**National Hydrology Project**



[XXXX] State   
Project Implementation Plan

Implementing Agencies

[Name]  
[Name]  
[Name]

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# Summary

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | | **Parameter** | **Description** |
| **1** | | **implementing agency** |  |
| **2** | | **Nodal Officer** |  |
| **3** | | **contact details** |  |
| **4** | | **Summary** |  |
| **5** | **Financial Outlay** | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Project Component** | **(in Crore INR)** | | |
|  | **World Bank** | **Government** | **Total** |
|  | Hydromet Informatic System (HIS) | 84.69 | 36.30 | 120.99 |
|  | National Water Information Center | Xxx | Xxx | Xxx |
|  | Water Resources Operation and Planning | 1.51 | 0.65 | 2.16 |
|  | Institutions and Capacity Building | 32.25 | 13.82 | 46.07 |
|  | **TOTAL** | 118.45 | 50.76 | 169.22 |

# BACKGROUND: Water Resources

## State at A Glance

| S. No. | **Description** | **Details** |
| --- | --- | --- |
| **General** | | |
|  | Geographical Area (km2) |  |
|  | Population (Crores 2011 census) |  |
|  | Number of district |  |
|  | Number of Blocks |  |
| **Water Resources** | | |
|  | Major Rivers |  |
|  | River Basins (No and Name) |  |
|  | Number of sub-basins\* |  |
|  | Rainfall (Lakh Ha-m) |  |
|  | Surface Water (Lakh Ha-m) |  |
|  | Ground Water, (Lakh Ha-m) |  |
|  | Number of over exploited blocks |  |
|  | Number of blocks with water quality issues |  |
| **Hydromet Monitoring System** | | |
|  | Number of Meteorological stations |  |
|  | Number of River Gauging |  |
|  | Number of GW monitoring stations |  |
| **Storage Structures** | | |
|  | Number of Major and medium Reservoirs |  |
|  | Number of Major and medium Barrages |  |
|  | Existing Storage of Reservoirs (MCM) |  |
|  | Hydropower generation (MW) |  |
|  | Actual Irrigated Area (lakh ha) |  |
|  | Rainfed area (Lakh ha) |  |
|  | Flood Affected Area (Lakh ha) |  |
|  | Drought affected area (Lakh ha) |  |
| **Institutional Setup** | | |
|  | River Basin Organization |  |
|  | Division for Hydromet monitoring |  |
|  | Existing River basin modelling capabilities in the state |  |
|  | Status of State Water resources information system and existing data sharing system |  |
|  | Flood center |  |
|  | Planning and design unit |  |
|  | Training Institution |  |
| Note: \* list of Basin and sub-basins codes is provided in on project website. | | |

## Description of River Basins

| Sub-Basin Code | Name of River Basin/Sub-Basin | | Whether Interstate | | Drainage Area | Number of Storage Structures | | Hot Spots/ Issues |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Basin | Sub-Basin | Yes/No | % within State | (km2) | Type | Number |  |
|  |  |  |  |  |  |  |  |  |
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## Description of GroundWater Aquifers

| Sub-Basin code | Aquifer Name | Type and Description | Annual Recharge (million m3) | Current Utilization (million m3) | Major Use of Water from the Aquifer | Major Issues |
| --- | --- | --- | --- | --- | --- | --- |
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## Existing Hydro-met Monitoring System in the state

Following is the summary of existing setup. The detailed are provided in Annexure…

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.. No.** | **Type** | **State** | | | **CWC** | | | **IMD** | | | **Others** | | |
| P | S | **T** | P | S | **T** | P | S | **T** | P | S | **T** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1. | Meteorological (Rain gauge/  AWS/FCS) |  |  |  |  |  |  |  |  |  |  |  |  |
| 2. | River Gauge |  | |  |  | |  |  |  |  |  | |  |
| 3 | Water Quality in Rivers |  |  |  |  | |  |  |  |  |  | |  |
| 4 | Ground water |  |  |  |  | |  |  |  |  |  | |  |
| 5 | Water Quality in GW |  |  |  |  | |  |  |  |  |  | |  |

\* P = Perennial S = Seasonal T = Total HOS = Hydrological Observation Station

#### Data Transmission and Storage

* *Describe the current transmission system if organized along with Issues & Constraints*

#### Data Sharing

* *Describe the current data sharing program (including where and how the data is shared among divisions, stakeholders and public. Also define the Issues and Constraints*

#### Existing Flood forecasting system

* *Describe the existing flood forecasting setup including how the information flow from and to the field,*

#### Existing Reservoir Operation system

* *Describe the existing flood forecasting and reservoir operation system information flow from and to the field,*

## Overall Organogram of the State’s Existing Water Resources Management Set up

*[Clearly show all entities, cells, divisions, reporting relationships, number of technical/ professional staff at each level]*

