



DRAFT

Ganges Proposal Development Workshop

*Increasing the Resilience of Agricultural and
Aquaculture Systems in the Coastal Areas of
the Ganges Delta*



CGIAR Challenge Program on Water and Food
Dhaka, Bangladesh
24 to 27 January 2011

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Acronyms

BARI	Bangladesh Agricultural Research Institute
BDC	Basin Development Challenge
BFRI	Bangladesh Fisheries Research Institute
BIDS	Bangladesh Institute of Development Studies
BINA	Bangladesh Institute of Nuclear Agriculture
BIRRI	Bangladesh Rice Research Institute
BWDB	Bangladesh Water Development Board
CGIAR	Consultative Group on International Agricultural Research
CIBA	Central Institute of Brackishwater Aquaculture
CIMMYT	International Maize and Wheat Improvement Center
CPMT	CPWF Management Team
CPWF	CGIAR Challenge Program on Water and Food
CSSRI	Central Soil Salinity Research Institute
EOI	Expression of Interest
ICRISAT	International Crops Research Institute for the Semi-arid Tropics
IPSWAM	Integrated Planning for Sustainable Water Management
IRRI	International Rice Research Institute
IWFM-BUET	Institute of Water and Flood Monitoring Bangladesh University of Engineering and Technology
IWM	Institute of Water Modeling
IWMI	International Water Management Institute
KAS	Knowledge, Attitude, Skills
OLM	Outcome Logic Model
PIPA	Participatory Impact Pathway Analysis
PN7	Development of technologies to harness the productivity potential of salt-affected areas of the Indo-Gangetic, Mekong and Nile River basins
PN10	Managing water and land resources for sustainable livelihoods at the interface between fresh and saline water environments in Vietnam and Bangladesh
PN35	Community-based fish culture in seasonal floodplains
TWG	Topic Working Group
SERVIR	Regional Visualization and Monitoring System
SRDI	Soil Resource Development Institute
WFC	The World Fish Center

About CPWF Phase 2

The CGIAR Challenge Program on Water and Food (CPWF) works to increase the productivity of water for food and livelihoods in a manner that is environmentally sustainable, socially acceptable, and alleviates poverty for all disadvantaged groups. The First Phase of the CPWF ran from 2003-2008, while the Second Phase will run from 2009-2013. In its Second Phase the CPWF works in six river basins (Mekong, Ganges, Limpopo, Volta, Nile, and the Andean Basins System) in the developing world. More information about the CPWF can be obtained at www.waterandfood.org.

Research in CPWF's Phase II is designed to contribute to solving an important and pressing basin development challenge (BDC). Each BDC research challenge is made up of four to five projects of which one is a coordination project responsible for fostering learning across the BDC in support of innovation and adaptive management.

The CPWF seeks to contribute to developmental outcomes and impact by ensuring quality of research and quality of process. We are explicit about the causal pathways, derived from experience and theory, by which we expect our research to lead to change. Research must be tied to a plausible causal pathway to be a priority. Research projects are expected to be proactive about moving along these pathways. We are also guided by core principles and seek to foster an evaluative culture that regularly questions assumed causal pathways, is self-critical, seeks to learn from experience and which adapts the program-of-work to emerging opportunities and threats.

The CPWF's Core Principles

Core Principles:

Capacity Building

Making change happen often requires training, capacity building, changes in knowledge, attitudes and skills

Partnership

Research won't be relevant nor research outputs put into use without partnership

Interdisciplinary integration

Real world problems are complex and multifaceted and unlikely to fall to single disciplinary research

Adaptive management

Real world problems are complex and dynamic, goal post shift, opportunities emerge. Projects, BDCs and the Program must be able to learn and 'fall forward' – be intelligent

Gender

We work to benefit women, youth, socially excluded

Accountability

We are accountable to our ultimate beneficiaries, out stakeholders, our donors and each other

Key questions for proposals arising from

Core Principles:

Capacity Building

What knowledge and skills are needed for project success? Is building them reflected in the proposal?

Partnership

Are we working with the stakeholders to ensure good science and uptake?

Interdisciplinary integration

Are we bringing the right disciplinary skills to bear?

Adaptive management

How will we spot opportunities and threats? What are the mechanisms that allow us to respond to them? How do we learn and get better? What evidence do we need?

