



CR 5696-IN

Supplemental Letter No. 2

**INDIA
STATE OF BIHAR**

January 20, 2016

International Development Association
1818 H Street, N.W.
Washington, D.C. 20433
United States of America

INDIA: Credit No. 5696-IN
(Bihar Kosi Basin Development Project)
Performance Monitoring Indicators

Dear Sirs and Mesdames:

We refer to: (a) Section II.A of Schedule 2 to the Financing Agreement of even date herewith between India (the Recipient) and International Development Association (the Association); and (b) Section II.A of the Schedule to the Project Agreement of even date herewith between the Association and the State of Bihar (the Project Implementing Entity).

Unless otherwise agreed with the Association, we shall monitor and evaluate the implementation of the Project in accordance with the Performance Monitoring Indicators attached to this letter.

Very truly yours,

INDIA

Uma 20.1.16

By _____
Authorized Representative

STATE OF BIHAR

By *[Signature]*
Authorized Representative

Attachment – Performance Monitoring Indicators

Public Disclosure Authorized

Public Disclosure Authorized

INDIA: BIHAR KOSI BASIN DEVELOPMENT PROJECT (P127725)

Results Framework

Project Development Objectives									
PDO Statement									
The project development objective is to enhance resilience to floods and increase agricultural production and productivity in the targeted districts in the Kosi Riv Basin, and to enhance Bihar's capacity to respond promptly and effectively to an eligible crisis or emergency.									
These results are at	Project Level								
Project Development Objective Indicators									
Indicator Name	Baseline	Cumulative Target Values							
		YR1	YR2	YR3	YR4	YR5	YR6	YR7	End Target
Area protected by improved flood protection measures (hectare)	0	0	0	500	1000	2000	3000	4500	4500
Increase in average agricultural yields in the project area by 30 percent (Percentage)	100	100	105	110	120	125	128	130	130
Increase in cropping intensity by 40 percent (Percentage)	100	100	105	115	125	130	135	140	140
Increased access of the population, to markets by roads and bridges in good and fair condition by 20 percent (Percentage)	100	103	107	110	115	120	120	120	120

Of which female farmers/excluded farmers (Number-Sub-Type: Supplemental)	50	52	53	55	57	60	60	60	60
Intermediate Results Indicators									
Indicator Name	Baseline	Cumulative Target Values							End Target
		YR1	YR2	YR3	YR4	YR5	YR6	YR7	
Direct project beneficiaries (Number million) - (Core)	0	0	0	2	3	5	7	10	10
Female beneficiaries (Percentage - Sub-Type: Supplemental) - (Core)	46	46	46	46	46	46	46	46	46
km of embankment strengthened	0	0	0	0	10	20	30	45	45
WRD staff trained to use flood management technologies (Number)	0	0	0	100	150	200	200	200	200
Farmers organized into FIGs (Percentage)	10	25	25	25	25	25	25	25	35
Female FIG members (Percentage - Sub-Type: Supplemental)	2	0	5	10	10	10	10	10	10
Farmers who have adopted an improved agriculture	0	6000	12,000	19,000	26,000	31,000	31,000	31,000	31,000

technology promoted by the project (Number) - (Core)									
Farmers who adopted an improved agriculture. technology promoted by project – female (Number - Sub-Type: Breakdown) - (Core)	0	300	600	1,000	1,400	2,000	2,000	2,000	2,000
Area provided with irrigation and drainage services (ha) Irrigated area (Ha) - (Core)	0	13,200	33,200	50,400	67,400	68,000	68,000	68,000	68,000
Area provided with irrigation and drainage services – New Irrigation Area (ha) (Hectare(Ha) - Sub-Type: Breakdown) - (Core)	0	6,600	16,600	25,200	33,700	34,000	34,000	34,000	34,000
Area provided with irrigation and drainage services - Improved Irrigation Area (ha) (Hectare(Ha) - Sub-Type: Breakdown) - (Core)	0	6,600	16,600	25,200	33,700	34,000	34,000	34,000	34,000
Water users provided with new/improved irrigation and	0	22,500	53,750	85,000	110,000	115,500	122,500	122,500	122,500

drainage services (number) (Number) - (Core)									
Water users provided with irrigation and drainage services - female (number) (Number - Sub-Type: Breakdown) - (Core)	0	2,000	4,000	6,000	8,000	9,000	10,000	10,000	75,000
People with access to linking roads and bridges in good and fair condition (Number)	0	50,000	120,000	3,000,000	5,000,000	6,500,000	7,000,000	7,000,000	7,000,000
Roads constructed, Rural (Kilometers) - (Core)	0	20	70	150	350	380	400	400	400
New bridges constructed (Number)	0	5	10	30	50	55	58	58	58
Share of rural population women farmers and socially excluded farmers, with access to an all- season road (Percentage) - (Core)	0	2	4	8	12	20	22	25	25

