

By speed post/email

F.No. X-96046/1/2016-NHP (3008-3014)
Government of India
Ministry of Water Resources, RD & GR
(National Project Management Unit, NHP)

2nd Floor, Block – 3, CGO Complex,
Lodhi Road, New Delhi – 110 003.
Dated the 5th December, 2016

Office Memorandum

Subject: Approval of the Project Implementation Plan (PIP), Irrigation & Waterways Department (SW), Govt. of West Bengal under National Hydrology Project (NHP) - reg.

The undersigned is directed to refer to G.O. No. X-92021/1/2016-NHP/1118-1258 dated 23.06.2016 and to convey the approval of Secretary, Ministry of Water Resources, River Development & Ganga Rejuvenation, Government of India for the Project Implementation Plan (PIP) (detailed PIP cost enclosed as **Annexure-I**) pertaining to “Irrigation & Waterways Department (SW), Govt. of West Bengal” to be implemented under National Hydrology Project (NHP). The component wise allocation of the Implementing Agency (IA) is as follows:

Implementing Agency	Allocations (Rs in crore)	Component wise allocation			
		A	B	C	D
Irrigation & Waterways (SW), W.B.	100.00	60.00	5.00	15.00	20.00

2. The approval of PIP is subject to the following conditions:
 - a. The numbers of new hydro-met sites and their locations would be finalised in consultation with MoWR, RD&GR/CGWB/CWC.
 - b. Salary of the Departmental Employees will not be charged to the Project.
 - c. Decision on communication system for real time data communication system (INSAT/V-SAT/GSM) would be taken as per the decision to be taken by MoWR, RD&GR.
 - d. National Project Monitoring Unit (NPMU) would be consulted before undertaking any studies mentioned under Component C.
 - e. Regarding cost of upgradation / maintenance (AMC) and updation of the existing equipment/software procured during previous phases of Hydrology Project or through their own funding, integration and seamless exchange of data with central data base shall be ensured before making any payment.
 - f. The IA needs to ensure that there is no overlapping with any other scheme of Government of India or State and there is no duplicity in funding.
3. The IA i.e. Irrigation & Waterways (SW), Govt. of W.B. needs to implement the various activities in the PIP as per their roles and various conditions envisaged in the above mentioned G.O. dated 23.06.2016. The IA also must adhere to the conditions laid down in the Memorandum of Agreement (MoA) including Financial Manual already been signed between Irrigation & Waterways (SW), Govt. of W.B. and MoWR, RD & GR, GoI.
4. Cost of land acquisition shall not be charged to NHP.

5. The approved PIP cost tab shall be uploaded on Management Information System (MIS) of NHP.
6. The Annual Work Plan (AWP) and release of grants would be scrutinized in the light of approved PIP



(Amit Kumar Singh)

Under Secretary to the Government of India

To

The Project Coordinator & Principal Secretary, Jalsampad Bhawan, 1st Floor, Block-DF, Sector - I, Salt Lake City, Kolkata-700 091. (**Email:** naveen_prakash1@hotmail.com)

Copy to:

1. Chief Secretary, Government of West Bengal, Writer's Building, Kolkata – 700 001.
2. Principal Secretary, Deptt. of Irrigation & Waterways, Government of West Bengal, Jalsampad Bhawan, Salt Lake, Kolkata – 700091 (e-mail: naveen_prakash1@hotmail.com)
3. Director, Irrigation and Waterways Department, Jalsampad Bhawan, 1st Floor, Block-DF, Sector - I, Salt Lake City, Kolkata-700 091 (e-mail: advplniwdwb@gmail.com)
4. Director (Finance), MoWR, S.S. Bhawan, New Delhi.
5. Pay & Accounts officer, MoWR, Shastri Bhawan, New Delhi.
6. Dr. Anju Gaur, Task Team Leader (NHP), World Bank, Hindustan Times Building, K.G. Marg, New Delhi. (email.agaur@worldbank.org)