Gender

Who are we working to benefit? Who has power and how will that likely affect outcomes?

Accountability

How do we ensure accountability to our stakeholders, including donors and each other?

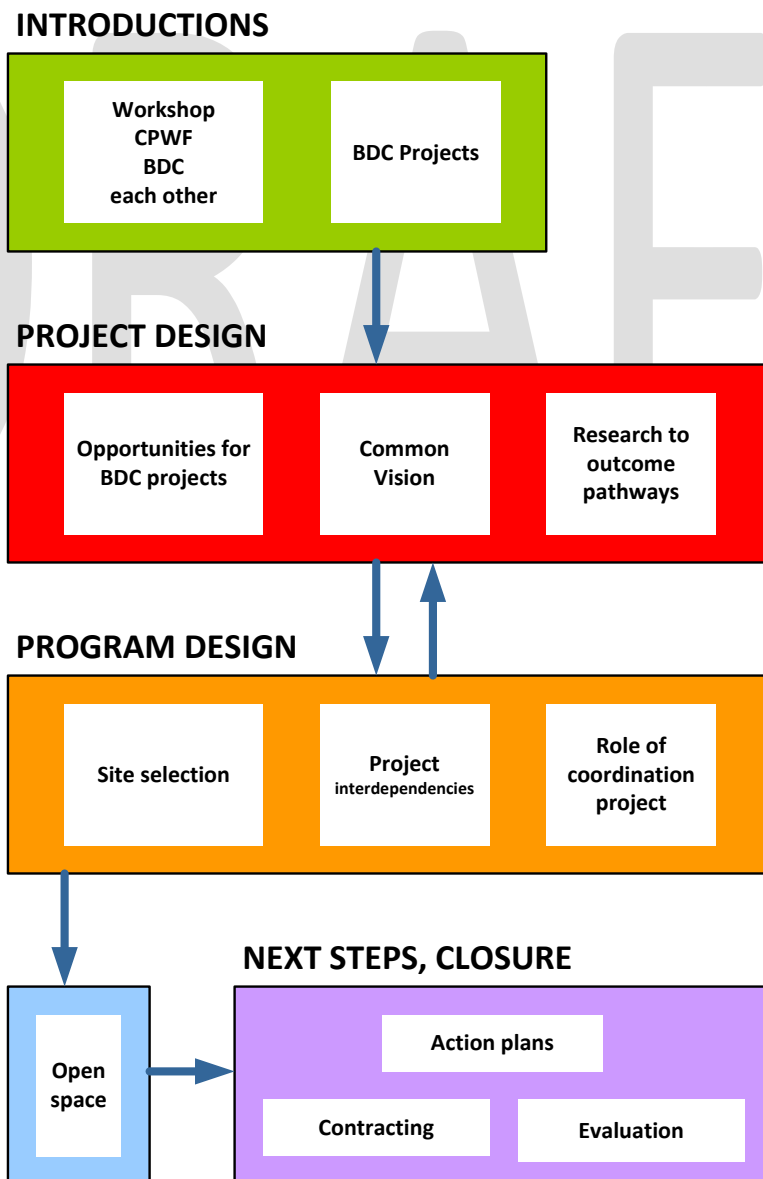
About the Workshop

Objectives

By the end of the workshop we will:

1. Have a **common understanding** of the overall BDC and its project components
 - a. Understand the roles separate projects will play and identify interdependencies with other projects
 - b. Have promoted integration between project teams, and developed a sense of belonging to the Ganges BDC and the CPWF
 - c. Be inspired and motivated by the Ganges BDC and its contribution to the global CPWF program of work
2. Have discussed, explored and identified **core project proposal components** (including outcomes, outputs, activities, indicators, core approaches, partners) in line with the CPWF planning framework
3. Understand **the CPWF contracting process and requirements**, and be clear on **next steps**

Workshop Road Map



Outputs

1. Vision for the BDC
2. Mapping of BDC project inter-linkages
3. Problem tree and related project objectives
4. Project proposal components, including activities, outputs, milestones and partner identification, outcomes
5. Project action plans to ensure proposal completion and submission

Approach

The workshop will be facilitated by a CPWF team to give time to work in project teams on project proposals and in plenary to ensure programmatic coherence.

