 January 2023	No problem was found remarkable.	(i) Excavate the small khals with LCS and form LCS immediately. (ii) Complete the running works within the time. (iii) Take necessary action regarding 6.58 hac of land acquisition in Rajbari district.

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Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
(b) IMED :			
1. Md Afzal Hossan Director (Deputy Secretary), IMED Sector-4.	30-31 August 2016	No problem was found remarkable.	<p>i) The Narail Water Development Board will take necessary measures to ensure that the Water Management Associations WMA/WMG formed under the project are sustainable and the operation and maintenance of the constructed/repaired infrastructure continues.</p> <p>ii) Upazila Agriculture, Public Health, Fisheries and Animal Resources The management committee members of the water management association should ensure close communication with the officials of the department. Water Development Board Narail can take initiative role in this matter.</p> <p>iii) In order to support infrastructure management and maintenance work, the society/team shall ensure collection of service charges at the prescribed rate.</p> <p>iv) External Audit should be done quickly on the project.</p> <p>v) Any constructed/ repaired under the project In case of major repairs to the infrastructure, the Water Development Board will arrange for completion on priority basis.</p>

2

Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
<p>1. Md Afzal Hossan Director General IMED sector-4.</p> <p>2. Jan-E-Alam Deputy Chief, Ministry of Water Resources</p> <p>3. Dr. Md. Mahmudul Hasan Deputy Director IMED sector-4</p>	16 July 2020	No problem was found remarkable.	<p>i) Completion of the procurement process and actual work as per the targets of the procurement plan for the current financial year.</p> <p>ii) To ensure the quality of the completed work, execution as per the latest approved DPP specifications and regular monitoring by BWDB, Task Force shall be continued.</p> <p>iii) The work plan and procurement plan for the current financial year (2020-21) of the project should be shared with IMED.</p> <p>iv) To maintain the quality of training provided under the project, training outcomes achieved, and its sustainability plan should be shared with IMED.</p> <p>v) PIC and PSC meetings should be held to ensure smooth implementation of the project.</p> <p>vi) To enter updated information in the online PMIS software developed by IMED.</p> <p>vii) Regular maintenance should be ensured for the sustainability of the works already done in various packages under the project and to benefit from the same.</p>

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Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
(c) Others: ADB Loan Review Mission			
Asian Development Bank 1. Pushkar Srivastava, Project Management Specialist as mission leader 2. Farhat Jahan Chowdhury, Senior Project Officer (Environment) 3. Nasheeba Selim, Senior Social Development Officer (Gender) 4. Kazi Akhmila, Safeguard Officer (Resettlement) Embassy of the Kingdom of the Netherlands 1. Mr. Folkert de Jager, First Secretary, Thematic Expert Water Management & Food Security 2. Md Reaz Uddin Khan, Senior Policy Adviser – Water Management Ministry of Water Resources (MOWR) 1. Mr. Mahamudul Islam, Additional Secretary Bangladesh Water Development Board (BWDB) 1. Mr. Fazlur Rashid, Chief Planning 2. Mr. Mahfuz Ahamad, Chief Water Management 3. Mr. Md. Anisul Islam, Additional Chief Engineer and PD	23-25 August 2020 (Virtual)	No problem was found remarkable.	i) Appoint at least one executive engineer at PMO, and extension officer at WMO. ii) Appoint agricultural economist, environmental specialist, R&R specialist, and quality control engineer iii) 13 SIPs to be endorsed by 3-Sep-2020. Remaining 10 SIP development by end of Dec 2020. iv) PMO, ISPMC and OCWM to review to explore further options and actions to improve the performance of participatory water management. v) Ensure compensation payment and livelihood restoration training is provided. vi) Screen tube wells to identify problematic areas in the community and complete the installation of the remaining deep tube wells.

2

Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
<p><u>Asian Development Bank</u> 1. Pushkar Srivastava, Project Management Specialist as mission leader 2. Farhat Jahan Chowdhury, Senior Project Officer (Environment) 3. Nasheeba Selim, Senior Social Development Officer (Gender) 4. Kazi Akhmila, Safeguard Officer (Resettlement)</p> <p><u>Economics Relations Division (ERD), Ministry of Finance</u> 1. Mr. Parimal Sarker, Deputy Secretary 2. Ms. Masuda Begum, Deputy Secretary</p> <p><u>Ministry of Water Resources (MoWR)</u> 1. Mr. Kabir Bin Anwar, Senior Secretary 2. Mr. Md. Mahmud Hasan, Deputy Secretary</p> <p><u>Bangladesh Water Development Board (BWDB)</u> 1. Mr. A K M Waheduddin Chowdhury, Director General 2. Mr. A.K.M.Shamsul Alam, ADG (West Region) 3. Mr. Dr. Md. Mizanur Rahman, ADG (Planning) 4. Mr. Md. Mahbur Rahman, Chief Planning 5. Mr. Mahfuz Ahamad, Chief Water Management 6. Mr. A.K.M. Tahmidul Islam, Project Director</p>	04-12 April 2021 (Virtual)	No problem was found remarkable.	<p>i) Depute an executive engineer to Specialized Division, Faridpur.</p> <p>ii) PMO, ISPMC and OCWM to review to explore further options and actions to improve the performance of participatory water management.</p> <p>iii) Ensure compensation is paid prior to their relocation and ensure resolution through GRC for compensation of land acquisition.</p> <p>iv) Ensure compensation payment for remaining titled HHs at Tita.</p>

