BANGLADESH WATER DEVELOPMENT BOARD



PROJECT COMPLETION REPORT: IMED-04/2024

Name of the Project: Bangladesh Weather and Climate Services Regional Project. (Component B): Strengthening Hydrological Information Services and Early Warning Systems.

PROJECT PERIOD: JULY 2016 - JUNE 2024

July 2025

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

PROJECT COMPLETION REPORT (PCR): IMED 04/2024 (Revised)

A. PROJECT DESCRIPTION

01.	Name of the Project	T	Bangladesh Weather and Climate Services Regional Project. (Component B): Strengthening Hydrological Information Services and Early Warning Systems.		
02.	Administrative Ministry/Division		Ministry of Water Resources		
03.	Executing Agency	:	Bangladesh Water Development Board		
04.	Planning Commission Sector/Division		Physical Infrastructure Division		
05.	Type of Project (Investment/To	ype of Project (Investment/Technical/Feasibility	cal/Feasibility Study): Investment		
06.	Location of the Project (As per	Proj	ect Document):		
Sl. No	Division		District City Corporation/ Municipality/Upazila		
	The Project implemented allo	over E	Bangladesh		
					

07. Estimated Cost, Implementation Period and Approval:

(In Lakh Taka)

Subject		Approved Est	timated Cost		Implementation Period	Date of Approval	Approved by
	Total	GOB (Foreign Exchange)	PA (RPA)	Self- finance			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Original	34,064.83	2,203.95	31,860.88	-	July 2016- June 2021	14 February 2017	ECNEC
1st Revised	34,064.83	2,203.95	31,860.88	-	July 2016- June 2021	18 October 2018	Ministry of Water Resources
2 nd Revised	34,569.96	4,827.23	29,742.73	-	July 2016- June 2023	25 August 2021	Plannin g Ministry
1 st No Cost Extension	34,569.96	4,827.23	29,742.73	-	July 2016- June 2024	18 July 2023	Ministry of Water Resources
Intercompone nt Adjustment	34,569.96	4,827.23	29,742.73	-	July 2016- June 2024	09 October 2023	Ministry of Water Resources

08. Objective of the Project

Overall objective:

The objective of the project is "to strengthen Bangladesh Water Development Board's capacity to deliver reliable weather, water and climate information services and improve access to such services by priority sectors and communities".

Specific Objectives (in bullets):

- To provide comprehensive support to the BWDB towards modernization of its hydrological monitoring network and operations.
- Procurement of hydrological equipment.
- Improvement in flood forecasting covering whole Bangladesh including flash flood and storm surge/cyclone induced flood.
- Development of other water related hazards forecasting/prediction services.
- Forecast products diversification and down- scaling.
- Knowledge creation on trans-boundary hydrological cross-cutting issues.

09. Background of the Project (In brief):

As a low-lying delta, Bangladesh has one of the most complex river systems in the world. The main commission of BWDB is the implementation of the National Water Policy. This requires, management and operation of the FFWC, production and supply of reliable data for not alone flood forecasting, but also for the national water resources management and for related decision-support. As such BWDB is responsible for the national hydrological services to supply relevant data information for water resources management.

The hydrological services are provided by BWDB through BWDB Hydrology. The core function of the hydrological services under BWDB Hydrology is to collect data from nation-wide monitoring stations. Most of its hydrology network was established back in 1960-1980, with support from development partners. Bangladesh Water Development Board is maintaining around 343 water level stations, 269 rainfall stations, 50 meteorological stations, 1800 ground water stations in the country through Hydrology, BWDB. There has been little upgrading since the installation. The overall data collection network remains manually operated with old and poorly maintained equipment. This limits BWDB to provide reliable information to various stakeholders effectively.

The internal institutional setting of BWDB is inadequate, in which Hydrological services are not given the proper attention, which is partly indicated by not being provided with an adequate operational budget, man power for running and to maintain the hydrological monitoring, and reporting system. BWDB is currently undergoing a major restructuring. Its staff strength is being significantly reduced, and some services are intended outsourced. In this restructuring process it is important that BWDB Hydrology obtains an institutional and financial position that secures an effective operation of the hydrological services including provision of flood forecasts, early warning, low flow and groundwater monitoring.

To evaluate the situation with concerned offices a World Bank Identification Mission visited Bangladesh during November 2-10, 2014 and subsequent preparation mission visited in February 15-26, 2015 and June 1-11, 2015 proposed interventions for modernization and integration of hydrological services in Bangladesh with the focusing of different stakeholders. A follow up World Bank mission visited Bangladesh from September 13-23, 2015, Appraisal Mission from December 6-December 15, 2015 and Technical Mission from February 22-25, 2016 to continue preparation and finalization of the Weather and Climate Services Regional Project (WCSRP).

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The main objectives of mission visit (Sept. 13-23, 2015) were to:

- finalize project implementation arrangements,
- review the status of preparation plans for the project relating to technical environmental, procurement and financial management,
- agree on the results framework, including indicators, baseline and targets,
- develop action plans to ready the project for appraisal and
- to evaluate readiness of the project.

The purpose of appraisal mission visit (Dec. 06-15, 2015) were to:

- agree on the final design of the proposed project with the Economic Relations (ERD) and the allied departments including the Ministry of Defense, Ministry of Resources and Ministry of Agriculture;
- finalize the project implementation timeline, progress of the DPP prep procurement plan and priority tender document finalization; and
- develop action plan for next steps to ready the project for implementation.

The main objectives of the technical mission (Feb. 22-25, 2016) were to discuss technical issues with the three focal agencies for the Weather and Climate Services Regional Project to expedite the negotiation.

The project has 3 components:

Component A: Strengthening Meteorological Information Services (IDA: US\$ 58.88 million: This Component strengthen BMD's meteorological monitoring network, capacity and delivery of weather and climate services. It has three sub-components.

Component B: Strengthening Hydrological Information Services and Early Warning Systems (IDA: US\$40.615 million): The main objective of this component is to improve hydrological observation, forecasting, and early warning systems. The component would be implemented by the BWDB.

Component C: Agro-meteorological Information Systems Development (IDA: US\$ 13.50): The objective of this component is to provide agro-meteorological services to farmers in order to increase agricultural productivity and assist them in coping with weather and climate extremes.

10. Major Activities:

The main objective of this component is. to improve the provision of hydrological services in Bangladesh by strengthening hydrological observation, forecasting, and early warning systems. The component would be implemented by the BWDB and includes the following:

Sub-component B1: Strengthening Hydrological Observation Network and Forecasting: This sub-component has supported modernization of BWDB's hydrological monitoring network, ICT Systems and forecasting.

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This comprises of the following activities:

(a) Sub-Component B1.1: Strengthening Hydrological Monitoring and ICT systems:

This includes

- > support for a Water Resources System Integrator (WRSI) consultancy to assess, design, prepare technical documentation and support. BWDB in the implementation of key project activities;
- > upgrading 308 manual water level stations to be equipped with automatic data collection and reporting in real-time;
- > upgrade 257 rain gauges to automatic and real time;
- > upgrade 10 existing climate stations operated by BWDB;
- > upgrade or establish 1100 groundwater stations and nests of various configurations to automatically report measurements;
- > purchase of 4 catamarans and 4 survey boats for coastal hydrographic survey and stream gauging;
- > purchase 04 vertical profiling ADCPs;
- > purchase 01 Side Scan Sonar;
- > purchase of 20 water quality sondes for measuring salinity and total dissolved solids (TDS);
- > purchase 8 echo sounders to support river gauging and river morphology measurements; and purchase of 2 survey grade echo sounders;
- > establish 40 land based coastal storm surge inundation stations;
- > procure 15 handheld TDS meters;
- ➤ acquisition of 8 total stations (used for aiding river morphology surveys), 13 RTK-GPS. 6 DGPS beacon receiver, 4 first order digital leveling machine and 2 Sub bottom profiler 5-10m penetration capacity;
- > upgrade of the existing hydrological measurement equipment maintenance, repair and calibration facility at BWDB; and
- > upgrading BWDB ICT systems and communication systems including links with local offices.

(b) Subcomponent B.1.2: Hydrological met Flood Forecasting: This includes

- > purchase of 4 Nowcasting workstations for short lead time events and development of flash flood forecasts for flash flood prone areas;
- > upgrade existing flood forecast models to cover coastal areas;
- ➤ hardware and software for development of medium range (weeks up to a month) and long range (seasonal) forecasts and capacity for 24/7 flood forecasts during pre-monsoon, monsoon and post monsoon seasons as needed;
- > Forecast and model of Groundwater table trends emphasizing dry irrigation period.

Sub-component B2: Institutional Capacity Strengthening, Regional Collaboration, Project Management, Monitoring and Evaluation: The main objective of this sub-component is to strengthen BWDB's Hydrology Division's technical capacity, regional collaboration, project management, monitoring and evaluation. This includes the following-

- (c) Sub-Component B2.1: Technical and institutional Capacity Strengthening and Regional Collaboration which includes:
 - > consultancy on training needs assessment;
 - > training for BWDB officials through a combination of in-house training, study tours, targeted training courses in collaboration with other Hydro-met agencies, twinning arrangements;

- development of data sharing policy for BWDB;
- > consultancy to support refurbishment of BWDB and Divisional offices;
- refurbishment of BWDB and divisional offices;
- > regional technical studies and consultations, and
- > support to scaling up ongoing regional initiatives and programs.
- (d) Sub-Component B2.2: Project Management, Monitoring and Evaluation which has supported project management by supporting PIU and PCU functions-through hiring of technical experts and consultants, technical studies and-monitoring and evaluation.

Sub-Component B2.2 has supported project management activities, technical studies and monitoring and evaluation. Funding has been used to hire a project technical advisor, procurement consultant, financial management consultant, environment consultant, monitoring and evaluation and social and communication consultant. This Sub-Component has also provided support for project coordination activities undertaken by the PCU located at the BWDB.

Sub-component B3: Strengthening Hydrological Services and Flood Early Warning Systems: This sub-Component aims to strengthen BWDB service delivery for hydrological and flood forecasting services. It comprises of the following activities:

- (e) Sub-Component B 3.1: Hydrological and Flood Early warning Services; which includes:
 - > Baseline survey to assess user needs;
 - > GIS center design, software & training;
 - > software to share data within BWDB and with BWDB stakeholders, along with exchanging observation data in real-time with BMP (such as BWDB automatically sending BMD rainfall data, and BMD automatically sending BWDB rainfall data, QPE/QPF's, as an automated subscribed service etc.
 - > product development;
 - installation of web-portal for sharing data and products with stakeholders:
 - > implement software/to provide automated product generation based on requirements from stakeholders; and
 - consultancy to design and implement the Common Alerting Protocol (CAP) system (involving computers, software and end user facilities), in collaboration with the Department of Disaster Management, the BWDB and other end-users;
- (f) Sub-Component B 3.2: Community Based Early Warning Services: which includes support to Community based early warning systems for flash flooding in two districts in the northeast of Bangladesh.

11. Reasons for Revision (if applicable):

• First (1st) Revision:

A few discrepancies/inconsistencies including incorrect economic code of DPP have detected which causes impediment of project implementation and IDA (The World Bank) has given some observations and suggestions on the ToR of Consultancy Services attached in the approved DPP. Under these circumstances, it is required, to revise the DPP for smooth implementation of the project.

The main features of proposed revision and item-wise reasons/ justifications for variations in cost (if any) are described below:

a) Correction of the Economic Codes:

i) Economic Code 4827: Printing, Publication and Binding

The items and fund allocated for Economic Code: 4827 (Printing, Publication and Binding) is proposed to split as Economic Code: 4827 (Printing & Binding) amounting BDT 19.50 lac and Economic Code: 4835 (Publications) amounting BDT 30.00 lac.

ii) Economic Code4848: PCU and PIU operational cost

The item description of Economic Code: 4848 mentioned in DPP is "PCU and PIU operational cost" which is incorrect. Correct item description (code 4848) is "Management Charges (PCU and PIU Operational Cost)". In proposed RDPP Economic Code: 4848 has been splited into 09 codes (4815: Postage, 4817: Telex/Fax/Internet, 4833: Advertising and publicity, 4888: Computers & consumables, 4889: Audit fee, 4893: Hiring Charges, 4899: Others, 4921: Office Buildings & 4991: Others repair and maintenance).

iii) Economic Code 4883/4806/4816/4819/4821/4822/4805/4899: Salary and other allowances of counterpart BWDB staff, Direct Recruit, Outsourced Employees and Costing of Project Management Support:

In the DPP, a number of Economic Code numbers are given for the item "Salary and other allowances of counterpart BWDB staff, Direct Recruit, Outsourced Employees and Costing of Project Management Support" which is erased and each and every item with economic codes inserted in Item-8 (of revised DPP format).

iv) Economic Code 4883: Honorarium for meeting, seminar and workshops:

In the DPP, salary of the employees is mistakenly shown against Economic Code: 4883. It is corrected to Economic Code: 4501 (Pay of officers).

v) Economic Code 6807: Hiring of Vehicle

Hiring charges (Vehicle: Double Cabin Pickup) is mistakenly mentioned in code: 6807 which is corrected by Economic Code: 4893.

vi) Economic Code 6851: Supply of Calibration goods, GIS/Satellite Images, DEM etc. & Data sharing, collaboration on identifying & mitigating transboundary risks and others.

Economic. Code: 6851 is incorrect and mistakenly duplicated. Correct codes are 4829 & 6817 in which Data Sharing, Collaboration on identifying & mitigating transboundary risk, Community based EWS in 2 flood prone districts and Supply of Calibration goods, GIS/Satellite Images, DEM etc are accommodated respectively.

vii) Economic Code 6820: Advertising and Publicity, Sampling, Testing, and Analysis GW, Survey, Study & Investigation

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The item set forth against Economic Code: 6820 is "Advertising and Publicity, Sampling, Testing, and Analysis GW, Survey, Study & Investigation "which is proposed to replace by Testing fee (4885), Advertising and Publicity (4833) and Survey (4886).

viii) Economic Code 7000: operation & maintenance cost and refurbishing of hydrology office buildings and establishment of hydrolab etc.

Economic Code: 7000 is incorrect and mistakenly duplicated. Correct codes are 7016 & 4932 in which other building & structures and engineering equipment has been procured respectively.

b) Procurement of Goods (Economic Codes 6814):

In the approved DPP, BDT 13983.24 lac was allocated to procure Engineering Equipment by 06 (six) packages (G1- G6). In the procurement plan, mistakenly no budget was allocated for package G-3 (to procure four Catamarans and four Survey Boats). Summing six packages (G1-G6) total costs stands BDT 13610.78 lac which means allocation for package G-3 is (13983.24 - 13610.78) = BDT 372.46 lac. With this allocation for package G3, purchase of 1 (one) Catamaran and 1 (one) Survey Boat is not even possible instead of 4 (four) nos. of each respectively. Hence allocation increased to BDT 513.19 lac (with the adjustment within Economic Code 6814) and accordingly, Specification has been incorporated in the revised DPP.

In package no. BWDB-G4 in DPP, the technical specification of the side scan Sonar was missing. So, in the revised DPP, the specification of the side scan sonar has been incorporated accordingly (Appendix-H).

c) Survey, Study and Investigation (Economic Codes 4886):

All the BWDB's hydrological monitoring stations are referenced with Public Works Datum (PWD) which was established 60-70years back. Survey of Bangladesh (SoB) has mandated to fix datum value and they established around 3000 bench mark (BM) pillars all over the country. In recent years, through field survey, many of the BWDB used datum value (referenced with PWD) found different with SoB's datum value. For any hydrological/survey data, datum value is most important and BWDB authority has decided to use SoB's datum value instead of PWD datum value. So, all the BWDB's hydrological monitoring stations datum value needs to check and reestablish.

In the approved DPP, BDT 157.1 lac has been allocated for one package, no BWDB NS-6 (Survey, Study and Investigation). This amount is not enough to complete these important activities (Check/connect/establish/re-establish BM pillars for 308 nos. water level, 1250 nos. ground water wells, 257nos rainfall and 3 nos. weather stations). Hence, in the Project Steering Committee (PSC) meeting it was decided to allocate more 600.00 lac taka from block allocation (total 157.1+600=757.1 lac Taka.) (decision no. VI).

Accordingly, the total Survey, Study and Investigation tasks can be divided into 04 nos. packages (03 packages under revenue component and 01 package under capital. component).

- i) Detailed site survey for selection of hydro-met stations (308 nos. water level, 257 nos. rainfall, 3 nos. weather and 69 nos. new nested groundwater well stations). Considering the specialization of survey components, this work can be awarded to Institute of Water Modeling (IWM) in DPM/Single Source tendering method. The approximate estimated cost for this package is BDT 60 Lac which is known as
- ii) Flying of level (SoB Value) to the BWDB BM pillars of 308 nos. surface water level stations. This work can be awarded to Survey of Bangladesh (SoB) in DPM/Single Source tendering method. The approximate estimated cost for this package is BDT 240 Lac which is known as package no BWDB-NS5.

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- iii) Establish BM pillars for 308 nos. surface water level stations by OTM method. The approximate estimated cost for this package is BDT 257.1 Lac which is known as package no BWDB-W-5.
- iv) Flying of level (SoB Value) to the BWDB groundwater level stations (top of well) by OTM method. The approximate estimated cost for this package is BDT 200.00 Lac which is known as package no BWDB-NS8.

d) Inappropriate/omitted/misplaced items with Economic Codes:

Some important/essential items are appropriate/missing/misplaced in the DPP as well as some unnecessary items and codes are incorporated. For smooth functioning of the project the following new items with economic code/rightly placed items has been incorporated in the proposed RDPP shown table below:

Budget; Head	Item code	Item Description	The second control of	Amount in BDT (Lac)	Reasons '
	4501	Pay of Officers	Inappropriate	50.20	Wrongly placed in code 4883
	4801	Travel Expenses	Misplaced	49.24	Wrongly placed in code 4883
	4829	Research/Innovative Expenditure	Misplaced	2200.00	Misplaced code: 6851
	4835	Publication	Inappropriate	30.00	Wrong economic code 4827
	4885	Testing Fee	Misplaced	393.50	Wrong economic code 6820
Revenue	4848	Management charges	Omitted	393.10	Placed in correct Code (4815,4817,4883,4888, 4889,4893,4899,4833,4921, & 4991)
	4932	Engineering Equipment	Misplaced	100.00	Wrong economic code 7000
	4795	Others allowances @30% project allowance (on basic pay) for BWDB deputed employees. (Appendix- I)	New	50.00	Wrongly addressed as "Salary and other allowances of counterpart BWDB staff"
	4886	Survey	New	552.90	Insufficient allocation and wrong economic code 6820
	7016	Others Buildings and structures	Misplaced	2366.00	Wrong economic code 7000
Capital	6815	ICT system including VC's in 13 location	Omitted	945.10	Placed in correct code 6823 & 6816

e) TORs of the Consultancy Services (Firm) (Economic Codes 4874):

As requested by World Bank (for effective functioning of consultants), the following changes, inclusion and/or exclusion are made in the ToR for the appointment of the WRSI Consulting Firm:

Under the Task 1.5: Institutional and human capacity development plan that meets the requirements of a modernized Hydrology wing of BWDB, inclusion of The Consultant has presented the draft report to the BWDB senior management (DG, ADG, Chief Planning etc.) before finalization' is proposed.

Under the Task 2.2: Coastal flood inundation stations, inclusion of 'The type of water level measurement sensors should be reviewed from the accuracy, reliability, affordability, and O&M standpoints. For the inundation stations benchmarking, BWDB is planning to use the national datum* has been proposed.

The title of the Task 2.3: Video Conference Technology has been excluded, but this Task has been included under the Task 2.3 ICT improvements.

Under the Task 3.7: Consultancy to develop the capacity to forecast inundation due to storm surge, inclusion of The Consultancy has reviewed existing, publicly available (e.g. DEM in place in Google Earth) or newly obtained DEM data and update them for the inundation forecast' has been proposed.

Under the general requirements of the consultant, inclusion of 'It is expected that the team has had a minimum of 4 key experts with international breadth of experience that can span the required expertise. The 4 key experts has been accompanied by well- qualified national team members of the bidders choosing that has generally worked subordinately and under the direction of the key experts. All key experts has been required to have experience in managing teams as it is expected that the key experts has managed national team members, provide guidance, and provide detailed review of all analyses/deliverables has been proposed.

More Scope of Services has been proposed for the Team Leader (International Experience) by including 'and has had leadership and responsibility for delivery of all consultancy outputs and results. In addition to being involved closely in the assessment phase and managing experts in the team, the TL has also been responsible for delivery of outputs related to 1-2 key competencies listed below (such as Hydro met monitoring and observation systems, hydrological forecast systems, Early warning, Institutions and policy, or Training etc.) and for providing expert guidance to national members of the team'. Annual distribution of man months has been rearranged by keeping the total man month for this position unchanged.

It is recommended to include BSc degree in ICT as educational qualification under the position of Information and Communications Technology Systems Expert.

Besides, minor rephrasing the sentences and rearranging the serials have been made in some cases.

• Second (2nd) Revision

At the very beginning, a few discrepancies/inconsistencies including incorrect economic code of DPP caused hindrance in payment thus retarded the project progress. In the meantime, the World Bank had given some observations and suggestions on the TOR of Consultancy Services attached in the approved DPP. Under those circumstances, it was necessary to review the DPP for smooth implementation of the project. The first revised DPP was submitted and was approved by the Ministry of Water Resources in July 2018. The Financing Agreement of the project was signed on 05 April 2017 between GoB and World Bank (IDA), according to the agreement date of closing of financing is December 31, 2022. Administrative approval from the Ministry of water resources was issued on 19 June 2017 and the Project Director was appointed on 11 July 2017. So, the project was started late and missed the first two financial years in its implementation.

Again, the Financing Agreement was amended on 14 May 2020 and RPA 4.7905 million USD has been withdrawn reducing total RPA contribution to 35.8295 million USD. As, i) RPA USD 4.7905 Million has already been Withdrawn by the World Bank ii) The implementation of the project commenced with almost 02 (two) years delay, iii) Due to delay of selecting a consulting firm to undertake the assignment of Water Resources Systems Integrator (WRSI) consultancy, the most critical technical consultancy for implementation of the project, iv) The contract period of the most important packages (G2 & G6) has ended on March 2022 and further one (1) year needed for Data accruing and Operation & Maintenance by the original vendor which is mandatory according to WB and while WRSI consultant's advice, (which was not considered initially) v) Some packages are reorganized and some new packages are also included in the project for achieving the objectives of the project, vi) the date of closing of financing agreement (FA) of this project is December 31, 2022, also World Bank Task Team Leader (TTL) suggested to keep the project's closing date six months beyond the closing date of financial agreement. So, it does not require extension of FA, therefore project implementation period proposed to extend up to June 2023. For these reasons 2nd revision of the project is necessary. Also, in amended FA both GoB and WB (IDA) has agreed to revise the existing DPP to accommodate the changes.

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The main features of the proposed revision and the item wise reasons/justifications for variations in budget are described below:

A) Proposed Allocations under Revenue Codes:

- i) Pay of Officers (Economic Code 4501; New Economic Code 3111101/3111304/3111306/3111310/3111311/3111199/3111325/3111335):
 - BWDB's officers engaged in the project office are not being paid from the project allocation. They are paid from BWDB establishment budget against their permanent posts. So, the allocation of BDT 50.20 Lac has remained as savings.
- ii) Overtime (Economic Code 4795; New Economic Code 3111327):
 - No BWDB's staff is engaged in this project office, therefore the allocation of BDT 3.50 Lac is being considered as savings.
- Postage/Registration fees (Economic Code 4815/4818; New Economic Code 3211119/3221104/):
 Postage (code 3211119) and Registration Fee (code 3221104) are dropped as no expenditure incurred so far and has not incurred further.
- iv) Fuel and gas (Economic Code 4822; New Economic Code 3243102):
 Based on the expenditure incurred up-to 30 June 2020, it is considered that further Tk.1.51 Lac would be needed during the proposed extended project period, hence remaining BDT. 28.49 Lac has remained as savings.
- v) Petrol, Oil & Lubricants (Economic Code 4823; New Economic Code 3243101):
 - As expenditure incurred up-to 30 June 2020 is BDT 4.35 Lac it is considered that BDT 100.0 Lac has been quite sufficient to meetup the total expenditure till the end of proposed revision. Therefore remaining BDT 50.00 Lac has remained as savings.
 - Insurance & Bank charges (Economic Code 4824; New Economic Code 3221108/3821116):

As expenditure up-to 30 June 2020 incurred BDT. 42.31 Lac it is assumed that an additional amount of BDT 106.00 Lac has been required to meet up the L.C. commissions for the package of BWDB G-2 and BWDB G-6 till the end of the proposed extension.

vi) Training Expenses (Economic Code 4840; New Economic Code 3231101/3231201/3231102):

Based on the expenditure incurred up-to 30 June 2020, it is considered that further Tk.441.20 Lac would be needed during the proposed extended project period, hence the remaining BDT 400.00 Lac has remained as savings.

viii) Research/Innovative Expenditure (Economic Code 4829; New Economic Code 3257103/ 3257105):

This code comprises three (3) packages, out of which a) Regional Data Sharing (Package NS2, RDPP cost BDT 904.13L) has been dropped because of it would need to involve the governments authorities of the two countries (Bangladesh and India), which is beyond the scope/jurisdiction of this project, b) Design of Hydro-Lab (Package NS11, RDPP cost BDT 37.95L) has been completed by BDT. 35.42 Lac and c) RDPP cost for Community based Early Warning System (EWS, Package NS3) in the 2-flash flood prone Upazillas under Netrokona & Sunamgonj districts has been reduced to BDT.251.58 Lac. So, from the proposed total expenditures of BDT 287.00 Lac the remaining BDT 1913.00 Lac has remained as savings.

ix) Consultancy (Economic Code 4874; New Economic Code 3257101):

In the 2nd RDPP extension of project has been proposed up-to 30 June 2023. In order to achieve the goal of this project, the consultancy services need to be extended, modified & three new packages are included in this code. So, an additional amount of BDT 1200.00 Lac has been required in this head.

x) Testing Fee (GW Quality Testing) (Economic Code 4885; New Economic Code 3221105):

Ground Water testing contract awarded with a contract value of BDT 299.92 Lac, consequently remaining BDT. 93.58 Lac (out of BDT. 393.50 Lac) has remained as savings from this package.

xi) Survey (Economic Code 4886; New Economic Code 3257104):

This code comprises three (3) packages a) Survey of Benchmark (NS6) has been completed with BDT.59.26 Lac. b) Survey, Study & Investigation (NS8) has been completed with BDT. 101.36 Lac and c) Survey of BM for SW Station (NS5) is ongoing where contract price is BDT 190.00 Lac. The remaining BDT 202.28 Lac from the said 3-Packages has remained as savings.

xii) Hiring Charges (Economic Code 4893; New Economic Code 3211107):

The 2nd RDPP for extension of the project proposed up-to 31 December 2022 had in order to enhance the capacity of the offices of the Executive Engineers at field level and to facilitate the movement of the project personnel eight (08) Double Cabin Pickup/Jeeps and two (02) Micro-buses proposed to hire on rental basis up-to June, 202;1. As the closing date of the project is extended up-to December 31, 2022. Two new packages for hiring (BDT 250.0 Lac for BWDB-NS7A & BDT 70.0 Lac for BWDB- NS9A) of vehicles are included in the revised DPP with an estimated budget of BDT 320.00 Lac.

