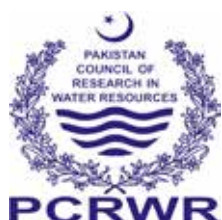


## Workshop Report

# Sustainable Development Investment Portfolio, Phase II, Partnership Workshop



# About ICIMOD

The International Centre for Integrated Mountain Development, ICIMOD, is a regional knowledge development and learning centre serving the eight regional member countries of the Hindu Kush Himalayas – Afghanistan, Bangladesh, Bhutan, China, India, Myanmar, Nepal, and Pakistan – and based in Kathmandu, Nepal. Globalisation and climate change have an increasing influence on the stability of fragile mountain ecosystems and the livelihoods of mountain people. ICIMOD aims to assist mountain people to understand these changes, adapt to them, and make the most of new opportunities, while addressing upstream-downstream issues. We support regional transboundary programmes through partnership with regional partner institutions, facilitate the exchange of experience, and serve as a regional knowledge hub. We strengthen networking among regional and global centres of excellence. Overall, we are working to develop an economically and environmentally sound mountain ecosystem to improve the living standards of mountain populations and to sustain vital ecosystem services for the billions of people living downstream – now, and for the future.



ICIMOD gratefully acknowledges the support of its core donors:  
the Governments of Afghanistan, Australia, Austria, Bangladesh, Bhutan,  
China, India, Myanmar, Nepal, Norway, Pakistan, Switzerland, and  
the United Kingdom.

Workshop Report

# Sustainable Development Investment Portfolio, Phase II, Partnership Workshop

April 2017, Islamabad, Pakistan

The workshop was organized through ICIMOD Indus Basin Initiative and supported by the Australian Government's Department of Foreign Affairs and Trade through Sustainable Development Investment Portfolio.

International Centre for Integrated Mountain Development, Kathmandu, Nepal, May 2017

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The workshop was organized through ICIMOD Indus Basin Initiative and supported by the Australian Government's Department of Foreign Affairs and Trade through Sustainable Development Investment Portfolio. This document summarizes the workshop based on the individual presentations, group work and results of the panel discussions.

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# Acronyms and Abbreviations

ACIAR	Australian Centre for International Agricultural Research
ADB	Asian Development Bank
AKAH	Agha Khan Agency for Habitat
AKRSP	Agha Khan Rural Support Programme
CBFEWS	Community Based Flood Early Warning Systems
CSIRO	Commonwealth Scientific and Industrial Research
DEM	Digital Elevation Model
DFAT	Department of Foreign Affairs and Trade, Government of Australia
DG	Director General
EWS	Early Warning Systems
GB	Gilgit-Baltistan
GBC	Gilgit-Baltistan and Chitral
GB-DMA	Gilgit-Baltistan Disaster Management Authority
GLOF	Glacier Lake Outburst Flood
LEAD	Leadership for Environment and Development
HI-AWARE	Himalayan Adaptation, Water and Resilience
HICAP	Himalayan Climate Change Adaptation Programme
HIMAP	Himalayan Monitoring and Assessment Programme
HKH	Hindu Kush Himalaya
HYCOS	Hydrological Cycle Observing System
IBI	Indus Basin Initiative
ICIMOD	International Centre for Integrated Mountain Development
IPCC	Intergovernmental Panel on Climate Change
IWMI	International Water Management Institute
IWRM	Integrated Water Resources Management
KADO	Karakorum Area Development Organization
KIU	Karakorum International University
MARC	Mountain Agricultural Research Centre
MoU	Memorandum of Understanding
PCIW	Pakistan Commissioner for Indus Waters
PARC	Pakistan Agricultural Research Council
PCRWR	Pakistan Council of Research in Water Resources
PMD	Pakistan Meteorological Department
RBP	River Basin Programme
RMV	Resilient Mountain Villages
SDIP	Sustainable Development Investment Portfolio
SDIP II	Sustainable Development Investment Portfolio, second phase
UIB	Upper Indus Basin
UIBN	Upper Indus Basin Network
WAPDA	Water and Power Development Authority
WMO	World Meteorological Organization
WWF	World Wide Fund for Nature
WWF-GB	World Wide Fund for Nature – Gilgit-Baltistan