Indicator Description

Project Development Objective Indicators				
Indicator Name	Description (indicator definition etc.)	Frequency	Data Source / Methodology	Responsibility for Data Collection
Area protected by improved flood protection measures	Total area where agricultural production has been maintained through mitigation of flood risk. Steep increases in Cumulative Target Values beyond Year 1 are attributed to the time it takes to build capacity within the PMU and launch project activities. In addition, outcome related targets such as decrease in likelihood of flood loss are only achieved once the entire investment in flood management is complete.	Annual	Construction reports / field surveys	BAPEPS
Increase in average agricultural yields in the project area by 30 percent	Increase in yield of five main agricultural crops	Annual	Field surveys	BAPEPS
Increase in cropping intensity by 40 percent	Increase in cropping intensity for a random sampling of farms/farmers	Annual	Field surveys	BAPEPS
Increased access of population to markets by roads and bridges in good and fair condition by 20 percent	Increases access of the population to roads meeting the "good and fair condition" guidelines of the Indian Roads Congress	Annual	Field surveys	BAPEPS
Of which female farmer, socially excluded farmers	Number of females and socially excluded farmers within the overall number of beneficiaries of the roads and bridges component.	Annual	Field surveys	BAPEPS

Intermediate Results Indicators				
Indicator Name	Description (indicator definition etc.)	Frequency	Data Source / Methodology	Responsibility for Data Collection
Direct project beneficiaries	Direct beneficiaries are people or groups who directly derive benefits from an intervention (i.e., children who benefit from an immunization program; families that have a new piped water connection). Please note that this indicator requires supplemental information. Supplemental Value: Female beneficiaries (percentage). Based on the assessment and definition of direct project beneficiaries, specify what proportion of the direct project beneficiaries are female. This indicator is calculated as a percentage.	Annual	Survey reports	IAs/BAPEPS
Female beneficiaries	Based on the assessment and definition of direct project beneficiaries, specify what percentage of the beneficiaries are female.	Annual	Survey Report	IAs/BAPEPS
Km of embankment strengthened	Km of embankment that will be taken up and works completed towards protection	Annual	Survey Report	Water Resources Department
WRD staff trained to use flood management technologies	Number of WRD staff that successfully completed training in flood management technologies under the Project	Annual	WRD staff survey	Water Resources Department
Farmers organized in FIGs	Percentage of total farmers in the five targeted districts organized into FIGs (by gender)	Annual	Field surveys	Department of Agriculture
Farmers who have adopted an improved agriculture technology promoted by the	This indicator measures the number of clients of the project who have adopted an improved agricultural technology	Annual	Survey Reports	Department of Agriculture

project	promoted by the project.			
Farmers who adopted an improved agriculture technology promoted by project – female	No description provided.	Annual	Field surveys	Department of Agriculture
Area provided with irrigation and drainage services (ha) – Irrigation area (ha)	This indicator measures the total area of land provided with irrigation and drainage services under the project, including in (i) the area provided with new irrigation and drainage services, and (ii) the area provided with improved irrigation and drainage services, expressed in hectare (ha).	Annual	Field surveys and Installation Surveys	Department of Agriculture
Water users provided with new/improved irrigation and drainage services (number)	This indicator measures the number of water users who are provided with irrigation and drainage services under the project.	Annual	Field Surveys and Installation Surveys	Department of Agriculture
Water users provided with irrigation and drainage services - female (number)	This indicator measures the number of water users (female farmers / users) who are provided with irrigation and drainage services under the project.	Annual	Field survey and installation surveys	Department of Agriculture
People with access to linking roads and bridges in good and fair condition	Number of people with access to roads and bridges constructed by the project	Annual	Field survey	Rural Works Department, BRPNNL
Roads constructed, Rural	Kilometers of rural roads constructed under the project. Rural roads are roads functionally classified in various countries below Trunk or Primary, Secondary or Link roads, or sometimes Tertiary roads. Such roads are often described as rural access, feeder, market, agricultural,	Annual	Construction reports	BRPNNL and Rural Works Department

	irrigation, forestry or community roads. Typically, rural roads connect small urban centers/towns/settlements of less than 2,000 to 5,000 inhabitants to each other or to higher classes of road, market towns and urban centers.			
New bridges constructed	Number of new bridges completed under the project	Annual	Construction reports	BRPNNL
Share of rural population with access to an all-season road	Percentage of rural people in the project area who live within 2 kilometers (typically equivalent to a 20-minute walk) of an all-season road. This indicator is also known as Rural Access Index (RAI). An all-season road is motor able all year by the prevailing means of rural transport (often a pick-up or a truck which does not have four-wheel-drive). Predictable interruptions of short duration during inclement weather (e.g. heavy rainfall) are acceptable, particularly on low volume roads. Please note that this indicator requires supplemental information Supplemental Value: Number of rural people with access to an all-season road The Supplemental Value is the total number of rural people with access to an all-season road. An all-season road is a road that is motor able all year by the prevailing means of rural transport (often a pick-up or a truck which does not have four-wheel-drive).	Annual	Construction reports	R Rural Works Department & BRPNNL
Number of rural people	Please indicate the absolute number of	Annual	Project Monitoring Reports,	BRPNNL

with access to an all-season road	rural people with access to an all-season road.		MIS	
Female FIG Farmers	Based on the assessment and definition of direct project beneficiaries, specify what percentage of the beneficiaries are female	Annual	Project Monitoring Reports, MIS	DoA