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Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
<u>Asian Development Bank</u> 1. Pushkar Srivastava, Project Management Specialist as mission leader 2. Farhat Jahan Chowdhury, Senior Project Officer (Environment) 3. Nasheeba Selim, Senior Social Development Officer (Gender) 4. Kazi Akhmila, Safeguard Officer (Resettlement)	01-09 November 2021 (Virtual)	No problem was found remarkable.	i) PMO, ISPMC and OCWM to review to explore further options and actions to improve the performance of participatory water management. ii) PMO to assess the amount for ISPMC contract variation and ascertain possibility of second variation of DPP from MOWR. iii) Fill up the vacant positions in PMO and WMO, especially immediate posting of one sub-divisional engineer or assistant engineer to the PMO.
<u>Embassy of the Kingdom of the Netherlands</u> 1. Mr. Folkert de Jager, First Secretary, Thematic Expert Water Management & Food Security 2. Md Reaz Uddin Khan, Senior Policy Adviser – Water Management			
<u>Government of Bangladesh</u> 1. Dr. Pear Mohammad, Additional Secretary and Wing Chief (ADB), Economics Relations Division (ERD), Ministry of Finance 2. Mr. Parimal Sarker, Deputy Secretary, ERD, Ministry of Finance 3. Mr. Md. Waliul Hasan, Senior Assistant Secretary, ERD, Ministry of Finance 4. Mr. Md. Mahmud Hasan, Deputy Secretary, Ministry of Water Resources (MOWR) 5. Mr. Enamul Haque, Joint Chief (Irrigation Wing), Planning Commission			
<u>Bangladesh Water Development Board (BWDB)</u> 1. Mr. Fazlul Rashid, Director General 2. Mr. Md. Mahbur Rahman, Chief Planning			

Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
<u>Asian Development Bank</u> 1. Pushkar Srivastava, Project Management Specialist as mission leader 2. Kazi Akhmila, Safeguards Officer (Resettlement) 3. Mashiur Rahman, Project Analyst 4. Minhajur Rahman Khan, Associate Safeguard Analyst 5. Sinora Chakma, Gender Specialist (Consultant) <u>Government of Bangladesh</u> 1. Mr. Parimal Sarker, Deputy Secretary, ERD 2. 1. Mr. Khalil Ahmed, Director, IMED 3. Mr. Mizanur Rahman, Additional Secretary, MoWR. 4. Mr. S. M. Rezaul Mostafa Kamal, Additional Secretary (Planning Wing), MoWR. 5. Mr. Mohammad Lutfur Rahman, Joint Secretary, MoWR. <u>Bangladesh Water Development Board (BWDB)</u> 1. Mr. Jyoti Prosad Ghosh, Additional Director General 2. Dr. Shamal Chandra Das, Addl. Chief Engineer (Civil). Planning 3. Mr. Md. Abu Baker Siddique Bhuyan, Project Director & Superintending Engineer (Civil) 4. Mr. Mahfuz Ahamad, Chief Water Management	26 July – 08 August 2022	No problem was found remarkable.	i) Pay compensation budget to affected households. ii) Adequate staffing (127 vacant positions) in OCWM to ensure sustainability of WMGs and WMAs. iii) PMO, ISPMC and OCWM to review to explore further options and actions to improve the performance of participatory water management. iv) ISPMC to undertake detailed design in a timely manner. v) Submit draft DPP to Planning Commission.

Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
<u>Asian Development Bank</u> 1. Pushkar Srivastava, Project Management Specialist as mission leader 2. Kazi Akhmila, Safeguards Officer (Resettlement) 3. Mashiur Rahman, Project Analyst 4. Minhajur Rahman Khan, Associate Safeguard Analyst 5. Sinora Chakma, Gender Specialist (Consultant)	14-22 February 2023	No problem was found remarkable.	i) PMO to undertake detailed design of identified interventions in time, including safeguard assessment. ii) PMO to use the current consulting firm to undertake detailed design of identified interventions in time. iii) Adequate OCWM staffing to ensure sustainability of WMGs and WMAs. iv) PMO, ISPMC and OCWM to review to explore further options and actions to improve the performance of participatory water management.
<u>ERD</u> 1. Mr. S.M. Zakaria Huq, Joint Secretary			
<u>Ministry of Water Resources</u> 1. Mr. Nazmul Ahsan, Secretary 2. Mr. Mizanur Rahman, Additional Secretary 3. Mr. Md. Shajahan Ali, PS to Secretary			
<u>Planning Commission</u> 1. Ms. Ratna Sharmin Jhara, Deputy Chief (Irrigation Wing)			
<u>IMED</u> 1. Mr. Mohammad Saifur Rahman, Deputy Director			
<u>Bangladesh Water Development Board (BWDB)</u> 1. Mr. Nurul Islam Sarkar, Director General 2. Mr. Romzan Ali Pramanik, Additional Director General (West Region) 3. Mr. Amirul Haque Bhuiyan, Additional Director General (Planning) 4. Mr. S.M. Shahidul Islam, Additional Director (Eastern Region)			