# Executive Summary

On 2 March, 2017, Indus Basin Initiative (IBI) of ICIMOD in partnership with Pakistan Council of Research in Water Resources (PCRWR) and World Wide Fund for Nature, Gilgit Baltistan (WWF-GB) organized a partnership workshop to prepare a detailed plan of IBI for the second phase (2017-2020) of Sustainable Development Investment Portfolio (SDIP II) in Islamabad, Pakistan.

The workshop was successfully conducted with more than 50 participants including high ranking officials from the Government of Pakistan and Australian Government, researchers, academicians, development practitioners, development partners and knowledge experts from both the government and non-government sectors. The workshop was aimed at concretizing ideas generated during a previous workshop organised on 4 August 2016 jointly by ICIMOD, PCRWR and WWF-GB, and the event led the initiative towards developing partnerships in the Indus Basin.

Through the SDIP, supported by the Department of Foreign Affairs and Trade (DFAT), the Government of Australia, ICIMOD aims to improve regional evidence-based knowledge on critical challenges faced by transboundary river basins in the Hindu Kush Himalaya (HKH) and offer solutions through a river basin approach.

During the March 2017 workshop, the participants shared that the event helped to create a good platform for them to prepare detailed implementation plans for SDIP II. They explained that the challenges in the Indus basin are quite complex, one of the key problems was the knowledge gaps. The workshop had helped to facilitate direct communication between researchers and policy makers.

One of the key outcomes of the workshop was to encourage active interaction between participants from diverse professional and thematic backgrounds. As a result, comprehensive implementation plans have been prepared. The technical sessions of the workshop highlighted on pathways for change and gender integration in SDIP-II. The participants had group discussions and they presented on proposed activities for 2017.

## About SDIP

ICIMOD's investment strategy for engagement in SDIP II focuses on ICIMOD's river basin programme, covering three major transboundary basins namely, Indus, Ganga (Koshi) and the Brahmaputra. Through SDIP II, the river basin program intends to address the challenges and offer opportunities on critical issues by generating regional knowledge and feeding them into regional networks and forums while promoting science diplomacy in policy processes. In the four-year period (Mid 2016-2020), the Indus Basin Initiative aims to generate substantial knowledge that can be used by countries, regional networks and development partners in the three river basins, and promotes improved cooperation for river basin management for better livelihoods of people in these three transboundary rivers.

One of ICIMOD's key partners WWF-GB facilitated agricultural water, energy and hazard management pilot project during the first phase of SDIP. Community-based pilot initiatives were done to enhance resilience among local mountain communities, primarily by testing for the implementation of socio-culturally feasible, environmentally acceptable and economically viable technological adaptation innovations, in water resource management for livelihood, energy, and hazard management.

During the first phase of SDIP (2013-2016), the Upper Indus Basin Network (UIB Network) was formed with the aim of promoting coordination and collaboration among organizations working in the Upper Indus Basin for improved understanding of the present and future water availability, demand, and hazards and to develop solutions for various stakeholders from local to national and international levels. The network is supported by many organizations in Pakistan including Pakistan Meteorological Department (PMD), Water and Power Development Authority (WAPDA), WWF-Gilgit Baltistan and International organizations such as University of Bonn, Ev-K2-CNR,

etc. UIB Network collaborates with key national networks and forums such as the Indus Forum, which has been working towards linking evidence-based research with national policy in Pakistan.

The second phase of SDIP is expected to increase the availability of knowledge on climate change and its consequences on water resources in the basin for policy support and dialogue for the future Resilient Mountain Villages (RMV). This knowledge is expected to be generated by involving national and international strategic partners by using UIBN platform that will be utilized for dialogue with provincial governments.