Considering all the requirements, expenditure in this head has been increased to an additional amount of BDT. 172.34 Lac.

- xiii) Vehicle (Economic Code 4901; New Economic Code 3258101):
 - Based on the expenditure incurred up to 30 June 2020 and probable onward expenditures for maintenance of three (3) vehicles of the project office a total amount of BDT 22.00 Lac has been proposed till end of 2nd RDPP and the remaining BDT.
- xiv) Others (Economic Code 4899; New Economic Code 3256101):
- xv) Based on the expenditure incurred up to 30th June 2020, BDT 66.43 Lac from RPA fund is additionally required to meet up the cost of different import related charges and airport charges (Govt., fees and Charges).

The PEC meeting on DPP 2nd revision happened on 3rd June 2021 and the compliance of PEC meeting is inserted as Appendix-A on page 35. So, according to all the PEC meeting discussion and considering all the savings and additional requirements as narrated above (i to xiv) savings of BDT. 228.41 Lac GoB and 1013.87 Lac (RPA), so net savings have stand at BDT. 1242.28 Lac under Revenue Codes.

B) Proposed Allocations under Capital Codes:

- i) Acquisition of land (Economic Code 6901; New Economic Code 4141101):

 According to the DPEC meeting on DPP 2nd Revision, an Inspection Bungalow/ Site office need to be established in the St. Martin's Island for which 33 decimal land need to be acquired. An estimated budget of BDT 80.00 Lac to be financed from GoB fund for this new component.
- ii) Procurement of Vehicle (Economic Code 6807; New Economic Code 4112101):

 Purchase of 3-package, 1) 2-Cross country vehicle, 2) 1-Double cabin pickup, 3) 40- Motorcycle has cost BDT. 284.06 Lac though total allocation was an amount of BDT 330.24 Lac. This means an amount of BDT. 46.17 Lac (RPA) has remained as savings in this head.
- iii) Procurement of Engineering Equipment (Economic Code 6814; New Economic Code 4112304):
- a) In package BWDB-G1, the work for up-gradation (automation) of Ground Water Stations is going on with a contract value of BDT 3900.00 Lac against RDPP allocation of BDT 4045.61 Lac. Plence, an amount of BDT 145.61 Lac remains as savings.
- b) In package BWDB-G2, 308 water level stations were identified for automation.

During the locations study by WRSI consultants and also as per recommendations of WB experts, 31 stations were not scientifically feasible, 29 water level stations found automated earlier under WMIP project and another 07 water level stations had been automated under HYCOS project though those water level stations required to be incorporated into BWDB-G2 package because at present those water level stations are quite dysfunctional, which was accordingly recommended in the 2nd steering committee meeting. While two new stations, one at Dimla point on Teesta River and another one at Janepur of Kushtia District on Garai River, have been added as per recommendations of BWDB, and the Senior Secretary of MoWR. Now the total Water level stations has been automated under BWDB-G2 package is 315. On the other hand, 257 rainfall stations have been identified for automation. Similarly, eight (08) rainfall stations automated

earlier under WMIP project, and seven (7) rainfall stations automated under HYCOS project also required to be incorporated in BWDB-G2 package for the same reasons as stated above. Hence the total number of rainfall stations that has been automated under BWDB-G2 package is 272 stations. However, the Package value has been BDT 6618.36 Lac.

- c) In package BWDB-G3, one (1) Survey Boat and one (1) Survey Catamaran have been procured with a bill amounting BDT 512.00 Lac against the allocation of BDT 513. Lac and hence BDT 1.19 Lac has remained as saving from this package (BWDB-G3).
- d) In package BWDB-G4, procurement of Hydrology Equipment has been completed with a bill amounting BDT 625.66 Lac against an allocation of BDT 625.67 Lac, hence there remains no savings from this package (BWDB-G4).
- e) In package BWDB-G5, procurement of Morphology Equipment has been completed with a bill amounting to BDT 960.00 Lac against an allocation of BDT 1147.16 Lac, hence BDT 187.16 Lac is saving.

Some new packages are needed for achieving the objectives of the project as below

- f) Purchase of 04 nos. Multi-Beam Echo Sounder with Survey grade Laptop (BWDB-G22): One (01) unit Single-Beam Echo Sounder has already been procured and handed over to C&I Division, BWDB. Hydrology, BWDB does not have Multi- Beam Echo Sounder which is requisite for precision survey purpose. To enrich the Hydro-Morphological survey work four (4) Multi-Beam Echo Sounders with Survey grade Laptop to be procured with an estimated budget of BDT 1600.00 Lac; this package is recommended by WB during Mid-Term Review Mission and has been financed from IDA fund.
- g) Purchase of 06 Nos. Drilling Rig (including Machine) for Ground Water well construction (BWDB-G23):- The existing Rigs of BWDB are semi-mechanical type and inappropriate for higher depth and larger diameter well construction. In BWDB there are not only a few Rigs to meet its requirements but also, they are so old that they need frequent maintenance. The Ground Water Division of BWDB has a huge number of ground water wells all over the country. To keep those wells functional, in- house drilling machine is essential. Based on the field requirement six (6) Drilling Rigs with Machine for Ground Water well construction have been incorporated in the revised DPP with an estimated budget of BDT 150.00 Lac. The WB dining Mid-Term Review Mission recommended this package and ensured finance from IDA fund.
- h) Purchase of Survey Boat and Survey Catamaran (BWDB-G25):- In the approved DPP, procurement of four (4) Catamarans and four (4) Survey Boats was included under package: BWDB-G3. In the first revision BDT 513.19 Lac was allocated under package: BWDB-G3 for purchasing of one (1) Catamaran and one (1) Survey Boat owing to budget constraints. During Mid-Term Review Mission WB recommended procuring the remaining three (3) Survey Boats and three (3) Survey Catamarans. Hence a new package (BWDB-G25) is included with an estimated budget of BDT 1833.42 Lac with finance from IDA fund.

Considering all the savings and additional requirements as narrated above (a to h) net additional requirements stands at BDT 4459.37 Lac (GoB 1593.17 Lac and RPA 2866.20 Lac) under Engineering Codes. BDT 938.23 Lac and additional BDT 654.94 Lac is included in this code for CD/VAT.

- iv) Procurement of Computer Software (Economic Code 6817; New Economic code 4113301): This code comprises the following packages, a) Purchase of DEM (BWDB-G15), b) Procurement of GIS/Satellite Image (BWDB-G15A), c) Procurement of GIS software (BWDB-G14), d) Procurement of Calibration goods (BWDB-G8).
- a) Procurement of GIS/Satellite Image (BWDB-G15A): Procurement of GIS/Satellite Image has been completed with BDT. 329.50 Lac out of an allocation of BDT. 338.78 Lac, hence BDT. 9.28 Lac remains as savings from this package.
- b) Procurement of GIS software (BWDB-G14): Procurement of GIS software has been completed with BDT 97.50 Lac out of an allocation of BDT 100.17 Lac and hence BDT 2.67 Lac remains as savings.

Considering all the savings and requirements as described above (a to b) net savings have remained at BDT 11.95 Lac (RPA) under Computer Software Codes.

- v) Procurement of Office Equipment and Nowcasting Workstation (Economic Code 6819; New Economic Code 4112310):
 - This code comprises the following packages, a) Purchase of Computer Accessories (BWD3-G10B), b) Purchase of Office Equipment (BWDB-G18A), c) Purchase of Office Equipment (BWDB-G18A), d) Purchase of ICT Equipment for Data Centre (new package BWDB-G28), e) Nowcasting Workstation (BWDB-G9)
 - a) Procurement of Computer Accessories (BWDB-G10B) completed with a bill amounting BDT 282.53 Lac against an allocation of BDT 285.10 Lac, hence BDT 2.56 Lac has remained as savings.
 - b) Procurement of Office Equipment (BWDB-G18) completed with a bill amounting BDT 34.99 Lac against an allocation of BDT 35.00 Lac, hence BDT 0.01 Lac has remained as savings.
 - c) Purchase of Office Equipment (BWDB-G18A) completed with a bill amounting BDT 16.40 Lac against an allocation of BDT 17.45 Lac, hence BDT 1.05 Lac has remained as savings.
- d) Purchase of ICT Equipment for Data Centre (new package BWDB-G28):-

Equipment for automation of Ground Water, Surface Water and Coastal flood monitoring stations are under procurement. Data from all stations to be acquired and preserved at hydrology data center. Dissemination of data among stakeholders also to be done by the data center. To enhance the capacity of the data center and the security and authenticity of data, more ICT equipment is needed as per recommendations of WRSI consultants and advice of IT experts of BWDB. So, an estimated allocation of BDT 500.00 Lac for procurement of ICT equipment has been included in the RDPP with a provision of finance from IDA fund.

e) (Nowcasting Workstation (package BWDB-G9):-This package is dropped; hence **BDT 394.28** Lac has remained as savings). ring all the savings and additional requirements as stated above (a to e) a

- net additional requirement of BDT 112.09 Lac RPA under Office Equipment and Nowcasting Workstation Codes.
- vi) Procurement of Laboratory Equipment (Economic Code 6822; New Economic Code 4112306): One (1) ion-Chromatograph has been purchased under this code with a bill amounting BDT 194.56 Lac out of an allocation of BDT 594.64 Lac. The rest BDT 400.08 has remained as savings.
- vii) Procurement of Telecommunication Equipment (Economic Code 6823; New Economic Code 4112205): This code comprise the following packages, a) Purchase of VC-system (BWDB-G10A) for 13 locations has been completed with a bill amounting BDT 148.99 Lac where the allocation was BDT 260.00 Lac, b) Purchase of Mobile Phone (BWDB-G24) completed with a bill amounting BDT 4.00 Lac against an allocation of BDT 4.00 Lac, c) Purchase of VC-system (BWDB-G21) for 25 locations is newly allocated with a proposed price of BDT 350.00 Lac (RPA fund). This package is recommended by WB during Mid-Term review mission and has been financed from IDA fund. Total expenditure required is BDT. 502.99 Lac (RPA), hence proposed BDT. 232.99 Lac (RPA) is additionally required.
- viii) Procurement of Electrical Equipment & IPS (Economic Code 6827; New Economic Code 4112303): This code allocation BDT. 20.00 Lac (GoB 10.0 Lac & RPA 10.0 Lac) out of which BDT. 15.95 Lac proposed in RDPP for future procurement and rest BDT. 4.05 Lac (RPA) has remained as savings.
- ix) Procurement of Building and Structure (Economic Code 7016; New Economic Code 4111201/4111308 /4111317):
- a) Refurbishing HQ (BWDB-W1): Refurbishing HQ of Hydrology Offices (package BWDB-W1) having initial allocation BDT. 563.45 Lac. This allocation is not sufficient to meet up the actual need of the HQ offices, rather more allocation BDT 46.55 Lac is necessary according to the field necessity. A budget of BDT. 610.00 Lac proposed for this head and to be financed from IDA fund.
- b) Supply and Installation of new GW Nests (BWDB-W2): Supply and Installation of new GW Nests has been completed with a bill amounting BDT 586.14 Lac against allocation BDT. 652.55 Lac, hence BDT. 66.41 Lac has remained as savings.
- c) Establishment of Hydrology-Lab (BWDB-W3): Construction work of Hydrology- Lab is ongoing. The allocation BDT 300.00 Lac is not sufficient for the work. An additional amount of BDT. 5.00 Lac is required, hence BDT. 305.00 Lac has been proposed in the proposed RDPP.
- d) Refurbishing Division Level Hydrology Offices (BWDB-W4) & Refurbishing hydrology offices (New Package BWDB-W7): Refurbishing Division Level Hydrology Offices (package BWDB-W4) had DPP allocation of BDT 850.00 Lac. The work already taken up has cost an amount of BDT. 795.00 Lac. This allocation is not sufficient to meet up the actual need of the Division Level Hydrology offices located over whole country. Many field offices require refurbishing but kept out of estimation for refurbishing owing to the budgetary constraints. To include the remaining offices in refurbishing work some additional allocation of BDT 662.50 Lac is required with a new package named (BWDB-W7) to be financed from GoB fund.



- e) Establishment of BM Pillars (BWDB-W5): Under package BWDB-W5, 308 BM Pillars have already been established. The allocation was BDT. 257.10 Lac but the bill amounting BDT 216.71 Lac has been paid, and the rest BDT 40.39 has remained as savings.
- f) Establishment of BM Pillar in 730 Location (New Package BWDB-W6) & Establishment of BM Values (SoB) on BM Pillar in 730 Location (New Package BWDB-W6A): The most of the activities of BWDB's Hydrology wing involves BM level value. Based on field requirement and agreed by World Bank & WRSI consultant a new package (BWDB-W6) is included for establishment of BM Pillar in 730 location with an estimated budget of BDT 556.63 Lac which has been financed from GoB fund. On the other hand, BM Survey for SoB value and identification marble for 730 BM Pillar is a new package (BWDB-W6A) is also included in the DPP 2nd revision with an estimated budget of BDT 383.25 Lac which has been financed from RPA fund.
- g) Security Fencing of Automated Hydrological Stations (New Package BWDB- W8): Under this project 905 nos. G.W. stations. 315 S.W. stations & 272 Rainfall stations has been automated. For the security purpose of these automated stations, security fencing must be required. So, according to the decision of 4th Steering Committee & DPEC meeting on DPP 2nd Revision, the security fencing on the automated hydrological stations to be provided with an estimated budget of BDT 637.50 Lac to be financed from GoB fund.
- h) Establishment of Inspection Bungalow/ Site office at St. Martin's Island (New Package BWDB-W10): According to the decision of DPEC meeting on DPP 2nd Revision an Inspection Bungalow/ Site office need to be established in the St. Martin's Island. An estimated budget of BDT 260.12 Lac to be financed from GoB fund for this new component has been proposed in the RDPP.

Considering all the savings and additional requirements as stated above (a to h) a net additional requirement of BDT 2389.75 Lac. (GoB 2116.75 Lac and RPA 273.00 Lac under Other Building and Structure Code.)

i) CD & VAT (Economic Code 7901; New Economic Code 3821101/3821104):

According to the circular of the Ministry of Finance, CD/VAT has been booked in estimate of procuring items/goods and has been paid accordingly from Engineering Equipment (Economic Code 4112304). The expenditure BDT 10.52 Lac already incurred and the rest BDT 938.23 Lac has remained as savings.

The PEC meeting on DPP 2nd revision occurred on 3rd June 2021 and the compliance of PEC meeting is inserted as Appendix-A on page 35. So, According to all the PEC meeting discussion and considering all the savings and additional requirements as narrated above (i to x) requirement of BDT. 2851.69 Lac (GoB) and 3022.03 Lac (RPA), so a net requirement has stood at BDT. 5873.72 Lac under Capital Code.

11.1 Reasons for No-Cost Time Extension (if applicable):

• 1st time No-Cost Time Extension

Since the work orders were issued to the contractors within the project budget, there is no possibility of an increase in project costs. Therefore, the proposal has been made to extend the project duration without increasing costs.

Although the original approved DPP specified the project implementation period starting from July 2016, activities could not commence due to errors in the economic codes of the project components. After correcting these codes, the first RDPP was approved by the Ministry of Water Resources on October 18, 2018, enabling the project to begin. This initial delay caused the project to fall two years behind schedule.

The appointment of the project's main consultant (Water Resources System Integrator Consultancy) required an additional two years for preparing and approving various Terms of Reference (ToR), Bid Documents, and Technical Specifications for the core activities. This additional time was accommodated in the second revision of the DPP, extending the project duration until June 2023.

However, the COVID-19 pandemic and disruptions in the global supply chain further hindered project progress, delaying the delivery of internationally procured equipment. Despite this, the installation and commissioning of the equipment has been completed. While the commissioning activities for BWDB-G1, BWDB-G2, and BWDB-G6 packages have been concluded, an additional one-year Annual Maintenance Contract (AMC) is included in the main contract. Consequently, the World Bank has extended the financing agreement duration by one year until November 30, 2024.

To complete the Feasibility Study for the second phase of the project (Package BWDB-C24), time is required until December 2024. Additionally, a new upgraded model provided under the project is being used to expand flood forecasting and early warning services from 31 districts to all 64 districts nationwide. The integration of inundation maps into forecasts is ongoing. Although trial forecasts have already been issued, validation of the new model's effectiveness, based on recommendations from international consultants and the World Bank, requires the upcoming monsoon season (June–October) for testing.

Considering the above factors, it is evident that to successfully complete the project, an extension of at least six more months (until December 2024) is necessary.

12. Financing Arrangement (Source-wise):

12.1 Status of Loan/Grant

a) Foreign Financing:

Source	Currency	Amount	Nature	Date of	Date of	Date of	Closing
(s)	as per	in US\$	(Loan/Gran	Agreement	Effectiveness	Original	Revised
	Agreemen	(million)	t/supplier's				
	t		credit)				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
IDA	XDR	45.30	5837-BD	05.04.2017	05.04.2017	31.12.2022	30.11.2024
IDA	XDR	39.83	5837-BD	30.04.2020*	05.04.2017	31.12.2022	30.11.2024*
IDA	XDR	28.55	5837-BD	18.12.2023*	05.04.2017	31.12.2022	30.11.2024*

^{*} Amendment

b) GOB:

Total amount: BDT in	mount: BDT in Loan		Cash Foreign Exchange
Lac			
(1)	(2)	(3)	(4)
4827.23	_	4827.23	-

c) Self-finance/Equity:

Total amount	Self-finance	Equity	Cash Foreign Exchange
(1)	(2)	(3)	(4)
None			

12.2 Utilization of Project Aid (Source wise):

Source (s)	Total	Amount	Actual Exp	Actual Expenditure		Unutilized Amount		
	In Us\$ in million	In Local Currency (BDT in Lac)	In Us\$ in million	In Local Currency (BDT in Lac)	In Us\$ in million	In Local Currency (BDT in Lac)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)		
IDA	28.55	28,980.89	28.06	28,383.73	0.49	597.16		

12.3 Reimbursable project Aid (RPA):

Source (s)	RPA Amount		Amount	Amount	Amount	Remarks
	As per	As per	Spent	Claimed	Re-	
	Project	Agreement			imbursed	
	Document					
(1)	(2)	(3)	(4)	(5)	(6)	(7)
IDA	29,742.73	29,742.73	28,383.73	26,980.89	26,980.89	BDT 1,402.84
						lac spent from
						prior advance
						BDT 2,000.00
						lac

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B. <u>IMPLEMENTATION POSITION</u>

13. Implementation Period:

	Implementation Period as per Project Document		Time Over-run (% of original	Remarks
Original	Latest Revised	implementation	implementation period)	·
(1)	(2)	(3)	(4)	(5)
July 2016-June 2021	July 2016-June 2024	July 2016-June 2024	160%	The project started late and almost no progress
·				during the first two financial years.

14. Cost of the Project:

Description	Estimated Cost		Actual	Cost over-	Remarks
	Original	Latest	expenditure	run (% of	
		revised		original	
				cost)	
(1)	(2)	(3)	(4)	(5)	(6)
GOB	2,203.95	4,827.23	3,937.63	79%	GoB fund increased
PA (RPA)	31,860.88	29,742.73	28,383.73	(-) 21%	as some packages
Total	34,064.85	34,569.96	32,321.36		added in GoB part while RPA decreased due to efficient procurement management.

15. Information regarding Project Director (s):

Name, Main			Responsible	Per	riod	
Designation & Grade. Mobile Number (From Beginning)	Full time (Yes/No)	Part time (Yes/No)	for more than one project	Joining	Transfer	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Mr. A,K, Manjur Hassan Add. Chief Engineer	yes	No	-	11.07.2017	04.06.2018	-
BWCSRP Component-B SHEWS, BWDB, Dhaka Mobile-						
Mr. Md. Saiful Hossain Superintending Engineer	yes	No	_	04.06.2018	18.02.2020	-
BWCSRP Component-B SHEWS, BWDB, Dhaka Mobile- 0	• • •					
Mr. Mashiur Rahman Superintending Engineer BWCSRP Component-B	yes	No	. •	18.02.2020	30.06.2024	-
SHEWS, BWDB, Dhaka Mobile- 01711107605					·	

16. Personnel:

13.1 Personnel of Project implementation Unit (PIU):

Sl. No.	Name of Post	Approved Strength	Employed during Implementation
(1)	(Grade)	(2)	
(1)	(2)	(3)	(4)
1.	Project Director & Superintending Engineer (Grade 4)	<u> </u>	<u> </u>
2.	Executive Engineer (Grade 5)	1	1
3.	Sub-Divisional Engineer (Grade 6)	1	1
4.	Assistant Engineer (Grade 9)	4	3
5.	Geologist (Grade 9)	1	0
6.	Assistant Programmer (Grade 9)	1	1
7.	Estimator (Grade 10)	1	1
8.	Administrative Officer (Grade 10)	1	0
9.	Accountant (Grade 12)	1	1
10.	Surveyor (Grade 16)	1	0
11.	Office Assistant cum Computer Operator (Grade 16)	2	0
12.	Driver (Grade 16)	3	3
13.	Office Assistant (Grade 20)	2	2
14.	Night Guard (Grade 20)	1	1
15.	Cleaner (Grade 20)	1	1
Total=		22	16

16.2 Personnel Required after the Project Completion:

Sl.	As P reposed in Project Document (PI	D)	Recruited	If not recruited explain
No.	Name of Post	Number	(Yes/No)	reason and latest status
(1)	(2)	(3)	(4)	(5)
	After completion operation and maintenance has been carried out by BWDB Hydrology	-	No	Existing Manpower of the BWDB Hydrology has been carriying out the O&M activities.
Total=				



17. Training (Foreign/Local):

	Category	Sl.	Training Description	N	o. of Days/\	Weeks/Months (I	D/W/M),	Batch & Pa	articipants
İ		No.		· A	s in Project	Document		Achieve	ment
				Days	Batch(s)	Participants(s)	Days	Batch (s)	Participants(s)
	(1)	(2)	(3)	(4)	(5)	(6)	. (7)	(8)	(9)
	Local Training	1	Hands on Training on Installation and Operation of Hydrological Equipment (Batch-1)	08	1	12	8	1	1 2
		2	Hands on Training on Installation and Operational Training on Hydrological Equipment (Batch-2)	08	1	1 2	8	1	1 2
		3	Training on Lab and Field Equipment	02	1	15	2	1	15
		4	GIS and Image Processing Software (Arc GIS 10.6.1 and Envi.) (Basic)	15	1	12	15	1	12
		5	GIS and Image Processing Software (Arc GIS 10.6.1 and Envi.) (Advanced)	10	1	8	10	1	8
		6	Google Earth	01	1	37	1	1	37
		7	Technology Transfer (Item No 02)	01	1	11	1	1	11
1		8	GIS/Satellite Image Processing (Item No 03)	14	1	14	14	1	14
		9	Technology Transfer (Item No 04)	63	1	14	63	1	14
			Hands on Training on O&M of Hydrology Equipment.	06	1	12	06	1	12

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Category	Sl.	Training Description	No	o. of Days/V	Weeks/Months (I)/W/M),	Batch & Pa	rticipants
	No.		As	in Project	Document		Achieve	r
			Days	Batch(s)	Participants(s)	Days	Batch (s)	Participants(s)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	11	Firewall	02	1	23	02	1	23
	12	Operation and Maintenance of						
		Ground Water Sensor, Data Logger, Software Configuration etc.	03	1	31	03	1	31
	13	Training on Rainfall Run off Model, Hydrodynamic Model (1D) and Flood Forecasting Model with Data Assimilation.	05	1	15	05	1	15
	14	Training on Rainfall Run off Model, Hydrodynamic Model (1D) and Flood Forecasting Model with Data Assimilation	05	1	15	05	1	15
	15	Training on 1D-2D coupled hydraulic model and flood inundation model using software MIKE+2D Overland Flow	05	1	16	05	1	16
	16	Automation Instrument Demonstration Program (Theoretical and Practical) Regarding the Installation and Supervision of Various Equipment of G2 and G6 Packages.	02	1	12	02	1	12

Category	1 .	Training Description	N	o. of Days/	Weeks/Months (I	D/W/M),	Batch & Pa	articipants
	No.		A	s in Project	Document		Achieve	ment
			Days	Batch(s)	Participants(s)	Days	Batch (s)	Participants(s)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	17	Local Training on Multi Beam Echo Sounder	05	1	31	05	1	31
	18	Training for Capacity Building on Monitoring, Evaluation of a Project, Research Data Collection and Storing (Module of Master Trainers)	05	1	20	05	1	20
	19	Training on Development / Customization of MIKE Operation for FFWC and Operation of Flood Forecasting System	05	1	15	05	1	15
	20	On the Job Training. (Video Conference Platform)	05	1	16	05	1	16
	21	IT (Software & Hardware)	09	1	13	09	1	13
	22	AWLG, ARG, AWS stations installation related training.	09	1	65	09	1	65
	23	Hands on Training on Coastal Flood Monitoring Stations, Software and Hardware system	06	1	32	06	1	32
		Training to Divisional Officers in Support of New Divisional Water Resources Information Outreach.	01	1	31	01	1	31
		Training to the Technical Officers of the District	01	1	80	01	1	80