2

Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
<u>Asian Development Bank (ADB)</u> 1. Pushkar Srivastava, Project Management Specialist and Mission Leader 2. Nasheeba Salim, Senior Social Development Officer (Gender) 3. Md. Monjurul Ahmed, Senior Financial Management Officer 4. Farhat Jahan Chowdhury, Senior Project Officer (environment) 5. Kazi Akhmila, Safeguards Officer (Resettlement) <u>Economics Relations Division (ERD)</u> 1. Mr. S. M. Jakaria Huq, Joint Secretary (ADB-1) 2. Md. Waliul Hasan, Senior Assistant Secretary <u>Ministry of Water Resources</u> 1. Mr. Mohammad Lutfar Rahman, Joint Secretary (Development-1) 2. Mr. Shah Eyamin-Ul Islam, Deputy Secretary (Planning-1) 3. Mr. Jatan Marma, Deputy Secretary (Development-1) <u>Bangladesh Water Development Board</u> 1. Mr. Md. Romjan Ali Pramanik, Additional Director General 2. Mr. S.M. Shahidul Islam, Addl. Director General (Civil). Eastern Zone 3. Mr. Muhammad Amirul Haq Bhuiya, Addl. Director General, Planning <u>Embassy of the Kingdom of the Netherlands</u> 1. Mr. A.K. Osman Haruni, Senior Policy Adviser Food Security and Agriculture	21-28 May and 5 June 2023	No problem was found remarkable.	Undertake contract variation of ISPMC for the extended loan period. Adequate OCWM staffing to ensure sustainability of WMGs and WMAs. ISPMC to undertake detailed design of identified interventions in time. Draft DPP endorsed by Planning Commission, submitted to ECNEC by 15 August 2023.

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
Not Conducted			

2.2 External Audit:

Audit period	Date of submission of Audit Report	Major findings/ objections		Whether objections Resolved or not.
1	2	3		4
		Para	Title	
2015-16	31-12-2016		Nil	
2016-17	31-12-2017	1.01	Loss of Govt revenue for non-compliance condition of contract Tk. 4,17,856.00	Resolved
2017-18	31-12-2018	1.01	Loss of Govt revenue VAT & IT amounting to Tk. 10,45,472.00 due to non-coverage of insurance	Resolved
2018-19	31-12-2019	1.01	Irregular expenditure incurred contingency /overhead cost for LA Case BDT 14,47,594.26	Under process of FAPAD
		1.02	Civil works contract awarded beyond RDPP Provision	Resolved
		1.03	Unauthorized Payment to different Person as Pay & allowance Beyond RDPP Provision BDT 17,36,640.00	Resolved
2019-20	31-12-2020	1.01	Irregular works was done an amount to Tk. 5,62,54,239.12 without re tender	Resolved
		1.02	Irregular expenditure incurred for incidental charge of land acquisition amounting to BDT 3,15,886.38	Under process of FAPAD
		1.03	Work order issued involving tk 1 ,51,02,829.00 without acquisition of Land	Resolved
		1.04	Violation of Financial discipline due to excess expenditure incurred for repair & maintenance of vehicles amounting to Tk. 6,02,654.00	Resolved
		1.05	Payment was made amounting to tk. 45,27,704.79 bt adjustment voucher was not produced to audit	Resolved
		1.06	Irregular payment of tk. 2,85,725.75 for procuring services without proper documents	Resolved
		1.07	Irregular payment of tk. 98,438.16 was made to the contractor due to wrong calculation in MB	Resolved
2020-21	31-12-2021	1.01	Irregularly expenditure incurred an amounting to tk. 14,89,500.00 for procuring Arsenic Kit Without Lab Test	Resolved
		1.02	Expenditure incurred in advance for training activities violating the delegation of Financial Power tk. 30,00,000.00	Resolved
		1.03	Advance Payment for slum improvement but not yet adjusted tk. 10,35,503.00	Resolved
		1.04	Excess Payment made to the contractor for earth work by manual Labor and Earth Carried by Contractor Th. 10,00,044.00	Resolved
		1.05	Excess Payment incurred makes point welding and binding in same place Tk. 76,620.00	Resolved
		1.06	Excess Payment made to the contractor beyond the Lab test of 12 mm rod Tk. 9015.00	Resolved
2021-22	31-12-2022	1.01	Loss of Project Money Amounting to BDT 3,49,48247.32 for construction of Bridge without road on one or both sides.	Resolved
		1.02	Loss of project funds a amount to BDT 6,06,868.50 due to dumping geo textile bags on the bank rather than the river bed	Resolved
		1.03	Loss of Project money amounting to BDT 41,71,509.27 or manufacturing CC Blocks without Placing on river Bank	Resolved