SDIP II will focus on three key areas: 1) Developing basis and mechanisms for regional cooperation; 2) Creation and use of critical/cutting edge new knowledge; and 3) Scaling up the best practices, capacity development and innovations for piloting the idea of RMV.

# Chapter 1: Inaugural Session

Welcoming the participants, Abdul Wahid Jasra, Country Representative of ICIMOD Pakistan shared that the key objectives of workshop was to develop and forge new partnerships and develop the detail implementation plan of SDIP Phase-II in Pakistan.

## Key messages from the speakers

### **Yusuf Zafar, Chairman, Pakistan Agricultural Research Council**

Pakistan's mountainous areas are most vulnerable. Community-based adaptation initiatives are most effective for the Hunza area. But these are not replicable in other parts of the Gilgit-Baltistan because the climate and socio-economic factors vary spatially. Pakistan Agricultural Research Council has been working on mountainous agricultural research with ICIMOD for decades and it will continue supporting ICIMOD's initiatives in Hunza and Gilgit-Baltistan.

### **Muhammad Ashraf, Chairman, Pakistan Council of Research in Water Resources**

There is a need for regional cooperation. Multi-sectorial and multi-dimensional approach should be adopted. The only difference between the first and third worlds is knowledge. There is a need to synthesise knowledge by adopting the best management practices and modifying these according to local conditions.

### **Rab Nawaz, Senior Director (Biodiversity), WWF-Pakistan**

WWF signed an agreement with ICIMOD for the first phase of SDIP activities in Upper Indus Basin. It also signed subcontracts with the relevant implementation partners based on their strength. In SDIP II, WWF will work on energy management with more focus on local hydropower plants.

### **Arun Bhakta Shrestha, Regional Programme Manager, River Basins, ICIMOD**

Under first phase of SDIP, studies were done on cryosphere and glacier debris dynamics and their impacts, as well as a relation with Karakorum Anomaly, and precipitation variations. Several initiatives like community-based GLOF monitoring, community-based flood early warning systems, agricultural water management and improved agricultural practices and household energy management are being implemented through a strong partnership-based consortium to enable environment through innovation. The SDIP II consists of three components with broader areas: a) Develop basis and mechanisms for regional cooperation; b) Creation and use of critical new knowledge; c) Promoting best practices, capacity development and innovations. A regional multi-scale system for the disaster



risk reduction like regional flood outlook will be developed. One of the key focus in SDIP II will be on gender integration in the river basin initiatives.

### **Ghulam Rasul, Director General, Pakistan Meteorological Department**

There is a knowledge gap and lack of collaboration between organizations working in Upper Indus Basin. ICIMOD is playing a key role in filling these gaps using partnership consortium approach. PMD in partnership with ICIMOD has been monitoring the basins in Khyber Pakhtunkhwa and Gilgit-Baltistan, but this has not yet to be done on a large scale. The plans for monitoring on a sub-basin scale is under process. Another important issue that we need to stop highlighting is on the 1 percent glaciers of 'Karakoram Anomaly,' but focus more on the 99 percent of glaciers which are retreating. We should divert the attention of the policy makers from Karakoram Anomaly to conserving the water resources.

### **Mandira Shrestha, Programme Coordinator, HYCOS Initiative**

There is need of regional cooperation for knowledge and experiences sharing to tackle climate induced disasters. ICIMOD has been working with Federal Flood Commission (FFC), PMD and WAPDA for flood monitoring. For better preparedness and mitigation innovative tools and state of the art technology is required. In SDIP II, prominent attention will be given to knowledge generation and its transfer to practice.