Category		Training Description	N	o. of Days/V	Weeks/Months (I)/W/M),	Batch & Pa	rticipants
	No.		A	s in Project	Document		Achieve	ment
			Days	Batch(s)	Participants(s)	Days	Batch (s)	Participants(s)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
		Offices.						
	_26	Salinity Intrusion Forecast.	05	11	13	05	1	13
	27	Ground Water Assessment Model	05	.1	15	05	1	15
	28	Sediment Transport & Morphology Model	05	1	15	05	1 1	15
	29	Hydrological Drought Prediction Model.	04	1	11	04	1	11 .
	30	Senior Officers Training.	01	1	20	01	1	20
	31	On The Job Training. (Hydrology Model)	03	1	14	03	1	14
	32	On The Job Training. (Hydrology Model)	06	1	14	06	1	14
	33	Hands on Training of Drilling Machine (Rig Machine).	10	1	47	10	1	47
	34	Training to the Linux administration Part I, II, III and PL						
		SQL, Administrative Workshop Oracle Database 19C Backup and	05	1	10	05	1	10
	35	Recovery. Training to the						
	55	Linux administration Part I, II, III and PL SQL, Administrative	05	1	05	05	1	05
	36	Training to the Technical Officers	01	1	28	01	1	28

Category	1	Training Description			Weeks/Months (1	D/W/M),		
	No.	•	A	s in Project	T		Achieve	ment
	1		Days	Batch(s)	Participants(s)	Days	Batch (s)	Participants(s)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
		of the District Offices.						
 	37	TSS Software Training	05	1	26	05	1	26
	38	i)Hands on training on installations&(ii) Hands on Operational training on Hydrological Equipment Gi aaxb Training on SoP & Maintenance of Automatic Ground Water Monitoring System.	04	1	21	04	1	21
	39	Operation and Maintenance of Ground Water Sensor, Data Logger, Software Configuration etc	03	1	13	03	1,	13
	40	User Training on Hydrological Information Management System	01	1	25	01	1	25
	41	User Training on Hydrological Information Management System	01	1	24	01	1	24
	42	User Training on Hydrological Information Management System	01	1	23	01	1	23
	43	User Training on Hydrological Information Management System	01	1	25	01	. 1	25

	Category	Sl.	Training Description	N	o. of Days/V	Weeks/Months ([)/W/M),		
		No.		As	s in Project	Document		Achieve	
	ž.			Days	Batch(s)	Participants(s)	Days	Batch (s)	Participants(s)
-	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
		44	Cyber Security Awareness Training for BWDB Personal with IT Design, Operation & Data	04	1	20	04	1	20
			Systems Data						
;		45	Training on SoP & Maintenance of Sub-Bottom Profiler, Echo- Sounder, Side Scan Sonar	04	1	20	04	1	20
		46	Training on SoP & Maintenance of Automatic Water Level Station, Automatic Rain Gauge Station & Automatic Weather Station	04	1	20	04	1	20
		47	i)O&M of Hydrological Equipment's ii) Project Management Study Tour/exposure visit.	04	1	12	4	1	20
		48	i) Hands on Training on Installation O&M of Hydrological Equipment's ii) Hands on Operational training on Hydrological Equipment	04	1	12	4	1	20
		49	i)O&M of completed Hydrological Project. ii) Project Management Study Tour/exposure visit.	04	1	12	4	1	20

Category	y Sl.	Training Description	N	o. of Days/	Weeks/Months (I	D/W/M),	Batch & Pa	nrticipants
	No.		A	s in Project	Document		Achieve	ment
ļ			Days	Batch(s)	Participants(s)	Days	Batch (s)	Participants(s)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
		iii) Data Communication and networking iv) O&M of						
		completed Hydrological Project. v) Project Management Study						
	·	Tour/exposure visit. vi) Database Management vii) Dissemination and awareness						
		Sub Total (Local)-	286	49	983	286	49	1007
			F	oreign Trai	ining			
	1	General Hydrology, River Morphology and ground water Hydrology	16	1	6	16	1	6
	2	Study Tour/Exposure Visit for Senior level officials	9	1	9	9	1	9
Foreign Training	3	Training on Drought Modeling and Forecasting System	8	1	10	8	1.	4
Training	4	Training on under Systems for Morphological Survey Equipment	5	1	6	5	1	6
	5	Training on under Systems for Morphological Survey Equipment	6	1	7	6	1	7
	6	Hands on Training on Operation and Maintenance of	5	1	8	5	1	8

Category		Training Description			Weeks/Months (I)/W/M),		
	No.		As	s in Project			Achieve	
			Days	Batch(s)	Participants(s)	Days	Batch (s)	Participants(s)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
		Automated Ground water sensor, Data logger, Software configuration etc						
	7	Training on Hydromet Early warning Joint Learning Exercise: Hydrological and Hydrological meteorological products; monitoring and operating of the observation networks, development-II.	0	0	0	10	1	4
	8	Training on Standard Operation and Maintenance Foreign Training.	17	1	8	17	1	8
	9	Training on MIKE Operation at DHI	7	1	4	7	1	4
	10	Training on Hydromet Joint Learning Exercise: Hydrological and Hydrological meteorological products; monitoring and operating of the observation networks, development-I.				7	1	4
	11	Training on Hydromet Early warning Joint Learning Exercise: Hydrological and				10	1	4

Category	Sl.	Training Description			Weeks/Months (1	D/W/M)	, Batch & Pa	articipants	
	No.		A	s in Project	Document		Achieve	ment	
			Days	Batch(s)	Participants(s)	Days	Batch (s)	Participants(s	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
		Hydrological meteorological products; monitoring and							
		operating of the observation networks, development-II.							
	12	Water related disaster management	14	1	6				
	13	Training on hydrology equipment	14	1	6				
	14	Study tour/exposure visit for mid level officials	7	1	8	_	_	Government	
	15	Attend meeting workshop, seminar etc	7	1	4		7	gn tour due to ign currency	
	16	Training on hydrology equipment O&M	14	1	6				
	17	Mathematically modelling on flood, drought & river morphology	14	1	4				
Sub Total	(Fore		150	15	99	97	11	67	
Total (Loc	al + I	Foreign)=	436	64	1082	383	60	1074	

(PD= Project Document)



18. Component-wise Progress (As per latest approved Project Document):

		I		Stimated Co	Estimated Cost (Taka in Lac)	Lac)			Actual Progr	Actual Progress (Taka in Lac)	(Jac)	
Name of Component	Cuit	Unit Quantitty	Total	GOB	PA	Self- Finance	Others	Total	GOB	PA	Self-	Others
(I)	3	3	4	6	(9)	6	٤	6	3.0	()	Finance	
(a) Revenue:					(2)		(e)	(9)	(at)	(III)	(12)	(13)
Other Allowances	LS		71.50	71.50				57.75	31 43			
Allowances	LS		92.0	92.0				25.70	71.70	1		-
Travel Expenses	ST		47.74	47.74			'	0.70	0.70	•		
Office Rent, Renovation, Air Cooler and annual maintenance	LS		150.00	150.00	'		1	147.88	147.88	'		, ,
Telephone/ Mobile	LS		0.28	0.28	1	'	-	0.28	0.28		,	
Telex/Fax/Internet	LS		10.29	1	10.29			10.29		10.29	,	
Water Bill	LS		1.71	1.71	-		,	1.71	1.71	'		,
Electricity	LS		4.57	4.57				4.57	4.57			
Fuel and gas	LS		1.51	1.51		-		1.51	1.51			1.
Petrol, Oil & Lubricants	LS		75.00	75.00			1	36.84	36.84		'	.
Insurance/ Bank charges	LS		151.00	5.00	146.00			129.08	5.00	124.08		Ţ,
Printing, Binding & Publication	LS		30.00	19.50	10.50			23.59	13.92	79.6		
Stationery, Seal & Stamp	LS		62.00	42.00	20.00		,	59.94	39.95	19.99	,	,
Research,/ Innovative Expenditure	LS		317.00	141.36	175.64			141.55	1	141.55		
Advertising and Publicity	ГS		150.00	,	150.00			149.29		149.29		.
Publications	LS		50.00	50.00			,	38.96	38.96		'	
Training Expenses (Local)	ΓS		98.28	98.28				83.49	83.49	'	,	Ţ.
Training Expenses (Foreign)	LS		138.53	J	138.53	,	,	138.53	-	138.53		
Consultancy	LS		4,575.85	65.00	4,510.85	,		4,524.86	14.37	4,510.49	'	
Honorarium/Fee/Remuneration	LS		58.00	58.00	1		,	46.82	46.82			
									1			

			E	stimated Co	Estimated Cost (Taka in Lac)	ac)		7	Actual Progre	Actual Progress (Taka in Lac)	ac)	
Name of Component	Unit	Unit Quantitty	Total	GOB	PA	Self- Finance	Others	Total	GOB	PA	Self- Finance	Others
(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)	(11)	(12)	(13)
Testing Fees (GW quality Testing)	LS		299.92	1	29.95	ı	•	29.95		299.92	,	ı
Survey	rs		485.62	135.00	350.62	١		466.99	121.00	345.99	,	,
Computer Cosumable	rs	-	30.00	-	30.00	•	,	24.34		24.34	'	
Audit Fees	ΓS		0.50	-	0.50		,	ı		1	•	,
Hiring Charges	Nos.	12	1,171.72	125.00	1,046.72		,	1,137.22	90.74	1,046.48		,
Others	LS		200.00	20.00	180.00	٠	,	193.01	14.89	178.12	'	
Vehicle	Nos.	43	22.00	22.00	1	4	ı	21.80	21.80	1	•	
Computer & Office Equipment (Repair)	LS		25.00	ı	25.00	-	ı	20.88		20.88	ı	
Engineering Equipment	TS		200.00	200.00	-	ı	,	87.89	87.89	1	1	1
Office Building	TS		15.00	•	15.00	1		9.95		9.95	ı	ı
Others Repairs and Maintenance	TS		30.00	30.00		-	-	12.15	12.15		1	,
Sub-Total (Revenue)	LS		8,473.78	1,364.21	7,109.57		,	7,917.14	75.788	7,029.57	,	
Capital:												
Vehicle (Cross country vehicle (02 Nos 4WD), Double cabin pickup (01 Nos.), Motorcyles (40 Nos.)	Nos.	43	283.67	ı	283.67		ı	283.66		283.66		,
Acquisition of land (33 decimal at St. Martin's Island)	rs		80.00	80.00		•	ı	•		1	'	·I



				Estimated C	Estimated Cost (Taka in Lac)	(ac)			Actual Progr	Actual Progress (Taka in Lac)	Lac)	
Name of Component		Unit Quantitty	Total	COB	PA	Self- Finance	Others	Total	GOB	PA	Self- Finance	Others
(1)	3	(3)	(4)	(5)	(9)	0	(8)	(6)	(10)	(11)	(12)	(13)
Engineering Equipment: (Upgrade Existing Ground Water Stations; Automatic Water Level Stations; Purchase of 04 no. Catamarans & 04 no Survey boat; Purchase of Systems for hydrological survey; Purchase of systems for Morphological survey & Purchase of Coastal Flood Monitoring Stations, Purchase of multibeam echo sounder, purchase of drilling machine for GW well construction, VAT & CD (GoB includes VAT & CD))	s S et		19,650.53	1,600.00	18,050.53	•	•	18,502.93	1,572.81	16,930.12	ı	ı
Computer Software-GIS, Data Sharing Software (Supply of calibration goods, GIS/satelite Image, DEM etc.)	S	·	924.17	1 .	924.17	, .	1	851.99	,	851.99	,	t
Nowcasting Workstation, Office Equipment	Nos.		843.92		843.92	ı		761.62	,	761.62	,	
Furniture & Fixture	Nos.		36.75	1	36.75	r		36.75	'	36.75		,
Laboratory Equipments	Nos.		194.56	•	194.56	ı		194.56		194.56	1	,
Telecommunication Equipment	Nos.		153.80		153.80	,	•	153.80		153.80	,	
Electric Equipment & IPS	LS		5.95		5.95	i	ŀ	5.95		5.95		
Returshibing hydrology offices building	ST		3,912.31	1,772.50	2,139.81	ı	-	3,602.44	1,466.73	2,135.71		
CD VAI	3		10.52	10.52		,	1	10.52	10.52		,	
Sub-Total (Capital)	LS		26,096.18	3,463.02	22,633.16		-	24,404.22	3,050.06	21,354.16		
Total a+b (Revenue+Capital)	LS		34,569.96	4,827.23	29,742.73	8	-	32,321.36	3,937.63	28,383.73	'	

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19. Procurement of Transport (in Nos.):

Type of	Number as	Number	Transferr	Transferred	Condemned/	Returned or	Remark
transport	per Project	Procured	ed to	to O & M	damaged	transferred	S
,	Document	with date	Transport	with date	with date	to following	
			Pool with			project	
	-		date			r	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Car	-	-	-	_	-	-	-
Jeep	2 nos.	2 nos.	1 no.	-	•	_	One
		11-06-	То				Jeep is
		2019	Director			i	using at
			Estate,				the
		ĺ	BWDB.				Project
							Office
]	14/10/20				and
			19				another
							one is
							handed
							over to
							the BWDB
				·			
	İ						Manage ment.
3.6							men.
Microbus	-	-	•	•	-	-	
Minibus			_		-	-	-
Bus		-	-	_	-	-	-
Pick-up	1 no.	1 no.		1 no.	-	-,	<u>.</u>
		28-07-	-	To Kustia			
		2018		Morpholog			
				y Division,	İ		
				Hydrology,			
				BWDB			
				02/06/2025		s:	
Truck	-	-	-		-	_	_
Motor -	40 nos.	30-05-		-	-	-	Handov
Cycle		2018					er to
·							different
	ŀ						officers
							in field
				· [j	level
							under
							BWDB
				. [(Attache
	i		j			1	d file)

Type of	Number as	Number	Transferr	Transferred	Condemned/	Returned or	Remark
transport	per Project	Procured	ed to	to O & M	damaged	transferred	s
	Document	with date	Transport	with date	with date	to following	
			Pool with			project	
			date				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Speed Boat	(1 no. survey	27-06-19		To C&I	-	-	BWDB
(Survey	boat & 1 nos.	&		Division,			Hydrolo
Boat and	catamaran	07-11-		Hydrology,			gy-C&I
Catamaran)	procured	2023		BWDB			Division
	under	2025		17-02-			(17-02-
	BWDB-G3) &			2022) &			2022) &
	(3 nos. GRP			03/10/2024			03/10/2
	Mono Hull			20/10/2024			024, 20/10/2
	Survey Boat,						024
	03 Nos. GRP						024
	double hull						
	survey						
	Catamaran						
	and 3 Speed						
	Boat					1.4	
	procured						
	under						
	BWDB-25						
, .	Package)		j				,
Launch	-	-		-	-	-	
Others with			_		_		
	- ,	-	-	-	_	-	- -
name	•						



20. Project Consultant (s) (Local/Foreign):

NT C/1 TY 11	T			T		T
Name of the Field	Approved r		Actual		Deliverables	Remarks
	As per	As per	man	As per	Actual	
	Project	contract	month	Project		
(1)	Document	(2)	utilized	Document	(6)	(7)
(1) a) Local:	(2)	(3)	(4)	(5)	(6)	(7)
Water Resources	172.75	172.75	170 75	27	27	
System Integrator	172,73	172.75	172.75	27	27	
(WRSI) Consultancy						
(C1)						
Consultancy Services	55	55	55	8	8	
for Expansion flood		33	33		0	٠
forecasting model						
(whole country),						
Improve inundation						
model in coastal and						
other hotspot areas						
(depth and area of						
inundation)-C2					•	
Technical Consultancy	27	27	27	7	7	
on Monitoring and						
Evaluation-C13						
Development of	130.1	130.1	130.1	14	14	
hydrological services		İ				
products: Sediment						100 m
prediction & river						
bank erosion;						
Hydrological drought						
prediction; Salinity intrusion forecast;						
Ground water outlook						
and forecast; Surface						
water supply outlook			·			
etc. Upgrade of					•	
existing website to						
display real time data,						
products & warnings						
(C15)					·	
Performance Audit of	13.5	13.5	13.5	5	5	
3 PIUs by PCU						
Development of	106	106	106	20	20	:
mobile apps,		1				
upgrading web portal,						
Data and information				İ		
sharing software to						
share info between						
BWDB and						

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Name of the Field	Approved r	nan month	Actual	Number of	Deliverables	Remarks
	As per	As per	man	As per	Actual	
	Project	contract	month	Project		
	Document		utilized	Document		
(1)	(2)	(3)	(4)	(5)	(6)	(7)
stakeholders-supply						
and installation (C22)						
Feasibility and Details	48	48	48	7	7	
technical design for						
second phase of		·				
BWCSRP (C24)						
Community based	12.2	12.2	12.2	6	6	
Early Warning System	1-1-	*				
in 2 flood prone			_			
districts (Netrokona						
and Sunamganj) in						
collaboration with						
DDM (C27)						
DDIVI (C21)						
b) Foreign:						
Water Resources	41.75	41.75	41.75	27	27	
System Integrator	41./5	71.75	11.73		-,	
(WRSI) Consultancy	·					
(C1)						
Development of	12.9	12.9	12.9	14	14	
hydrological services	12.5	12.3	12.3	- '	~ .	
products: Sediment						
prediction & river						
bank erosion;						
Hydrological drought			·			
prediction; Salinity						
intrusion forecast;				-		
Ground water outlook						
and forecast; Surface						
water supply outlook	·					
etc. Upgrade of						
existing website to						
display real time data,						
products & warnings						
(C15)						
(010)				I		

21. Infrastructure/Erection/Installation Tools & Equipment:

Remarks	(2)			
Balance	(9)	00.00		0.00
Disposed- off as per rule with	(5)			
Transferred to Hydrology for O & M with date	(4)	Hydrology. 2. Ground Water Division I 3. Ground Water Division II Date: September 2024 Data center, 2 nd flood, Pani Bhaban,	Date: October 2024	1. Superintending Engineer, Surface Water Hydrology. BWDB, Dhaka. 2. Executive Engineer, North Eastern Measurement Division, BWDB, Dhaka. 3. Executive Engineer, Northern Measurement Division, BWDB, Pabna. 4. Executive Engineer, South Western Measurement Division, Cumilla. 5. Executive Engineer, South Eastern 5. Executive Engineer, South Eastern
Quantity Procured with date	(3)	IT/ICT: Data Acquisition/Data Management/web Server 03nos	OlNos Computer Rack Olnos Computer Switch OlNos Software: Field Maintenance Tracking Software01Nos Data management Software 01Nos web Visualization Software01Nos Date:November 2020	AWLs-315 ARGs-272 Air Temperature and Humidity Sensor -03 Wind Speed and Direction Sensor- 03 Atmospheric
Quantity (as per project document)	(2)			AWLs-315 ARGs-272 AWS-03
Description	(1)	ground water stations and nests from manual to Automatic; Package-BWDB-G1		Automatic Water Level Stations, Upgrade Existing climate Stations and Rain Gauges to Automatic and Real time; Package-BWDB-G2

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Remarks	(7)																									
Balance	(9)																									
Disposed- off as per rule with date	(5)																-					····				
Transferred to Hydrology for O & M with date	(4)	Measurement Division, Faridpur. Date: September 2024	Data center, 2nd flood, Pani Bhaban, BWDB, Dhaka	Date: .Inne 2023																						
Quantity Procured with date	(3)	Pressure Sensor 03 Solar Radiation Sensor03 Evaporation Sensor-03	IT/ICT:	Data Acquisition/ Data Management/	web Server/Backup	mode 07	Next Generation	Firewall 02 Nos Midrange Firewall	02 Nos	Core switches	02 Nos.	KVM Switch with	Console Monitor	Computer Switch	02 Nos.	Computer Rack	01Nos.	Load Balancer	with Anti D-	Dos/WAF	02 Nos.	Upgradation of	exsisting SAN	Switch (Connectrix	12 active porte to	24 active ports with
Quantity (as per project document)	(2)			18																						
Description	(1)																									

Remarks	(7)	
Balance	(9)	
Disposed- off as per rule with	(5)	
Transferred to Hydrology for O & M with date	(4)	
Quantity Procured with date	(3)	required license and 16 Gbps Short Wave SFP transceivers 02 Nos. Storage area network (SAN) Switch for connecting servers and shared pools of storage devices and is dedicated to moving storage traffic 02 Nos. SAN Storage Enclosure 02 Nos. SAN Storage Enclosure 02 Nos. SAN Storage Enclosure 02 Nos. Software for Data collection/ acquisition software 02 Nos. Data Management and Time Series Data processing Software 19c Database with Oracle RAC in database management and processing servers 01 Nos.
Quantity (as per project document)	(2)	
Description	(1)	

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Description	Quantity (as per project document)	Quantity Procured with date	Transferred to Hydrology for O & M with date	Disposed- off as per rule with	Balance	Remarks
(1)	(2)	(3)	(4)	(5)	(9)	(2)
		Monitoring (For the purpose of monitoring all the server related device and network 01 Nos Security Information and Event Management (SIEM) Software 01 Nos Field Maintenance Tracking Software 01 Nos Backup Software 02 Nos				
	AWLs-40	AWLs-40 Date: May 2022	 Superintending Engineer, Surface Water Hydrology. BWDB, Dhaka. Executive Engineer, South Western Measurement Division, Cumilla. Executive Engineer, South Eastern Measurement Division, Faridpur. Date: September 2024 		0.00	
Purchase of Catamarans and Survey Boats; Package-BWDB- G3	Boat -01 Catamaran -01	Boat -01 Catamaran -01 Date: February 2022	 Executive Engineer, North Eastern Measurement Division, BWDB. Executive Engineer, Northern Measurement Division, BWDB, Pabna. Date: February 2022 		0.00	
Purchase of Systems for hydrological survey; Package- BWDB-G4	ADCP with Laptop 10 nos.	ADCP with Laptop- 10 nos.	Executive Engineer, North Eastern Measurement Division- 02 Nos. Executive Engineer, South Western		0.00	

	1		·
Remarks	(2)		
Balance	9)		
Disposed- off as per rule with date	(5)		
Transferred to Hydrology for O & M with date	(4)	Measurement Division-04 Nos. Executive Engineer, South Eastern Measurement Division-01 Nos. Executive Engineer, North Eastern Measurement Division-01 Nos. Executive Engineer, North Eastern Measurement Division-01 Nos. Executive Engineer, South Western Measurement Division-02 Nos. Executive Engineer, South Eastern Measurement Division-01 Nos. Executive Engineer, Survey Division-01 Nos. Executive Engineer, Survey Division-01 Nos. Executive Engineer, Construction & Executive Engineer, Sariatpur O&M-01 nos Executive Engineer, Construction & Instrumentation (C&I) Division - 01 Nos. Executive Engineer, South Western Measurement Division-01 Nos. Executive Engineer, Survey Division-01 Nos.	Executive Engineer, Construction & Instrumentation Division – 01 Nos. Executive Engineer, South Western Measurement Division -06 Nos. Executive Engineer, North Eastern Measurement Division- 03 Nos. Director, Ground Water Hydrology-11
Quantity Procured with date	(3)	Eco Sounder (Single Beam) 08 nos.	Eco Sounder (Double Beam Survey Grade) 02 nos. Side Scan Soner 01 nos.
Quantity (as per project document)	(2)	Eco Sounder (Single Beam) 08 nos. Eco Sounder (Double Beam Survey Grade) 02 nos. Side Scan Soner 01 nos. Sonde (Water Quality) 20 nos.	
Description	(1)		

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Remarks				(7)												-														
Balance				(9)				0.00																						
-pag	per	ith	(د)																											
Disposed-	off as per	rule with	date	(5)																										
Transferred to Hydrology for O & M	with date			(4)	Nos.	Date: December 2018		Executive Engineer, North Eastern	Measurement Division06 nos,	Executive Engineer, Northern	Measurement Division, Pabna-03 nos.	Director, Ground Water Hydrology-04	sou	Executive Engineer, Construction &	Instrumentation Division (C&I) -02 nos.	Executive Engineer, North Eastern	Measurement Division- 02 Nos.	Executive Engineer, Dhaka Morphology	Division-02 Nos.	Executive Engineer, South Eastern	Measurement Division-02 Nos.	Executive Engineer, Northern	Measurement Division, Pabna-01 nos.	Executive Engineer, Kushtia	Morphology Division-02 nos	Executive Engineer, Mymensing	Morphology Division-02 nos	Director, Ground Water Hydrology-01	Nos.	Date: February 2020
Quantity	Procured with	date		(3)	Sonde (Water	Quality) 20 nos.	Date: September	Handheld TDS	15 nos.	RTK GPS 12 nos.	DGPS 06 nos.	Total Stations	08 nos.	First order digital	leveling machine	04nos.Sub	-Bottom Profiler	02 nos.	Date: December	2019	-			-						
Quantity (as	per project	document)		(2)				Handheld TDS	15 nos.	RTK GPS	12 nos.		DGPS 06 nos.		Total Stations	.sou 80		First order	digital leveling	machine 04nos.		Sub-Bottom	Profiler 02 nos.			-				
Description				(1)				Purchase of Systems for	Morphological survey; Package-	BWDB-G5																				

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Remarks	(7)										
Balance	(9)		00.00								
Disposed- off as per rule with date	(5)										
Transferred to Hydrology for O & M with date	(4)	01 Nos. Office of the Superintending Engineer, Bhola, BWDB-01 Nos. Executive Engineer, Sirajgonj, BWDB-01 Nos. Date: July 2019	CENTRAL GIS DIRECTORATE, BWDB	Project Director, BWCSRP Component-B-01 & Superintending Engineer, PFFC, BWDB-01.	Data center, Pani Bhaban, BWDB.	Data center, Pani Bhaban, BWDB for GIS-01& PFFC-01, BWDB, Dhaka				EE Cumilla – 01 Nos. EE SWM Division– 01 Nos.	SDE Pabna— 01 Nos. SDE Morphology, Kushtia— 01 Nos. AD, RMR Circle— 01 Nos.
Quantity Procured with date	(3)		Plotter 01	Color Printer-02	Super Computer-01	Server Computer 02 Server Rack 01	KVM console 02 KVM Switch 02 Sonic wall NGF- 02nos	Manageable Swithc 01nos	UPS 1000 VA 05 nos	Laser Printer 25 set	Computer All In one 25 set
Quantity (as per project document)	(2)		LS								
Description	(1)		Purchase of Computers,	Accessories, r ackage-D w DD-G10B							

