

# INTEGRATED SAFEGUARDS DATA SHEET

## IDENTIFICATION / CONCEPT STAGE

**Report No.:** ISDSC15051

**Date ISDS Prepared/Updated:** 30-Sep-2015

### I. BASIC INFORMATION

#### A. Basic Project Data

Country:	India	Project ID:	P157111
Project Name:	Strengthening FMIS Capacity in Bihar		
Team Leader(s):	Deepak Singh		
Estimated Date of Approval:	12-Nov-2015		
Managing Unit:	GSU18	Lending Instrument:	Lending Instrument
Sector(s):	General water, sanitation and flood protection sector (100%)		
Theme(s):	Natural disaster management (50%), Water resource management (50%)		
Financing (in USD Million)			
Total Project Cost:	0.475	Total Bank Financing:	0
Financing Gap:	0		
Financing Source		Amount	
South Asia Water Initiative (SAWI)		0.475	
Environment Category:	C - Not Required		

#### B. Project Development Objective(s)

The development objective of this grant fund is to strengthen Government of Bihar's institutional capacity and tools/models in operational flood forecast and inundation modeling, and community outreach for flood risk management in Bagmati-Ahwara basin, within the Ganges basin.

#### C. Project Description

The project design primarily would focus on improving the flood forecasting capacity of WRD/GoB through development of appropriate models including strengthening existing model in Baghmati-Adhwara basin, operational use of ensemble rainfall forecasts and assimilation of satellite based near-real time rainfall estimates, improving community outreach, and institutionalizing modeling capacity within the WRD.

Activity 1: operationalization and use of ensemble rainfall forecasts and satellite based near--real time rainfall estimates

Activity 2: The flood forecast model developed in FMIS2 will be extended from Hayaghat to Dumri, confluence with Kosi river

Activity 3: Setting up Open Source Distributed Flood Forecasting Models to compare and improve

modeling capacities of FMIS.

Activity 4: Community based flood risk management

Activity 5: Capacity Building, Training and Outreach

The key issues to meet Development Objectives include flood forecast modeling in a data-poor environment in a shared basin, use of free-to-use modeling software to enable scaling up in the Ganga basin, enabling community based flood management through targeted and timely flood alerts, and institutionalizing modeling capacity through trained modeling team.

#### **D. Project location and salient physical characteristics relevant to the safeguard analysis (if known)**

The TA will aim at strengthening flood modeling capacity in Water Resources Department (WRD) of Government of Bihar (GoB) to improve flood forecast in the target area of Bagmati-Adhwara basin in North Bihar. The technical activity will include: preparation of flood forecast model for the basin; effective community outreach through innovative mobile technologies; and capacity building of Water Resources Department of Government of Bihar.

The basin is highly flood prone and flood alerts based on the model will improve community and institutional preparedness and consequently help minimize loss of property and lives. No physical intervention is planned and hence no safeguard policies are triggered.

#### **E. Borrower's Institutional Capacity for Safeguard Policies**

No safeguard policies are triggered.

#### **F. Environmental and Social Safeguards Specialists on the Team**

Neha Pravash Kumar Mishra (GENDR)

Shankar Narayanan (GSURR)

## **II. SAFEGUARD POLICIES THAT MIGHT APPLY**

<b>Safeguard Policies</b>	<b>Triggered?</b>	<b>Explanation (Optional)</b>
Environmental Assessment OP/ BP 4.01	No	
Natural Habitats OP/BP 4.04	No	
Forests OP/BP 4.36	No	
Pest Management OP 4.09	No	
Physical Cultural Resources OP/ BP 4.11	No	
Indigenous Peoples OP/BP 4.10	No	
Involuntary Resettlement OP/BP 4.12	No	
Safety of Dams OP/BP 4.37	No	
Projects on International Waterways OP/BP 7.50	No	
Projects in Disputed Areas OP/BP 7.60	No	

### III. SAFEGUARD PREPARATION PLAN

Appraisal stage ISDS required?: No

### IV. APPROVALS

Team Leader(s):	Name: Deepak Singh	
<b><i>Approved By:</i></b>		
Safeguards Advisor:	Name:	Date:
Practice Manager/ Manager:	Name:	Date:

<sup>1</sup> Reminder: The Bank's Disclosure Policy requires that safeguard-related documents be disclosed before appraisal (i) at the InfoShop and (ii) in country, at publicly accessible locations and in a form and language that are accessible to potentially affected persons.