### **David Preston, First Secretary Development Cooperation, Australian High Commission**



The glaciers in the eastern Himalayas are retreating while in the southern Karakoram, these are advancing. There is need to study the changes in glaciers of Pakistan as its economy depends on waters of these glaciers. Australian Centre for International Agricultural Research (ACIAR) has launched water program of worth 12 million dollars in Pakistan. This program will promote strategic cooperation, problem solving and innovations. Australian Government is also financially supporting Asia Foundation in Pakistan that is facilitating the regional cooperation, creation, and use of critical knowledge, and promoting best practices in Indus Basin

### **Abdul Wahid Jasra**

Highlights of ICIMOD's partnership with support from DFAT in Pakistan:

- Karakorum International University conducted the situational analysis and baseline survey of the pilot villages
- PCRWR in partnership with WWF started an agricultural project in Upper Gojal, Hunza and Gilgit-Baltistan to rehabilitate the glacier-fed irrigation channel to bring Shahabad area under irrigation, and to facilitate Gulkin community relocation. Two solar-powered river water lifting systems coupled with the drip irrigation systems have been installed in Passu and Morkhun.
- Agha Khan Agency for Habitat (AKAH) developed the community watch groups for the community-based Glacier Lake Flood Outburst (GLOF) monitoring in four villages of Upper Gojal.
- The Gilgit-Baltistan Forest department has installed irrigation pipe network along the seabuckthorn plantation in Passu from own resources.
- Gilgit-Baltistan Disaster Management Authority has established a committee to monitor the success of Community Based Flood Early Warning Systems

# Chapter 2: Technical Sessions

## Session 1: Change Pathway in SDIP II

### Arun Bhakta Shrestha

Arun Bhakta Shrestha highlighted on the Change Pathway of ICIMOD's program in SDIP Phase II. He explained that the theory of change is associated with actions, their outcomes and intermediary results.

### Key messages:

The outputs of three components of SDIP Phase II will bring three intermediary results:

- Evidence-based knowledge including Himalayan Monitoring and Assessment Programme (HIMAP) for development practitioners and policy makers. This will be achieved by strengthening the UIBN, joint knowledge development and sharing.
- Improved understanding of climate change, climate variability, and its impacts on women, men, vulnerable groups, and the environment to support the development of adaptation-related policy and practices.
- Adaptive capacity of women and men built for risk related to both the environmental and socio-economic changes will be enhanced

The overall outcome will be actionable proposals for IWRM practices and policies that will achieve the ultimate goal of ICIMOD's River Basin Management Programme.

## Session 2: Gender Integration in SDIP II

### Pranita B. Udas, Gender, Water and Adaptation Specialist

Pranita B. Udas highlighted on integrating gender in SDIP II.



## Key messages

- Under component 1 of SDIP II, a gender network and knowledge hub will be established to promote regional cooperation
- Under component 2, gender will be integrated into the planned activities like community-based flood early warning system. Similarly, action research will be conducted on gender opportunities and challenges on in the water-food-energy nexus in the changing climate context
- Under component 3, gender-responsive knowledge systems will be identified and promoted that will provide solutions for empowering women and disadvantaged groups to inform on policies and programs
- The gender integration into planned activities consists of four steps: a) Action research on gender opportunities and challenges in the water-food-energy nexus in the changing climate context; b) conceptualization of research problem, elements for action research; c) stocktaking from earlier work to design research; and d) research activities



# Chapter 3: Group Work and Presentations

With an aim to discuss plans and implementation of SDIP II activities for 2017, the participants were divided into three groups with specific focus as follows:

## Group 1: Developing basis and mechanisms for regional cooperation

- The group planned on establishing network of institutions and individuals working on gender, water, energy, food and climate change. Developing knowledge on gender and inclusive development through a regional network was one of its key focus. The plan would include identifying networks to create a platform to address these issues, develop a website-sharing regional database and promote dialogues among the partners. The lead organisations nominated are LEAD Pakistan, ICIMOD and SEPLAA Enterprises with inputs from Reading Projects of USAID.
- The group also discussed on developing the Indus flood outlook. The first activity identified was to select the basins for flood outlook. Chenab basin was suggested considering heavy loss of lives and damage to property and infrastructure due to flooding in the past. The second activity is to collect available hydrological and meteorological data, and data on infrastructure and rating curves from relevant organizations. In 2017, preliminary hydrological models would be developed as a step towards developing the flood outlook. The lead organisations include FFC, PMD, WAPDA and ICIMOD and PCIW.