Table 3: Existing departments associated with Water Resources Planning and Operation

| **Sl. No.** | **Task** | **Department responsible** | **Number of Technical personnel assigned** |
| --- | --- | --- | --- |
| 1 | Planning and Design department |  |  |
| 2 | Hydrological monitoring |  |  |
| 3 | Canal and reservoir monitoring |  |  |
| 4 | Flood forecasting center |  |  |
|  | Groundwater Management |  |  |
| 4 | Training |  |  |
| 5 | Research center |  |  |
| 6 | River Basin/WRM modelling |  |  |
|  |  |  |  |
|  |  |  |  |

## Details of Ongoing Programs in the Water Sector

| **S. No.** | **Main Implementing Agency** | **Supporting Agencies** | **Name of Project / Program / Scheme** | **Main Focus/ Objective** | **Geographic Coverage** | **Time Period** | | **Financial Allocation (INR Lakh)** | | **Main Areas of Investments** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **From** | **To** | **Total** | **Per Year** |
|  |  |  |  |  |  |  |  |  |  |  |
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# Water Resources Management Issues

## Surface Water management ISsues

| Sub-Basin Code | Name of River Basin/Sub-Basin | | Hot Spots/ Issues |
| --- | --- | --- | --- |
|  | Basin | Sub-Basin |
|  |  |  |  |
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## Surface Water Quality ISsues

| Sub-Basin Code | Name of River Basin/Sub-Basin | | Water Quality Hot Spots/ Issues |
| --- | --- | --- | --- |
|  | Basin | Sub-Basin |
|  |  |  |  |
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## GroundWater management ISsues

| Basin Code | Aquifer Name | Type and Description | Major Issues |
| --- | --- | --- | --- |
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## GroundWater Quality ISsues

| Basin Code | Aquifer Name | Type and Description | Major Groundwater Quality Issues (not included in Table 2.3) |
| --- | --- | --- | --- |
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# Overview of Project activities

## water management issues to be addressed under National Hydrology project

1. XXX
2. XXX
3. XXX

## Project Objectives: Main purpose of the proposed program.

## Project Success Indicators: 3-5 main results/ outcomes indicators to measure the Success of the project.

## Description of the Components and Sub-Components

### Component A: Hydromet Informatic System

### Hydromet Observation Network

**Establishment of**

| S.No. | Type of Station | Subtype | Type of Telemetry | Agency | | Agency 2 | | Total | | | Total cost |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | New | Upgradation |  |  | New | Upgrade | Grand Total | (INR lakh) |
| 1 | Rain Gauge |  |  |  |  |  |  |  |  |  |  |
| 2 | Automatic Weather Stations |  |  |  |  |  |  |  |  |  |  |
| 3 | River Gauging | G |  |  |  |  |  |  |  |  |  |
| GD |  |  |  |  |  |  |  |  |  |
| GDQ |  |  |  |  |  |  |  |  |  |
| GDS |  |  |  |  |  |  |  |  |  |
| GDSQ |  |  |  |  |  |  |  |  |  |
| River Gauging Total |  |  |  |  |  |  |  |  |  |
| 4 | Groundwater | Construction of observation wells |  |  |  |  |  |  |  |  |  |
| DWLR |  |  |  |  |  |  |  |  |  |
| Water quality probes |  |  |  |  |  |  |  |  |  |
|  | Grand Total |  |  |  |  |  |  |  |  |  |  |

**G: Gauge, D: Gauge Discharge, Q: Quality, S: Sedimentation**

### Real time data acquisition and database management system

1. Provide dataflow from STATE-District.
2. Provide dataflow of interstate basin (if any)
3. Type of telemetry proposed

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| S. No. | Type | Type of Storage | Number of Stations | Duration  (years) | Storage | |
|  |  |  |  |  | Station years | Size (MB) |
| 1 | Surface water/Ground water | Manual Data |  |  |  |  |
| 2 | Surface Water | SWIS |  |  |  |  |
| 3 | Groundwater | GWIS/GEMS or equivalent software |  |  |  |  |
| 4 | Surface water/Ground water | Excel or equivalent format |  |  |  |  |
|  | Total |  |  |  |  |  |

### Hydro-informatics Data center

| State | Type | Location | New/ Renovations | Cost (INR lakh) |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
| Grand Total |  |  |  |  |

## Component B: National Water Information Centre

Provide existing setup and plan for strengthening SWRIS. How different information will be updated. Also list how SWRIS will be customized for various stakeholder/districts /projects etc. how information will be collected from various stakeholders

### Wed-based State-WRIS

General description of the plans along with Cost (Lakh INR)

### Digitization of Maps and Documents

Identify the of Maps and documents and link the same to River Basin along with Cost (Lakh INR)

### Development of spatial river basin information system including thematic maps etc.

Identify the of Maps (detailing which River Basin it belongs to) with Cost (Lakh INR)

## Component C: Water Resources Operations and Planning

Provide summary of main activities in this component.