2

Audit period	Date of submission of Audit Report	Major findings/ objections		Whether objections Resolved or not.
1	2	3		4
		1.04	Irregular Payment made an amount of tk. 1,66,33,179.08 for installation of Arsenic Free Tube-well using shopping method	Resolved
		1.05	Irregular Payment made an amount of tk. 5,61,83,643.847 against regulator that is not functioning properly	Resolved
		1.06	Irregular Payment made amounting of Tk. 5,22,946.62 made to the contractor for defecting or no found tube-well	Resolved
		1.07	Excess Payment an amount of tk. 52,26,840.00 made against training beyond DPP	Resolved
		1.08	Irregular Payment made amounting of Tk. 13,24,659.11 to the contractor for faulty work	Resolved
		1.09	Quality of RCC work amounting to Tk.62,94,640.49 was not ensured due to not performing laboratory test of ribbed or deformed bar on random basis	Resolved
		1.10	Excess Payment made an amount of Tk. 4,15,711.60 to the contractor against placement of CC Block	Resolved
		1.11	Irregular Contract Made by amounting /publishing official cost Estimate to the contractor	Under process of FAPAD
		1.12	Irregular Payment made an amount of BDT 2,28,93,979.26 to the contractor despite faulty BC Road	Under process of FAPAD
		1.13	Irregular Payment Made to the contractor an amount of tk. 2,27,616.45 for regulator Repair	Resolved

G. DESCRIPTIVE REPORT

1. General Observations/Remarks of the Project on:

1.1 Project Background

After the disastrous flood of 1988, the Government of Bangladesh initiated a five-year study program titled "Flood Action Plan (FAP)" in five regional area of Bangladesh. The Southwest Area Water Resources Development Project (SWAWRDP) is one of the 5(five) regional FAP studies (FAP-4) completed in 1993 with ADB and UNDP assistance. The present SW-AF project (Phase-2) is a continuation of the Project Preparatory Technical Assistance (PPTA) under ADB TA finance (TA No.4079). Earlier as per recommendation of the above PPTA study the "Southwest Area Integrated Water Resources Planning and Management Project (SWAIWRPMP)" Phase-1(Chenchuri Beel Sub-project and Narail Sub-project) was taken under the funding of ADB, Government of the Netherland and GoB. The SW-project Phase-1 started in 2006 and successfully completed in 2015 and the loan was closed in December 2015. The project aimed to improve the productivity and sustainability of the existing Flood Control & Drainage/Irrigation schemes in the south-west region of Bangladesh with strengthening the relevant institutions delivering appropriate services to the stakeholders.

Based on the success of the SW-Phase-1 project it was agreed that the implementation of additional subproject areas may be considered through supplementary financing. Since the demonstrated implementation performances of SW-Phase-1 are perfect as a result the feasibility study was carried out for 7(seven) sub-project and together with 2(two) nos. sub-projects, considered by ADB as straight forward projects totalling 9 no. sub-projects in 2012 to 2014 covering a gross area of about 84,000 ha planned to be implemented under second phase through additional financing by ADB. The project area included selected areas in the Southwest areas of Bangladesh, covering the districts of Faridpur, Gopalganj, Jessore, Magura, Narail and Rajbari.

2

As follow-up, the Development Project Proforma (DPP) for the project was drafted in May 2015 and last recast and approved in September 2015 later Additional Funding (AF) was made available in December 2015 under Asian Development Bank (ADB) loan no.3302 (SF) (USD-45 million) and the Government of the Netherlands (GoN) grant no.0441 (EF) (USD-7 million) to the Government of Bangladesh (GoB).

With these arrangements under the sponsorship of Ministry of Water Resources (MoWR) the Bangladesh Water Development Board (BWDB) is executing the SWAIWRPMP-AF supported by the Institutional Strengthening & Project Management Consultant (ISPMC). The objective/aim is to enhance the performance of nine existing Flood Control and Drainage/Irrigation (FCD/I) systems with participatory planning approach; formation of Water Management Groups (WMGs) and Water Management Associations (WMAs); water management infrastructures construction /rehabilitation; and agriculture, fisheries and other support services for local project beneficiaries.

1.2 Justification/Adequacy

The project was planned to enhance the effectiveness of water sector operations through implementing key policy principles, improving sector governance, and furthering reform actions and in this way reduce poverty in rural areas of the selected subprojects in the Southwest areas:

- i. The Project would operationalize key principles of the NWP, in the particular participatory and integrated planning, development and management of water resources to address diverse stakeholder interests, environmental concerns; and other local development constraints for agriculture, fishery, and livelihood activities in the FCD/I hydrological areas, as embodies in IWMPs and SIPs. Pro-poor focus is pursued with due representation of vulnerable poor in all WMGs and targeted delivery of livelihood support.
- ii. It would institutionally sustainable O&M for medium and large FCD/I schemes, with joint management of Water control structures and after that management transfer of local structures to WMAs through agreement signing between concerned WMAs and concerned field level EE of BWDB which is another key NWP principle. This follows good practices and lessons proven effective in small FCD/I schemes being assisted by ADB to establish O&M facilities and later transferred to WMAs for routine O&M.
- iii. It would operate stringent quality control systems, by clearly stipulating process-wise and impact targets in SIPs, and progressively implementing subprojects/subunit works by confirming the achievement of the pre-defined targets at each step, with improved internal recording, reporting and auditing system institutionalized with the support of the TA. The project will also support broad institutional actions to enhance sector governance in coordination with other externally assisted programs.
- iv. It would strengthen WMAs as responsible agents to provide self-help efforts for facilitate O&M of Water management structures, and the empower them to take lead roles in subprojects decision making, and monitor the program delivery, thereby transforming line agency role to enterprise provider from implementer. Progressing WMAs are also trained as local enterprise managing microfinance with collected shares and savings, and to facilitate farmer communication with service providers with collective power.