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Remarks	(1)			
Balance	(9)			
Disposed- off as per rule with	(5)			
Transferred to Hydrology for O & M with date	(4)	AD SW Circle-01 Nos. SAE Morphology, Mymensing-01 Nos. SDE FFWC-2 nos. AE Chief Engineer Hydrology-01 Nos. Project office-01 RMRC, BWDB-01	SAE Dhaka NEMD—01 Nos. SO Cumilla—01 Nos. System Analyst—01 Nos. Project offie—02 Nos. EE C&L—01 Nos. EE C&L—01 Nos. SDE Pabna—01 Nos. SDE Pabna—01 Nos. SDE Morphology Kushtia—01 Nos. AD RMRC—01 Nos. AD SW circle—01 Nos. AD SW circle—01 Nos. SAE Morphology Mymensing—01 Nos. SDE FFWC—01 Nos. CSO to DG—01 Nos. AE Chief Engineer Hydrology Office—01 Nos. CSO to DG—01 Nos. AGO Planning—01 Nos. CSO to DG—01 Nos. ADG Planning—01 Nos. CSO to DG—01 Nos. SAE RM processing Circle—01 Nos. Ground Water Processing—01 Nos. SAE RM processing Circle—01 Nos.	System Analyst– 01 Nos. Programmer Chief Planning– 01 Nos. SDE BWCSRP– 01 Nos. PD BWCSRP– 01 Nos. FFWC– 01 Nos.
Quantity Procured with date	(3)	Fax Machine- 12	Photo Copier-20	
Quantity (as per project document)	(2)			
Description	(1)			

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Remarks	(7)	
Balance	(9)	
Disposed- off as per rule with date	(5)	
Transferred to Hydrology for O & M with date	(4)	ADG Planning—01 Nos. DG Office—01 Nos. SDE FFWC—01 Nos. SDE Pabna—01 Nos. AD SW Circle—01 Nos. AP PFF Circle—01 DD GWH Division—01 Nos. DD GWH Division II—01 Nos. DD GWH Division II—01 Nos. EE C&I—01 Nos. System Analyst—01 Nos. BE C&I—01 Nos. SO Cumilla—01 Nos. SO Cumilla—01 Nos. EE C&I—01 Nos. SE SW Circle—01 Nos. SE W Circle—01 Nos. EE Mymensing—01 Nos. EE Kushtia—01 Nos. EE Kushtia—01 Nos. EE Fushtia—01 Nos. EE Fushtia—01 Nos. EE Fushtia—01 Nos. EE Fushtia—01 Nos. EE Cumilla—01 Nos. EE Fushtia—01 Nos. EE Cumilla—01 Nos. EE SushCSRP—02 Nos. EE BWCSRP—01 Nos.
Quantity Procured with date	(3)	High Speed Computer-05 TAB-25 Laptop-25
Quantity (as per project document)	(2)	
Description	(1)	

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Remarks			(2)													
Balance			(9)				•			0.00		0.00				
Disposed-	off as per	date	(5)													witer
Transferred to Hydrology for O & M	with date		(4)	SDE BWCSRP- 01 Nos. Chief Engineer Hydrology- 01 Nos. AE BWCSRP- 01 Nos. AE-BWCSRP- 01 Nos. EE C&I- 01 Nos. Accounts Section BWCSRP- 01 Nos.	EE C&I- 01 Nos. EE SWMD- 01 Nos. SDE Pabna- 01 Nos. AD SWH Circle- 01 Nos. Geologist GWH- 01 Nos. SDE FFWC- 01 Nos.	AE Chief Hydrology—01 Nos. ADG Office—01 Nos.	DG Office— 01 Nos. System Analyst, PFFC, BWDB-02 Project office -01	Date: July 2019	BWCSRP Component-B, BWDB.	BWCSRP Component-B, BWDB.		lobi	Thakurgaon1	Š	Eng.Hydrology Section, BWDB, Maymansing-1	Md.Rezaul Islam Sub-Assistant Eng.HydrologySection,BWDB, Jessore
Quantity	Procured with date		(3)	Multimedia Projector-12	Date: June 2019				2nos Date: July 2019	l nos	Date: June 2019	40 n0s	Date: May 2018			
Quantity (as	per project document)		(2)						2nos	l nos		40 n0s				
Description		(*)	(1)						Purchase of Cross country vehicle, Package-BWDB-G11	Purchase of Double cabin pick- up, Package-BWDB-G12		Purchase of Motorcycles, Package-BWDB-G13				



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Remarks	(7)										
Balance	(9)										
Disposed- off as per rule with date	(5)										
Disp off a rule											
Transferred to Hydrology for O & M with date	(4)	1 Md.Hasan Habib Sub-Assistant Eng.HydrologySection,BWDB, Dewangonj1	Abu Sayad Md. AminurRashidSub-Assistant Eng. Hydrology Section,BWDB,Dalia-Rangpur1	Bodrul Alam Sub-Assistant Eng. Hydrology Section, BWDB, Manikgonj-1	Md. Rafiqual Islam Sub-Assistant Eng. Hydrology Section, BWDB, Sunamgoni1	Md. YousufAhammad Surveyour Hydrology, Sub-Division,BWDB,	Md. Amir Hossain Khan Sub-Assistant Eng. Hydrology Section, BWDB,	Md. Abdul Alim Khan Sub-Assistant Eng. Hydrology Section, BWDB, Khulna1	Md. Mainuddin Sub-Assistant Eng.HydrologySection,BWDB, Madaripur1	Md. Masum Sub-Assistant Eng.HydrologySection,BWDB, Barisal	Md. AbdurRaquib Sub-Assistant Eng. South-West: Mapping Cell, BWDB, Faridpur1
Quantity Procured with date	(3)										
Quantity (as per project document)	(2)										

Description

Remarks	(2)	8								
Balance	9					1010				
Disposed- off as per rule with	(5)		:							
Transferred to Hydrology for O & M with date	(4)	Md. Akhlakul Jamil Sub- Divisional-Eng. SHEWS-BWDB, Dhaka-1	MunshiAsadullahAssistant Engineer South-West: Mapping Cell, BWDB, Pirozpur-1	Md. Tashrif Ahmed Assistant Engineer Chief Engineer, Hydrology, BWDB, Dhaka-1	Md.IkbalAkther Assistant EngineerHydrologySection,BWDB, Goalanda1	Md. Wahidujjaman Sub-Assistant Eng. Hydrology Section, BWDB, Dinajpur1 Md. Asadujjaman Sub-Assistant Eng. Hydrology Section, BWDB, Jessore1	Md.AbdulHannan Sub-Assistant Eng. Hydrology Section, BWDB, Kurigram1	Md.Musfiqur Rahman Sub-Assistant Eng Hydrology Section, BWDB,Faridpur1	Sayed Md.NazmulHaque Sub-Assistant Eng. Hydrology Section, BWDB,Dewangonj1	Md.OhiduzzamanNikson Sub-
Quantity Procured with date	(3)			,						
Quantity (as per project document)	(2)									
Description	(1)							V		

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Remarks	(7)		
Balance	(9)		
Disposed- off as per rule with date	(5)		
Transferred to Hydrology for O & M with date	(4)	Divisional-Eng C&I Division,BWDB, Green Road-Dhaka1 Md.AbuyousufBhauyan Sub-Assistant BWDB,Comilla1 Chayan Choudhury Section,BWDB, Dewangonj1 Md. Jalal Uddin Sub-Assistant Eng.HydrologySection,BWDB, Pabna-1 Md. Rakibuddin Ahmed Sub-Assistant Eng. C&I Division,BWDB, Green Road, Dhaka1 Md. AlamgirHossaion Assistant Programar Processing & Flood Forecasting, Green Road, Dhaka1 Md. Jasim Uddin SurveyourHydrology Section,BWDB,Feni1 RishikeshVoumik SurveyourHydrology Section,BWDB, Comilla1 Md. Rana AhmedSub-Assistant Eng.HydrologySection,BWDB, Nawgaon-1 JeniaAkter Sub-Assistant Eng.HydrologySection,BWDB, Bogra-1. SamimaYesmin GeologistSurfaceWarer Hydrology, BWDB, Green Road,	Dhaka1 Shapon Kumar Ghosh Sub-Assistant Eng. Morphology, Sub-Division, 50
Quantity Procured with date	(3)		
Quantity (as per project document)	(2)		
Description	(1)		

Balance Remarks	(2)		0.00		0.00		0.00	
Disposed-Bal off as per rule with			0		o o		0.	
Transferred to Hydrology for O & M with date	(4)	BWDB,Kushtia1 Salma Begum Sub-Assistant Eng,Surface Water Hydrology, BWDB, Dinajpur1 Md. MosfiqurRahamn Sub-Assistant Eng. Morphology, Sub-Division, BWDB,Kushtia1 Md. AminurRasid Sub-Assistant Eng. Hydrology Section,BWDB, Munshiganj-1. SHEWS-PIU, SDE, BWCSRP, BWDB-1 Md. Mahbubur Rahman Sub-Assistant Eng. Operation &MaintananceDivision,BWDB, Dhaka1 Md. Saiful Islam Sub-Assistant Eng.HydrologySection,BWDB, Green Road-Dhaka1	SE, GIS Directorate, BWDB.	Date: March 2019	Executive Engineer, Flood Forecasting and Warning Center. Date: June 2024		Executive Engineer, Flood Forecasting and Warning Center. Date: June 2024	51
Quantity Procured with date	(3)		l nos	Date: March 2019	DEM (81 Sheet: 14256 SQM: NE part) in 2021 and DEM	data for whole country Date: January 2023	Captured image 12000 sq.Km Date: November	
Quantity (as per project document)	(2)		l nos		. F.S.		ΓS	
Description	(1)		Purchase of GIS and Image processing software with	Package-BW	Purchase of DEM Data from SOB-Package-BWDB-G15		Purchase of GIS/Satellite images-Package-BWDB-G15A	

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Remarks	(7)			
Balance	(9)	0.00	0.00	
Disposed- off as per rule with date	(5)		·	·
Transferred to Hydrology for O & M with date	(4)	Executive Engineer, Flood Forecasting and Warning Center. Date: June 2024	& Flocka-1. Water Ka1 ka1 phologyka-1no compo compo compo compo	Executive Engineer BWCSRP Component-B-1 nos Project Director BWCSRP Component-B-1 nos General Section BWCSRP Component-B-1 nos General Section BWCSRP Component-B-1 nos Executive EngineerConstruction & Instrument, BWDB, Dhaka1 nos Executive Engineer Office of the
Quantity Procured with date	(3)	Development of DEM (DTM) using SOB available data resources. Date: September 2023	All in all Dextop 15 Nos.	
Quantity (as per project document)	(2)	LS	LS	
Description	(1)	Development of DEM (DTM) using SOB available data (aerial photographic) resources, Package-BWDB-G15B	Puchase of Office Equipment ,	

Balance Remarks	(D)			
Disposed-Ba off as per rule with date				
Transferred to Hydrology for O & M with date	(4)	Chief Planning, BWDB, Dhaka1 Executive EngneerConstruction& Instrumentation, BWDB, Dhaka-Inos Sr.Finance Management SpecialistBWCSRP Component-B-1 Ground water specialinst BWCSRP Component-B-Inos Sub-Divisional Eng. BWCSRP Component-B-I SDE BWCSRP Component-B-Inos Assistant Engineer BWCSRP Component-B-Inos	Date: July 2018 Chief Staff Office to DG, BWDB, DhakaInos Project Director BWCSRP Component-B-Inos Executive Engineer BWCSRP Component-B-Inos Chief Engineer, BWDB, Dhaka-I nos BWCSRP Component-B,BWDB-I	53
Quantity Procured with date	(3)	Laptop Computer Dell Latitude 5590 CTO 6 Nos.	Notebook Computer Dell Latitude 5290 4 Nos.	
Quantity (as per project document)	(2)			
Description	(1)			

Remarks	(7)							
Balance	(9)					e e		
Disposed- off as per rule with date	(5)							
Transferred to Hydrology for O & M with date	(4)	Project Director BWCSRP Component-B-1 Executive Engineer Chief Staff office to DG, BWDB, Dhaka-1 Superintending Engineer, PFFC, BWDB, Bhaka-1 Consultant Room, BWCSRP Component-B, BWDB, Dhaka-1	Consultant Room BWCSRP Component-B, BWDB, Dhaka-1 Sr.Finance Management Specialist BWCSRP Component-B, BWDB, Dhaka-1	Executive Engineer BWCSRP Component-B, BWDB, Dhaka-1 N/A Surface Water Hydrology Circle, BWDB, Dhaka-1 N/A River Morphology & Research Circle, BWDB, Dhaka-1 Deputy Director (Accounts) BWCSRP Component-B, BWDB, Dhaka-1	Assistant Engineer BWCSRP Component-B, BWDB, Dhaka-1	Processing Flood Forecasting Circle, BWDB, Dhaka-1	Sub-Divisional Eng BWCSRP Component-B, BWDB, Dhaka-1	Sr. Procurement Specialist BWCSRP
Quantity Procured with date	(3)	Digital Photocopier Machine with Voltage Stabilizer 1 No.	Color Laser Printer 4 Nos.	Black & White Duplex, WiFi Laser Printer Brother, HL- L5200DW	IO Nos.			
Quantity (as per project document)	(2)							:
Description	(1)							

Component B, BWDB, Diaka-1 Component-B, B	Dogomination	, ,,,					
Component-B, BWDB, Dhaka-1 Assistant Engineer BWCSRP Component-B, BWDB, Dhaka-1 Deputy Director (Accounts)BWCSRP Component-B, BWDB, Dhaka-1 Project Director BWCSRP Component-B, BWDB, Dhaka-1 Project Director BWCSRP Component-B, BWDB, Dhaka-1 St. Procuement Specialist BWCSRP Component-B, BWDB, Dhaka-1 Assistant Engineer (MB) BWCSRP Component-B, BWDB, Dhaka-1 General Section BWCSRP Component-B, BWDB, Dhaka-1 B, BWDB, Dhaka-1 Component-B, BWCSRP Component-B, BWDB, Dhaka-1 B, BWDB, Dhaka-1 B, BWDB, Dhaka-1 B, BWDB, Dhaka-1 Sub-Assis BWCSRP Component-B, BWDB, Dhaka-1 B, BWDB, Dhaka-1 B, BWDB, Dhaka-1 B, BWDB, Dhaka-1 B, BWDB, Dhaka-1 B, BWDB, Dhaka-1 Account Section BWCSRP Component-B, BWDB, Dhaka-1 Admin BWCSRP Component-B, BWDB, Dhaka-1 Admin BWCSRP Component-B, BWDB, Dhaka-1 Admin BWCSRP Component-B, BWDB, Dhaka-1 Admin BWCSRP Component-B, BWDB, Dhaka-1 Admin BWCSRP Component-B, BWDB, Dhaka-1 Admin BWCSRP Component-B, BWDB, Dhaka-1 Admin BWCSRP Component-B, BWDB, Dhaka-1 Admin BWCSRP Component-B, BWDB, Dhaka-1 Admin BWCSRP Component-B, BWDB, Dhaka-1 Admin BWCSRP Component-B, BWDB, Dhaka-1 Admin BWCSRP Component-B, BWDB, Dhaka-1 Admin BWCSRP Component-B, BWDB, Dhaka-1 Admin BWCSRP Component-B, BWDB, Dhaka-1 Admin BWCSRP Component-B, BWDB, Dhaka-1 Admin BWCSRP Component-B, BWDB, Dhaka-1 Admin BWCSRP Component-B, BWDB, Dhaka-1	Toron priori	yer project document)	Quantity Procured with date	I ransferred to Hydrology for O & M with date	Disposed- off as per rule with	Balance	Remarks
Component-B, BWDB, Dhaka-1 Assistant Engineer BWCSRP Component-B, BWDB, Dhaka-1 Project Director BWCSRP Component-B, BWDB, Dhaka-1 Sr. Procurement Specialist BWCSRP Component-B, BWDB, Dhaka-1 Assistant Engineer (ME) BWCSRP Component-B, BWDB, Dhaka-1 Assistant Engineer (ME) BWCSRP Component-B, BWDB, Dhaka-1 Executive Engineer BWCSRP Component-B, BWDB, Dhaka-1 Gomponent-B, BWDB, Dhaka-1 Executive Engineer BWCSRP Component-B, BWDB, Dhaka-1 Gomponent-B, BWDS, Component-B, BWDB, Dhaka-1 Superintending Engineer, PFFC, BWDB, Dhaka-1 Sub-Asst. Eng. BWCSRP Component-B, BWDB, Dhaka-1 Sub-Asst. Eng. BWCSRP Component-B, BWDB, Dhaka-1 Account Section BWCSRP Component-B, BWDB, Dhaka-1 Account Section BWCSRP Component-B, BWDB, Dhaka-1 Account Section BWCSRP Component-B, BWDB, Dhaka-1 Admin BWCSRP Component-B, BWDB, Dhaka-1 Account Section BWCSRP Component-B, BWDB, Dhaka-1 Account Section BWCSRP Component-B, BWDB, Dhaka-1	(1)	(2)	(3)	(4)	(5)	(9)	(2)
2 × 2		•		Component-B, BWDB, Dhaka-1			
% %							
% & &						·	
% g				Assistant Engineer BWCSRP			
7				Component-B, BWDB, Dhaka-1 Deputy Director (Accounts)BWCSRP			
% g				Component-B, BWDB, Dhaka-I			
Sr. Procurement S. Component-B, Bl Assistant Enginee Component-B, Bl Executive Engine Component-B, Bl General Section B, BWDB, Dhaka Programmer B, BWDB, Dhaka-I Superintending E, BWDB, Dhaka-I Sub. Asst. Eng. B, BWDB, Dhaka-I Sub. Asst. Eng. B, BWDB, Dhaka-I Account Section B, BWDB, Dhaka-I Account Section B, BWDB, Dhaka-I Account Section B, BWDB, Dhaka-I Account Section B, BWDB, Dhaka-I Account Section B, BWDB, Dhaka-I Account Section B, BWDB, Dhaka-I Account Section B, BWDB, Dhaka-I Admin BWCSR BWDB, Dhaka-I BWDB, Dhaka-		·		Project Director BWCSRP Component-			
Component-B, BY Assistant Enginee Component-B, BY Executive Engine Component-B, BY General Section B, BWDB, Dhaka Programmer B, BWDB, Dhaka-I Sub. Asst. Eng. B, WDB, Dhaka-I Sub. Asst. Eng. B, BWDB, Dhaka-I Account Section B, BWDB, Dhaka-I Account Section B, BWDB, Dhaka-I Admin BWCSR BWDB, Dhaka-I			,	b, bw Ub, Unaka-1 Sr Progurement Specialist BW/CSDB	,		
Assistant Enginee Component-B, BV Executive Engine Component-B, BV General Section B, BWDB, Dhaka Programmer B, BWDB, Dhaka-1 Sub. Asst. Eng. B, BWDB, Dhaka-1 Sub. Asst. Eng. B, BWDB, Dhaka-1 Sub. Asst. Eng. B, BWDB, Dhaka-1 Sub. Asst. Eng. B, BWDB, Dhaka-1 Sub. Asst. Eng. B, BWDB, Dhaka-1 Account Section B, BWDB, Dhaka-1 Account Section B, BWDB, Dhaka-1 Account Section B, BWDB, Dhaka-1 Account Section B, BWDB, Dhaka-1				Component-B, BWDB, Dhaka-1			
Secutive Engine Component-B, Br General Section B, BWDB, Dhaka Programmer B, BWDB, Dhaka-1 Sub. Asst. Eng. B, BWDB, Dhaka-1 Sub. Asst. Eng. B, BWDB, Dhaka-1 Sub. Asst. Eng. B, BWDB, Dhaka-1 Account Section B, BWDB, Dhaka-1 Account Section B, BWDB, Dhaka-1 Account Section B, BWDB, Dhaka-1 Account Section B, BWDB, Dhaka-1			Scanner Flathed	Assistant Engineer (ME) BWCSRP			
Component-B, BY General Section B, BWDB, Dhaka Programmer B, BWDB, Dhaka-I Superintending E, BWDB, Dhaka-I Sub. Asst. Eng. B, BWDB, Dhaka-I Sub. Asst. Eng. B, BWDB, Dhaka-I Account Section B, BWDB, Dhaka-I Account Section B, BWDB, Dhaka-I Account Section B, BWDB, Dhaka-I Account Section B, BWDB, Dhaka-I Account Section B, BWDB, Dhaka-I		-	A4 Size 15 Nos.	Executive Engineer BWCSRP			
General Section B, BWDB, Dhakes Programmer B, BWDB, Dhakes Superintending El BWDB, Dhaka-1 Sub. Asst. Eng. B, BWDB, Dhakes SDE BWCSR BWDB, Dhaka-1 Account Section B, BWDB, Dhaka-1 Admin BWCSR BWDB, Dhaka-1 Admin BWCSR BWDB, Dhaka-1 B, BWDB, Dhaka-1 B, BWDB, Dhaka-1 B, BWDB, Dhaka-1			-	Component-B, BWDB, Dhaka-1			
B, BWDB, Dhake Programmer B, BWDB, Dhake Superintending El BWDB, Dlaka-1 Sub. Asst. Eng. B, BWDB, Dhake SDE BWCSR BWDB, Dhaka-1 Account Section B, BWDB, Dhaka-1 Acdmin BWCSR BWDB, Dhaka-1 Admin BWCSR BWDB, Dhake-1				General Section BWCSRP Component-			
Programmer B, BWDB, Dhaka Superintending EB BWDB, Dhaka-1 Sub. Asst. Eng. B, BWDB, Dhaka SDE BWCSR BWDB, Dhaka-1 Account Section B, BWDB, Dhaka-1 Account Section B, BWDB, Dhaka-1 Account Section B, BWDB, Dhaka-1-)haka			
Superintending Ea BWDB, Dhaka-1 Sub. Asst. Eng. B, BWDB, Dhaka-1 SDE BWCSR BWDB, Dhaka-1 Account Section B, BWDB, Dhaka-1 Account Section B, BWDB, Dhaka-1 Admin BWCSR BWDB, Dhaka-1-)haka			
BWDB, Dhaka-1 Sub. Asst. Eng. B, BWDB, Dhaka SDE BWCSR BWDB, Dhaka-1 Account Section B, BWDB, Dhaka-1 Admin BWCSR BWDB, Dhaka-1 Admin BWCSR BWDB, Dhaka-1 cd				Superintending Engineer, PFFC,			•
Sub. Asst. Eng. B, BWDB, Dhaka SDE BWCSR BWDB, Dhaka-1 Account Section B, BWDB, Dhaka-1 Admin BWCSR BWDB, Dhakal-				_			
p				Sub. Asst. Eng. BWCSRP Component- R RWDR Dhaka_1			
- P				BWCSRP			
- P			-	BWDB, Dhaka-1			
BWDB, Dhaka-1 Admin BWCSRP BWDB, Dhaka1-		,		Account Section BWCSRP Component-			
Admin BWCSRP BWDB, Dhaka1-							
- P							
Scanner Flatbed A3 Size 4 Nos.							
A3 Size 4 Nos.			Scanner Flathed				
			A3 Size 4 Nos.				