W&S
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
Water Resources Data Acquisition System												
A	A1	A1.1	Real Time Data Acquisition System	A1.1.01	Development of HIS	Goods	NCB	1442	1	1442	Prior	
A	A1	A1.1	Real Time Data Acquisition System	A1.1.02	Civil works for HIS (Telemetry)	Civil	NCB	100	1	100	Post	
A	A1	A1.3	Discharge	A1.3.01	Boats with out board	Goods	Shopping	12	4	48	Post	
A	A1	A1.3	Discharge	A1.3.02	ADCP above 25 Mtrs	Goods	Shopping	25	6	150	Post	
A	A1	A1.3	Discharge	A1.3.03	Vehicle with crane for	Goods	Shopping	18	2	36	Post	
A	A1	A1.3	Discharge	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	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	CS	CQS	121	1	121	Prior	
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	Goods	Shopping	2	2	4	Post	

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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, Durgapur Barrage across River Damodar will be taken in 1st
A	A2	A2.10	SCADA for Barrages	A2.2.01	Automatic Operation and Monitoring System of major Barrages	Goods	NCB	300	2	600	Prior	
A	A2	A2.10	Canal SCADA System	A2.2.02	Integrated Canal Monitoring System	Goods	NCB	300	2	600	Prior	For Mayurakshi and Kangsabati
A	A3	A3.2	Construction of Data Centres	A3.2.01	For State Data Center including development of	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
A	A3	A3.3	Furnishing of Data Centres	A3.3.01	Non ITC equipment,	Goods	Shopping	85	3	255	Post	
A	A3	A3.4	IT Equipment for Data Centres	A3.4.01	Purchase of ITC equipment, Cloud	Goods	Shopping	265	1	265	Post	
A	A3	A3.4	IT Equipment for Data Centres	A3.4.02	Purchase of ITC Training	Goods	Shopping	200	1	200	Post	
A	A3	A3.5	Software for Data Centres	A3.5.01	Software for Remote Sensing and GIS, Water	Goods	Shopping	200	1	200	Post	
B					Water Resources Information System (WRIS)					6000		
B	B2	B2.1	Strengthening Regional / State WRIS	B2.1.01	Procurement of Hardware and Software, Creation of State Chapter of India-WRIS, Integration	Goods	Shopping	75	1	75	Post	
B	B2	B2.1	Strengthening Regional / State WRIS	B2.1.02	Establishment of state WRIS and integration	CS	QCBS	100	1	100	Prior	
B	B2	B2.3	Data Digitization	B2.3.01	Digitization of historical data, documents and	NCS	Shopping	50	1	50	Post	

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B	B2	B2.4	Website Development and Hosting	B2.4.01	Hosting of Website, hardware, software, Man	CS	LCS	35	1	35	Post
B	B2	B2.4	Website Development and Hosting	B2.4.02	procurement of video conference facility for	Goods	Shopping	15	3	45	Post
B	B2	B2.4	Website Development	B2.4.03	Software and related	Goods	NCB	75	1	75	Post
B	B2	B2.5	Development of Atlases	B2.5.01	Basinwise water	Goods	Shopping	50	1	50	Post
B	B2	B2.6	Development of	B2.6.01	Information Manuals for	Goods	Shopping	10	1	10	Post
B	B2	B2.7	Development of Mobile	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
Water Resources Operation and Planning System											
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
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											

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C	C1	C1.1	River basin management platform	C1.1.03	Integration of New Stations and Development of Composite Web based MI	CS	QCBS	60	1	60	Post	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 the objective of this project is to assess the reason of increase in salinity in Sundarban.
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	
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	

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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
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

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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
										1500		
D			Institutions Capacity Enhancement									
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
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
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	Goods	Shopping	80	1	80	Prior	
D	D1	D1.6	Technical Experts	D1.6.01	Consultancy service for procurement of Technical	NCS	Shopping	40	1	40	Prior	
D	D2	D2.1	Trainings	D2.1.01	International Training	NCS	Shopping	100	1	100	Post	
D	D2	D2.1	Trainings	D2.1.02	National Training	NCS	Shopping	80	1	80	Post	
D	D2	D2.1	Trainings	D2.1.03	Organizing Inhouse	NCS	Shopping	100	1	100	Post	
D	D2	D2.2	Workshops	D2.2.01	Workshops / Awareness	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	

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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	Goods	Shopping	250	1	250	Post
D	D3	D3.1	Establishment of PMU	D3.1.02	Recurrent cost of operations including	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	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	

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