

## Agency - Bengal (SW)

### PIP Details

Component ID	Sub-Component ID	Activity ID	Activity	ItemCode	ItemName	Procurement Type	Procurement Method	Unit Price	Quantity	Total	Bank Review	Remarks
<b>A</b>			<b>Water Resources Data Acquisition System</b>									
A	A1	A1.1	Real Time Data Acquisition System (RTDAS) for Surface Water	A1.1.01	Development of HIS	Goods	NCB	1442	1	1442	Prior	
A	A1	A1.1	Real Time Data Acquisition System (RTDAS) for Surface Water	A1.1.02	Civil works for HIS (Telemetry)	Civil	NCB	100	1	100	Post	
A	A1	A1.3	Discharge Measurement Equipment	A1.3.01	Boats with out board Engines	Goods	Shopping	12	4	48	Post	
A	A1	A1.3	Discharge Measurement Equipment	A1.3.02	ADCP above 25 Mtrs	Goods	Shopping	25	6	150	Post	
A	A1	A1.3	Discharge Measurement Equipment	A1.3.03	Vehicle with crane for ADCP	Goods	Shopping	18	2	36	Post	
A	A1	A1.3	Discharge Measurement Equipment	A1.3.04	3D-ADV Flow Tracker	Goods	Shopping	8	2	16	Post	
A	A1	A1.7	Manual Observation Equipment	A1.7.01	Strengthening manual measurement observation	CS	QCBS	180	1	180	Prior	
A	A1	A1.8	Field Surveys	A1.8.01	Bathymetric Survey of Dams / Rivers / Estuaries	CS	CQS	140	1	140	Prior	
A	A1	A1.8	Field Surveys	A1.8.02	Benchmark and RL Surveys	CS	CQS	121	1	121	Prior	

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A	A1	A1.8	Field Surveys	A1.8.04	Total Station	Goods	Shopping	10	2	20	Post	
A	A1	A1.8	Field Surveys	A1.8.05	Digital Level	Goods	Shopping	0.4	4	1.6	Post	
A	A1	A1.8	Field Surveys	A1.8.06	GPS – Hand held	Goods	Shopping	0.35	4	1.4	Post	
A	A1	A1.8	Field Surveys	A1.8.07	Differential GPS	Goods	Shopping	15	2	30	Post	
A	A1	A1.8	Field Surveys	A1.8.08	RTK-GPS survey system	Goods	Shopping	20	1	20	Post	
A	A1	A1.8	Field Surveys	A1.8.09	Echo Sounder with accessories	Goods	Shopping	2	2	4	Post	
A	A1	A1.10	Monitoring and operation of Reservoirs / Barrages	A1.10.02	For major Dams and other Barrages	Goods	NCB	100	11	1100	Prior	For Massanjore, Kangsabati and Hinglow Dams and Mahananda, Dahuk, Brahamani, Dwarka, Kopai, Shilbati, Bhairabbanki and Tarapheni Barrages
A	A2	A2.10	SCADA for Barrages	A2.2.01	Automatic Operation and Monitoring System of major Barrages	Goods	NCB	300	2	600	Prior	Durgapur Barrage across River Damodar will be taken in 1st phase whereas Tilpara Barrage across River Mayurakshi will be taken up in 2nd phase.
A	A2	A2.10	Canal SCADA System	A2.2.02	Integrated Canal Monitoring System	Goods	NCB	300	2	600	Prior	For Mayurakshi and Kangsabati Reservoir projects
A	A3	A3.2	Construction of Data Centres	A3.2.01	For State Data Center including development of Training Center	Civil	Shopping	220	1	220	Post	At Kolkata
A	A3	A3.2	Construction of Data Centres	A3.2.02	For Regional Data Centers	Civil	Shopping	125	2	250	Post	At Durgapur and Jalpaiguri
A	A3	A3.3	Furnishing of Data Centres	A3.3.01	Non ITC equipment, Furnitures etc.	Goods	Shopping	85	3	255	Post	