While preparing participatory Sub-unit Implementation Plan (SIP) all the above issues were considered respecting requirements of the local people the project could be satisfactorily implemented with involvement of the beneficiaries. According to field data and field survey the benefit already achieved in agriculture, fishery and livelihood income showed very encouraging figures.

1.3 Objectives

- 4.7 **Possibility of Self-employment:** With further involvement in Collective Action Plans (CAP) some entrepreneurs have already been self-employed and with time the numbers are expected to increase further.
- 4.8 **Possibility of women-employment opportunity:** The project falls under GEN (Gender equity theme project) and involvement of minimum 30% women have been ensured. After receiving multifaceted training from the project, the status of destitute women's of WMG have improved, their income has increased. Women members have been able to improve their communication skills and acceptance in the society. The number of poor and vulnerable has decreased. As a result, women are getting favorable employment opportunity in affairs like Goat and Duck rearing, horticulture, use of sewing machine for raising income etc.
- 4.9 **Women's participation in development:** In all activities the presence of 30% women have been ensured as per project concept.
- 4.10 **Probable Impact on Socio-Economic activity:** There have been good impact on socio-economic activities already observed. With time this will increase.
- 4.11 **Impact on environment:** There are no negative impacts on environment as observed. Rather through use of more surface water in irrigation purposes by using tidal energy/high water level into the khal system, the use of ground water which is detrimental to sub-surface water has shown a positive gain.
- 4.12 **Sustainability of the project:** Through organizing training in classes, in demonstration etc. and handing over the sub-project structural management to WMAs, developing ownership by the WMG members/beneficiaries, training them to operate and maintain different infrastructures, already collecting the fund required for O & M activities, it can be concluded that the sustainability of the project will be ensured.
- 4.13 **Contribution to poverty alleviation/reduction:** Many livelihoods support like, Goat, Duck, sewing machine etc. along with training and supporting the destitute, plus support in the agriculture and Fisheries, Poverty rate have already shown to have decreased due to increase in the HH income.
- 4.14 **Opinion of the public representatives, local elite, local administration, teachers, religious leaders, women's representatives etc.:** The opinion of the public, visitors who interviewed the WMG members showed positive signs.
- 4.15 **Contribution of Micro-credit programs and Comments on overlapping with any NGO activities:** There was no overlapping with any NGO activities.

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

- 5.1 **Project Management:** N/A
- 5.2 **Project Director:** N/A
- 5.3 **Land Acquisition:** N/A
- 5.4 **Procurement:** N/A
- 5.5 **Consultancy:** N/A
- 5.6 **Contractor:** N/A
- 5.7 **Manpower:** N/A
- 5.8 **law & Order:** N/A
- 5.9 **Natural calamity:** N/A
- 5.10 **Project financing, allocation, and release:** N/A
- 5.11 **Design formulation/approval:** N/A
- 5.12 **Project aid disbursement and re-imbursement:** N/A
- 5.13 **Mission of the development partners:** N/A
- 5.14 **Time & Cost Over-run:** As mentioned in B-02
- 5.15 **Project Supervision/Inspection:** N/A
- 5.16 **Delay in Decision:** N/A
- 5.17 **Transport:** N/A



- 5.18 Training: N/A
5.19 Approval: N/A
5.20 Others: N/A

6. Remarks & Recommendations of the Project Director:

The current project has demonstrated that an integrated participatory approach can significantly improve the management of water resources in FCDI (Flood Control and Drainage Improvement) schemes. Renovation of water management infrastructure in the nine targeted subproject areas has been successfully completed, achieving the anticipated targets. In total, 290 Water Management Organizations (WMOs) have been established, comprising 267 Water Management Groups (WMG) and 23 higher-tier Water Management Associations (WMA). Socially disadvantaged groups, such as landless farmers and destitute women, have benefited from this project. Capacity enhancement activities for WMOs have invigorated WMG activities in agriculture, fisheries, livestock, and collective livelihood initiatives.

The responsibility for regular operations and minor maintenance of structures has been transferred to WMOs according to signed contract between WMA and Executive Engineer, BWDB field office. As a result of the project, rice production in the area has nearly doubled, and fisheries production has increased by 70%. The Bangladesh Water Development Board (BWDB) has acquired valuable knowledge and experience in participatory water resources planning and management through this project."

The successful experience gained from the current project can be extended to nearby geographical areas in the southwest region of the country. This expansion aims to enhance the livelihoods of the rural population by improving the productivity and sustainability of existing underperforming flood control, drainage, and irrigation (FCD/I) schemes.

Date: 10-03-2024

Signature and seal of the Project Director

(Md. Abu Baker Siddique Bhuiyan)
Project Director
SAIWRPMP-AF
BWDB, Dhaka.