## Group 2: Creation and use of critical new knowledge

- Conduct study of climate change impacts on monsoon patterns and glacial melt behaviour in high mountains of GB and Chitral. Assessments will be done on past changes in summer monsoon circulation patterns in the South Asian context with particular reference to climate impact on water in UIB, Pakistan. Future scenarios on monsoon circulations will also be developed. Hydrological modelling of river and streams will be developed based on future scenarios. The lead organisations include PARC, PMD, and WAPDA.
- Use existing knowledge on climate change in UIB, impacts and implications on water including studies by private sectors. Collect and systematically review existing knowledge focusing on Karakoram Anomaly (eg, linkages, drivers, impact on water resources) and identify, analyse and synthesize knowledge gaps. The recommendations will be made to fill those gaps. The lead organisations are EvK2CNR, PARC, PCRWR, PMD and WAPDA.
- Action research on gender differential challenges and opportunities in water, food, energy nexus in the changing climate context. Conceptualise action research and identify interventions. The lead organisations are AKAH, AKRSP and WWF.

## Group 3: Promote best practices, capacity development and innovations to contribute towards creating an enabling environment

- Piloting of community-based flood early warning system (CBFEWS) in UIB. This is done in two ways – (1) continuation of the existing activity on CBFEWS, and (2) installation of new CBFEWS with telemetry.
  - For the continuation of the existing CBFEWS, the following activities were proposed: training to the local communities on early warning system, pre-installation survey, upgrade existing system, data collection and initiate a joint research paper
  - For the installation of CBFEWS with telemetry, the following activities were proposed: scoping and selection of river tributaries; selection of sites for the installation of transmitter and receiver units of CBFEWS; selection of care takers; establish a community network for information dissemination; hands on training



on installation of CBFWEWS; capacity building; apply for Project Cycle 1 (PC1) for the sustainability; and outscaling of the pilot project by GB government in other river tributaries.

- The lead organisations are GBDMA, AKAH, WWF and ICIMOD
- Manage agricultural water and hazard with demonstration of water and energy, efficient irrigation system and vegetative measures to control riverbank erosion. The activities proposed are:
  - develop evaluation designs and establish baselines, specifically look into gender aspect of intervention;
  - conduct impact evaluations, upscale ongoing successful interventions, select sites for plantation of sea buckthorn for erosion control in waterways and for the demonstration of efficient micro irrigation by pumping river water with solar pump;
  - build community based permaculture demonstration farms;
  - energy efficient stoves and household solar and wind power prospects;
  - upscaling of bio briquettes to empower women;
  - The lead organisations are AKAH, AKRSP, Forest, GBDMA, ICIMOD, KADO, LEAD, MARC, PARC, PCRWR, PARC, and WWF
- Lessons learned from ongoing and previous projects in UIB on agricultural water and hazard management, and energy, high-value crops and micro credits. Synthesize technical literature review of the successful initiatives like solar-powered drip system, piped water supply, and micro-crediting for agriculture. The team also proposed to review literature of existing knowledge systems, conduct community-based dialogues, find opportunities for women on various climate change-related initiatives and develop gender network.

(For more details of the group work, please refer to Annex 1)

# Chapter 4: Way Forward

## Arun Bhakta Shrestha

- The workshop has shaped the implementation plan as a result of the previous meeting on 4 August 2016 to a comprehensive implementation plan.
- The implementation plan developed by the participants is preliminary, and activities will be finalized as per the budget available with the River Basin Management. However, other programs will also be taken on board for the rest of the activities as resources are very important to take into account all the ideas shared by the participants.
- Based on the recommendations of participants, ICIMOD will hold meetings with new partners when needed.
- The implementation plan and detailed workshop report will be shared with participants upon completion.
- The focal persons of different activities under SDIP phase were recommended:
  - Arun Bhakta Shrestha: Creation and use of critical new knowledge (mostly related to climate change impact studies etc.)
  - Madhav Dhakal: Agricultural water management project
  - Mandira Shrestha: Regional flood outlook
  - Naresh Newar: Documentations of lessons learned
  - Neera Pradhan Shrestha: Community Based Flood Early Warning Systems
  - Pranita B. Udas: Gender integration into SDIP phase-II