Online Resources

[PIPA Process Online Manual](http://boru.pbworks.com/w/page/13774908/Online-manual) (<http://boru.pbworks.com/w/page/13774908/Online-manual>)

[CPWF BDC Website](https://sites.google.com/site/cpwfbdceoi/) (<https://sites.google.com/site/cpwfbdceoi/>)

What to prepare?

1. 10 minute presentation of EOI covering: links and importance of project to lead organization; methodologies; partners and their roles; and project strategies for achieving adoption of project outputs
2. Prepare and bring information pertinent to site selection
3. Encourage project teams to come with questions on CPWF in general (who we are, how we work, etc) and more specifically in terms of contracting processes and requirements

Workshop Agenda

Time	Jan 24, Monday	Jan 25, Tuesday	Jan 26, Wednesday	Jan 27, Thursday
8:30	1. OPENING SESSION Welcome remarks Intro by Participants	INTRODUCTION TO THE DAY	INTRODUCTION TO THE DAY	INTRODUCTION TO THE DAY
9:00	About CPWF & Workshop The Process Issues on the Table (free for all)	6. INTRODUCTION TO PROPOSAL FORMATS AND CONTRACTUAL REQUIREMENTS	10. EXPECTATIONS OF THE COORDINATION AND CHANGE PROJECT	13. INTRODUCTION TO TWGs
9:30	2. THE BDC IN CONTEXT The BDC in the context of the Ganges and the CPWF			
10:00	BREAK			
10:30	3. GETTING TO KNOW THE BDC PROJECTS Proj. presentations (15 min max/ proj.) Groups generate questions for others Identify linkages and gaps both within projects and across BDC	7. DEVELOPING PROJECT OUTCOME LOGIC MODELS Sorting out causal links between research, generation of outputs and the achievement of outcomes	11. SPEED DATING <i>"What I can do for you and what you can do for me"</i> Identify issues for open space	14. PROJECT PRESENTATIONS Key updates and changes since Day 1 Identify needed further work and outstanding challenges (15 min max/ proj)
11:00				
11:30				
12:00				
12:30	LUNCH			
13:30	4. IDENTIFYING OPPORTUNITIES FOR RESEARCH TO TACKLE THE BDC Identify key change areas where proj. will contribute Articulation of proj. outcomes Group feedback: opportunities – change areas, objectives/outcomes	8. GIANT GANTT CHART Identify cross project linkages and dependencies	12. PROJECT DEVELOPMENT Project teams to further refine objectives/ outcomes, activities, outputs, milestones Who are we working with: partner mapping	15. REALITY CHECK Peer feedback
14:00				
14:30				16. ACTION PLANS FOR FINALIZING PROPOSALS
15:00	BREAK			
15:30	5. PROJECT SYNERGIES AND INTERDEPENDENCIES.	9. SITE SELECTION AND SEQUENCING QUESTIONS Criteria Specifics	12. Cont. PROJECT DEVELOPMENT – OPEN SPACE	17. FINAL EVALUATION
16:00	6. OUR COMMON BDC VISION Is current BDC Vision adequate? How should it be improved?			18. ADJOURNMENT
16:30				
17:00 to 17:30	WRAP UP AND EVALUATION OF THE DAY*	WRAP UP AND EVALUATION OF THE DAY*	WRAP UP AND EVALUATION OF THE DAY*	
TBA	WORKSHOP COCKTAIL and DINNER	OPTIONAL: Contracting and compliance Q&A	OPTIONAL: Contracting and compliance Q&A	

* Including adding/ removing concerns/ questions from "question – concern wall"

