



**International Workshop-cum-
Training Programme on**

“Irrigation Systems and Water Management”



20-29 February 2024



AFRICAN ASIAN RURAL DEVELOPMENT ORGANIZATION (AARDO)

About AARDO:

AARDO, established in 1962, is an Inter-Governmental rural centric Organization consisting of 34 Members, i.e; 32 countries Governments and 02 Associate Members from Africa and Asia working in the area of agriculture and rural development. It subscribes to the spirit of South-South and Triangular cooperation and African Asian Solidarity. With its nearly 60 years of experience, AARDO, as a policy advocacy institution, remains at the forefront of focused SDGs in rural areas through different and evolving forms, including technical cooperation, sharing of knowledge and experiences, training, capacity building and technology transfer on mutually agreed terms.

About the Host institution (AHK NCRD):

Akhtar Hameed Khan National Centre for Rural Development (AHKNCRD), an Executive Department of Establishment Division (Prime Minister's Office), Government of Pakistan is responsible for promoting the cause of rural development and poverty alleviation in Pakistan. It performs the functions of capacity building of mid level officials/functionaries of Nation Building Departments and Local Government functionaries from all over the country. NCRD also provides assistance to provincial Local Government Training Institutions in curriculum planning and training programmes. The Centre organizes seminars, workshops and training courses in which eminent resource persons/experts are invited to share the knowledge and vast experience on the given subject.

As the nodal agency and link institution, NCRD also fulfils the mandate of three International Organizations namely African Asian Rural Development Organization (AARDO), Centre on Integrated Rural Development for Asia and the Pacific (CIRDAP) and Network of Local Government Training and Research Institutes in Asia and the Pacific (LOGOTRI), of which Pakistan is a member. With the association of these international organizations, AHKNCRD organized number of HRD programmes for the participants of member countries.

Programme Duration:

20-29 February 2024

Deadline to Apply:

08 January 2024

Organized By:

**AHK-NCRD,
Islamabad, Pakistan**

Mode:

Physical

Sponsored by:

**African Asian Rural
Development
Organization
(AARDO),**

Introduction:

Water security is an increasingly important development issue in African-Asian countries, where growing populations and repaid urbanization have expanded demand and competition for water resources. The demand pattern for water is changing with an increasing proportion of water being used in the industrial and domestic sectors, concurrently with proportional reduction in water use in the agriculture sector. The relative and absolute increase in the urban population means that more food will need to be produced by fewer people in the agriculture sector in future and likely with more intensive farming practices, which highlights the need to improve efficiency in water use.

Pakistan is an agriculture country and the socio-economic conditions of people are deeply dependent on agriculture. The total area of the country is 79.61 million hectares while the total cropped area is estimated to be 23.80 million hectares. Agriculture is the source of livelihood of almost 44.7 percent to the total employed labour force in the country and contributes 22 percent to GDP. Almost 65-70 percent of the total population is directly or indirectly dependent on agriculture for their livelihood. The level of agriculture production is directly related to the availability and effective use of water as a major input.

Pakistan has been blessed with abundant water resources flowing down the Himalayas and Karrakurram heights form the world's largest glaciers. As a result of this natural resource, Pakistan has the World's largest contiguous irrigation system that currently irrigates over 16 million hectares of land out of 34 million hectares of cultivable available lands. Large parts of the country have good soil, abundant sunshine and hardworking farmers, but crop yields, both per hectare and per cubic meter of water, are much lower than international benchmarks. The quality of water services plays an important role in increasing crops yield per unit of water. Building of high infrastructures does not work unless the water management is ensured in an efficient and timely manner.

Against this backdrop, this workshop-cum-training is being organized by AARDO in collaboration with the Establishment Division (Prime Minister's Office), Government of Pakistan and the Regional Office of AARDO for South and Central Asia, at Akhtar Hameed Khan National Centre for Rural Development (AHKNCRD), Islamabad, Pakistan. The programme is mainly aimed at capacity building of stakeholders engaged in water resources management by providing them a Forum to bring awareness regarding the importance of the issues and come up with recommendations for efficient use of scarce water resources.

Program Objectives:

- to familiarize and update the participants with the present situation of water resources in the regions and identify issues of water management;
- to discuss different methods/technologies for efficient use and management of limited available water resources;
- to examine and review government policies, strategies and programmes for irrigation and water management; and
- to provide a platform to participants from African-Asian countries to deliberate and share their experience in irrigation system and water resource management.

Major Contents:

- Overview of Water Resources: National and Global Perspective;
- Water Cycle & Water Uses;
- Surface Irrigation System- Concept and Techniques;
- Water Logging and Salinity Management;
- Pressurized Irrigation System (Sprinkler Irrigation);
- Rainwater Harvesting and Conservation;
- Soil and Water Conservation;
- Ground Water Utilization- Policies and Management;
- Unconventional Water Resources for Agriculture;
- Innovative Techniques for Efficient Utilization of Scarce Water Resources;
- Drinking Water Quality – Standard and Monitoring; and
- Application of GIS/Remote Sensing in Water Resource Management.