# Vote of Thanks

## Babar Khan

WWF's Babar Khan thanked Chairman of PARC - Yusuf Zafar, Chairman of PCRWR - Muhammad Ashraf, Director General of PMD - Ghulam Rasul, Senior Director of WWF - Rab Nawaz, ICIMOD's Mandira Shrestha from ICIMOD and Australian High Commissioner in Pakistan - David Preston.

He also thanked participants from both public and private organizations for presenting their implementation plans of the SDIP II. He also thanked ICIMOD team for visiting Pakistan and contributing towards making the workshop a success. He also gratefully acknowledged the valuable participation of the Federal and Provincial Governments representatives from PMD, WAPDA, PCRWR, Planning and Development Division of Gilgit-Baltistan, Gilgit-Baltistan Disaster Management Authority, and Gilgit-Baltistan Forest Department.

He thanked the presence of all participants from Gilgit-Baltistan and Lahore to make the workshop successful. He also appreciated the efforts of facilitators of the event from PCRWR team, ICIMOD Pakistan Office, WWF- GB Office and PCRWR team. He also offered thanks to Pakistan Country Representative Abdul Wahid Jasra for his guidance and support.



# Annex 1: Group Work and Implementation Plans

Component/ Outcome	Activities	Sub activities	Deliverables	Lead Organization
1. Developing basis and mechanisms for regional cooperation	1.1: Establish a gender network of institutions and individuals working on gender, water, energy, food and climate change. Knowledge on gender and inclusive development (regional network)	1.1.1 Identification of networks that can be included on a joint platform to cover climate change adaptation	Stocktaking report	ICIMOD
		1.1.2 Networking meeting to get stakeholders on board	-Consensus paper on modalities - Platform for operation of network	Anam SEPLAA Enterprises
		1.1.3 Website development to get regional database on existing networks	Concept document: Year 1 Web launch Year 2	
		1.1.4 Conducting dialogue of network partners	One meeting/dialogue	
	Activity 1.2: Indus flood outlook	1.2.1 Identify and select basins	1st quadrimester, Year 1	PMD & WAPDA
		1.2.2 Collection of data (hydro-meteorological as well infrastructure)	2nd quadrimester, Year 1	PMD and WAPDA (PCIW) and FFC
		1.2.3 DEM	3rd quadrimester, Year 1	PMD & WAPDA
		1.2.4 Preliminary hydrologic model developed	3rd quadrimester, Year 1	ICIMOD
		1.2.5 Extension of MoU		FFC
2. Creation and use of critical new knowledge	Activity 2.1: Study on climate change impacts on monsoon patterns and glacial melt behavior in high mountains of GB and Chitral	2.1.1 Assessment of past changes in summer monsoon circulations patterns in South Asian context (with particular reference to climate impacts on water in UIB, Pakistan)	Year 1	PMD with WAPDA & PARC in supporting role
		2.1.2 Development of future model-based scenarios in monsoon circulations	Year 2	PMD with WAPDA & PARC in supporting role
		2.1.3 Hydrological modeling of river and streams based on future scenarios	Year 1	PMD with WAPDA & PARC in supporting role
	Activity 2.2: Stocktaking of the existing knowledge on climate change in UIB, impacts, and implications on water including studies by the private sectors	2.2.1 Collect and systematically review existing knowledge focusing on Karakorum (plus) anomaly (linkages, drivers, consequences in terms of water), (analyze, synthesize, identify knowledge gaps and recommendation to fill the gaps)	Year 1	KIU with support of PMD, ICIMOD, PCRWR, EvK2CNR
	Activity 2.3: Action Research on: gender differential challenges and opportunities in water, food, energy nexus in the changing climate context	2.3.1 Conceptualisation of action research (identify interventions)	Year 1	WWF with support of AKRSP, AKAH
		2.3.2 Conduct gender analysis in the on-going adaptation intervention.	Year 2	