### DSS for Flood and Water Management in River Basin

| Sub-Basin Code | Basin | Sub-basin | Issues | Type of Application | Division carrying out the application | Arrangement for sharing Analytical Outputs | Cost (INR lakh) |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | *{Basin 1}* | *{Sub-basin 1a}* | *{Flood}* | *Flood forecasting* |  |  |  |
|  | *Water allocation* | *DSS for integrated water resources planning* |  |  |  |
|  |  |  |  |  |  |
|  | *{Sub-basin 1b}* | *Drought* | *Drought forecasting* |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  | *{Sub-basin 1c}* |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | *{Basin 2}* |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

### Irrigation operation and management system

| Basin/  Sub-Basin code | Basin | Sub-Basin | Command area  (Lakh Ha) | Type of Application | Division carrying out the application | Anticipated benefits) | Cost (INR lakh) |
| --- | --- | --- | --- | --- | --- | --- | --- |
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SCADA systems for Reservoir Operation

| Basin/  Sub-Basin code | Basin | Sub-Basin | Name Reservoirs/ Barrage | Number of Gates | Command Area (Ha) | Hydropower Generation (Ha) | Anticipated benefits) (Flood affected area etc) | Cost (INR lakh) |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
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### Groundwater Management

[ Please provide list of details and anticipated benefits along with Cost]

## Purposed Driven Studies

[ Please provide list of PDS proposed along with issues and anticipated benefits along with cost].

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl no | PDS Topic | Rational (Key issue) | Division responsible for carrying out | Anticipated benefits |
|  |  |  |  |  |
|  |  |  |  |  |

### Component D: Water Resources Institutions and Capacity Building

[ Please provide list of proposed training, number of beneficiaries etc. along with cost]

# IMPlementation Arrangements

### Overall Project Management

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Coordinator  *[Name, Designation, Address and contact details including email ID]* | |  | | | |
| Is the Project Director Position is assigned Full time? | | | |  | |
| Nodal Office  *[Name, Designation, Address and contact details including email ID]* | |  | | | |
| Is the Project Coordinator Position assigned Full time? | | | |  | |
| **Composition and Deployment of Full time Core Team *[Number Of Technical/ Professional Positions]*** | | | | | |
| Number Planned | Number Redeployed | | Number filled On Deputation | | Number Hired on Contract |
|  |  | |  | |  |
|  | | | | | |

[\*Please provide Institutional Organization chart based on the structure provided below (SW or GW or both).

\*\*Smaller states may reduce the number of staff for SPMU based on their PIP and budgetary allocation]

**Composition of SMPU-WRD/ SW\***

| **S. No** | **Positions under NHP-SPMU** | **Required Number** | **Actual Number** | **Name; Designation and Division of Officer** | | **Remarks** |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | **Coordinator**  (Principal Secretary Level) | 1 |  |  | |  |
| 2 | **Nodal Officer**  (Chief Engineer Level) | 1 |  |  | |  |
| 3 | **Superintending Officer**  (Division where SPMU will be housed) | 1 |  |  | |  |
|  |  | |  | | **Technical Sections** | |
| 4 | Sr. Water Management Expert  (EE Level or higher) – 1 no. | 1 |  |  | |  |
| 5 | **Hydrologist**  (AEE Level for higher) 1 No. | 1 |  |  | |  |
| 6 | **Modeller**  (AE/AEE) 2 Nos. | 2 |  |  | |  |
| 7 | **Hydro-met Instrumentation Expert**  (AE/AEE) 2 nos. | 2 |  |  | |  |
| 8 | **Database Management Expert**  1 nos. | 1 |  |  | |  |
| 9 | **IT/ Web Designing Expert**  1nos |  |  |  | |  |
| 10 | **GIS Expert**  1 nos |  |  |  | |  |
| 11 | **Data Entry Operator**  2 nos. |  |  |  | |  |
|  |  | |  | | **Finance** | |
| 12 | **Accounts Officer**  1 nos |  |  |  | |  |
| 13 | **Asst. Accounts Officer**  1 nos. |  |  |  | |  |
|  |  | |  | | **Procurement** | |
| 14 | **Procurement Expert**  (Instrument/ IT related) 1 nos |  |  |  | |  |
| 15 | **Procurement Expert**  (Goods and Consultancy) 1nos |  |  |  | |  |
|  |  | |  | | **M & E** | |
| 16 | **MIS Expert**  1 nos. |  |  |  | |  |
| 17 | **M & E Expert**  1 Nos. |  |  |  | |  |