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Remarks	(5)			
Balance	(9)			
Disposed- off as per rule with date	(5)			
Transferred to Hydrology for O & M with date	(4)	Superintending Engineer, Surface Water Hydrology Circle, BWDB, Dhaka Consultant Room BWCSRP Component-B, BWDB, Dhaka Executive Engg. BWCSRP Component-B, BWDB, Dhaka Sub-Divisional Eng BWCSRP Component-B, BWDB, Dhaka	Project Director, Executive Engineer, SDE, Assistant Engg. SO, Programmer and consultant of BWCSRP Component-B, BWDB, Dhaka use for project purpose. Date: July 2018	
Quantity Procured with date	(3)		Multi Media Projector-1 Nos. Projector Screen 1 Wireless professional Presenter-3 Nos. Voice Recorder External HDD 1TB 3 Nos. External HDD 2TB 2 Nos. Wireless Mouse 10 Panda Anti-Virus 7 ; Pen Drive -32GB 18 Nos. External Optical DVD Drive 5	UPS 15 Nos. Computer Table 10 Nos. Computer Chair 10 Nos. Wireless Router 3 Nos.
Quantity (as per project document)	(2)			
Description	(1)			

Remarks	(2)			
Balance	(9)		0.00	
Disposed- off as per rule with	(5)		·	
Transferred to Hydrology for O & M with date	(4)		Superintending Engineer, Surface Water Hydrology, BWDB-1 (West), BWDB-1 River Morphology and Research Circle, BWDB-1 Chief Engineer Planning), BWDB-1 Chief Engineer, Hydrology, BWDB-1 Directorate of Discipline, BWDB-1 Executive Engg., BWCSRP Project Office1 Administrate Branch-2, Secretariat-1 Ground Water Hydrology -Div-I-1 Ground Water Hydrology -Div-I-1 Ground Water Hydrology -Div-II-1 Ground Engg., BWCSRP Project Office1 Executive Engg., BWCSRP Project Office1 Stocker-1 Stocker-1 Stocker-1 Stocker-1 Stocker-1 Stocker-1 Stocker-1 Stocker-1	Project Director, Executive Engineer, SDE, Programmer, Assistant Engg., SO and consultant of BWCSRP Component-B, BWDB, Dhaka use for project purpose1
Quantity Procured with date	(3)	Date: June 2018	Desktop 10 nos. UPS 10 Nos. Scanner 05 nos. External HDD	2TB 05 Nos Tool Kit with box 01 Nos.
Quantity (as per project document)	(2)		LS	
Description	(1)		Package-BWDB-18A	

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Remarks	(7)				
Balance	(9)				0.00
Disposed- off as per rule with date	(5)				
Transferred to Hydrology for O & M with date	(4)	Date: June 2021			Project Director BWCSRP, BWDB,Dhaka Assistant Engineer BWCSRP,
Quantity Procured with date	(3)	SSD Card 120GB for Desktop Computer 03 Nos. Ram 8 GB for Desktop PC 03 Nos. Computer hardware and Networkmaintenan ce Network Switch 01 Nos.Antivirus 01 Year original license software 02 Nos. Cat 6 cable 70 Meter, Connector 10 Nos.,Blower Machine 01 Nos. USB Bangla Multimedia Keyboard 03 Nos.	USB Mouse	Date: May2021	Almirah (Wooden) Size: 900×600 ×2100 mm, PFIL-
Quantity (as per project document)	(2)				LS
Description	(1)				Purchase of Office Furniture and Fixtures, Package-BWDB- G19

Remarks	(L)			
Balance	9			;
Disposed- off as per rule with	(5)			
Transferred to Hydrology for O & M with date	(4)	BWDB,Dhaka Executive Engineer BWCSRP, BWDB,Dhaka Store BWCSRP, BWDB,Dhaka Sub-Divisional Eng BWCSRP, BWDB,Dhaka General Section BWCSRP, BWDB,Dhaka Account Section BWCSRP, BWDB,Dhaka	Account Section BWCSRP, BWDB,Dhaka Account Section BWCSRP, BWDB,Dhaka General Section BWCSRP, BWDB,Dhaka Olicle, BWDB, Dhaka N/A Processing Flood Forecasting Circle, BWDB, Dhaka. Assistant Engineer BWCSRP, BWDB,Dhaka Account Section BWCSRP, BWDB,Dhaka Logistic Associate BWCSRP, BWDB, Dhaka Logistic Associate BWCSRP, BWDB, Dhaka Logistic Associate BWCSRP, BWDB, Dhaka Sub-Assistant Engineer BWCSRP, BWDB, Dhaka	WCSR
Quantity Procured with date	(3)	2031-18, Model- SPI 7 Nos.	Executive Revolving Chair, PR-0073, PFIL- 073 10 Nos.	Chair, Model- SE.0012.Black
Quantity (as per project document)	(2)			
Description	(1)			

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Remarks	(7)	
Balance	(9)	
Disposed- off as per rule with date	(5)	
Transferred to Hydrology for O & M with date	(4)	Executive Engineer BWCSRP, BWDB, Dhaka Senior Procurement Specialist BWCSRP, BWDB, Dhaka Sub-Divisional Engineer BWCSRP, BWDB, Dhaka NSurface Water Hydrology Circle, BWDB, Dhaka. Ground Water Hydrology Circle, BWDB, Dhaka. Ground Water Hydrology Circle, BWDB, Dhaka. Ground Water Hydrology Circle, BWDB, Dhaka. Chief Engineering Office, Hydrology, BWDB, Dhaka. Mapping Cell, BWDB, Dhaka. Project Director BWCSRP, BWDB, Dhaka Executive Engineer BWCSRP, BWDB,Dhaka Senior Procurement Specialist BWCSRP, BWDB,Dhaka Sub-Divisional Engineer BWCSRP, BWDB, Dhaka N/A Surface Water Hydrology Circle, BWDB, Dhaka. N/A Surface Water Hydrology Circle, BWDB, Dhaka. N/A Ground Water Hydrology Circle, BWDB, Dhaka. N/A Ground Water Hydrology Circle, BWDB, Dhaka. N/A Ground Water Hydrology Circle, BWDB, Dhaka. N/A Chief Engineering Office, Hydrology, BWDB, Dhaka. N/A Mapping Cell, BWDB, Dhaka.
Quantity Procured with date	(3)	Armed Chair, Model: VI-0014, Black Rexine, PFIL.2031-18 20 Nos.
Quantity (as per project document)	(2)	
Description	(1)	

Description	Quantity (as	Quantity	Transferred to Hydrology for O & M	Disposed-	Balance	Remarks
	per project	Procured with	with date	off as per		Carmina
	document)	date		rule with		
(1)	(0)			date		
	(2)	(3)	(4)	(5)	(9)	(7)
			Project Director BWCSRP, BWDB,			
		v isitor Chair, Model-VI-0064	Executive Engineer BWCSRP,			
		Black Rexine	EWDD, Dhaka Frechtive Francisco DM/CCDD			
		PFIL-2031-18				
		20 Nos	Sub-Divisional Eng BWCSRP,		-	
			General Section BWCSRP, BWDB.Dhaka			
			Senior Procurement Specialist			
		-	BWCSRP, BWDB, Dhaka			
			Senior Procurement Specialist			
			BWCSRP, BWDB, Dhaka			
			Road.BWDB Dhaka			
			Programmer, BECSRP, BWDB			
			AE, Mech, BECSRP, BWDBRAC			
			BWDB Office, Green Road, BWDB,			
				-		
			Store BWCSRP, BWDB, Dhaka			
			BWDB.Dhaka			
			General Section BWCSRP.			
			BWDB,Dhaka			
			Sub-Divisional Eng BWCSRP,			
			Store BWCSRP, BWDB, Dhaka			
		:	General Section BWCSRP,			
			BWDB,Dhaka			
			General Section BWCSRP,			
			BWDB,Dhaka	-		
	-	Full Secretarial				

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Remarks	(2)				
Balance	(9)				
Disposed- off as per rule with date	(5)				
Transferred to Hydrology for O & M with date	(4)	Project Director BWCSRP, BWDB,Dhaka Executive Engineer BWCSRP, BWDB,Dhaka Senior Procurement Specialist BWCSRP, BWDB,Dhaka Sub-Divisional Eng BWCSRP, BWDB,Dhaka Assistant Engineer BWCSRP, BWDB,Dhaka N/A Chief Engineering Office, Hydrology, BWDB, Dhaka. N/A Surface Water Hydrology Circle, BWDB, Dhaka. N/A Frocessing Flood Forecasting Circle, BWDB, Dhaka. N/A Ground Water Hydrology Circle, BWDB, Dhaka. N/A Ground Water Hydrology Circle, BWDB, Dhaka. N/A Mapping Cell, BWDB, Dhaka.	Conference Room, BWCSRP, BWDB,	Executive Engineer BWCSRP, BWDB, Dhaka Conference Room BWCSRP, BWDB, Dhaka Sub-Divisional Eng Room BWCSRP, BWDB, Dhaka Sub-Divisional Eng Room BWCSRP, BWDB, Dhaka	BWDB,Dnaka
Quantity Procured with date	(3)	Table, Size: 1800×2175×750 mm, PFIL-2031-18 10 Nos. Half Secretarial Table, Size: 1400×750×750 mm, PFIL-2031-18 15 Nos. Table for Conference Room 1 No. File Cabinet, Size: 1050×550×1470 mm, PFIL-2031-18		Sofa Set With Center Table, Size: 54 Rexine, PFIL- 2031-18, Model- sss-41 sat 3 Nos. Multi-Purpose Shelves, Size	12×400×1800 mm,
Quantity (as per project document)	(2)				
Description	(1)				-

Balance Remarks	(4)												
d-h	(5)												
Transferred to Hydrology for O & M with date	(4)	Kitchen Room BWCSRP, BWDB,Dhaka Consultant Room BWCSRP, BWDB,Dhaka	Consultant Room BWCSRP, BWDB, Dhaka General Section BWCSRP, BWDD DESC.	General Section BWCSRP, BWDB,Dhaka Project Director Room BWCSRP,	BWDB,Dhaka Date: Amril 2018	BWCSRP Comp-B and Hydrology offices	Date: November 2021						63
Quantity Procured with date	(3)	PFIL-2031-18, model SPL 10 Nos. Date: April 2018	•		Date: April 2018	Medium Quality Table02,	Super Quality Table 03,	Normal Quality Table 06,	Executive Chair 10,	Superior Quality chair 03,	Super Quality chair 07,	Medium Quality Chair 10, Normal Quality	
Quantity (as per project document)	(2)					FS							
Description	(1)					Purchase of Office Furniture and Fixtures, Package-BWDB- G19A							

				\sim
Remarks		(7)		
Balance		(9)		
Disposed-	ou as per rule with date	(5)		
	olin Plan P		*	
Transferred to Hydrology for O & M	With date	(4)		Director, GWH, BWDB, Dhaka-01 no. DD, GWH, D-1, BWDB, Dhaka-01 no. DD, GWH, D-2, BWDB, Dhaka-01 no. Executive Engineer, NEMD, BWDB, Dhaka-01 no. Executive Engineer, Mymensingh, Sub Div., BWDB, Mymensingh-01 no. Executive Engineer, SWMD, BWDB, Faridpur01 no. Executive Engineer, Morphology, Mymensingh02 no. Executive Engineer, Morphology, Mymensingh02 no. Executive Engineer, Morphology, Mymensingh02 no. Jessore WD, BWDB, Jessore01 no. Jessore WD, BWDB, Jessore01 no. Executive Engineer, SEMD, BWDb,
Quantity	Frocured with date	(3)	guest chair 23 Medium quality single seater sofa 02, Medium quality double seater sofa 04, Superior quality single seater sofa 01, Superior quality double seater sofa 02,	IPS (1500 VA)-06 nos. Date: February 2020
Quantity (as	per project document)	(2)		IPS (1500 VA)- 06 nos. IPS (800 VA)-10 nos.
Description		(1)		Purchase of Electrical Materials & IPS, Package-BWDB-G20

Remarks		(6)						
Balance		(9)		0.00				
Disposed-	orr as per rule with	(5)		·				
Transferred to Hydrology for O & M	WILL GATE	(4)	Cumilla01 no. Hydrology Sub-Div, BWDB, Chittagong01 no. River Morphology & Research Circle, BWDB, Dhaka01 no.	Executive Engineer, Dhaka Morphology Division-01 Nos. Executive Engineer, Mymensing Morphology Division-01 nos Executive Engineer, Kushtia Morphology Division-01 Nos. Executive Engineer, Construction & Instrumentation Division (C&I) -01 nos. Date: January 2023	Deputy Director, Ground Water DivnI - 3Nos. Deputy Director, Ground Water DivnII -3Nos. Date: October 2023	 Morphology Division, Bharamara, Kustia-01 Morphology Division, Mymensingh Jamalpur-01. Morphology Division, Dhaka 	gg	2.Morphology Division, Mymensingh Jamalpur-01. 3.Workshop,Shimrail Narayanganj, BWDB BWDB-01
Quantity Procured with	date	(3)		04 Date: January 2023	06 Date: September 2023	Survey Boat -03	Survey Catamarans-03	Date : November 2024
Quantity (as	document)	(2)		40	90	Survey Boat -03	Survey Catamarans-03	
Description		(1)		Purchase of 04 Nos. Multi Beam Echo sounder with Survey grade Laptop (Software & Accessories), Package-BWDB- G22	Purchase of 06 Nos. Drilling Machine (Rig Machine) for GW well construction, Package- BWDB-G23	Purchase of Survey Boat and Survey Catamarans (03 Nos. Survey Boat and 03 Nos. Survey Catamarans), Package-BWDB-25		

Remarks	(7)					3	
Balance	(9)						
Disposed- off as per rule with	(5)						
Transferred to Hydrology for O & M I with date	(4)	Date: November 2024	Data center, 2 nd flood, Central ICT Directorate, Pani Bhaban, BWDB, Dhaka.	Central GIS Directorate-02, Flood Forecasting and Warning Centre-01, Processing & Flood Forecasting Circle-01, Central ICT Directorate, BWDB-01, River Morphology & Research Circle -01	Processing & Flood Forecasting Circle, BWDB, Dhaka. Surface Water Hydrology Circle, BWDB, Dhaka. River Morphology & Research Circle, BWDB, Dhaka.	"Ali Ahsan Nishat Executive Engineer Office of Chief Engineer Planning, BWDB, Dhaka." Superintending Engineer, Central GIS	Directorate, BWDB, Dhaka. Chief Engineer Hydrology, BWDB,
Quantity Procured with date	(3)		Gold Processor Server 04Nos Load Balancer, SD-WAN & Next Generation Enterprise frewall 01Nos 48-Port 10G SFP Switch 02Nos	Precision 7920 Tower Workstation 6Nos	All In One (Core- i7) Desktop PC 20Nos		
Quantity (as per project document)	(2)		LS				
Description	(1)		Purchase of ICT Equipment for Data Centre & hydrological network upgradation, Package-BWDB-28				

Description	Ouantity (as	Onantity	Transformed to Uridual con fee O 116	-	,	
ı	per project	Procured with	$\frac{1}{2}$ is a simple of the $\frac{1}{2}$ with date	Disposed-	Balance	Remarks
	document)	date		rule with	-	
	6			date		
(1)	(7)	(3)	(4)	(5)	(9)	6
			Dhaka.			
	-		Director Ground Hydrology, BWDB,			<u>.</u>
		-	Dhaka.			
			Executive Engineer, Flood Forecasting			
		-	& warning Center, BWDB, Dhaka		=	
		-	Superintending Engineer, River			
			Morphology & Research Circle, BWDB,			
			Dhaka.			
			Director Ground Hydrology, BWDB,			
			Descrite o Fr 17			
			Frocessing & Flood Forecasting Circle,			
			bwub, unaka.			
			Surface Water Hydrology Circle,			
			BWDB, Dhaka.			-
			River Mornhology & Research Circle			
			BWDB, Dhaka.		-	
			Chief Engineer Hydrology, BWDB			
	·	Laptop Computer	Dhaka.			
		26Nos				
			Director Ground Hydrology, BWDB.			
			Dhaka-7nos	1	-	
			Surface Water Hydrology Circle,			
			BWDB, Dhaka8 nos			
			Processing & Flood Forecasting Circle,	-		
		-	BWDB, Dhaka1			
			Surface Water Hydrology Circle,			
		-	BWDB, Dhaka1			
			River Morphology & Research Circle,			
			BWDB, Dhaka1			
		•	Chief Engineer Hydrology, BWDB,		• "	
			Dhaka1	-		
		-	Director (Finance), Chief Engineer		•	
			Planing, BWDB, Dhaka1			-
			Assistant Director RAC (Mohosin			
			Patoary), BWDB, Dhaka1			
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Remarks	(7)							
Balance	(9)			-				
Disposed- off as per rule with date	(5)							-
Transferred to Hydrology for O & M with date	(4)	River Morphology & Research Circle, BWDB, Dhaka-I. Anwer Hossain, Assistant Engineer, BWCSRP-I ADG, West region, BWDB, Dhaka. Chief Engineer Hydrology, BWDB, DhakaI Hydroinformatic and Flood forecasting circle-01. Programmer, BWCSRP, BWDB-01 Office of the ADG (Planning), Office of the Chief Engineer, Hydrology, Office of the Chief Planning, Superintending Engineer, Processing & Flood Forecasting Circle, Superintending Engineer, River Circle; Superintending Engineer, River Morphology & . Research Circle), Directorate of Ground Water Hydrology Circle & Central GIS Directorate, Executive Engineer, Flood Forecasting and Warning Centre Executive Engineer, North Eastern	Measurement Division Executive Engineer, South Eastern	Measurement Division	Executive Engineer, Not taken Measurement Division	Executive Engineer, South Western	Measurement Division Executive Engineer Construction &	
Quantity Procured with date	(3)	Core -i7 Desktop Computer 40Nos Printer (Laser) 40Nos 1200 VA UPS 60 Nos Scanner A4 Size 15Nos						
Quantity (as per project document)	(2)							
Description	(1)							

Description	Onantity (ac	Quentiter	T. 1 1 0 0 0 1			
	per project	Procured with	Transierred to Hydrology for U & M with date	Disposed-	Balance	Remarks
	document)	date	WILL GALG	rule with		
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				date		
(1)	(2)	(3)	(4)	(5)	(9)	(5)
			Instrumentation Division Executive Engineer, Dhaka Morphology			
		86inch All-in-One	Division. Executive Engineer, Kustia Morphology			
		4K Smart Training	Division.			
		Management Panel 2Nos	Executive Engineer, Mymensing Momhology Division			
		20KVA True	Deputy Director, Ground Water			
		Online UPS	Hydrology Div-I.			
		Sput 1ype AC 2 Ton 2Nos	Deputy Director, Ground Water Hydrology Div. II			
		fun	Office of the Regional Accounts			
		Printer 6Nos	& BWCSRP Project Office (Distribution			
			list Attached).			
		Date: June 2023	Hydroinformatic and Flood forecasting			
			Cucie-01. Date: June 2023			
	Supply of Auto	Auto Leveling	Executive Engineer Construction			
	Leveling	machine	& Instrumentation Division,			
	including all	including all	BWDB, Dhaka.			
	necessary	necessal y accessories = 32			• • • •	
	accessories -	nos.				
	32 nos.	Hand Held GPS	Date: June 2024			
Purchase of Instruments for	Hand Held	with all necessary				
hydrological survey and GPS	GPS with all	accessories (i.e.				
equipment, Packge-BWDB-30	necessary	data cable &			,	
	accessories (i.e.	Software - 42				
	data cable &	nos.				
	Software - 42	Supply of DGPS				
	nos.	including all				
	Supply of	standard				
	DGPS	accessories				
	including all	Brand: Trimble			, • ,	

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Remarks			(7)																																
Balance			(9)																					,											-
Disposed-	off as per	rule with date	(5)														·																		
Transferred to Hydrology for O & M	with date		(4)																																
Quantity	Procured with	date	(3)	Navigation (I)	Pvt. Ltd 12 nos.	4	Supply of RTK	GPS ((Base &	Robber)) along	with	downloading	cable, data	collection and	post-processing	software and all	required	necessary	accessories – 03	nos.	Supply of	Portable Handy	Depth Sonar	(HONDEX PS-7	or equivalent)	with all	accessories		Date: June 2024							
Quantity (as	per project	document)	(2)	standard	accessories	Brand: Immble	Navigation (I)	Pvt. Ltd 12	nos.		Supply of RTK	GPS ((Base &	Robber)) along	with	downloading	cable, data	collection and	post-processing	software and	all required	necessary	accessories -	03 nos.	Supply of	Portable Handy	Depth Sonar	(HONDEX PS-	7 or	equivalent)	with all	accessories	Supply of	Portable Handy	Depth Sonar	(HUNDEA FS-
Description		,	(1)																																

Remarks	(5)		
Balance	9		
Disposed- off as per rule with	(5)		
Transferred to Hydrology for O & M with date	(4)		Executive Engineer, Construction & Instrumentation Division, BWDB, Dhaka. Date: June 2024
Quantity Procured with date	(3)		Single Frequency Echo-sounder- 07 nos. Supply of duel Frequency Survey Grade Echo sounder for Bathymetric Survey- 04 nos. Supply of Hypack Software- 03 nos.
Quantity (as per project document)	(2)	7 or equivalent) with all accessories- 26 nos.	Supply of Single Frequency Echo- sounder- 07 nos. Supply of duel Frequency Survey Grade Echo sounder for Bathymetric Survey- 04 nos. Supply of Hypack Software- 03
Description	(1)		Purchase of Echo Sounder (single and dual frequency),Packge-BWDB-34

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22. Procurement of Goods, Works and Services:

- 22.1 Information on packages:
 - a) Total number of packages as per Project Document: 57 (Goods- 40, Works-09, Services-08)
 - b) Total number of packages procured: 50 (Goods- 33, Works-09, Services- 06)
 - c) Reason for not procuring (if any):
 - Office Equipment (Package-G18B)- Not implemented as not required.
 - Package-G29, G32, G33, G35 could not be implemented due to delayed decision (clearance) from the World Bank (did not cover required procurement time) while G31, vendor did not able to complete within stipulated time.
 - Data Sharing Policy (Package-C18)- Data sharing achieved through MoU among BWDB, BMD and DAE. Consultancy package dropped.
 - d) Number of packages for which the estimated cost is more than 1% of the estimated cost of the project: 22 (Goods-12, Works-07, Services-03)
- 22.2 Detailed Package-wise information of Goods, Works and Services (For each case the highest 50 (fifty) packages) (Please use the format as in Annexure-1 (a), 1(b) and 1(c))



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C. FINANCIAL AND PHYSICAL TARGET AND PROGRESS

23. Original and Revised Financial Provision and physical Target (as per Project Document):

Amount in lac taka	
sed Financial Provision and physical Target (as per Project Document):	

Financial provision & physical target as per original Project	rovision & p		ohysical targe	et as per	original	Project	Financial	provision &	Financial provision & physical target as per latest revised Project	as per lates	st revised P	roject
Document	Document	Document	- 1						Document	٠		,
Total GOB P.A.	P.A.		-	Self- finance	Others	Physical %	Total	GOB	P.A.	Self- finance	Others	Physical
(2) (3) (4)	(4)		_	(5)	(9)	(7)	(8)	(6)	(10)	(11)	(12)	(13)
10,370.43 450.22 9,920.21		9,920.21		-		28.99		Ĉ				
13,624.95 473.87 13,151.08		13,151.08			1	40.36	213.83	67.05	146 78			0.63
4,733.38 375.41 4,357.97		4,357.97	ŀ			14.1	3.290.34	78.50	3 211 84			0.02
2,916.80 426.33 2,490.47		2,490.47				8.93	2 149 15	92.27	2.056.41	• 		1.0
2,419.29 478.12 1,941.17		1,941.17		ı		7.62	4 344 83	77 099	3 684 06		'	12.7
1		-		,	'	'	5 284 38	1 353 37	3 031 06	-		12.57
1				,			5.500.00	500 00	5 000 00		,	15.29
1	ı	1		'		,	13,787.43	2,074.85	11.712.58			39 88
34,064.85 2,203.95 31,860.90					-	100.00	34,569.96	4,827.23	18,030.15	•		90.59



24. Revised ADP allocation and progress:

		Revise	Revised Allocation & target	& target			400		Expendi	Expenditure & physical progress	progress	,		Unspent*
Financiai F	F	400	×	Self-	7.1	Physical	GUB Pelesce	L. T.	u.O.D	4	Self-	1,0	Physical	GoB
I cal	lotai	g 05	r.A.	Finance	Others	%	ivercase	1 Otal	900	F.A.	Finance	Omers	%	Released
(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)	(11)	(12)	(13)	(14)	(15)=8-10
2017-18	774.00	101.00	673.00	-	_	3%	84.00	213.83	60.79	146.78	1	١	%7	16.95
2018-19	3,900.00	150.00	3,750.00	-	-	%6	112.50	3,290.34	78.50	3,211.84	ı	1	%21	34.00
2019-20	6,000.00	400.00	5,600.00	1	1	14%	148.00	2,149.15	92.74	2,056.41		1	%6	55.26
2020-21	6,658.00	1,658.00	5,000.00	-	•	%\$1	774.50	4,344.83	22.099	3,684.06	-1	ı	%77	113.73
2021-22	12,150.00	2,150.00	10,000.00	•	_	%97	1,425.00	5,284.38	1,353.32	3,931.06		'	18%	71.68
2022-23	5,500.00	500.00	5,000.00	-	-	%£I	398.14	5,392.44	395.39	4,997.05	-	'	10%	2.75
2023-24	12,500.00	1,500.00	11,000.00	-	-	70%	1,415.50	11,646.39	1,289.86	10,356.53	1	,	15%	125.64
Total	47,482.00	6,459.00	41,023.00	-	-	100%	4,357.64	32,321.36	3,937.63	28,383.73			%56	420.01

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D. <u>ACHIEVEMENT OF OBJECTIVES OF THE PROJECT</u>

25. Project objective, Actual achievement and Reason for shortfall (if any):

Objectives as per Project Document	Actual achievement	Reasons for shortfall (if any)
a) To provide comprehensive	G1: Groundwater (905 Ground Water stations)	-
support to the	G2: Surface Water, Rain, Climatology (15	
BWDB towards	AWLG; 272 ARG; 3 AWS) G6: Coastal Monitoring (40 Coastal Flood	
modernization of	Monitoring Stations).	
its hydrological monitoring	Significant improvement of capacity for	*
network and	hydrological and topographical	·
operations.	measurements and surveys:	
	•	
	Project enhanced BWDB capacity in hydrological and topographical	
	measurements, monitoring and	
	surveys enabling BWDB capable to render better services towards the land and water	
	development of Bangladesh. Through	
	hardware software and training support BWDB GIS unit has been activated to	
	perform its function at a desired level,	
	earlier it was not active. Project also developed a very high resolution (2m X	
	2m) Digital Elevation Model (DEM).	
	In achieving the above significant achievements and project objectives	
	numerous activities were accomplished, few are as follows:	
	A. Installed modernized hydrological monitoring network for accurate and	
	real time data:	
	• Automated Groundwater Ground Water stations throughout the	
	country in 905 locations	-
	Automated Surface Water, Rain, Climatology stations over the	
	country at 315 (AWLG), 272	
	(ARG) and 3 (AWS) locations respectively including integration	
	through comprehensive ICT	
	system. • Automated Coastal Flood	
	Monitoring Stations over the	

Objectives as per	Actual achievement	Reasons for shortfall (if any)
Project Document		
	coastal zone in 40 locations.	
	 B. Hydrological equipment: Procured and made functional: Systems for hydrological survey: ADCP-10 nos, Sondes (water quality) -20 nos, Echosonder-8 nos, Side Scan Sonar-1no, Survey Grade Echosonder-2-nos. Systems for Morphological survey (1) 15 handheld TDS 2) 12 RTK GPS 3) 6 DGPS beacon receiver 4) 8, Total Stations 5) 4 First order digital leveling machine 6) 2 subbottom profilers 	
	 Lab and field equipment and accessories: 1) 1 Ion Chromatograph, 2) 30 field test kits. GIS and Image processing software with extensions. Digital Elevation Model (DEM) developed using SOB data aerial images. The project developed new DEM is finest and precise having 2m X 2m horizontal resolution with 0.50 m vertical accuracy (earlier DEM was o 300 m X 300 m horizontal resolution). GIS/Satellite images (Both Captured and Historical), G-15B: 	
	Preparation of DEM for whole country. Multi Beam Echo Sounder: 4 nos. Purchase of modern survey vessels (04 Survey Boat, 03 Speed Boats and 04 Survey Catamarans). Purchase of Instruments for hydrological survey and GPS equipment with all necessary accessories and soft-wares. Establishment of a Hydrology Lab in Pani Bhaban Premises and provided Instruments for water quality and other lab Equipment with all necessary accessories and soft-wares.	