3. Promoting best practices, capacity development and innovations to contribute to the creation of an enabling environment	3.1: Piloting community-based flood early warning system in UIB (upgrade existing EWS and install new)	Existing CBFEWS: 3.1.1 Hands-on Training	1st quadrimester, Year 1	GBDMA/AKAH/ WWF/ICIMOD
		3.1.2 Pre-installation survey	1st quadrimester, Year 1	GBDMA/AKAH/ WWF/ICIMOD
		3.1.3 Up-gradation of the existing system in 2 places with water level radar (Passu and Sherqilla)	1st quadrimester, Year 1	GBDMA/AKAH/ WWF/ICIMOD
		3.1.4 Installation of the EWS	1st quadrimester, Year 1	GBDMA/AKAH/ WWF/ICIMOD
		3.1.5 Training of the local communities	1st quadrimester, Year 1	GBDMA/AKAH/ WWF/ICIMOD
		3.1.6 Data collection and reporting	Throughout Year1	GBDMA/AKAH/ WWF/ICIMOD
		3.1.7.Joint publication (research paper)	Year2	GBDMA/AKAH/ WWF/ICIMOD
		New Telemetric-CBFEWS (new) 3.1.8 Scoping and selection of rivers (integrating gender perspective)	1st quadrimester, Year 1	GBDMA/AKAH/ WWF/ICIMOD
		3.1.9 Site selection to install the instrument/select caretakers	1st quadrimester, Year 1	GBDMA/AKAH/ WWF/ICIMOD
		3.1.10 Hands on training ensuring women's participation	2nd quadrimester, Year 1	GBDMA/AKAH/ WWF/ICIMOD
		3.1.11 Install the instrument	2nd quadrimester, Year 1	GBDMA/AKAH/ WWF/ICIMOD
		3.1.12 Communication network formed and trained (integrating gender perspective)	1st and 2nd quadrimester, Year 1	GBDMA/AKAH/ WWF/ICIMOD
		3.1.13 Preparedness training; Selection of safe havens and rescue routes (integrating gender perspective)	Throughout Year1	GBDMA/AKAH/ WWF/ICIMOD
		3.1.14 Capacity building of stakeholders (integrating gender perspective)	2nd and 3rd quadrimester Year1	GBDMA/AKAH/ WWF/ICIMOD
		3.1.15 After the success of pilot project, Project Cycle 1 (PC1) initiated by GB government for the sustainability of the project (out scaling and upscaling)	Year 2 and onward	GBDMA
		3.1.16 Integration of CBFEWS concept on Annual Disaster Management Plan for GB	Year 2 and onward	GBDMA
		3.1.17.Out scaling/ upscaling in GBC	Year2 to onward	GBDMA/AKAH/ WWF/ICIMOD
	3.2: Agricultural water and hazard management with demonstration of water and energy efficient irrigation system and vegetative measures to control water	3.2.1 Developing evaluation designs and establishing baselines accordingly, specifically looking into gender aspect of the intervention	1st quadrimester, Year 1	
		3.2.2 Conducting impact evaluations following established evaluation design	3rd quadrimester, Year 4	
		3.2.3 Up-scaling of the successful on-going interventions	2nd quadrimester, Year 1	PCRWR