7. Remarks/Comments of Agency Head:

The main objective of this project was to enhance economic growth and to reduce poverty in the rural areas of Magura, Faridpur, Rajbari, and Gopalganj districts in the Southwest region of Bangladesh. Renovating water management infrastructure in the nine targeted subproject areas, and forming Water Management Organizations (WMOs) for proper maintenance of water-related infrastructures under the project area, socially disadvantaged groups, such as landless farmers and destitute women, have benefited a lot. Thus, this project can be regarded as a successful one, and the experience gained from this project can be extended to nearby geographical areas of Bangladesh.

Date:

Signature and Seal

(Muhammad Amirul Haq Bhuiya)
ID No. 660118001
Director General
BWDB, Dhaka.

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

Date:

Signature and Seal

Annexure-1

Information of the vehicle under Southwest Area Integrated Water Resources Planning & Management Project- 2nd Phase (2nd Revision), BWDB, Faridpur.

Sl. No.	Registration no.	Handed over to/Stored in
1	2	3
Jeep		
1.	Dhaka Metro-Gha-15-6016	With the approval of the Director General, BWDB, Dhaka vide diary no: 4647, dated: 28-11-2023 all the vehicles were handed over to the Director, Directorate of Estate & Transport, BWDB, Dhaka.
2.	Dhaka Metro-Gha-15-6017	
3.	Dhaka Metro-Gha-15-7728	
4.	Dhaka Metro-Gha-15-7729	
5.	Dhaka Metro-Gha-15-7730	
6.	Dhaka Metro-Gha-15-7731	
Double Cabin Pickup		
1.	Dhaka Metro-Tha-13-5129	With the approval of the Director General, BWDB, Dhaka vide diary no: 4647, dated: 28-11-2023 all the vehicles were handed over to the Director, Directorate of Estate & Transport, BWDB, Dhaka.
2.	Dhaka Metro-Tha 13-5130	
3.	Dhaka Metro-Tha 13-5131	
4.	Dhaka Metro-Tha 13-5132	
5.	Dhaka Metro-Tha 13-5133	
6.	Dhaka Metro-Tha 13-5971	
7.	Dhaka Metro-Tha -13-5972	
8.	Dhaka Metro-Tha -13-5973	
9.	Dhaka Metro-Tha 13-5974	
10.	Dhaka Metro-Tha-13-5975	
11.	Dhaka Metro-Tha-13-5976	
12.	Dhaka Metro-Tha-13-5977	

Annexure-1

Information of the vehicle under Southwest Area Integrated Water Resources Planning & Management Project- 2nd Phase (2nd Revision), BWDB, Faridpur.

Sl. No.	Registration no.	Handed over to/Stored in
1	2	3
Motorcycle		
1	Dhaka Metro-HA-55-1544	With the approval of the Director General, BWDB, Dhaka vide diary no: 4647, dated: 28-11-2023 all the vehicles were handed over to the Director, Directorate of Estate & Transport, BWDB, Dhaka.
2	Dhaka Metro -HA-55-1545	
3	Dhaka Metro -HA-55-1546	
4	Dhaka Metro -HA-55-1547	
5	Dhaka Metro -HA-55-1548	
6	Dhaka Metro -HA-55-1549	
7	Dhaka Metro -HA-55-1550	
8	Dhaka Metro -HA-55-1551	
9	Dhaka Metro-HA-55-1552	
10	Dhaka Metro -HA-55-1553	
11	Dhaka Metro-HA-55-2294	
12	Dhaka Metro -HA-55-2295	
13	Dhaka Metro -HA-55-2296	
14	Dhaka Metro -HA-55-2297	
15	Dhaka Metro -HA-55-2298	
16	Dhaka Metro -HA-55-2299	
17	Dhaka Metro -HA-55-2300	
18	Dhaka Metro -HA-55-2301	
19	Dhaka Metro -HA-55-2302	
20	Dhaka Metro -HA-55-2303	
21	Dhaka Metro -HA-55-2304	
22	Dhaka Metro -HA-55-2305	
23	Dhaka Metro -HA-55-2306	
24	Dhaka Metro -HA-55-2307	
25	Dhaka Metro -HA-55-2308	
26	Dhaka Metro -HA-55-2309	
27	Dhaka Metro -HA-55-2310	
28	Dhaka Metro -HA-55-2311	
29	Dhaka Metro -HA-55-2312	
30	Dhaka Metro -HA-55-2313	
31	Dhaka Metro -HA-55-2314	
32	Dhaka Metro -HA-55-2315	
33	Dhaka Metro -HA-55-2316	
34	Dhaka Metro -HA-55-2317	
35	Dhaka Metro -HA-55-2318	
36	Dhaka Metro -HA-55-2319	
37	Dhaka Metro -HA-55-2320	
38	Dhaka Metro -HA-55-2321	
39	Dhaka Metro -HA-55-2322	
40	Dhaka Metro -HA-55-2323	
41	Dhaka Metro -HA-46-0900	
42	Dhaka Metro -HA-46-0901	
43	Dhaka Metro -HA-46-0902	