Objectives as per Project Document	Actual achievement	Reasons for shortfall (if any)
	C. GIS, ICT & Other Equipments and	[2] [2] [2] [2] [2] [2] [2] [2] [2] [2]
	Services: Procured and made	
	functional:	
	• A huge band of IT equipment and	
	soft-wares including Servers-14	
	nos,	
	• Next Generation Firewall-02 nos,	
	Midrange Firewall-02 nos, Core	
	switch-02 nos, KVM Switch with	
	Console Monitor, • Load Balancer with Anti D-	
·	Dos/WAF-02 nos,	
	• Upgradation of existing SAN	
	Switch (Connectix DS-6505B)	
	from 12 active ports to 24 active	
	ports with required license and 16	
	Gbps Short Wave SFP	ĺ
	transceivers- 02 nos.	
	• Storage area network (SAN)	
	Switch for connecting servers and	
	shared pools of storage devices	
	and is dedicated to moving storage traffic-02 nos, SAN Storage	
	Enclosure-02 nos.	
	Software for Data collection/	
	acquisition software-02 nos,	
	Data Management and Time Series	
	Data processing Software-02 nos,	·
	Oracle 19c Database with Oracle	
	RAC in database management and	
	processing servers.	
	NMS/Server Monitoring (For the purpose of monitoring all the	
	purpose of monitoring all the server related device and network.	
	 Security Information and Event 	
	Management (SIEM) Software,	
	• Field Maintenance Tracking	
	Software, Backup Software,	
	Development of Data and	
	Information sharing platform	
	among BWDB and Stakeholders.	
	• Web GIS, Mobile App and	
	updating Web Portal Services. • Gold Processor Server Load	1
	• Gold Processor Server Load Balancer, SD-WAN & Next	
	Generation Enterprise firewall	·
	Technology Device.	



Objectives as per Project Document	Actual achievement	Reasons for shortfall (if any)
	 Super Computer-03 nos Improvement in flood forecasting covering whole Bangladesh including flash flood and storm surge/cyclone induced flood: Existing Model of BWDB Flood Forecasting and Warning Center (FFWC) has been 	
	 Upgraded and the forecasting services have been expaned to the whole country. Community based Early Warning System in 2 flood prone districts (Netrokona and Sunamganj) in collaboration with DDM has been introduced. New version of DHI Software for flood forecasting model and DSS have been procured, delivered to FFWC, and installed at FFWC system which is operational with updated flood forecasting models and DSS. Also huge ICT Equipment procured for FFWC and upgraded the existing capacity. Software & Hardware provided at BWDB Data Centre. ICT Equipment provided at 13 locations over the country 	
	 A complete integration developed through development of Mobile Apps, Upgrading Web-portal Data and Information sharing software to share information between BWDB and Stakeholders Provided support through Media and Communication outreach 	
b) Procurement of hydrological equipment.	Package-G3: Purchase of Catamaran and Survey Boats (01 no. Catamaran, 01 no Survey Boats) Package-G4: Purchase of Systems for hydrological survey: ADCP-10 nos, Sondes (water quality) -20 nos, Echosonder-8 nos, Side Scan Sonar-1no, Survey Grade Echosonder-2-nos. Package-G5: Purchase of Systems for	-

Objectives as per Project Document	Actual achievement	Reasons for shortfall (if any
	Morphological survey (1) 15 handheld	
	TDS 2) 12 RTK GPS 3) 6 DGPS beacon	
	receiver 4) 8 Total Stations 5) 4 First order	
	digital leveling machine 6) 2 sub-bottom	
	profilers	
	Package-G7: Purchase of Lab and field	
	equipment and accessories:	
	1) 1 Ion Chromatograph, 2) 30 field test	
. <u> </u>	kits	
	Package-G14: Purchase of GIS and Image	
	processing software with extensions	
	Package-G15 Digital Elevation Model	
	(DEM) from SoB:	
view de la company de la compa	Package-G15A: Purchase of GIS/Satellite	
	images.	
	Package-15B: Preparation of DEM from	
	SoB Data	
	Package-G22: Multi Beam Eco Sounder: 4	
	nos	
	Package-G25: Purchase of Survey Boat	
	and Survey Catamarans	
	Package-G-29: Purchase of Instruments for	
	water quality and lab Equipment with all	
	necessary accessories and software	
	Package-G30: Purchase of Instruments for hydrological survey and GPS equipment	
	with all necessary accessories and software	
	Package-G-31: Purchase of ADCP (for	
	discharge measurement), ADCP float with	•
	all necessary accessories and software	
	Package-G-33: Purchase of Equipment for	
	Discharge measurement and Others with	
	all necessary accessories and software;	
	Package-G-34: Purchase of Instruments for	
	water quality and lab Equipment with all	
	necessary accessories and software.	
) Improvement in	Package-C2: Upgradation of existing	-
flood forecasting	Flood Forecasting model and expansion to	
covering whole	the whole country.	
Bangladesh		
including flash	Package-C27: Community based flash	
flood and storm	flood early warning system.	
Ī	GL 40°	
surge/cyclone	Significant improvement of capacity for	
induced flood.	forecasting:	
	Flood forecasting capacity of BWDB	
·	Flood Forecasting and Warning Centre has	
	been upgraded to a great extent in terms of	
	accuracy and spatial coverage with	

Objectives as per	Actual achievement	Reasons for shortfall (if any)
Project Document		
	Inundation mapping as a newly added	
	output. Now it covers whole country to 64	
	districts, earlier was 31 districts. The	
	previous model was covering only 82000	
	Sq km of Bangladesh. Now model capacity	
	increased to the whole area of the country	
	147570 Sq km. New model covers all 9	
	hydrological zones of Bangladesh while	•
	earlier it covered 4 hydrological zones.	
	Previous model was 1-D model, in this	
	project 2-D model introduced, additionally	
	added 1D-2D coupled flood inundation	
	forecasting model for coastal area of	
	Bangladesh. Model additionally produces	
	Dynamic Flood Inundation Map for coastal	
	area.	
	Thus, the new model generates 2D	
	(dynamic) inundation map for the whole	
	area of Bangladesh.	
,	Earlier data input was from rivers 306,	
	now 474 rivers, earlier number of	
	Boundary Water Level	
	stations was 13 now 28. Number of River	
	Cross-sections was 3900 and now 8600.	•
	Closs-sections was 3500 and now 6000.	
	Significant improvement of capacity for	
	hydrological and topographical	
	measurements and	
	surveys:	
	Besides, project enhanced BWDB capacity	•
	in hydrological and topographical	
	measurements and	
	surveys enabling BWDB capable to render	
	better services towards the land and water	
	development of Bangladesh. Through	
	hardware software and training support	•
	BWDB GIS unit	
	has been activated to perform its function	
	at a desired level, earlier it was not active.	
	Project also	
	developed a very high resolution (2m X	
	2m) Digital Elevation Model (DEM).	
d) Development of	C15: Development of new hydrological	-
other water related	services and products.	
i	F	
hazards	Following new forecast/prediction Models	
forecasting/	produced and linked to the BWDB	
	80	
	00	

Objectives as per	Actual achievement	Reasons for shortfall (if any)
Project Document prediction	III-1	
services.	Hydrology web	
SCIVICES.	Web	
	Development of hydrological services and	
	products Dissemination of Products	
	and Services	
	Development of Sediment prediction Model	
	Development of Riverbank erosion	
	prediction Model, Morphology Model and	
	surface water outlook	
	Development of Hydrological	
	drought prediction Model	
	Development of Salinity intrusion	
	forecast Model	
	Development of Ground water	
	assessment Model, Ground water	
	outlook and forecast.	
e) Forecast products	ICT Equipment Upgrade	· ·
diversification and	Package-G2: Software & Hardware at	
down- scaling.	BWDB Data Centre	
	Package-G10A: ICT Equipment (13	
	locations)	
	Package-G21: ICT Equipment (25	
	locations Districts)	
	Package-G28: ICT Equipment for BWDB	
	Hydrology and Data Center.	
	Package-C15: Development of	
	hydrological services and products:	
	sediment prediction model, River bank	
	erosion prediction Model, Hydrological	
	drought prediction Model, Salinity	
	intrusion Model, Ground water assessment	
	Model. Dissemination of Products and	
	Services	
	Package-C22: Development of Mobile	
	Apps, Upgrading Web-portal Data and	
	Information sharing software to share	
	information between BWDB and	
	Stakeholders	
	Package-NS1: Media and Communication	
	outreach.	



Objectives as per Project Document	Actual achievement	Reasons for shortfall (if any)
f) Knowledge creation on trans boundary hydrological cross cutting issues.	regional collaboration. Risk assessment	-

E. BENEFIT ANALYSIS

26. Annual Out-put:

Items of out-put	Unit	Estimated quantity expected at full capacity	Actual quantity of out-put during the 1 st year of operation at full capacity (or during, real production for newly completed project)
a) Automated Surface Water observation network	One system	One System in operation	
b) Automated Ground Water observation network	do	do	
c) Automated Rainfall observation network	do	do	Systems are in operation
d) Coastal Monitoring System	do	do	
e) New Hydrological forecast products	do	do	
f) Upgrade FFWC	do	do	

27. Cost/Benefit:

Item	Estimated	Actual
(1) Benefit cost ratio of the project:	As calculated on the year 2017-18:	As calculated on project last year 2023-24:
(i) Financial(ii) Economic	(i) 2.04:1.00 (ii) 2.21:1.00	(i) 2.59:1.00 (ii) 2.83:1.00
(2) Internal Rate of Return:(i) Financial(ii) Economic	(i) 25.36 % (ii) 27.44 %	(i) 36.90 % (ii) 40.70 %

28. Please give reasons for the shortfall, if any, between the estimated and actual benefit: Not Applicable.

F. MONITORING AND AUDITING

29. Monitoring:

Name & Designation of the inspecting official	Date	Identified Problems	Recommendations
1	2	3	4
a) IMED:			·
b) Ministry/Agency:			
	11.7 0001		
Mr. Jatan Marma, Deputy Secretary, Ministry of Water Resources	11 June 2024	-	Under the project, arrangements must be made to transfer all purchased equipment,
			including the stations, to the Hydrology Division of BWDB. Additionally, the stations must be
)		regularly maintained to ensure accurate hydrological information services.
c) Others: (Please specify)			



30. Auditing during and after Implementation:

30.1 Internal Audit: Foreign-Aided Projects Audit Directorate (FAPAD) Audit

Period of Audit	Date of submission of Audit Report	Sl. No.	Major findings/objections and Money involved	Whether objections resolved or not (if not, mention status)
1	2	3	4	5
1		3		
2017-18	20.12.2018		None	None
2018-19	31.12.2019		None	None
2019-20	31.12.2020		None	None
2020-21	30.12.2021	·	None	None
2021-22	29.12.2022	1	Loss of Project money amounting to Tk. 5,95,800.00(Five Lakh Ninety Five thousand Eight Hundred) due to pay bill to vendor without supplying required items.	The goods have been supplied as per the specifications mentioned in the tender, and evidence-supported responses have been submitted confirming that the goods have been received by the designated committee. The matter is under the process of resolution at FAPAD.
		2	Loss of project money amounting to TK. 90,44,429.00 (Ninety Lakh Forty Four thousand Four Hundred Twenty Nine) due to not imposed L.D to the contractor.	Evidence-supported responses have been submitted confirming that the necessary approval from the appropriate authority for time extension was obtained in due time. The matter is under the process of resolution at FAPAD.
		3	Loss of project money amounting to Tk. 79,85,000.00 (Seventy Nine Lakh Eighty Five	The vehicle purchased was being used by the Bangladesh Water Development Board for

Period of Audit	Date of submission of Audit Report	No,	Major findings/objections and Money involved	or not (if not, mention status)
	:		Thousand) due to procure unnecessary Vehicles which is not using for the project related purpose.	In light of the audit
				and evidence-supported responses have been submitted in this regard. The matter is under the process of resolution at FAPAD.
2022-23	27.12.2023	1	Project sustained a loss amounting to TK. 7,96,516.00 due to selection of trainees for overseas training outside the BWDB personnel.	Under the Central Store of BWDB, goods have been procured according to the approved indent and demand. The goods were issued and distributed based on approved demand from the authorities concerned. Later, it was confirmed that the goods were used in the implementation of development projects by BWDB, and the Central Store also issued them accordingly.
				As the goods were procured under indent and demand and issued accordingly, it was necessary to distribute them to the appropriate authorities. However, it was later found that no actual demand from such authorities existed. Evidence-supported responses have been submitted in this regard.

Period of Audit	Date of submission	Sl. No.	Major findings/objections and Money involved	Whether objections resolved or not (if not, mention
	of Audit Report			status)
				The matter is under the process of resolution at FAPAD.
		2	Payment was made to the contractor showing 250-meter length surface drain work resulting loss of project money amounting to Tk. 5,04,088.00	Regarding BBQ-related construction of 250-meter-long surface drain work, refurbishing of the Hydrology Office, GI sheet installation, and earth filling, the response has been submitted along with necessary documentation. The matter is under the process of resolution at FAPAD.
2023-24	30.12.2024	1	Unspent money of RPA amounting to Tk. 5,97,15,639.00 not yet refunded to IDA although the project period has been ended.	It is under process to refund as Govt. procedure.
		2	Embezzlement of Tk.7,81,50,000.00 for paying the bill showing fictitious delivery challan of Survey Catamarans and Survey boat.	were supplied in time. Reply
		3	Irregular procurement of Survey Catamaran and Survey Boats valued amounting to Tk.14,44,50,000.00 due to non-compliance of Technical Specification.	It is not true. Survey Catamarans and Survey Boat Technical specification within contract/tender document. Reply will be sent to FAPAD soon along with supporting/relevant documents.

Period of Audit	Date of submission of Audit Report	S1.	Major findings/objections and Money involved	Whether objections resolved or not (if not, mention status)
		4	Liquated Damage amounting to Tk. 1,44,50,000.00 not imposed upon the defaulting supplier in spite of not supplying	Goods delivered stipulated time. No need to impose Liquated Damage. Reply will be sent to FAPAD soon along with supporting/relevant
		5	boats violating PPR-2008. Loss of project money paying bill amounting to Tk. 4,09,40,688.001 without doing refurbishment works.	documents. Bill was paid after completion of Refurbishment works. Reply will be sent to FAPAD soon along with supporting/relevant documents.
		6	Duel Frequency Survey Grade Echo Sounder and Hypack Software amounting to Tk.1,68,19,600.00 was not found during physical verification.	Duel Frequency Survey grade echo Sounder and Hypack Software are available in the Constriction & Instrument division ware house. Reply will be sent to FAPAD soon along with supporting/relevant documents.
		7	Irregular payment was made amounting to Tk.28,95,435.00 for performance audit without need assessment and not complying the opinion for the convener of review committee.	Reply will be sent to FAPAD soon along with supporting/relevant documents.
Total findings/ob Money inv	-	12	32,09,56,507.00	

30.2 External Audit:

Period of Audit	Date of submission of Audit Report	SI. No.	Major findings/objections and Money involved	Whether objections resolved or not (if not, mention status)
1	2	3	4	5
July 2017 to June 2019	28.10.2020		None	Not Applicable
July 2019 to June 2021	20.06.2024		None	Not Applicable
Total findings/ol Money inv			Not Applicable	Not Applicable



G. POST-PROJECT REMARKS

31. General Observations/Remarks on the Project

31.1 Background

As a low-lying delta, Bangladesh has one of the most complex river systems in the world. The main commission of BWDB is implementation of the National Water Policy. This requires, management and operation of the FFWC, production and supply of reliable data for not alone flood forecasting, but also for the national water resources management and for related decision-support. As such BWDB is responsible for the national hydrological services to supply relevant data information for water resources management.

The hydrological services are provided by BWDB through BWDB Hydrology. The core function of the hydrological services under BWDB Hydrology is to collect data from nation-wide monitoring stations. Most of its hydrology network was established back in 1960-1980, with support from development partners. Bangladesh Water Development Board is maintaining around 343 water level stations, 269 rainfall stations, 50 meteorological stations, 1800 ground water stations in the country through Hydrology, BWDB. There has been little upgrading since the installation. The overall data collection network remains manually operated with old and poorly maintained equipment. This limits BWDB to provide reliable information to various stakeholders effectively.

31.2 Justification/Adequacy

The internal institutional setting of BWDB is inadequate, in which Hydrological services are not given the proper attention, which is partly indicated by not being provided with an adequate operational budget, man power for running and to maintain the hydrological monitoring, and reporting system. BWDB is currently undergoing a major restructuring. Its staff strength is being significantly reduced, and some services are intended outsourced. In this restructuring process it is important that BWDB Hydrology obtains an institutional and financial position that secures an effective operation of the hydrological services including provision of flood forecasts, early warning, low flow and groundwater monitoring.

To evaluate the situation with concerned offices a World Bank Identification Mission visited Bangladesh during November 2-10, 2014 and subsequent preparation mission visited in February 15-26, 2015 and June 1-11, 2015 proposed interventions for modernization and integration of hydrological services in Bangladesh with the focusing of different stakeholders. A follow up World Bank mission visited Bangladesh from September 13-23, 2015, Appraisal Mission from December 6-December 15, 2015 and Technical Mission from February 22-25, 2016 to continue preparation and finalization of the Weather and Climate Services Regional Project (WCSRP).

31.3 Objectives and

The project development objectives (PDOs) as approved and agreed upon by the GOB and the World Bank are to:

- To provide comprehensive support to the BWDB towards modernization of its hydrological monitoring network and operations.
- Procurement of hydrological equipment.
- Improvement in flood forecasting covering whole Bangladesh including flash flood and storm surge/cyclone induced flood.

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- Development of other water related hazards forecasting/prediction services.
- Forecast products diversification and down-scaling.
- Knowledge creation on trans-boundary hydrological cross-cutting issues.
 - 31.4 Project revision with reasons

Reasons for 1st Revision:

A few discrepancies/inconsistencies including incorrect economic code of DPP have detected which causes impediment of project implementation and IDA (The World Bank) has given some observations and suggestions on the ToR of Consultancy Services attached in the approved DPP. Under these circumstances, it is required, to revise the DPP for smooth implementation of the project.

The main features of proposed revision and item-wise reasons/ justifications for variations in cost (if any) are described below:

- a) Correction of the Economic Codes;
- b) In the procurement plan, mistakenly no budget was allocated for package G-3 (to procure four Catamarans and four Survey Boats)
- c) Total Survey, Study and Investigation tasks can be divided into 04 nos. packages (03 packages under revenue component and 01 package under capital. component)
- d) Some important/essential items are appropriate/missing/misplaced in the DPP as well as some unnecessary items and codes are incorporated. For smooth functioning of the project the new items with economic code/rightly placed items have been incorporated in the proposed RDPP.
- e) As requested by the World Bank (for the effective functioning of consultants), the changes, inclusion and/or exclusion are made in the ToR for the appointment of the Water Resources Systems Integrator (WRSI) Consulting Firm.

Reasons for 2nd Revision:

At the very beginning, a few discrepancies/inconsistencies including incorrect economic code of DPP caused hindrance in payment thus retarded the project progress. In the meantime, the World Bank had given some observations and suggestions on the TOR of Consultancy Services attached in the approved DPP. Under those circumstances, it was necessary to review the DPP for smooth implementation of the project. The first revised DPP was submitted and was approved by the Ministry of Water Resources in July 2018. The Financing Agreement of the project was signed on 05 April 2017 between GoB and World Bank (IDA), according to the agreement date of closing of financing is December 31, 2022. Administrative approval from the Ministry of water resources was issued on 19 June 2017 and the Project Director was appointed on 11 July 2017. So, the project was started late and missed the first two financial years in its implementation.

Again, the Financing Agreement was amended on 14 May 2020 and RPA 4.7905 million USD has been withdrawn reducing total RPA contribution to 35.8295 million USD. As, i) RPA USD 4.7905 Million has already been Withdrawn by the World Bank ii) The implementation of the project commenced with almost 02 (two) years delay, iii) Due to delay of selecting a consulting firm to undertake the assignment of Water Resources Systems Integrator (WRSI) consultancy, the most critical technical consultancy for implementation of the project, iv) The contract period of the most important packages (G2 & G6) has end on March 2022 and further one (1) year needed for Data accruing and Operation & Maintenance by the original vendor which is mandatory according to WB and while WRSI consultant's advice, (which was not considered initially) v) Some packages are reorganized and some new packages are also included in the project for achieving the objectives of the project, vi) the date of closing of financing agreement (FA) of this project is December 31, 2022, also World Bank Task Team Leader (TTL) suggested to keep the project's closing date six months beyond the closing date of financial agreement. So, it does not require extension of FA, therefore the project implementation period proposed to extend up to June 2023. For these reasons 2nd revision of the project is necessary. Also, in amended FA both GoB and WB (IDA) have agreed to revise the existing DPP to accommodate the changes.



32. Rationale of the project (Consider the following issues):

32.1 Concept

In Bangladesh, the Bangladesh Meteorology Department (BMD), under the Ministry of Defense (MOD) is the main provider of meteorological services while the Bangladesh Water Development Board (BWDB) under the Ministry of Water Resources (MOWR), is the main provider of water resources information and flood forecasting services. These two agencies provide weather, water and climate services to a range of user sectors. BMD is mandated to provide weather and climate related services. Services provided by it such as routine weather forecasts are directly provided to the general public. Other data and information in the form for instance, of rainfall data used for flood forecasting by BWDB, or severe weather warnings for thunderstorms or cyclones disseminated by the Department of Disaster Management (DDM) or high tide warnings for fishermen, the Department of Fisheries (DOF) and Port Authority are provided by BMD to users that can then use this information to inform affected communities or generate more tailored information and secondary information products for meeting the needs of their own sectors. BWDB's Hydrology Division and Flood Forecasting and Warning Center (FFWC) provides flood forecasts and warnings to the DDM which then disseminates it to District level Disaster Management Committees, media and local communities. Sectors such as aviation, agriculture, disaster risk management, urban water and sanitation authorities, are amongst the range of users that rely on weather and water services provided by these two main agencies—BMD and BWDB.

32.2 Design

Strengthening the capacity for hydro-meteorological services in Bangladesh has important national and regional benefits, National benefits include strengthened BMD, BWDB and DAE capacity to meet the country's own national service delivery mandates and improve services in the important agricultural sector. It has important synergies with ongoing investments in disaster risk management, water, climate and priority projects such as the National Agricultural Technology Program II. Improved monitoring, collection and digitization of weather and climate data shared through existing mechanisms such as the WMO Global Telecommunications System (GTS) has also enable improved forecasting and prediction of regional and trans-boundary phenomenon (such as cyclones, drought, thunderstorms, floods, etc.) which at present is not fully possible. For instance, in the pre-monsoon season between March-May, severe thunderstorms develop that affect Bangladesh but also neighboring northeast India, Bhutan, and Nepal. Though not as visible as tropical cyclones, they result in damages to livelihoods and property worth millions of dollars in Bangladesh and across the sub-region. Improved monitoring of upper air parameters over Bangladesh and sharing this information with regional entities has enable improved forecasting of such severe weather phenomenon. Similarly, improved efforts to monitor sea level rise across the coast of Bangladesh can contribute to improved understanding of changes in sea level rise in the Bay of Bengal. Improved understanding of disaster related risks (e.g. through flash floods and thunderstorms) in northeastern districts can also contribute to improved cooperation and risk management at the cross-border level.

32.3 Location and

BWDB's network capacity is mainly along the major rivers and relatively insufficient on smaller rivers, urban catchments, remote areas and trans-boundary rivers. Models used by BWDB for flood forecasting cover only three fourths of the country and do not cover the coastal areas. In northeastern districts of Bangladesh, there is also a need to further strengthen ongoing regional collaboration, strengthen the information base for communities at risk and improve community based early warning services in those areas.

32.4 Timing.

The hydrological network, managed by the Hydrology Division of the BWDB, remains primarily manual with manual data collection, transmission and storage with only limited real time hydrological and flood forecasting. This affects the quality, accuracy and frequency with which data is collected and transmitted, and constrains BWDB's capacity for providing a range of hydrological services and real time flood forecasting and early warnings to user agencies and communities.

33. Brief description on planning and financing of the project and its applicability (Consider the following issues):

33.1 Project Identification

Before project initiation, BWDB does not have the data or modeling tools to undertake inundation forecasting in its highly vulnerable coastline. Management of groundwater and improved information of aquifer structure in hotspot areas such as the coast and major urban areas is critical for Bangladesh. Yet the country's groundwater network is mainly manual and should be modernized to enable improved management of this important resource and help address a whole host of critical issues such as salinity intrusion in coastal areas and develop targeted services based on this information. Though BWDB has led the way in implementing many water resource projects in Bangladesh, its important Hydrology Division has received relatively less attention by way of investments either from the GOB or development partners. Currently the Hydrology Division has 131 technical staff that is supported by 309 contractual staff (gauge readers, surveyors, office cleaners etc.). Approved technical staff is 261 and there is room to strengthen the technical capacity of this division under BWDB. For the Hydrology Division to move from mainly data collection and provision of flood forecasting services to developing a range of user driven hydrological services, a significant shift in orientation in terms of systematically understanding user needs, network modernization and technical capacity strengthening is needed.

33.2 Project Preparation

The World Bank is scaling up investments in hydromet related operations in all regions. These have been structured in different ways, as stand-alone projects or as part of broader disaster risk management projects and programs. While first generation hydromet projects supported by the Bank tended to focus primarily on improving the monitoring network and forecasting related to weather and water, more recent projects (e.g. in Uruguay, Nepal) are putting a greater emphasis on service delivery with focus on sectors such as agriculture and disaster mitigation. This is being done by more direct and targeted support to user sectors to develop decision support systems and weather/water/climate based services that can cascade down all the way to the community level. Lessons from implementing such projects have informed project design.

33.3 Appraisal

An important lesson regarding use of Systems Integrator (SI) firms—a model that has had mixed success in World Bank funded projects, is that while there are challenges with the performance of such firms, they continue to play an important role in supporting project implementation. This is especially the case in Bangladesh where technical capacity of implementing agencies is limited, and there are no university level programs on Meteorology and Weather Services. The performance of such firms can however be improved in a number of ways such as preparation of clear firm terms of references, strong contract management by PIUs, and requirements for in-country presence by team leaders for such firms. Further, experience suggests that it is easier to find firms that specialize in meteorology or hydrology but it is harder to find firms that have expertise in both. Building on these lessons, the PIUs have prepared clear terms of references for SI consultancies. They received training in contract management at the early stages of project implementation.

33.4 Credit Negotiation

The current /Restructured Counterpart Financing is SDR 59.79 million (US\$78.6 million equivalent). The project consists of four components, three of which are implemented by the Bangladesh Meteorological Department (BMD) under the Ministry of Defence (MoD), Bangladesh Water Development Board (BWDB) under Ministry of Water Resources (MoWR), and the Department of Agricultural Extension (DAE) under Ministry of Agriculture (MoA), with the fourth being a contingent emergency response component.

33.5 Credit Agreement

The closing date of all the indicators was revised from December 2023 to November 30, 2024, aligning with the Financing Agreement.