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A	A3	A3.4	IT Equipment for Data Centres	A3.4.01	Purchase of ITC equipment, Cloud computing	Goods	Shopping	265	1	265	Post	
A	A3	A3.4	IT Equipment for Data Centres	A3.4.02	Purchase of ITC Training equipment's	Goods	Shopping	200	1	200	Post	
A	A3	A3.5	Software for Data Centers	A3.5.01	Software for Remote Sensing and GIS, Water Management, Geotechnical etc.	Goods	Shopping	200	1	200	Post	
										6000		
<b>B</b>			<b>Water Resources Information System (WRIS)</b>									
B	B2	B2.1	Strengthening Regional / State WRIS	B2.1.01	Procurement of Hardware and Software, Creation of State Chapter of India-WRIS, Integration of State WRIS with Regional WRIS	Goods	Shopping	75	1	75	Post	
B	B2	B2.1	Strengthening Regional / State WRIS	B2.1.02	Establishment of state WRIS and integration with National WRIS	CS	QCBS	100	1	100	Prior	
B	B2	B2.3	Data Digitization	B2.3.01	Digitization of historical data, documents and reports etc.	NCS	Shopping	50	1	50	Post	
B	B2	B2.4	Website Development and Hosting	B2.4.01	Hosting of Website, hardware, software, Man power required	CS	LCS	35	1	35	Post	
B	B2	B2.4	Website Development and Hosting	B2.4.02	procurement of video conference facility for data centre	Goods	Shopping	15	3	45	Post	

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B	B2	B2.4	Website Development and Hosting	B2.4.03	Software and related expences	Goods	NCB	75	1	75	Post		
B	B2	B2.5	Development of Atlases	B2.5.01	Basinwise water resources atlases	Goods	Shopping	50	1	50	Post		
B	B2	B2.6	Development of Information Brochures	B2.6.01	Information Manuals for trainees	Goods	Shopping	10	1	10	Post		
B	B2	B2.7	Development of Mobile Apps	B2.7.01	State WRIS Mobile Apps	Goods	Shopping	25	1	25	Post		
B	B2	B2.8	e-Library	B2.8.01	e-Library software's and related expenses	Goods	Shopping	10	1	10	Post		
B	B2	B2.8	e-Library	B2.8.02	Collection of field data Khals/Tributaries	NCS	Shopping	25	1	25	Post		
										500			
<b>C</b>			<b>Water Resources Operation and Planning System</b>										
C	C1	C1.1	River basin management platform	C1.1.01	DSS/IWRM to improve long term Water Resource Planning for Ganga, Brahamaputra and Subarnarekha River Basins in the State	CS	QCBS	600	1	600	Prior	Surface water planning, integrated operation of reservoirs, surface water and conjunctive use planning, drought monitoring, assessment and management, management of the quality of surface water.	

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C	C1	C1.2	Flood Forecasting	C1.2.01	Establishment of Inflow Forecast, Flood Forecast and Warning System in West Bengal for Kangsabati-Keleghai-Shilabati, Mayurakhshi, Ajoy, Subarnarekha and Teesta Sub-basins	CS	QCBS	340	1	340	Prior	Objective is : 1. Preparation of guide curve 2. Multipurpose operation of reservoir based on forecasted and realtime rainfall 3. Forecast of Water Level at different gauge locations based on real time and forecasted rainfall 4. Flood inundation mapping.
C	C1	C1.1	River basin management platform	C1.1.03	Integration of New Stations and Development of Composite Web based MI System and establishing linking with Central Flood Control Cell	CS	QCBS	60	1	60	Post	

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C	C1	C1.3	Irrigation management and operation	C1.3.01	Evaluation of Irrigation Projects - Benchmarking and water Auditing for KRP, MRP, DVC and TBP	CS	QCBS	160	1	160	Prior	Objective: It is an important tool used in irrigation sector so as to improve water use efficiency and management of irrigation projects. Benchmarking is a process of introspection since it is a continuous process of measuring one's own performance. Benchmarking has also broad application in problem solving and planning improvement etc. In the irrigation sector that would mean more productive and efficient use of water i.e. more crop per drop.
C	C2	C2.3	PDS for Surface Water	C2.3.01	Consultancy Services for PDS for Environmental Flow in Sundarban	CS	QCBS	80	1	80	Prior	The objective of this project is to assess the reason of increase in salinity in Sundarban. Finding necessary steps required to reduce the salinity and rejuvenate the eco system of Sundarban

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C	C2	C2.3	PDS for Surface Water	C2.3.02	Consultancy Services for PDS for Embankment Mapping and Embankment Health Study	CS	QCBS	60	1	60	Prior	The embankment infrastructure of the State is not available in GIS format or any map format though the State has almost 10000 k.m. of embankment. The entire length of embankment has to be mapped on GIS platform along with the structural detail and overall health of the embankment which will help in assessment of vulnerability of the embankments and protected areas and taking up construction work of new embankments or strengthening of the existing embankments. This will also help in assessment of safe passage of different quantum of discharge and threshold limits of the same beyond which the embankments will be in danger.