		3.2.4 Site selection for plantation of seabuckthorn for erosion control in the waterways (1 site)	2nd quadrimester, Year 1	WWF/PCRWR/MARC
		3.2.5 Community sensitization about the effectiveness of the seabuckthorn and searching other similar species	3rd quadrimester, Year 1	WWF/KADO
		3.2.6 Plantation of seabuckthorn and improving its value chain (2 sites)	Year 2	WWF
		3.2.7 Site selection for out-scaling the improved solar-powered drip system (2 sites)	Year 1	WWF/PCRWR/PARC
		3.2.8 Walking tunnels for off-season plantation (Site selection 2 Nos.)	2nd quadrimester, Year 1	MARC/PARC/AKRSP
		3.2.9 Community-based permaculture demonstration farms (site selection 2 Nos.)	2nd quadrimester, Year 1	Forest/MARC/PARC
		3.2.10 Energy efficient stoves and household solar and wind power prospects	2nd and 3rd quadrimester, Year 1	PARC/AKRSP/
		3.2.11 Up-scaling bio-briquettes to empower women (4 sites)	Year 1	KADO/Forest/WWF
	3.3: Lessons learned from the on-going and previous projects in Gilgit-Baltistan	3.3.1 Synthesis of the technical data based literature review: <ul style="list-style-type: none"> <li>• Solar-powered drip system is successful with improved methods of getting clean river water</li> <li>• Piped water supply has many advantages over the conventional watercourses</li> <li>• Micro-crediting for agriculture is successful and may be out-scaled.</li> <li>• Community owned based micro-hydel is feasible at a number of locations</li> <li>• Literature review of the existing knowledge systems</li> <li>• Community-based dialogues, discussions etc.</li> <li>• Finding opportunities for the women under the climate changes</li> <li>• Indus knowledge network for impacts on different genders</li> </ul>	2nd quadrimester, Year 1	WWF/LEAD/PCRWR / PARC
	3.4: Identifying and promoting gender-responsive knowledge systems that provide solutions for empowering women and disadvantaged group		Year 1	AKRSP/KADO /WWF/PARC

# Annex 2: Agenda

Partnership Workshop

SDIP Phase 2 for Indus Basin

Date: 02 March 2017

Venue: Crown Plaza Hotel, Islamabad

ICIMOD had organized a partner's consultation meeting on "ICIMOD's Strategy for Engagement in SDIP Phase-II: Indus Basin-Pakistan" in Islamabad on 4 August 2016 wherein the participants had developed long-term (4 years) and short-term (1 year) plans for regional cooperation mechanism, creation and use of critical new knowledge, and promotion of best practices for water resource management, capacity development and innovation. Based upon the way forward proposed, WWF and ICIMOD planned to organize Inception workshop on SDIP II for in Upper Indus Basin-Pakistan, on 2 March 2017, in Crown Plaza Hotel, Islamabad.

The objective of the meeting is to initiate partnership and prepare the detail implementation plan of SDIP Phase-II. The activities will be based on the partner's consultation meeting on "ICIMOD's Strategy for Engagement in SDIP Phase-II: Indus Basin-Pakistan", which was held in Islamabad on 4 August 2016.

## Workshop Agenda

Time	Programme	Responsibility
9:00-9:30	Registration	Liza Dali
9:30-10:30	<b>Opening Session</b> Welcome Remarks: <ul style="list-style-type: none"> <li>• Dr Muhammad Ashraf, Chairman, PCRWR</li> <li>• Dr Babar Khan, WWF</li> </ul> Overview of SDIP II by Arun Shrestha, ICIMOD Remarks: <ul style="list-style-type: none"> <li>• Dr Yusuf Zafar, Chairman, PARC</li> <li>• Dr Ghulam Rasul, DG, PMD</li> <li>• Dr Mandira Shrestha, ICIMOD</li> <li>• Mr David Preston, First Secretary Development Cooperation, Australian High Commission</li> </ul>	Moderated by Abdul Wahid Jasra
10:30-10:50	Pathways of change for SDIP II	Arun Shrestha
10:50-11:20	Gender Integration in SDIP II - Overview	Pranita Udas
11:20-11:50	Group photo and Tea Break	
11:50-12:20	Overview of proposed activities in 2017	Arun Shrestha
12:20-12:30	Objectives of the group work and group division	
12:30-13:30	Lunch	
13:30-15:30	Group work	
15:30-16:15	Presentation of group work	
16:15-17:00	Way forward and closing	Abdul Wahid Jasra

## Tentative List of Participants in SDIP-II Meeting, Islamabad

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