Participants

#	Project	Participant	Institution	Type	Email	Phone	From
1	G1	Andrew Nelson <i>Scientist – Geographic Information Systems Specialist</i>	IRRI	CGIAR	a.nelson@irri.org	+63 (2) 580-5600 loc. 2592	PHL
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5	G2	Abdelbagi Ismail <i>Senior Scientist</i>	IRRI	CGIAR	abdelbagi.ismail@cgiar.org	+63 (2) 580-5600 loc. 2843	PHL
6	G2	Elizabeth Humphreys <i>Senior Scientist</i>	IRRI	CGIAR	e.humphreys@cgiar.org	+63 (2) 580-5600 loc. 5660	PHL
7	G5	Benoy Kumar Barman <i>Research Coordinator</i>	WFC	CGIAR	b.barman@cgiar.org		BGD
8	G2	M. Rafiqul Islam <i>Principal Scientific Officer, Plant Breeding Division</i>	BRRRI	NARES	r.islam@cgiar.org		BGD
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12	G2	Jitendra Kumar Sundaray <i>Principal Scientist and OIC, Kakdwip Research Centre</i>	CIBA	NARES	sundaray@ciba.res.in ; jsundaray@gmail.com	+919444780028 (mob)	IND
13	G3	Aditi Mukherji <i>Researcher</i>	IWMI	CGIAR	a.mukherji@cgiar.org		LKA
14	G3	Bharat R. Sharma <i>Senior Researcher</i>	IWMI	CGIAR	b.sharma@cgiar.org		IND
15	G3	M. Asaduzzaman <i>Research Director</i>	BIDS	RO			BGD
16	G3	A.K.M. Alamgir Chodhury <i>Director</i>	SocioConsult	RO			BGD
17	G3	Narayan Chandra Das <i>Research Fellow, Research and Evaluation Division</i>	BRAC	NGO	narayan.cd@brac.net		BGD

#	Project	Participant	Institution	Type	Email	Phone	From
18	G3	A.H.M. Kausher <i>Chief Engineer – Hydrology</i>	BWDB	GO			BGD
19	G4	Md. Sahir Ul-Haque Khan <i>Director, Coast Port and Estuary Management Division</i>	IWM	RO	zhk@iwmbd.org	+880 1819- 432538	BGD
20	G4	To be decided					
21	G4	To be decided					
22	G4	To be decided					
23	G4	To be decided					
24	G4	To be decided					
25	G4	To be decided					
26	G5	William Collis <i>Director, South Asia</i>	WFC	CGIAR	w.collis@cgiar.org	+880 (2) 881- 3250	BGD
27	G5	Prospective Project Leader	WFC	CGIAR			BGD
28	G5	Michael John Phillips <i>Senior Scientist</i>	WFC	CGIAR	m.phillips@cgiar.org		MYS
29	G5	Charles C. Crissman <i>Program Leader</i>	WFC	CGIAR	c.crissman@cgiar.org		MYS
30	G5	Patrick J. Dugan <i>Deputy Director General</i>	WFC	CGIAR	p.dugan@cgiar.org		MYS
31	G5	M.A. Hamid Miah <i>Liaison Scientist, Bangladesh</i>	IRRI	CGIAR	h.miah@irri.org		BGD
32	CPWF	Larry Harrington <i>Research Director</i>	CPWF	CGIAR	b.douthwaite@cgiar.org		PHL
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PHL – Philippines, USA – United States of America, BGD – Bangladesh, IND – India, LKA – Sri Lanka, MYS – Malaysia, LAO – Lao PDR

The Ganges Basin Development Challenge

The brackish water coastal zone of the Ganges is home to some of the world’s poorest and most vulnerable people, who are exposed to tidal surges, increasing surface water salinity and a rising incidence of severe cyclonic storms. With the aim of improving the livelihoods of Ganges coastal zone farmers, the CPWF research program for the Ganges Basin Development Challenge (BDC) seeks “to increase the resilience of agriculture and aquaculture systems in the coastal areas of the Ganges Delta”. Hereafter, it will be referred to as the “Ganges BDC research program”. This program is composed of five projects. The following sections describe the Ganges BDC research program and its component projects.

Target Area

The Ganges BDC research program will focus on brackish water coastal zones in the Ganges basin where agricultural lands have a maximum salinity greater than 5ppt (parts per thousand) in the dry season. Salinity levels are lower in the wet season.

In Bangladesh the target area will cover two Divisions: Barisal and Khulna. In Barisal Division, work will be conducted in Patuakhali, Barguna, Jhalakati, and Pirojpur Districts. In Khulna Division, work will be conducted in Khulna and Satkhira Districts. For two of the five projects, the target area will also include East Medinipur, Haora, North 24 Pargana, and South 24 Pargana Districts of the coastal zone of West Bengal, India. The inclusion of India will offer opportunities for cross country learning in technology development and institutional arrangements, for example, for managing conflicts between shrimp and rice.