Methodology:

Training methodology includes lectures by qualified and experienced resource persons followed by discussions, case studies, country report presentations by the participants, and experience sharing. Field visits will also be arranged for the demonstration of some of the successful interventions. The Workshop cum training has been structured to sensitize the participants on limited water resource management when its demand is increasing with the rapid growth of population and unplanned industrialization. Participative approach will be adopted to provide an opportunity to participants to share

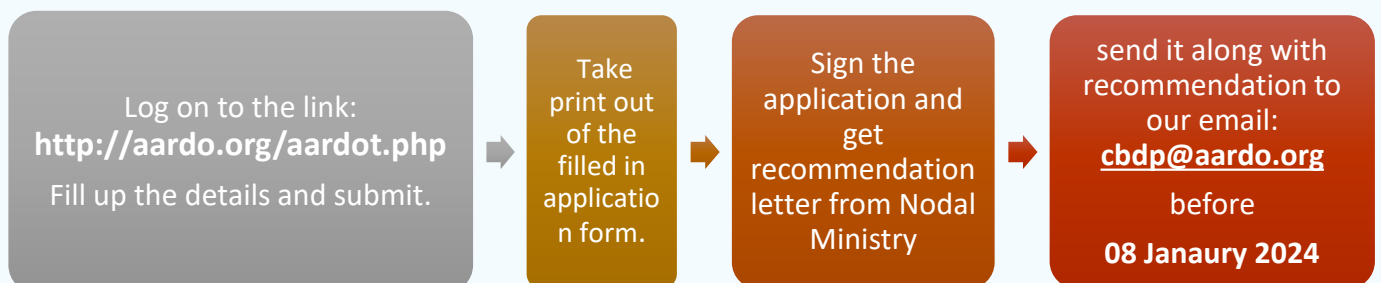
their experiences through discussions and brainstorming sessions on issues related to irrigation system and water resource management.

Essential Qualifications:

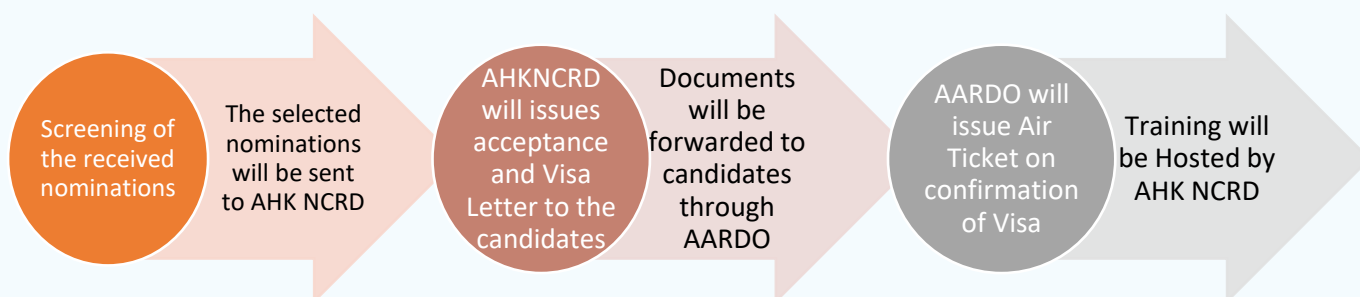
- Minimum a bachelor's degree in the Relevant Field, with considerable working experience in planning and executing the programmes related to subject of the programme.
- Must be subject specialist and related to the subject of the programme.
- Proficiency in spoken and written English language, as the medium of conducting the programme is English only and translation facilities into any other language would not be available.
- Preferably below 50 (fifty) years of age.
- No participation in AARDO's offline programme over the last two years.
- Must be in good health to undergo the programme.

Application Process:

Nominees are required to apply online through the link: <http://aardo.org/aardot.php>. After duly filling the details and submission of the form, the nominee needs to download the duly filled in form, get it endorsed by the nodal Ministry of AARDO and forwarded to AARDO through the email: cbdp@aardo.org latest by **08 January 2024**, along with the nomination/recommendation letter and scanned copy of the passport. The form must be completed in all aspects. Incomplete/incorrect information may lead to rejection of application.



Selection Process:



Nominations received from the member countries, after due screening and finalization will be forwarded to AHK-NCRD, Pakistan for their consideration.

Visa and Air Ticket:

AHK-NCRD will also issue invitation letters to the selected candidates and assist in obtaining visa from Missions of Pakistan located in respective countries of the participants. Air Tickets will be issued by AARDO on confirmation of Visa to attend the programme.

Venue and Accommodation:

Akhtar Hameed Khan National Centre for Rural Development (AHKNCRD), Islamabad, Pakistan

Presentation of Country Report:

The participants will be required to present country reports on the current situation of irrigation system and water management. The guidelines for preparation of country report will be provided to the selected candidates in due course.

Important Note

- Applications without recommendation of Nodal Ministry will not to be considered.
- Due to limitation for participants, only selected candidates would be intimated through the Nodal Ministry.

Contact Persons:

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