33.6 Credit Effectiveness

The Bangladesh Weather and Climate Service Project (BWCSRP) was originally financed with an IDA credit of SDR 79.8 million (US\$113 million equivalent¹) and Government of Bangladesh (GoB) of US\$14.8 million, was approved on June 3, 2016, and become effective on May 4, 2017.

33.7 Loan Disbursement

- (i) Disbursement Methods: The following Disbursement Methods may be used under the Financing:
 - Advance
 - Reimbursement
 - Direct Payment
 - · Special Commitment
- (ii) Disbursement Deadline Date: The Disbursement Deadline Date is 4 months after the Closing Date specified in the Financing Agreement. Any changes to this date will be notified by the Association.
- (iii) Disbursement Conditions: Please refer to the Disbursement Conditions in the Financing Agreement.



33.8 Loan Conditions

All the conditions in utilizing the proceeds of the Credit are set out in the Financing Agreement. However, some of the financial aspects are reproduced below:

- (i) All payments for expenditures claimed under this Financing must be made using the banking system, except expenditures paid using the petty cash system following the Recipient's existing policy. The petty cash limit as per the Recipient's existing policy is BDT 100,000.
- (ii) Supporting documentation requirements for reporting on use of financing proceeds under category 2 of the withdrawal schedule of the Financing Agreement -Emergency Expenditures under Part D of the project would be provided in a revised Disbursement letter, if funds are allocated to category 2.
- (iii) The minimum value for Reimbursement, Direct Payment and Special Commitment applications is US\$1,000,000.

33.9 Project Approval and

Not Applicable.

33.10 Others(specify)

Not Applicable.

34. Analysis of the post-implementation situation and result of the project (Consider following issues):

34.1 Whether the beneficiaries of the project have clear knowledge about the Target/Objectives of the project.

The principal beneficiaries of the project are farmers, the general public, and critical economic sectors that rely on enhanced meteorological and hydrological services. A wide range of institutional users—including the Department of Disaster Management (DDM), civil aviation authorities, water resource management agencies, municipal service providers, and the fisheries sector—will benefit from improved weather forecasting and information dissemination. Additionally, agricultural extension officers, market actors, and consumers of agricultural produce are among those who will gain from the project's outcomes.

To foster stakeholder awareness and engagement, the project team conducted meetings, workshops, seminars, and training programs aimed at introducing beneficiaries to the project's objectives, outcomes, and intended impacts. These efforts ensured that all participants developed a clear understanding of the project's goals, activities, and implementation strategies.

34.2 Programme for the use of created facilities of the project

All activities were completed, and this component closed on June 30, 2024 as per DPP. All instruments, ICT systems, and predictive models developed under this component have been functioning cohesively and have been handed over to the appropriate service-providing units within BWDB. The nationwide network of



instruments and the new flood forecasting models have been tested through a complete monsoon cycle and flood incidents. BWDB successfully enhanced its flood forecasting by expanding coverage from the initial 31 districts to all 64 districts nationwide. All systems have been handed over to Ground Water Hydrology Circle, Surface Water Hydrology Circle, River Morphology & Research Circle, and Processing and Flood Forecasting Circle which are the primary service providing units under BWDB.

Standard operation Procedures (SoP) for all the system newly introduced in the project have been developed and handed over to the all respective operational units of BWDB Hydrology (Surface water hydrology, Ground water hydrology, Flood forecasting & warning Centre, etc.) with required academic and hands on trainings at the field. Provided operational tools and kits, provided high end Survey boats and survey catamarans customized and equipped with the facilities enabling carry-out-surveys in all major rivers and also at the sea confluences.

34.3 O & M Program of the project.

There are three key actions implementing agencies need to take as the project is closing:

- a. allocate adequate budget to operate and maintain the systems,
- b. sign the annual maintenance contracts before warranties of observation network packages expire, to ensure uninterrupted data acquisition and transmission, given that the implementing agencies' capacities are not yet sufficient. Urgent action is required by BWDB as warranties end on November 30, 2024, and any gap would release the vendor from the pre-negotiated rate, potentially leading to much higher costs, lengthy tender processes and a gap in O&M with limited O&M capacity by BWDB to deal with issues, and
- c. ensure seamless operation of systems by facilitating knowledge transfer from the trained staff to new personnel before reassigning trained staff to new positions.

As per plan of the project, contracts for post project operation and maintenance in the form of Annual Maintenance Contract (AMC) for next 3 years have been signed between BWDB Hydrology and the original vendors and the services are continued under revenue budget. These AMCs to be continued under revenue budget.

34.4 Impact of the project (Direct & Indirect)

This project had a highly comprehensive and innovative design, not only modernizing hydro-met services but also including a user sector (agriculture) to translate the forecasts into actionable information and communication with the users. Furthermore, the project involved academia, establishing long-needed departments and courses for meteorology and agrometeorology, and included research institutes to bring research into application.

As a result of these innovations and the successful achievement of the PDO, this project contains a large number of lessons learnt relevant for the region as well as globally which will be captured and disseminated. The project is already featured in the World Bank flagship report "Rising to the Challenge - Success stories and strategies for achieving climate adaptation and resilience". Findings from this report were presented at the COP29 including representation from the Bangladesh Government showcasing the efforts and achievements.

BWDB has significantly improved its flood forecasting capability by expanding the spatial coverage from 31 district to 64 districts i.e, whole country. Automated and modernized it observation network and by establishing a comprehensive ICT Integration. The previous model was covering only 82000 Sq km of Bangladesh. Now model capacity increased to the whole area of the country 147570 Sq km. Previous model



was 1-D model, in this project 2-D model introduced, additionally added 1D-2D coupled flood inundation forecasting model for coastal area of Bangladesh. Project also developed a very high resolution (2m X 2m) Digital Elevation Model (DEM). The achievements of the project is very much relevant to the BWDB overall activities as it is mandated for flood forecast of the country, overall water management, flood control irrigation and drainage system development and management. Real time and accurate data along with a precise forecast warnings are extremely required for all kind of development activities and livelihood. Not only BWDB, all kind of development and non-development operators in the country need flood information, water data (both ground water and surface water), river data, flood data, rainfall data, early warning. Also NGOs, Universities and research bodies need all these services. So development and improvement that happened through this project were obvious and have a major positive impact on the future hydrological and forecasting improvement in Bangladesh as well as skill enhance and capacity development of the BWDB professionals involved.

34.5 Transfer of Technology and Institutional Building through the project.

Component B of the Bangladesh Weather and Climate Services Regional Project (BWCSRP), titled Strengthening Hydrological Information Services and Early Warning Systems (SHEWS), has been instrumental in integrating meteorological data, climate forecasting, and agricultural practices to enhance crop productivity, mitigate risks, and support optimized decision-making in farming.

The project has achieved substantial outcomes, successfully meeting the majority of its log frame objectives. It has facilitated increased crop yields and significantly reduced crop losses in targeted regions, thereby contributing to a measurable decline in poverty. The component's design reflects a nuanced understanding of the region's exposure to hydrological hazards and draws on critical lessons from previous water sector initiatives.

Through its climate resilience measures—particularly in addressing flooding and flash flooding—SHEWS has made a notable contribution to environmentally sustainable agricultural development. Moreover, the project yielded strong gender-equitable impacts, advancing poverty alleviation, enhancing women's economic participation, and promoting inclusive leadership and decision-making processes. It is noteworthy that the project reported no adverse environmental or social effects.

A key pillar of the initiative has been the structured capacity-building programs, which have strengthened the technical competencies and confidence of BWDB personnel. A significant number of trained officers have since applied their enhanced expertise to improve the accuracy and reach of flood forecasting and early warning dissemination systems.

Presently, millions of citizens benefit from real-time access to weather and hydrological information. As the full suite of SHEWS software and modeling tools becomes operational, the project's contributions to Bangladesh's socio-economic resilience, agricultural productivity, and environmental sustainability are expected to deepen further.

34.6 Employment generation through the project.

Employment generated for different professionals like engineers, technicians, IT professionals and skilled & unskilled labors.

34.7 Possibility of Self-employment.



Different professionals worked received a good experience and trainings may enable them to take initiatives for their self-employment in future. As the project dealt with high end technologies, there are high chances of self-employment.

34.8 Possibility of Women-employment opportunity.

Women Professionals also worked in this project. They have similar opportunities of self-employment.

34.9 Women's participation in development.

In Bangladesh women participation in the development is gradually increasing in the category of professionals (Engineers, IT, Technicians, etc.) as well as skilled and unskilled labor category. In this project women professionals and labors also worked and contributed to the project achievements.

34.10 Probable Impact on Socio-Economic activity.

Presently, millions of citizens benefit from real-time access to weather and hydrological information. As the full suite of SHEWS software and modeling tools becomes operational, the project's contributions to Bangladesh's socio-economic resilience, agricultural productivity, and environmental sustainability are expected to deepen further.

34.11 Impact on environment.

The Environmental and Social (ES) Safeguard team had virtual meetings with the PIU and discussed the environmental and social status of the project that were presented by the PIU. The ES team has reviewed and followed up the issues and the pending action items. The PIU has completed the agreed action items including completion of all the screening and consultations of all sites, developing e-waste management plan, preparing Occupational Health and Safety (OHS) plan including the code of conduct for the renovation works of DAE. All relevant documents have been disclosed by the agency on the website. No grievances have been recorded in the last six months from any of the three agencies.

34.12 Sustainability of the project.

Numerous steps have been undertaken throughout project implementation to contribute to sustainability after project closing, including the integration of warranty and annual maintenance contracts into the goods packages to ensure continuity through revenue set up of BWDB Hydrology while Standard operating procedures (SoPs) have been developed for key processes and systems, and key staff of BWDB Hydrology have been involved in the implementation processes, series of hands on trainings also provided to the end users which supported a smooth transition which is now under operation. Consultants report and recommendations on sustainability has been handed over to the BWDB Hydrology.

As per plan of the project, contracts for post project operation and maintenance in the form of Annual Maintenance Contract (AMC) for next 3 years have been signed between BWDB Hydrology and the original vendors and the services are continued under revenue budget. These AMCs to be continued under revenue budget.



34.13 Contribution to poverty alleviation/reduction.

Through its climate resilience measures—particularly in addressing flooding and flash flooding—SHEWS has made a notable contribution to environmentally sustainable agricultural development which has a long term positive impact on saving agriculture crops including lives and wealth of the society as a whole thus playing a role to poverty alleviation of the country. Moreover, the project yielded strong gender-equitable impacts, advancing poverty alleviation, enhancing women's economic participation, and promoting inclusive leadership and decision-making processes. It is noteworthy that the project reported no adverse environmental or social effects.

34.14 Opinion of the public representatives, local elite, local administration, teachers, religious leaders, women's representatives etc.

Opinion of the public representatives, local elite, local administration, teachers, religious leaders, women's representatives have a positive and favorable opinion.

34.15 Contribution of Micro-credit programs and Comments on overlapping with any NGO activities.

The project, funded by the World Bank, did not incorporate additional microcredit initiatives nor did it intersect with the operations of non-governmental organizations (NGOs).

35. Problems encountered during Implementation (with duration & steps taken to resolve those) (Consider following issues):

35.1 Project management:

At the very beginning, a few discrepancies/inconsistencies including incorrect economic code of DPP caused hindrance in payment thus retarded the project progress. In the meantime, the World Bank had given some observations and suggestions on the TOR of Consultancy Services attached in the approved DPP. Under those circumstances, it was necessary to review the DPP for smooth implementation of the project. The first revised DPP was submitted and was approved by the Ministry of Water Resources in July 2018. The Financing Agreement of the project was signed on 05 April 2017 between GoB and World Bank (IDA), according to the agreement date of closing of financing is December 31, 2022. Administrative approval from the Ministry of water resources was issued on 19 June 2017 and the Project Director was appointed on 11 July 2017. So, the project was started late and missed the first two financial years in its implementation. To accommodate those changes 1st and 2nd revision of the project was happened and the project was extended till June 2023. Later, the project was further extended until June 2024 due to disruptions in the global supply chain caused by the COVID-19 pandemic and other issues.



35.2 Project Director:

Three Project Directors were appointed to lead the project throughout its duration, which also contributed to a time overrun.

35.3 Land Acquisition:

Not Required

35.4 Procurement:

The COVID-19 pandemic and disruptions in the global supply chain further hindered project progress, delaying the delivery of internationally procured equipment. Despite this, the installation and commissioning of the equipment has been completed. While the commissioning activities for BWDB-G1, BWDB-G2, and BWDB-G6 packages have been concluded, an additional one-year Annual Maintenance Contract (AMC) is included in the main contract. Consequently, the World Bank has extended the financing agreement duration by one year until November 30, 2024.

35.5 Consultancy:

The appointment of the project's main consultant (Water Resources System Integrator Consultancy) required an additional two years for preparing and approving various Terms of Reference (ToR), Bid Documents, and Technical Specifications for the core activities. This additional time was accommodated in the second revision of the DPP, extending the project duration until June 2023.

35.6 Contractor:

No problem noticed

35.7 Manpower:

No problem noticed

35.8 Law & Order:

Some theft cases occurred those were noticed to the local police stations.

35.9 Natural calamity:

As the project activity were country wide and a good part of the activity were in and around the naturally vulnerable areas and in coastal areas, project had to face some natural calamity like Cyclone, Tidal Bore, Flash Flood, Flood, etc.

35.10 Project financing:

No problem noticed



35.11 Allocation and release:

Project Allocation was smooth, however in one year allocation for CD/VAT was insufficient for which, the project had to struggle a lot.

35.12 Design formulation/approval:

No problem noticed

35.13 Project aid disbursement and re-imbursement:

No problem noticed

35.14 Mission of the development partners:

The World Bank Missions were regular and helpful.

35.15 Time & Cost Over-run:

The project was started late and missed the first two financial years in its implementation. To accommodate those changes 1st and 2nd revision of the project was happened and the project was extended till June 2023. Later, the project was further extended until June 2024 due to disruptions in the global supply chain caused by the COVID-19 pandemic and other issues. Consequently, the Project was time over-run (% of original implementation period: July 2016-June 2021) by 160%. While the project had no cost over-run as the project finally used PA amount USD 28.06 million against initial estimate of USD 45.30 million thus saving USD USD 17.24 million.

35.16 Project Monitoring:

Well monitored from the part of World Bank, Ministry of Defence, ERD, Ministry of Water Resources and Bangladesh Water Development Board.

35.17 Delay in Decision:

Some decision delay noticed in World Bank part.

35.18 Transport, Training:

No problem noticed

35.19 Approval and Others:

Timely approval were received.



36. Remarks & Recommendations of the Project Director:

BWDB has significantly improved its flood forecasting capability by expanding the spatial coverage from 31 district to 64 districts i.e, whole country. Automated and modernized it observation network and by establishing a comprehensive ICT Integration. The previous model was covering only 82000 Sq km of Bangladesh. Now model capacity increased to the whole area of the country 147570 Sq km. Previous model was 1-D model, in this project 2-D model introduced, additionally added 1D-2D coupled flood inundation forecasting model for coastal area of Bangladesh. Project also developed a very high resolution (2m X 2m) Digital Elevation Model (DEM). The achievements of the project are very much relevant to the BWDB overall activities as it is mandated for flood forecast of the country, overall water management, flood control irrigation and drainage system development and management. Real time and accurate data along with a precise forecast warnings are extremely required for all kind of development activities and livelihood. Not only BWDB, all kind of development and non-development operators in the country need flood information, water data (both ground water and surface water), river data, flood data, rainfall data, early warning. Also, NGOs, Universities and research bodies need all these services. So, development and improvement that happened through this project were obvious and 100% relevant.

Sustainability for this kind of infrastructures is big concern, and is fully dependent on the continuous operation, troubleshooting and maintenance. As it is a very high end technology, it is recommended to engage always a maintenance vendor and preferably the original vendor.

Numerous steps have been undertaken throughout project implementation to contribute to sustainability after project closing, including the integration of warranty and annual maintenance contracts into the goods packages to ensure continuity through revenue set up of BWDB Hydrology while Standard operating procedures (SoPs) have been developed for key processes and systems, and key staff of BWDB Hydrology have been involved in the implementation processes, series of hands on trainings also provided to the end users which supported a smooth transition which is now under operation. Consultants report and recommendations on sustainability has been handed over to the BWDB Hydrology.

After successful implementation of this phase of the project, 2nd phase become obvious for the sustainability of this phase Infrastructures and also to cope up with the new technology and technical and technological advancement in the world. The issue of Climate change is now very serious. As Bangladesh is a Riverine country with a huge coastal area and located at a lower riparian of the GBM (Ganges-Brahmaputra- Meghna) basin where climatic features are very active throughout the year, continuation of this project benefits and further development is always essential.



There are three key actions implementing agencies need to take as the project is closing:

- a. allocate adequate budget to operate and maintain the systems,
- b. sign the annual maintenance contracts before warranties of observation network packages expire, to ensure uninterrupted data acquisition and transmission, given that the implementing agencies' capacities are not yet sufficient. Urgent action is required by BWDB as warranties end on November 30, 2024, and any gap would release the vendor from the pre-negotiated rate, potentially leading to much higher costs, lengthy tender processes and a gap in O&M with limited O&M capacity by BWDB to deal with issues, and
- c. ensure seamless operation of systems by facilitating knowledge transfer from the trained staff to new personnel before reassigning trained staff to new positions.

I am happy to note that as per plan of the project, contracts for post project operation and maintenance in the form of Annual Maintenance Contract (AMC) for next 3 years have been signed between BWDB Hydrology and the original vendors and the services are continued under revenue budget. These AMCs to be continued under revenue budget.

te 19 08 2025 Signature

Signature and seal of the Project Director

37. Remarks/Comment of the Agency Head:

The Flood Forecasting and Warning capacity of BWDB has been significantly upgraded in terms of both accuracy and spatial coverage with inundation mapping. In addition, the project has strengthened BWDB's institutional capacity in hydrological and topographical surveying, enabling it to provide better services in line with project's intended objectives.

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Signature and seal of Agency Head
(Md. Enayet Ullah)
ID No. 670705001
Director General
BWDB, Dhaka.

The project has been completed successfully. Regular ensured by Bangladesh Water Development Board for		
		•
Date	Signature and Seal of	Secretary

38. Remarks/Comments of the Secretary/Senior Secretary of the Ministry/Division:

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Information Related to Procurement of Goods

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ř	As per Project Document	Estim	Estimated Cost.	Procureme	Procureme Approving	Date of Tender	Name of	Date of	Date of		Contract Price	:	Date of	Date of Completion
Package No	Description of Pack age	(Tak	(Taka in Lac)	nt Method	Authority	Invitation	Newspaper	Opening	Approval	Date of NOA	& Date	Actual Payment	As per Contract	Actual
(E)	(2)		(3)	(4)	(5)	(9)	(2)	(8)	(6)	(10)	(11)	(12)	(13)	(14)
Ī		Plan	4045.00	ICB	MOWR	26/06/2019		03/04/18	03/05/18	81/20/91				
Gl	Automation of Ground Water Information Stations: 905 nos.	Actual	BDT.3907.21	OTM (ICB)	MOWR	9/08/2019	The Daily Samakal and The Financial Express	04/09/19	56/12/2019	30/01/2020	USD. 3998250.00; BDT. 4.97.75.000.00:	USD.3968870.57; BDT. 49409250.00	15.11.2020	30.06.2024
		Deviation				4		519	602	563				
		Plan	90.0009	ICB	MOWR	24-Sep-20		03/04/18	03/05/18	16/07/18				
G2	Automation of Surface Water Information Stations: 315 nos., Climate stations: 3 nos. and Rain Gauge: 272 nos.	Actual	USD. 7307662; BDT. 621151270	OTM (ICB)	MOWR	9/12/2020	The Daily Samakal and The Financial Express	30/12/2020	29/04/2021	22/06/2021	USD.4634015.00; BDT.13,13,82,912. 00; Date: 19.07.2021	USD.4396744.60 BDT.145097752.00	20.07.2022	30.06.2024
		Deviation				76		1002	1092	1072				
		Plan	512.00	NCB (OTM)	ΩA	22-Oct-18		31/10/17	15/11/17	06/12/17				
8	Purchase of Catamaran and Survey Boats (01 no. Catamaran, 01 no Survey	Actual	503.37	NCB (OTM)	PD	25/10/2018	The Daily Samakal and The Financial Express	28/10/2018	12/10/2018	13/12/2018	51200000.002; Date: 01.01.2019	51,200,000.00 01.10.2019	01.10.2019	17.02.2022
	(cap)	Deviation				3		353	331	77.				
		Plan	625.66	NCB (OTM)	PD	20-Feb-18		31/10/17	14/11/17	28/11/17				
22	Purchase of Systems for hydrological survey: ADCP-10 nos., Sondes (water quality) -20 nos., Echosonder & nos., Side Scan Sonar-I no, Survey Grade Echosonder-2-nos.	r Actual	648.97	NCB (OTM)	PD	5/03/2018	The Daily Samakal and The Financial Express	6/07/2018	6/12/2018	6/12/2018	6,25,66,686; Date: 24.06.2018	6,25,66,686	13.07.2018	13.07.2018
		Deviation				13		248	387	373				
		Plan	00.096	1CB∪	HOPE	22-Aug-18		23/01/20	22/02/2020	03/01/20				
GS	Purchase of Systems for Morphological survey (1) 15 handheld TDS 2) 12 RTK GPS 3) 6 DGPS beacon receiver 4) 8 Total Stations 5) 4 First order digital leveling machine 6) 2 sub- bottom profilers	Actual	1140.1	ICB	НОРЕ	6107/10/8	The Daily Samakal and The Financial Express	14/01/2019	12/03/2019	12/03/2019	USD. 1130556.00, Date: 19.03.2019	USD. 1130556.00	24.12.2019	24.12.2019
		Deviation				139		-374	-347	479				

_	Actual	(14)		22.01.2019	T		30/11/2023			01.05.2019			27.06.2019			27.06.2019	T		24.06.2018			27.06.2018	Τ	P	2019	
Date of Completion		_							 	·			ļ					ļ							31.03.2019	
Date	As per	Contract (13)		22.01.2019			31/12/2023			01.05.2019			27.06.2019			27.06.2019			24.06.2018			27.06.2018			31.03.2019	
	Actual Payment	(12)		19,455,612.00			Euro.410424.14; BDT.10465160; Date: 12.07.2021			14899466.06			28,253,537.00			15,970,000.00 27.06.2019			4,740,000.00			7,696,400.00			9,750,000.00 31.03.2019	
Contract Price	& Date	(11)		19455612.03, Date: 21.10.2018			Euro.410424.14; BDT.10465160; Date: 12.07.2021			14899466.055, Date: 01.01.2019			28253537.155, Date: 25 03 2019			15970000.002, Date:25.03.2019			4740000.123, Date:04 06 2018			7696400.04, Date:			9750000.004, Date: 07.02.2019	
	Date of NOA	(01)	01/12/18	30/09/2018	-62	07/08/21	12/07/2021	-26		12/06/2018		17/04/19	3/09/2019	139	25/11/17	4/09/2019	648	18/11/17	23/05/2018	186	05/12/17	21/05/2018	167		20/1/2018	
Date of	Approval	(6)	17/11/18	25/09/2018	-53	08/08/21	13/06/2021	-56		12/06/2018		03/04/19	3/09/2019	153	11/11/17	4/09/2019	662	11/11/17	23/05/2018	193	14/11/17	21/05/2018	188		20/1/2018	
Date of	Opening	(8)	03/11/18	26/08/2018	69-	20.01.2021	20.01.2021			20/11/2018		04/03/19	26/12/2019	297	31	28/02/2019	485	14/10/17	20/05/2018	218	31/10/17	13/05/2018	194		13/1/2019	
Name of	Newspaper	(7)		The Daily Samakal and The Financial Express			The Daily Samakal and The Financial Express		; ; ;	The Daily Samakal and The Financial Express		The Daily Samakal	and The Financial Express		The Daily Samakal	and The Financial Express		The Daily Samakal	and The Financial Express		The Daily Samakal	and The Financial Express			The Dally Samakal and The Financial Express	9
Date of Tender		(9)	22-Oct-18	8/02/2018	-167	24-Sep-20	9/12/2020	76	23-Oct-18	23/10/2018	0	4-Nov-18	2/04/2019	149	7-Feb-19	7/02/2019	0	8-Feb-18	5/06/2018	117	8-Feb-18	24/12/2018	319	24-Dec-18	17/04/2018	-251
Approving	nt Method Authority	(5)	αa	PD		MOWR	MOWR		HOPE	HOPE		ω	БЪ		Qά	Gd		PD	Qd		PD	Qď		PD	Ω	
Procureme	nt Method	(4)	OTM)	NCB (OTM)⊔		ICB	OTM (ICB)		NCB (OTM)□	NCB (OTM)⊔		NCB (OTM)⊔	NCB (OTM)⊔		NCB (OTM)⊓	NCB (OTM)⊔		NCB (OTM)⊔	NCB (OTM)□		NCB (OTM)⊓	NCB (OTM)⊔		NCB (OTM)∟	NCB (OTM)□	
Estimated Cost.	(Taka in Lac)	(3)	194.56	176.19		650.00	USD. 649677 (BDT. 552.48)		148.99	259.62		282.53	285.1		159.70	182		47.00	49		76.97	67.19		97.50	100	
Estin	(Tal		Plan	Actual	Deviation	Plan	Actual	Deviation	Plan	Actual	Deviation	Plan	Actual	Deviation	Plan	Actual	Deviation	Plan	Actual	Deviation	Plan	Actual	Deviation	Plan	'Actual	Deviation
As per Project Document	Description of Pack age	(2)		Purchase of Lab and field equipment and accessories: 1) I Ion Chromatograph, 2) 30 field test kits		Coastal Flood Monitoring Stations, Software and	Hardware (Coastal Inundation & monitoring system and Comprehensive Annual maintenance).			Purchase of ICT system including VC systems in 13 locations			Purchase of Computer Accessories			Purchase of Cross-country vehicle			Purchase of Double cabin pick-up			Purchase of Motorcycles			Purchase of GIS and Image processing software with extensions	
AS	Package No	(1)		ĽÐ			3 5			G-10A			G-10B			G11			G12			G13			G14	- ! L