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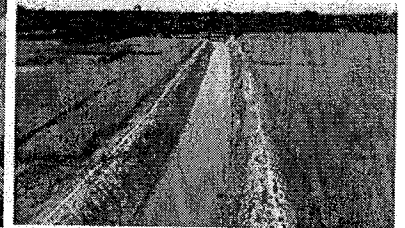
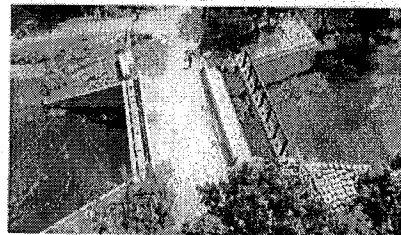
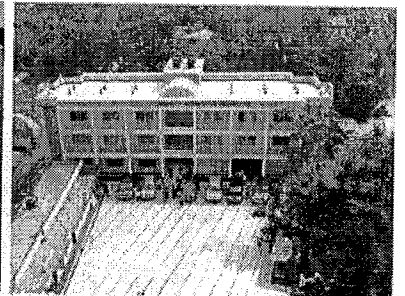
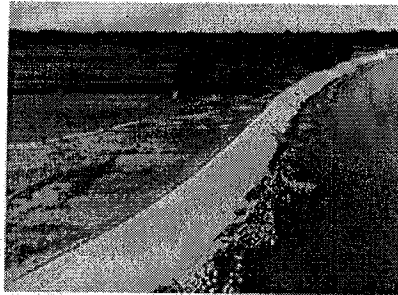
Annexure-1

Sl. No.	Registration no.	Handed over to/Stored in
1	2	3
44	Dhaka Metro -HA-46-0903	<p>With the approval of the Director General, BWDB, Dhaka vide diary no: 4647, dated: 28-11-2023 all the vehicles were handed over to the Director, Directorate of Estate & Transport, BWDB, Dhaka.</p>
45	Dhaka Metro -HA-46-0904	
46	Dhaka Metro -HA-46-0905	
47	Dhaka Metro -HA-46-0906	
48	Dhaka Metro -HA-46-0907	
49	Dhaka Metro -HA-46-0908	
50	Dhaka Metro -HA-46-0909	
51	Dhaka Metro -HA-46-0910	
52	Dhaka Metro -HA-46-0911	
53	Dhaka Metro -HA-46-0912	
54	Dhaka Metro -HA-46-0913	
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57	Dhaka Metro -HA-46-0916	
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59	Dhaka Metro -HA-46-0918	
60	Dhaka Metro -HA-46-0919	
61	Dhaka Metro -HA-46-0920	
62	Dhaka Metro -HA-46-0921	
63	Dhaka Metro -HA-46-0922	
64	Dhaka Metro -HA-46-0923	
65	Dhaka Metro -HA-46-0924	
66	Dhaka Metro -HA-46-0925	
67	Dhaka Metro -HA-46-0926	
68	Dhaka Metro -HA-46-0927	
69	Dhaka Metro -HA-46-0928	
70	Dhaka Metro -HA-46-0929	
71	Dhaka Metro -HA-46-0930	
72	Dhaka Metro -HA-46-0931	
73	Dhaka Metro -HA-46-0932	
74	Dhaka Metro -HA-46-0933	
75	Dhaka Metro -HA-46-0934	
76	Dhaka Metro -HA-46-0935	
77	Dhaka Metro -HA-46-0936	
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79	Dhaka Metro -HA-46-0938	
80	Dhaka Metro -HA-46-0939	

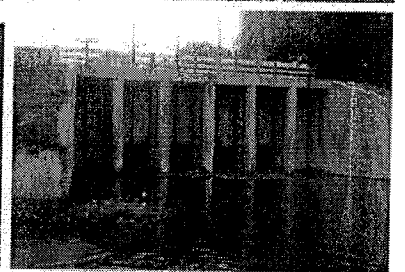
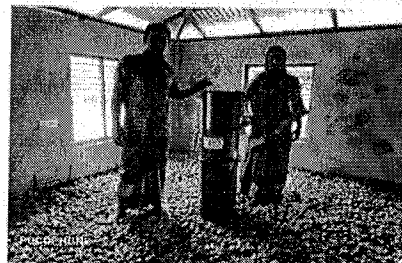
3

Benefit Monitoring & Evaluation Report
under
Southwest Area Integrated Water Resources Planning and
Management Project-Additional Financing

[ADB Loan No. 3302 (SF) & GON Grant No. 0441 (EF)]



Ministry of Water Resources



Bangladesh Water Development Board



Executive Summary

Water affects the life of the people of Bangladesh in various ways. Bangladesh is situated in the flood-prone low-lying riparian areas of the Ganges-Brahmaputra river basin. Owing to global climate change, the scarcity of water is heavily seen in the rivers and its tributaries during the fall season, which drastically occurs due to erratic monsoon rainfall and siltation of canal and riverbed.

An appropriate and sustainable management of water is a pressing need against the backdrop of poor drainage due to different human interventions, riverbank erosion, salinity intrusion, over-exploitation of groundwater, contamination of harmful chemicals, including arsenic, and more importantly, conflicts amongst different water user groups. Eyeing on the above circumstances, Bangladesh Water Development Board already implemented the "South-West Area Integrated Water Resources Planning and Management Project-Additional Funding (A.F)" which is called 2nd phase from July 2017 to June 2023 to improve drainage and socio-economic development of the local people, so as to enhance agriculture and fishery production in 80,000 hectares areas of nine sub-projects located in the districts of Faridpu, Gopalganj, Narail, Magura and Rajbari in the South-West region, with the grant support from the Government of Bangladesh and the Government of Netherlands, and financial assistance from the Asian Development Bank. Considering comprehensive succeed and sustainable management of the project, as well as underscoring its activities, the authorities took an initiative, named „AfterCare“, to provide guidance and institutional support to the beneficiaries of the project in the 1st phase project located in Narail & Jessore districts. This project is an ideal example of local community- driven development in the light of "Participatory Water Management Act-2014".