For the most part, the Ganges BDC research program will work in areas where there is already some level of water control, that is, within the polders of coastal Bangladesh. In two projects, however, work will also cover salt-affected areas outside of polders. These are largely located in India. The target area will exclude the Sundarbans. Figure 1 shows the location of the target area.

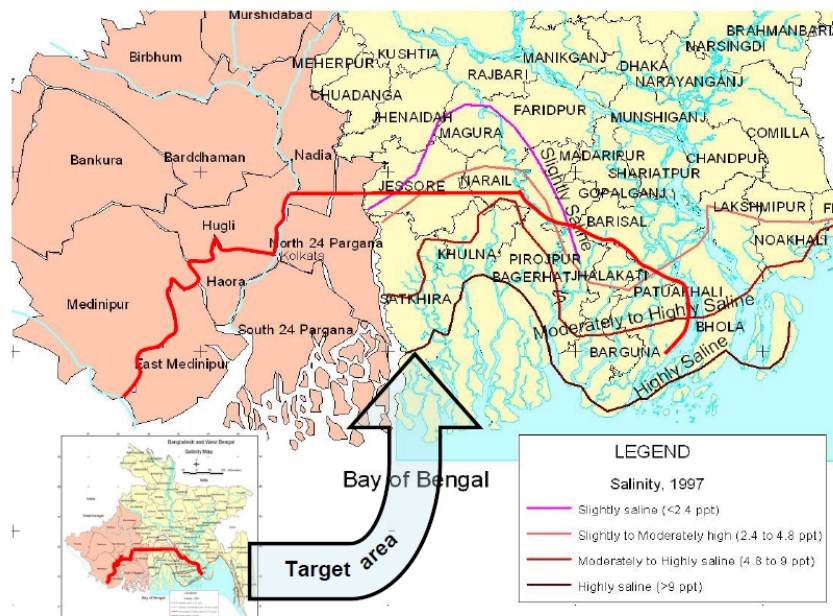


Figure 1: Target area (below the red line, and excluding the Sundarbans) of the Ganges BDC R4DP

Vision of Success

It is envisioned that after 10 years, BDC research program outputs will reach more than one million households. Favorable impacts will be generated with regard to agricultural production, rural livelihoods, policy coordination and implementation, and the environment. Quantitative and qualitative impact indicators will be defined during the development of an “outcome logic model” or OLM for the BDC research program.

Improved availability of dry season water, and improved practices for managing salt-affected lands, will result in intensification and diversification of farm systems. There will be at least a 50% increase in the production of dry season boro rice, high-value non-rice crops, and shrimp and fish. Yields of existing crops will increase as farmers improve their capacity to cultivate salt-affected lands. These changes will represent a substantial improvement over current production systems which often are restricted to a single low-yielding rainy season rice crop.

Intensification and diversification of production systems will lead to substantial increases in farm income. By nearly doubling rice production, food security will be improved, especially during the “hungry period” immediately before the harvest of the wet season rice crop. This will especially benefit disadvantaged groups, such as the landless poor, or poor families with very small farm holdings, who are net food purchasers. By introducing high-value non-rice crops, and aquaculture, opportunities will emerge for improvements in nutrition as well as increased cash income for farm families.

Diversification of production systems will generate employment opportunities, which will benefit the landless and those with very small land holdings. Women will be consulted in the development of employment opportunities so that some of these opportunities will be designed to meet women’s interests and needs.

A major issue to be addressed by the BDC research program is water governance. Governance innovations will be designed to increase the involvement of disadvantaged groups in community decision-making, such as the landless poor, women, and young people. Another major issue to be addressed is that of policy implementation and coordination.

Outputs from the BDC research program will to inform decisions on implementation of policies related to water management. Research outputs will result in increased co-investment in resource management by more stakeholders; and improved cross-sectoral policy coherence and coordination.

Finally, improved production systems will benefit the environment. Production systems will produce fewer negative externalities and will be more resilient to perturbations, including climate change.