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	Actual Plan Actual Deviation Plan Actual Deviation Plan Actual Actual Actual	0 8 1	(•		Newspaper	Opening	Approval		-			
	التتحاصات بسنداسا فالمساخة			1		1 1				Date		Contract	Actual
	Actual Plan Actual Deviation Plan Actual Deviation Plan Actual Actual	329.90	(4)	(5)	(9)	(7)	(8)	. (6)	(10)	(11)	(12)	(13)	(14)
	Plan Actual Deviation Plan Actual Deviation Plan Plan Actual	329.90	DPM	DG	Officially purchased		•	. 1	,	•	DEM (part): 47.26, DEM Data: 42.64 = 89.90		2021 and 2023
	Actual Deviation Plan Actual Deviation Plan Actual	327	NCB (OTM)⊔	PD	11-Sep-19	The Daily Samakal	30/09/19	30/10/19	13/11/19				
	Plan Actual Deviation Plan Actual Actual	1	NCB (OTM)⊔	PD	12/10/2019	and The Financial Express	26/12/2019	14/01/2020	14/01/2020	32990004.004; Date: 23.01.2020	32,990,004.00	30.11.2020	31.12.2023
	Plan Actual Deviation Plan Actual				31	•	87	2/2	62				
	Actual Deviation Plan Actual	450.00	NCB (OTM)□	PD	4-May-23	The Daily Samakal	17/01/23	16/02/23	02/03/23	36499927.00;	100000	000	
	Deviation Plan Actual	285.1	NCB (OTM)□	PD	15/02/2023	and The Financial Express	21/03/2023	4/06/2023	4/06/2023	Date:17.04.2023	36,499,927.00	16.07.2023	16.07.2023
	Plan				-78		63	108	94				
	Actual	34.99	NCB (OTM)⊔	PD	30-Jan-18	The Daily Samakal	11/01/18	18/01/18	25/01/18				
		35	NCB (OTM)	GA .	15/03/2018	and The Financial Express	4/09/2018	15/04/2018	16/04/2018	3499997.150, Date: 10.05.2018	3,499,997.00	08.06.2018	08.06.2018
	Deviation				44		236	87	81				
	Plan	16.40	NCB (OTM)□	GZ.	14-Sep-20	The Daily Samakal	26/07/21	02/08/21	12/80/60				
2014 N. 1.	Actual	17.41	NCB (OTM)⊡	Ω	14/09/2020	and The Financial Express	30/09/2020	29/11/2020	29/11/2020	1639233.076, Date:	1,639,233.00	31.05.2021	31.05.2021
affilia de la companya del companya della companya	Deviation				0		-299	-246	-253				
	Not Implement ed												
	Plan	20.00	NCB (OTM)□	Qd	30-Jan-18	The Daily Samakal	81/10/11	18/01/18	25/01/18				
	Actual	36.75	NCB (OTM)□	CM	2/07/2018	and The Financial Express	28/02/2018	3/08/2018	3/11/2018	2086753.12, Date: 25.03.2018	2,086,753.00	23.04.2018	23.04.2018
	Deviation				153		48	197	282				
	Plan	16.75	NCB (OTM)□	Qá	19-Jul-21	The Daily Samakal	12/11/61	19/12/21	01/02/22				
and Fixtures	Actual	16.73	NCB (OTM)□	Gd	19/09/2021	and The Financial Express	20/10/2021	25/10/2021	25/10/2021	1668710.073, Date: 02.11.2021	1,668,710.00	01.12.2021	01.12.2021
	Deviation				62		-30	-55	-66				
·	Plan	5.95	NCB (OTM)□	PD	3-Nov-19	The Daily Samakal	10/10/12	17/101/71	31/10/17				
G20 Purchase of Electrical Materials & IPS	Actual	29.6	NCB (OTM)	CA CA	30/11/2019	and The Financial Express	50/11/2019	27/11/2019	27/11/2019	595400.016, Date: 10.12.2019	595,400.00	11.02.2020	11.02.2020
	Deviation				27		771	771	757				
	Plan	1533.00	NCB (OTM)□	HOPE	I-Aug-21	The Daily Samakal	19/02/21	21/03/21	04/04/21				
G22 Multi Beam Eco Sounder : 4 nos.		1600	NCB (OTM)□	HOPE	8/12/2021	and The Financial Express	19/09/2021	14/11/2021	12/07/2021	153300000.004, Date: 30.12.2021	153,300,000.00 30.06.2022	30.06.2022	30.12.2022
	Deviation				129		212	238	66				

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Date of Completion	Actual	(14)		30.10.2023			10.11.2023			25.06.2023			1		30.06.2024			
Date of	As per	(13)		04.02.2023			09.04.2023			25.06.2023					30.06.2024			
	Actual Payment	(12)		28,500,000.00			144,450,000.00		744	49,712,740.00 25.06.2023				T 注 在於京文管理學 (建-基础的) 對於 三次管體機能	35,480,000.12 30.06.2024			
Contract Price	& Date	(11)		28500000.00; Date: 09.06.2022			144450000.00, Date: 20.05.2022	7707		49712740.241; Date: 26.12.2022					35480000.115; Date: 28.05.2024			
	Date of NOA	(10)	04/04/21	13/05/2022	404	27/06/21	28/04/2022	305	24/10/22	28/11/2022	35	CC	HULL HE TO THE STATE OF THE STA	11/04/24	23/05/2024	42		
Date of	Approval	(6)	21/03/21	5/11/2021	229	14/05/21	30/03/2022	320	10/10/22	14/11/2022	35	6		04/04/24	16/05/2024	42		
Date of	Opening	(8)	19/02/21	24/03/2022	398	14/05/21	10/01/2022	241	09/10/22	28/07/2022	773	The second secon		28/03/24	4/03/2024	-24		
Name of	Newspaper	(7)	:	The Dally Samakal and The Financial Express		The Daily Samakal	and The Financial Express			The Daily Samakal and The Financial Express	•				The Daily Samakal and The Financial Express			
Date of Tender		(9)	8-Aug-21	22/02/2022	198	1-Sep-21	16/12/2021	106	7-Jul-21	21/06/2022	349	Contraction Contraction Contraction		31-Mar-23	3/05/2024	399		
Procureme Approving	Authority	(5)	GΑ	PD		HOPE	HOPE		ADG	ADG		Charled Asset 28 (S)		PD	PD			
Procureme	nt Method	(4)	NCB (OTM)	NCB (OTM)□		NCB (OTM)⊔	NCB (OTM)□		NCB (OTM)	NCB (OTM)□		Will Share St. Action of		NCB	NCB (OTM)			
Estimated Cost.	(Taka in Lac)	(3)	285.00	306		1.440.00	1660.74		500.00	484.44		を 17日日 世代 - 大学 - 大学を 18日		580.00	384,64			
Estim	(Tak		Plan	Actual	Deviation	Plan	Actual	Deviation	Plan	Actual	Deviation	SEGULATION CONTRACTOR	Not Implement ed	Plan	Actual	Deviation	Not Implement ed	Not Implement ed
As per Project Document	Description of Pack age	(2)		Purchase of 06 Nos. Drilling Machine (Rig Machine) for GW well construction.			Purchase of Survey Boat and Survey Catamarans			Purchase of ICT Equipment for Data Centre & hydrological network upgradation		Purchase of Instruments for	water quality and lab equipments (08 OBS turbidity sensor, 10 Binkley Suspended Sediment Sampler, 10 Digital Balance, Of Sextant, 15 Winch Machine, 15 Amegraph Cable, 14 Salinometer, 05 Survey Laptop with all accessories)		Purchase of Instruments for hydrological survey and GPS equipment (32 Auto Leveling Instrument, 42 Hand Held GPS, 12 DGPS, 03 RTK, 10 Portable Handy Flow tracker, 26 Portable Handy Depth Sonar)		Purchase of ADCP with all necessary accessories and Software (08 ADCP)	Purchase of ADCP Float and Discharge & Suspended Solid measurement Software.
A	Package No	(1)		G23			G25			G28		100 Sept. 1	800 mm 1 mm 2 mm 2 mm 2 mm 2 mm 2 mm 2 mm		G30		G31	G32

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Opening Approval Date of NOA & Bate (8) (9) (10) (11) (11) (11) (11) (11) (11) (11	Newspaper Op (7) The Daily Samakal 31/ Express 4/01 Express 27/ The Daily Samakal 25/0 Express 26/04/ The Daily Samakal 25/0 The Daily Samakal 25/0 Express 1/06	(6) (8) 30-Apr-23 3/05/2024 369 369 10-Feb-23 1/04/2024 416 7-Nov-19	₹	
(10) (10) (10) (10) (10) (10) (10) (10)	7) V Samakal Financial Financial Financial Financial	The Ext	(6) 30-Apr-23 305/2024 369 369 10-Feb-23 1/04/2024 416 7-Nov-19	
07/04/24 14/04/24 16/05/2024 23/05/2024 39 39	y Samakai Financial Financ	The The The The The The The The The The	30-Apr-23 3/05/2024 3.69 10-Feb-23 1/04/2024 416 7-Nov-19	PD 30-Apr-23 PD 3/05/2024 369 369 PD 1/04/2024 PD 1/04/2024 PD 1/04/2024 PD 7-Nov-19 PD 7-Nov-19
07/04/24 14/04/24 16/05/2024 23/05/2024 39 39	Financial Financial Financial Financial Financial Financial Financial	The I Expr	30-Apr-23 3/05/2024 3.69 3.69 10-Feb-23 1/04/2024 416 7-Nov-19	PD 30-Apr-23 PD 3/05/2024 369 369 PD 1/04/2024 PD 1/04/2024 PD 7-Nov-19 PD 7-Nov-19
07/04/24 14/04/24 16/05/2024 23/05/2024 39 39	y Samakal Financial Financial Financial V Samakal Financial	The Exp 1	30-Apr-23 3/05/2024 369 10-Feb-23 1/04/2024 416 7-Nov-19	PD 30-Apr-23 PD 3/05/2024 369 PD 10-Feb-23 PD 1/04/2024 PD 7-Nov-19 PD 7-Nov-19
16/05/2024 23/05/2024 39 39	Financial Financial Financial Financial Financial Financial Financial	8 A E 8 A E	3/05/2024 369 10-Feb-23 1/04/2024 416 7-Nov-19	PD 3/05/2024 369 369 PD 10-Feb-23 PD 1/04/2024 416 PD 7-Nov-19 PD 7-Nov-19
39 39	y Samakal — Financial Y Samakal Financial Financ		369 10-Feb-23 1/04/2024 416 7-Nov-19	369 PD 10-Feb-23 PD 1/04/2024 416 PD 7-Nov-19 PD 7-Nov-19
	y Samakal – Financial – Financial – Financial – Financial Financial		10-Feb-23 1/04/2024 416 7-Nov-19	PD 10-Feb-23 PD 1/04/2024 416 PD 7-Nov-19 PD 7-Nov-19
	y Samakal – Financial Financial – Y Samakal – Financial – Financial Financial	T E E I	10-Feb-23 1/04/2024 416 7-Nov-19 12/12/2019	PD 10-Feb-23 PD 1/04/2024 416 PD 7-Nov-19 PD 12/12/2019
27/01/24 03/02/24 10/02/24	Financial Financial Y Samakal Financial		1/04/2024 416 7-Nov-19 12/12/2019	PD 1/04/2024 416 PD 7-Nov-19 PD 12/12/2019
25/01/2024 30/01/2024 19/03/2024 5870104, Date:	y Samakal Financial		416 7-Nov-19 12/12/2019	416 PD 7-Nov-19 PD 12/12/2019
-2 4 38	y Samakal Financial		7-Nov-19	PD 7-Nov-19
/20 03/06/20 17/	ly Samakal Financial	₽	12/12/2019	PD 12/12/2019
1/06/2020 19/01/2020 21/01/2020 23.01.2020		· # #		
28 -136 -148			35	35
018 22/03/18 0:	The Daily Samakal	l 🖺	23/03/2020	
5/04/2020 31/05/2020 06/01/2020 Date: 09.06.2020		Ext	23/03/2020	PD 23/03/2020
775 801 641	7		0	
15/10/17 29/10/17 12/11/17		1	11-Aug-18	8
19/06/2018 17/07/2018 8/09/2018 27.08.2018	The Dauly Samakal and The Financial Express		6/04/2018	∞.
247 261 300	2		-127	
18 08	The Daily Samakal 24/0		2-Jul-19	
22/07/2019 8/06/2019 26/08/2019 10136150, Date:	<u> </u>		2/02/2019	NCB PD 2/07/2019
454 403 475	4		0	0

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Date of Completion	Actual	(14)		20.06.2024			30.04.2023			30.04.2023	:
Date of	As per Contract	(13)	, 600	70.00.2024			31.01.2023			31.01.2023	
	Actual Payment	(12)	00 000 000	12,071,997.00 20.06.2024			24,910,773.00 31.01.2023	-1171594		24,910,773.00 31.01.2023	-1171594
Contract Price	& Date	(11)	12077997.119;	Date: 04.04.2024		7,50,673,67	Date: 27.09.2021	-11-		26082367, Date: 27.09.2021	-11
	Date of NOA	(10)		27/03/2024		28/10/2022	8/11/2022	11	28/10/2022	8/11/2022	11
Date of	Approval	(6)		25/03/2024		28/10/2022	8/11/2022	11	28/10/2022	8/11/2022	11
Date of	Opening	(8)		3/12/2024		28/10/2022	8/11/2022	11	28/10/2022	8/11/2022	11
Name of	Newspaper	(7)	- 1 - 0 - 1 - 0 - 1 - 1 - 1 - 1 - 1 - 1	and The Financial	rypicss		The Daily Samakal and The Financial Express			The Daily Samakal and The Financial Express	
Procureme Approving Date of Tender	Invitation	(9)	31/03/2023	25/02/2024	331	12/07/2021	27/07/2022	380	12/07/2021	27/07/2022	380
Approving	nt Method Authority	(5)	Qď	. Qa		PD	QΔ		PD	PD	
Procureme	nt Method	(4)	NCB (OTM)□	NCB (OTM)□		NCB (OTM)□	NCB (OTM)□		NCB (OTM)⊡	NCB (OTM)□	,
Estimated Cost.	(Taka in Lac)	(3)	135.00	134.2		450.00	363.74	-86.26	450.00	363.74	-86.26
Estim	(Tak		Plan	Actual	Deviation	Plan	Actual	Deviation	Plan	Actual	Deviation
As per Project Document	Description of Pack age	(2)	Survey, Study & Investigation			Development of hydrological services products such as	sediment prediction & river bank erosion, hydrological drought prediction, salinity	Development of hydrological services products such as	sediment prediction & river		data, products & warnings.
As	Package No	(1)	VSSIN	COCAT			NS15			NS15	



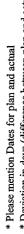
* Please mention Dates for plan and actual
* Deviation in days (difference between plan and actual)
*Plan as per procurement plan described in project document

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Information Related to Procurement of Works

۷	As per Project Document	Estin	Estimated Cost.	Procureme	Procureme Approving	Date of Tender	Name of	Date of	Date of	Data of	Contract Price		Date of	Date of Completion
Package No	Description of Pack age	(Tal	(Taka in Lac)	nt Method	Authority	П	Newspaper	Opening	Approval	NOA	& Date	Actual Payment	As per	Actual
Ξ	(2)		(3)	(4)	(2)	(9)	(2)	(8)	(6)	(10)	(11)	(12)	(13)	(14)
		Plan	404.17	NCB (OTM)	ω	6102/90/02		18/07/2018	1/08/2018	15/08/2018				
W ₁	Refurbishment (Renovation) of Hydrology Head offices- (2 nos 5 story at Dhaka, 2 nos. singlestory at Manikgonj Achual and Munshigonj)	Actual	563.45	NCB (OTM)	PD	25/03/2020	The Daily Samakal and The Financial Express	27/04/2020	6/11/2020	13/06/2020	55997232.255; Date: 16.06.2020	40447875	31.12.2020	30.09.2021
		Deviation				279		649	828	899				
		Plan	540.98	NCB (OTM)	PD	22/09/2018		27/03/2018	26/04/2018	10/05/2018				
W2	Supply and installation of New Ground water nests in coastal region and hotspot areas including Dhaka (digging of new ground water breaches).	Actual	652.55	NCB (OTM)	PD	10/01/2019	The Daily Samakal and The Financial Express	10/02/2019	7/03/2019	7/03/2019	58614300.00, Date:	54098045.77	27.07.2019	21.07.2019
		Deviation				110		320	315	301				
		Plan	259.10	NCB (OTM)	PD	22/07/2019	The Daily Samakal	18/08/2018	17/09/2018	1/10/2018				
W3	Construction of Hydology Lab Building	Actual	300.00	NCB (OTM)	PD	15/12/2019	and The Financial Express	14/01/2020	2/02/2020	2/02/2020	28190759.499, Date: 05.02.2020	25465058	04.10.2020	30.07.2021
		Deviation				146		514	503	489				
		Plan	718.85	NCB (OTM)	PD	22/07/2019	:	19/08/2018	2/09/2018	16/09/2018				
W4	Refurbishment (Renovation) of Hydrology field offices-35 locations	Actual	850.00	NCB (OTM)	PD	23/10/2019	The Daily Samakal and The Financial Express	28/11/2019	15/12/2019	15/12/2019	70941600, Date: 01.01.2020	71887881	04.08.2020	04.03.2021
		Deviation				93		466	469	455				
		Plan	216.71	NCB (OTM)	PD	30/10/2018	The Daily Samakal	9/02/20/6	23/02/2019	9/03/2019				
WS	Establishment of BM Pillar for SW: 308 nos	Actual	257.10	NCB (OTM)	PD	3/07/2019	and The Financial Express	4/04/2019	18/04/2019	18/04/2019	21671478.555, Date: 28.04.2019	21671218	28.08.2019	25.12.2019
		Deviation				246		54	54	40				
		Plan	400.00	NCB (OTM)	PD	13/10/2021	The Daily Samakal							
W6	Establishment of BM Pillar in 730 Location	Actual	488.64	NCB (OTM)	PD	13/10/2021	and The Financial Express	11/11/2021	12/01/2022	12/01/2022	48663667.259, Date: 25.01.2022	32664651	25.01.2023	31.12.2023
		Deviation												

As per Project Document		Estima	Estimated Cost.	Procureme Approving		Date of Tender	Name of	Date of	Date of	Date of	Contract Price		Date of	Date of Completion
			nt l	nt Method		Invitation	Newspaper	Opening	Approval	NOA	& Date	Actual Payment	As per Contract	Actual
(2) (3)	-	-		(4)	(5)	(9)	(2)	(8)	(6)	(10)	(11)	(12)	(13)	(14)
Plan 270.00 7	270.00		~ 9	NCB (OTM)	PD	31/03/2023			,	,				
Establishment of BM Values (SoB) on BM Pillar in 730 Actual 181.36 (C) Location	181.36		20	NCB (OTM)	PD	29.05.2024	The Daily Samakal and The Financial Express	12.06.2024	20.06.2024	20.06.2024	16322735.272, Date: 20.06.2024	16322735	20.06.2024	30.06.2024
Deviation	Deviation		L											
Refurbishing hydrology Plan 652.50 Plan (C	652.50		4 9	NCB (OTM)	PD	12/12/2021					W7-A:			
Actual 661.72 (C	661.72		49	NCB (OTM)	Q	W7-A: 12.12.2021 W7-B: 13.12.2021 W7-C: 13.12.2021 W7-D: 13.12.2021 W7-E: 12.12.2021	The Daily Samakal and The Financial Express	W7-A: 28.12.2021 W7-B: 29.12.2021 W7-C: 30.12.2021 W7-D: 30.12.2021 W7-E: 28.12.2021	W7-A: 20.02.2022 W7-B: 23.02.2021 W7-C: 23.02.2021 W7-D: 20.02.2021 W7-E: 15.02.2021	W7-A: 20.02.2022 W7-B: 23.02.2021 W7-C: 23.02.2021 W7-D: W7-D: W7-D: W7-E: 15.02.2021	7204957.427, Date: 02.03.2022; W7-B: 02.03.2022; W7-B: 02.02.2022 W7-B: 03.02.2021 W7-C: W7-C: W7-C: W7-C: W7-C: W7-C: Date: 08.02.2022; W7-C: W7-C: W7-C: W7-C: W7-C: W7-C: W7-D: W7-E: W7-E: W7-E: W7-E: 15.02.2021 9224498.277, Date: 02.2022 Total= 59664360.342	W7-A: 7578959 (With Variation), W7-B: 8433047, W7-C: 16921887, W7-D: 19859003 (With Variation), W7-E: 8124087 Total-60916983	W7-A: 29.12.2022, W7-B: 08.03.2023, W7-C: 29.12.2022, W7-D: 29.12.2022	W7-A: 30.06.2023, W7- B: 08.03.2023, W7-C: 03.05.2023, W7- D: 30.06.2023, W7-E: 30.06.2023
Deviation	Deviation		┸	1										
Plan 450.00 7	450.00		7 9	NCB (OTM)	PD	5/05/2022						,		
412.58	412.58			NCB (OTM)	PD	5/05/2022	and The Financial Express	6/06/2022	20/6/2022	20/6/2022	39943696.656, Date: 29.06.2022	34791227	01.03.2023	30.06.2024
Deviation	Deviation		_			0								



^{*} Deviation in days (difference between plan and actual) *Plan as per procurement plan described in project document

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Information Related to Procurement of Services

Estimated Cost. Procureme	Procureme	Ргосшете		Approving				Date of	Date of		Contract Price		Date o	Date of Completion
Description of Pack age (1aka in Lac) in Method Authority Inv	nt Method Authority	nt Method Authority	Authority	\dashv	Invitation		Newspaper	Opening	Approval	Date of NOA	& Date	Actual Payment	As per	Actual
(3) (4) (5)	(3) (4) (5)	(4) (5)	(2)	4	9)		(3)	(8)	(6)	(10)	(11)	(12)	(13)	(10)
Flan 1,400.00 QCBS MOWR 21/09/2018	1,400.00 QCBS MOWR	QCBS MOWR	MOWR	+	21/09/2018	- 1		23/12/2017	26/02/2018	12/03/2018		(21)	(CI)	(14)
Water Resources System Integrator (WRSI) Actual 1291.64 QCBS MOWR 29/03/2018 Consultancy	1291.64 QCBS MOWR	QCBS MOWR	MOWR		29/03/2018		The Daily Samakal and The Financial Express	6/05/2018	8/01/2019	1/04/2019	USD. 94013138.00; BDT. 51574751.00, Date: 10.05.2022	USD.72694825.00, BDT. 51574551.00	31.05.2022	30.06.2024
Deviation 176		-176	-176	-176	-176		-	134	316	305				
Plan 469.00 Single HOPE I-Jul-21	469.00 Single HOPE Source	Single HOPE	HOPE		1-Jul-21			Single Source	11/07/2021	25/07/2021				
468.35	468.35 Single HOPE	Single HOPE	НОРЕ	-	Single Sou] eg	The Daily Samakal and The Financial Express	Single Source	30/11/2021	7/11/2021	46797716, Date:	46797716	05.05.2023	30.06.2024
Deviation	Deviation								142	105				
Plan 450.00 FBS HOPE 12/07/2021	450.00 FBS HOPE	FBS HOPE	HOPE	H	12/07/202			11/07/2021	14/09/2021	28/09/2021				
Development of hydrological services products. Sediment prediction & river bank erosion; Hydrological drought prediction; Salinity infrusion forecast; Ground water outlook and forecast; Surface water supply outlook etc. Upgrade of existing website to display real time data, products & warmings.	Actual 449.44 FBS HOPE	FBS HOPE	НОРЕ		13/07/202		The Daily Samakal and The Financial Express	11/08/2021	15/03/2022	21/04/2022	44636295, Date:	44636295	17.05.2023	30.06.2024
Deviation	Deviation		1		-			31	182	205				
Consultancy on Data Sharing Plan 100.00 CQS HOPE Policy	Plan 100.00 CQS (NCB)	CQS (NCB)		HOPE									1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Actual		· · · · · · · · · · · · · · · · · · ·												
Plan 90.00 FBS HOPE 19-May-19	Plan 90.00 FBS HOPE	FBS HOPE	HOPE	H	19-May-	0		0100/20/3	0100,3070	0,00,00				
HOPE	Actual 54.16 FBS HÖPE	FBS HOPE	HOPE	ļ	28/05/2	1	The Daily Samakal and The Financial	17/06/2019	20/11/2019	24/12/2019	5405438, Date:	5405438	20 00	2000
Deviation 9		6	6	6	6		Express	104	195	215	24.12.2019		20.00.2021	30.00.2024



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As	As per Project Document	Estima	Estimated Cost.	Procureme Approving		Date of Tender	Name of	Date of	Date of		Contract Price	;	Date of	Date of Completion
Package No	Description of Pack age	(Tak:	(Taka in Lac)	nt Method Authority		Invitation		Opening	Approval	Date of NOA	& Date	Actual Payment	As per Contract	Actual
(1)	(2)		(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)	(11)	(12)	(13)	(14)
		Plan	175.00	CQS (NCB)	HOPE	1/09/2022		17/12/2019	20/02/2020	9/03/2020				
C22	Development of mobile apps, upgrading web portal, Data and information sharing software to share info between BWDB and stakeholders-supply and installation	Actual	174.83	CQS (NCB)	НОРЕ	17/06/2022	The Daily Samakal and The Financial Express	4/07/2022	5/01/2023	13/03/2023	16323483, Date: 22.03.2023	16323483	25.11.2023	25.05.2024
		Deviation				-76		930	1050	1103				
		Plan	300.00	CQS (NCB)	HOPE	31/03/2023	; ;	19/07/2021	22/09/2021	6/10/2021				
C24	Feasibility and Details technical design for second phase of BWCSRP	Actual	299.13	CQS (NCB)	HOPE	16/06/2023	and The Financial Express	13/06/2023	5/02/2024	1/04/2024	29778612, Date: 01.04.2024	29778612	30.06.2024	30.06.2024
		Deviation				11		694	998	806				
	Community based Early	Plan	281.58	Single Source	HOPE	31/03/2023		Single Source	24/05/2023	31/05/2023				
C27	Warning System in 2 flood prone districts (Netrokona and Sunamganj) in collaboration with DDM.	Actual	254.04	Single	HOPE	12/12/2022	The Daily Samakal and The Financial Express	22.02.2023	28.12.2023	04.01.2024	25042835, Date: 04.01.2024	25042835	30.06.2024	30.06.2024
		Deviation	-27.54			-109			218	228		0.00		
Places.	* Discontinue Dates for - 1 3 4 1													

* Please mention Dates for plan and actual
* Deviation in days (difference between plan and actual)
*Plan as per procurement plan described in project document

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