The main objective of the project is to reduce poverty and achieve sustainable economic growth in the rural areas of the southwestern areas, increasing agro-fisheries resources through the sustainable implementation of flood control, drainage-system improvement and irrigation management, and hand over the responsibility of the operation and maintenance of the physical infrastructures to the water management organizations. Each sub-project area comprises of several independent sub-units. The area of each sub-unit is determined on the basis of the independent hydrological periphery. Before the commencement of the project several water management organizations (WMG, WMA, and JMC) were formed at different layers. Then, the participatory plan preparation and implementation activities took place identifying existing problems, demand and opportunities, ensuring dynamic participation of the water management organizations.

In the impact evaluation study, both formal and informal interviews such as beneficiaries and control group respondents interview, focus group discussion, secondary data collection and analysis, and project area visit and real situation observation etc. were conducted with data analysis. To compare the impact of the project, direct interviews were taken from control group respondents who were selected from inside & outside of the WMGs. Furthermore, to collect data and evaluate the quality impact of the project, interview of BWDB' local officials, officers of the Department of Agriculture Extension, and local representatives, who were associated with the project, were taken. Additionally, it was also evaluated whether the procurement activities under the project were

Conducted following the existing procurement acts and regulations. The impact evaluation report has been prepared based on the collected information.

In order to maintain integrated water management, several infrastructures had been constructed/repared considering the demand of the beneficiaries, which include construction/ re-sectioning of 29.08 km embankment, re-excavation of 354.00 km Khal, repair/rehabilitation of 38 no. regulators, construction of 5 no. regulators, construction of 10 no. footbridges, construction of 41 no. inlet/outlet structures, riverbank protection works of 2.038 km, construction of 23 WMG training centres, installation of 243 Arsenic free tubewells, rehabilitation of 9 irrigation schemes and construction of

32.737 km carpeted/HBB village road. After reviewing the papers related to the procurement procedures, it has been found that the government rules & ADB Guideline concerning the procurement of materials have been followed properly such as the PPA-2006, PPR- 2008 development partner's guideline.

After reviewing the documents, it has also been noticed that the total capital of the water management groups formed from 2017 to 2023 was Tk. 665.26 Lakh and a total of Tk.43.69 lakh deposited in their Operation and Maintenance account, which is an important indication of the success story of the water management groups formed under the sub-projects.

According to the beneficiaries, crop protection has increased due to infrastructure development under the project. Although natural fish production, as a consequence, has declined, overall fish production has increased with cultured fish.

According to social survey 100 percent of the beneficiaries their income increased after the implementation of nine sub-projects, which helped them eradicate their poverty to some extent. Those who participated in the survey informed that several initiatives were taken to serve the interest of destitute women and children, i.e., launching training activities, disbursing sewing machine, allocating goats and ducks, producing organic fertilizers, growing vegetables in the yard, and installing arsenic-free deep tube wells, etc. For each tube well, a WEL group comprising of 15 female members is formed to maintain those tube wells. To boost up the socio-economic condition of the village dwellers, money was invested in income-generating participatory activities under comprehensive action plans, which has created employment in the area. There are some coordinated activities on agriculture such as production and distribution of seeds and guti Urea, production of honey and high-value vegetables, fishery cultivation includes pond lease and fishery farming. According to the respondents, proper protection of Environment and Ecology has been considered while project's each work was implemented; apart from training on environment awareness, embankment and social forestry activities have been implemented initiated in the project area. Due to training on environment-friendly Integrated Pest Management (IPM) of beneficiaries, resulting in the balanced use of chemical fertilizer and reduction of pesticide application, aquatic animals such as snail, oyster, frog, etc. have increased as usual.

Short term recommendations for the project:

- For the sustainability function of the infrastructure, the officials of the concerned ministries including the Bangladesh Water Development Board should pay regular visits to the project areas and keep them under constant monitoring.
- Engineers of the Bangladesh Water Development Board should take prompt initiatives to fix the inactive regulators and allot an adequate amount of money for the operation and maintenance.
- As the rehabilitation projects are initiated for the welfare of the local community, they must be involved in the committees while building the infrastructures. The water management organizations should also be included in the process.
- Workshops can be organized in the subproject areas to stop throwing wastes in the main Khals and public awareness should be built to make people understand about cleanliness so that they do not throw rubbishes in the open canals. To catch fishes through irrigation should be banned. These could be done through leaflets, miking and workshops. Officials of the Bangladesh Water Development Board should participate in these activities
- Local fishery and agricultural officials should train up the members of the water resource organizing committee, especially those who are involved in farming and fishery.
- Follow up meeting should be held between experts of the Bangladesh Water Development Board and local beneficiaries. There should be taken an initiative to rejuvenate the morale of some inactive officials of WMG and WMA by selecting a capable person to lead the team.