Complementarities and Uniqueness

The Ganges BDC research program is designed to build on the achievements of other completed or on-going initiatives in coastal areas of the Ganges. In particular, it will take three streams of innovation, integrate them into coherent strategies, and then scale out these strategies to a wide range of polder categories and land types.

The first stream of innovation is on water management and water governance in polders. The research program will build on the work of the Bangladesh Water Development Board (BWDB), and partners, on “Integrated Planning for Sustainable Water Management (IPSWAM)”. Special attention will be given to overcoming conflicts between boro rice and upland crops, and between rice and shrimp, through community water management initiatives.

The second stream of innovation is on the development of institutions for community-based resource management. The research program will build on the work of CPWF Phase 1 project PN35.

The third stream of innovation is on crop management practices for salt-affected lands. The research program will build on the work of CPWF Phase 1 projects PN 10 and PN 7 on increasing opportunities for cropping intensification. Some of these opportunities emerge from the availability of new crop varieties with short duration and enhanced tolerance to abiotic stresses (salinity, submergence, and drought). These have been developed by BRRI, BINA, IRRI, CIMMYT, BARI, ICRISAT, and partners. Through co-investment with BWDB, the program will test new cropping systems, and field and farm technologies in rehabilitated polders. Work will also be conducted in areas without polders in India.

The program will not include polder rehabilitation or other major investments in infrastructure, neither “dredging” of big rivers such as the Gorai, or capture fishery in rivers (outside polders) as these are on-going initiatives by other organizations.

The Ganges BDC research program will work at multiple scales. Agriculture and aquaculture technologies will be tested at the field/farm scale; work on water governance and management will be carried out at the community and polder scale; and land use planning and extrapolation domain identification will be conducted at the regional scale. Because the program will feature integrated strategies and mechanisms for policy implementation and coordination across scales it will use multi-disciplinary teams.

Goal

Reducing poverty and improving regional social-ecological resilience, through improved water governance and management, and intensified and diversified agricultural and aquaculture systems in brackish water of the coastal Ganges.

Objectives

The overall objective of the Program is to improve resource productivity and increase the resilience of agriculture and aquaculture systems in brackish coastal areas of the Ganges.

Specific objectives include:

- To establish a geo-referenced data base for the coastal zone of Bangladesh and to facilitate out-scaling of technologies through identification of target domains and land use planning
- To develop and introduce resilient agriculture/aquaculture production systems in the coastal zone of Bangladesh and India for the benefit of poor households
- To improve water governance and management for resilient production systems
- To assess the impact of anticipated external hydrology changes on water resources in the coastal zone of the Ganges
- To enhance impacts in Bangladesh and India through stakeholder participation, policy dialogue and effective coordination among other Government, NGO’s, CGIAR and donors sponsored projects and programs in the Ganges BDC research Program

The BDC Projects for the Ganges Basin

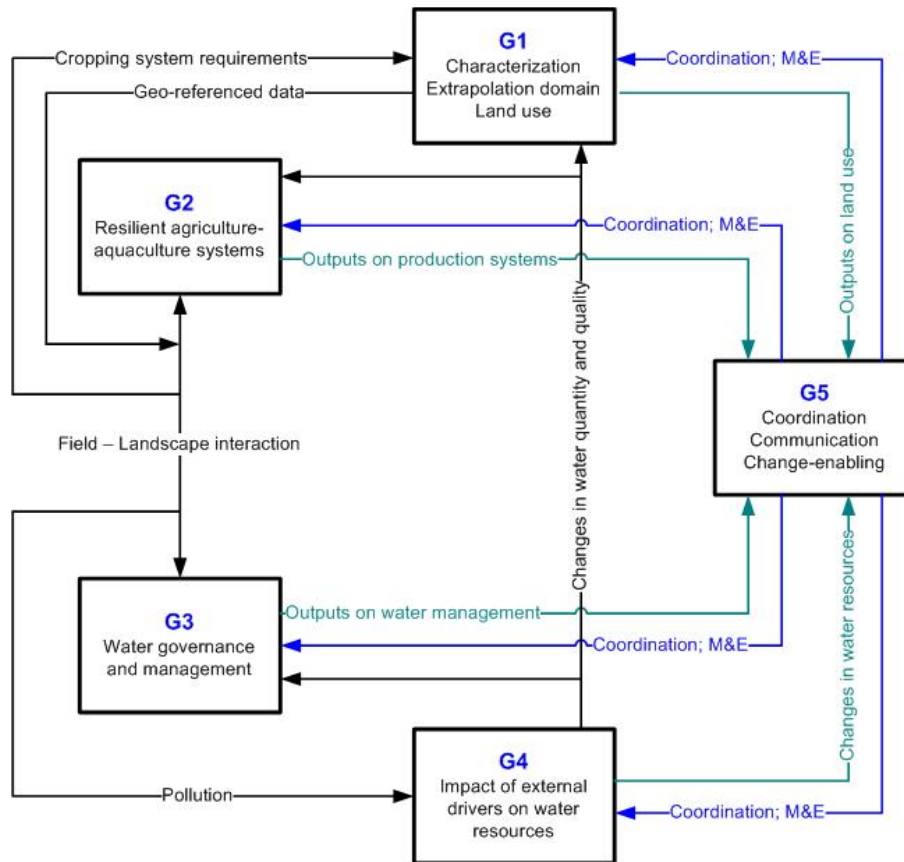
Research on the Ganges Basin Development Challenge is divided into five inter-related projects. Each project will address one specific objective:

- Project G1. Resource profiles, extrapolation domains and land-use plans
- Project G2. Resilient intensified and diversified agriculture and aquaculture systems
- Project G3. Water governance and community-based management
- Project G4. Assessment of the impact of anticipated external drivers of change on water resources of the coastal zone
- Project G5. Coordination and change-enabling project

All five projects have relevance to the brackish water coastal zone of Bangladesh where polders are used for water control. Two projects (G2 and G5) will also feature research in India in areas without polders.

Functional links across the projects

The five projects are interrelated; the synergy among the projects will ensure the outcomes and impacts that are more than the sum of the parts. The interdependencies among the projects are described in the Figure below. The links will be described in more details in the description of individual projects.



Contracting Information and Checklist

Key Links

[CPWF Monitoring and Evaluation Manual](https://sites.google.com/a/cpwf.info/m-e-guide/home) (<https://sites.google.com/a/cpwf.info/m-e-guide/home>)

[CPWF Handbook](https://sites.google.com/site/cpwfhandbook/) (<https://sites.google.com/site/cpwfhandbook/>)

Contracting Documents

- Award Letter
- Attachment 1: Schedule of reports and payments
- Annex 1: CPWF Standard Clauses and Procedures
- Annex 2: Project Proposal
- Annex 3: Milestone Plan with indicators and corresponding Outcome Logic Model
- Annex 4: Gantt Chart (Project Schedule)
- Annex 5: Third Party Intellectual Asset Audit
- Annex 6: Budget
- Annex 7: Memorandum of Understanding with Partners

Contracting Timeline

29 November 2010	Deadline for submission of EOIs to CPWF management team (CPMT)
17 December 2010	Decisions and comments on EOIs sent to lead organizations
24-27 January 2011	Ganges Proposal Development Workshop
14 February 2011	Deadline for project proposals to be submitted for external review
14 March 2011	Decisions and comments communicated to lead organizations
April 2011	Projects contracted

General Information

1. Visa

Participants are advised to apply for a visa in Bangladesh Embassies/ Consulates in their respective country.

2. Venue

The meetings will be held at:

Hotel Lake Castle

House # 1A, Road 68/A, Gulshan 2, Dhaka, Bangladesh

Tel No.: 0088 (02) 8812812, 8814137, 8829503, 8816186-90

Fax No: 0088 (02) 9884675

Website: www.hotellakecastle.com

3. Hotel Accommodation and Airport Transfers

Delegates from overseas have been booked on a conference package at the Hotel Lake Castle, which covers bed and breakfast for the conference days. Delegates should settle all extras (e.g., telephone calls, internet, fax, laundry, room service) directly with the hotel staff.

Airport transfer will be arranged. Please give your flight details to Bing Bayot (r.bayot@cgiar.org).

4. Workshop Cocktails and Dinner

There will be a Welcome Cocktails and Dinner for all the participants on 24 January 2010.

5. Insurance

Participants are advised to ensure that they have their own travel, medical, life and other insurance.

6. Contact Information

All inquiries regarding logistics and arrangements should be referred to:

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