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C	C2	C2.3	PDS for Surface Water	C2.3.03	Consultancy Services for PDS for Dam Break Analysis	CS	QCBS	100	1	100	Prior	The objective for this study is: To model dambreak for different failures conditions, To determine the dam breach discharge hydrograph, the extent and timing of the flood wave, To check the flood spreading area due to dambreak, Incorporation of Information generated from the dam break study, such as inundation maps and flood wave travel times to prepare an Emergency Action Plan for the dam break condition.	
C	C2	C2.3	PDS for Surface Water	C2.3.04	Consultancy Services for PDS for Reservoir Sedimentation Assessment	CS	QCBS	100	1	100	Prior	The objective of the study is to determine specifications and operating procedures for dealing with sediment for the Reservoir (Sediment Management).	
										1500			
<b>D</b>			<b>Institutions Capacity Enhancement</b>										
D	D1	D1.2	Renovation of Knowledge Centres	D1.2.01	Infrastructural development of River Research Institute	Civil	NCB	200	1	200	Prior	Development of River Research Institute as State / Regional Center of Excellence	
D	D1	D1.3	Furnishing of Knowledge Centres	D1.3.01	Furnishing of River Research Institute	Goods	Shopping	80	1	80	Prior	In connection with renovation of River Research Institute as a Center of Excellence	



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D	D1	D1.4	IT Equipment for Knowledge Centres	D1.4.01	IT equipment for River Research Institute	Goods	Shopping	60	1	60	Prior	
D	D1	D1.5	Software for Knowledge Centers	D1.5.01	Procurement of Softwares / Models for River Research Institute	Goods	Shopping	80	1	80	Prior	
D	D1	D1.6	Technical Experts	D1.6.01	Consultancy service for procurement of Technical Expertise	NCS	Shopping	40	1	40	Prior	
D	D2	D2.1	Trainings	D2.1.01	International Training programmes	NCS	Shopping	100	1	100	Post	
D	D2	D2.1	Trainings	D2.1.02	National Training programmes	NCS	Shopping	80	1	80	Post	
D	D2	D2.1	Trainings	D2.1.03	Organizing Inhouse Trainings	NCS	Shopping	100	1	100	Post	
D	D2	D2.2	Workshops	D2.2.01	Workshops / Awareness Programmes	NCS	Shopping	50	1	50	Post	
D	D2	D2.3	Study Tours	D2.3.01	Study tour to Overseas and Domestic places	NCS	Shopping	150	1	150	Post	
D	D2	D2.4	Development of Courses	D2.4.01	Higer Degree course at River Research Institute	NCS	Shopping	100	1	100	Prior	
D	D3	D3.1	Establishment of PMU	D3.1.01	Cost of infra-structure, manpower and support for procurement, financial management, and MIS and M&E services; general TA support at State level	Goods	Shopping	250	1	250	Post	

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D	D3	D3.1	Establishment of PMU	D3.1.02	Recurrent cost of operations including hiring of vehicles	Goods	Shopping	150	1	150	Post	
D	D3	D3.2	Operational Cost of PMU	D3.2.01	Office Expenses for Stationary, Travelling expenses, O&M of IT equipments etc.	Goods	Shopping	100	1	100	Post	
D	D4	D4.1	Incremental Staff Cost	D4.1.01	Hiring Junior Experts	NCS	Shopping	50	1	50	Post	
D	D4	D4.1	Incremental Staff Cost	D4.1.02	Hiring IT / GIS experts and Web Administrator	NCS	Shopping	100	1	100	Post	
D	D4	D4.1	Incremental Staff Cost	D4.1.03	Office Assistant	NCS	Shopping	70	1	70	Post	
D	D4	D4.1	Incremental Staff Cost	D4.1.04	Field Staffs	NCS	Shopping	80	1	80	Post	
D	D4	D4.1	Incremental Staff Cost	D4.1.05	Accountant / Clerk	NCS	Shopping	90	1	90	Post	
D	D4	D4.1	Incremental Staff Cost	D4.1.06	Data Entry Operator	NCS	Shopping	70	1	70	Post	
										2000		
										10000		