**Composition of SMPU-GW\***

| **Sl. No** | **Positions under NHP-SPMU** | **Name; Designation and Division of Officer** | **Remarks** |
| --- | --- | --- | --- |
| 1 | **Coordinator**  (Principal Secretary Level) |  |  |
| 2 | **Nodal Officer**  (Director) |  |  |
| 3 | **Deputy Director**  (Division where SPMU will be housed) |  |  |
|  | **Technical Sections** | | |
| 4 | **Sr. Hydro-Geologist**  1 no. |  |  |
| 5 | **Geo-physics**  1 No. |  |  |
| 6 | **GW Modeller**  2 Nos. |  |  |
| 7 | **Hydro-met Instrumentation Expert**  (AE/AEE) 2 nos. |  |  |
| 8 | **Database Management Expert**  1 nos. |  |  |
| 9 | **IT/ Web Designing Expert**  1nos |  |  |
| 10 | **GIS Expert**  1 nos |  |  |
| 11 | **Data Entry Operator**  2 nos. |  |  |
|  | **Finance** | | |
| 12 | **Accounts Officer**  1 nos |  |  |
| 13 | **Asst. Accounts Officer**  1 nos. |  |  |
|  | **Procurement** | | |
| 14 | **Procurement Expert**  (Instrument/ IT related) 1 nos |  |  |
| 15 | **Procurement Expert**  (Goods and Consultancy) 1nos |  |  |
|  | **M & E** | | |
| 16 | **MIS Expert**  1 nos. |  |  |
| 17 | **M & E Expert**  1 Nos. |  |  |

*[Attach the Government Order approving the Institutional Model]*

### Implementation Responsibilities

*[For the main Component activities indicate the entity/positions primarily responsible for carrying out Financial management support, procurement support, Planning and execution, monitoring/quality control, Use of Information (only primary users within the main sector stake holders)]*

| Component | Sub-component | Activity | Indicate the main responsible Institutions/Entities/ Positions | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Financial Management | Procurement Support | Planning and Execution | Monitoring/ Quality Control | Using the Information/ Knowledge |
| Component 1 | Sub-Component 1.1 | Activity 1.1.1 |  |  |  |  |  |
| Activity 1.1.2 |  |  |  |  |  |
| Activity 1.1.3 |  |  |  |  |  |
| Sub-Component 1.2 | Activity 1.2.1 |  |  |  |  |  |
| Activity 1.2.2 |  |  |  |  |  |
| Activity 1.2.3 |  |  |  |  |  |
| Sub-Component 1.3 | Activity 3.1 |  |  |  |  |  |
| Activity 2.2 |  |  |  |  |  |
| Activity 3.3 |  |  |  |  |  |
| Component 2 | Sub-Component 2.1 | Activity 2.1 |  |  |  |  |  |
| Activity 2.2 |  |  |  |  |  |
| Activity 3.3 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
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## PROJECT MONITORING

### Key Project Indicators to measure the success of the project

*[Mention 3-5 main results/ outcomes indicators using which the success of the project will be measured*

### Overall Monitoring Framework

*[Describe how annual plans will be prepared, who will be responsible, approval mechanism]*

| Monitoring Tasks | Frequency | Primary Responsibility | Compilation Responsibility | Approval Responsibility | Deadline for Submission |
| --- | --- | --- | --- | --- | --- |
| Annual Planning |  |  |  |  |  |
| Quarterly Progress Reports |  |  |  |  |  |
| Annual Implementation Report |  |  |  |  |  |
| Learning, sharing and monitoring workshops |  |  |  |  |  |
| Other (specify) |  |  |  |  |  |

## Ecnomomic and Finanial Analysis

[Please provide IRR for major activities such as: impact on flood, benefit of SCADA, and design of major schemes if any planned.]

## First year annual plan

### First Year Implementation Plan

First Year action plan [include main tasks to be undertaken for initiating and carrying out project activities as planned for the first year]

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. No. | Main Activities | Timeline [show bar chart against 12 months shown below] | | | | | | | | | | | | Responsibility | Remarks |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

### First Year Capacity Building Plan

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Capacity Building Event | Coverage of Topics | For Whom | Duration | Number of persons per batch | Number of Batches | By Whom | First year CB schedule | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

### First Year Procurement Plan

| Sl. No. | Contract Package Number | Contract Description | Unit | Qty/ Nos. | Estimated Price in Rs. lakhs | Procurement Method | Prior Review (Yes / No) | Planned Dates for | | | | Remarks |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Finalizing Bid Document | Inviting Bids | Bid Opening | Contract Signing |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

### First year Disbursement Plan

| Sl. No. | Disbursement Category | Projected Disbursement (Rs. Millions) | | | | | Remarks |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Quarter 1 | Quarter 2 | Quarter 3 | Quarter 4 | Total |
|  |  |  |  |  |  |  |  |