

NATIONAL WATER ACADEMY, PUNE

**Training Program on
“Environmental, Economic and Social Aspects of Water Resources Projects”
20-24 November, 2017**

REGISTRATION FORM

Name (in capitals): _____

Designation: _____

Organization: _____

Responsibilities (in brief): _____

Full Postal Address: _____

Tel Nos. (With STD Code): _____

Fax No: _____ Mobile: _____

E-mail: _____

Whether require accommodation at NWA complex? YES / NO

Date _____ (Signature of the participant)

SPONSORING AUTHORITY

Full Postal Address: _____

Tel Nos.(with STD Code) : _____

Fax No: _____ Mobile: _____

E-mail: _____

Date _____ (Signature and Seal)

*Completed Registration Form may be sent by
Fax to: 020-24380110*



**Government of India
Ministry of Water Resources
Central Water Commission**

**Training Program on
Environmental, Economic and Social Aspects
of Water Resources Projects**

20-24 November 2017



**Organized by
National Water Academy
Pune**

INTRODUCTION AND OBJECTIVE

Water Resources is one of the key areas which directly contribute to the economic development of our country. With the impetus given to the water resources sector, we have been able to increase our food grain production, hydropower generation. But the population of our country which is expected to stabilize at around 150 to 170 crores by 2050, demands more water for food, drinking, energy, industrial and other requirements. To meet these demands we need to fully exploit the available water resources, which means creation of new storages as well as judicious utilization from existing storages (reservoirs). Of late, Water resources have been experiencing intense and sustained pressure demand from a range of direct and indirect socio-economic driving forces. Although globally, freshwater is abundant, the problem is that it is not available in the right place and at the right time. Arguably the world has been treating water as an almost free resource, despite the fact that competition for raw water is intensifying. Although globally the absolute physical scarcity of water is at best a long term concern, the current management of water resources has been found wanting, with problems relating to inefficiency, in-equitability and environmental degradation.

While agriculture is often cited as the principal 'user' of raw water, domestic, municipal and industrial uses of water are increasing, and there is now more widespread recognition of the important environmental services provided by water resources. As such, the management of water is an environmental, social and economic issue encompassing all sectors of an economy. The management involves trade-offs between these sectoral users, as well as between additional economic growth and further water resource depletion, degradation and related environmental concerns. In spite of this trade-offs, much socio-economic improvement can be secured without the imposition of excessive costs or loss of environmental integrity.

With the above objective in view, the NWA is organizing a training program on "*Environmental, Economic and Social Aspects of Water Resources Projects*" to provide an insight into the various issues involved.

PROGRAM CONTENTS

The program will comprise of classroom sessions, case studies and related field visits and will cover the following topics:

- ☞ Estimation of B/C Ratio of Irrigation Projects; Concepts of NPV, IRR;
- ☞ Preparation of Cost Estimate of a WRD Project;
- ☞ Cost Allocation between Irrigation & Power- A Case Study;
- ☞ Rehabilitation & Resettlement Issues arising due to WR Projects; National Policy on R&R;
- ☞ Recent Land Acquisition Act (LARR) vis-a-vis former Land Acquisition Act;
- ☞ Socio Economic Survey (Baseline Survey of PAP): Need, Methodology & Utility
- ☞ Formation of WUA and its implications; WUA Structure and Function; PIM Acts;
- ☞ National Environmental Policy; Disaster Management Policy;
- ☞ Environmental Aspects of WRD; Preparation of Disaster Management Plan;
- ☞ Environment Impact Assessment & Environment Management Plan (EIA & EMP)
- ☞ Forest & Wildlife Clearances for Water Resources Projects
- ☞ Effect of Climate Change on Water Resources Projects
- ☞ Water Quality Modeling for Sardar Sarovar Project- A Case Study
- ☞ Multi-Objective Analysis (UNESCO Method): Social, Economic and Environmental Parameters

PROGRAM FEE

There is **no program fee** for participants from **Central and State Government Departments**. Charges for participants from other categories are:

Category	Description	Fee in Rs. (per participant)
A.	Central/State/Local Government Depts. including their autonomous bodies	Nil
B.	'Not for Profit' Central and State PSUs	Nil
C.	Recognized academic institutions, NGOs	1,500/-
D.	PSUs of MoWR, Govt. of India	5,000/-
E.	Central and State Public Sector Undertakings	10,000/-
F.	Private Companies, Individuals	15,000/-

- Payment may be made by Demand Draft drawn in favour of Deputy Director (A&C), NWA, Pune, prior to start of the program. For multiple nominations, discount on participation fee is available as mentioned on our web site.

DURATION

The duration of the Training Course is of one week from 30th October 2017 to 3rd November 2017.

TARGET GROUP

The program intends to focus on the Middle level and Senior level Officers of Central and State Govt. Departments, PSU's, Private Organizations, Academic Institutions and NGOs and provides a forum to facilitate discussions on various crucial issues associated with Environmental Economic and Social Aspects of Water Resources Projects.

PARTICIPATION

The nomination of the officers fitting the target profile may be sent to the Program Coordinator latest by 13th November 2017. The accepted nominations would be displayed on our website (<http://nwa.mah.nic.in>) under the link "*Upcoming Events*", by 15 November 2017. **Without confirmed acceptance from NWA website, the participants should not join the course.**

LOCAL HOSPITALITY

NWA has a self-contained residential campus, and all out-station participants would be provided with lodging and boarding in the campus, to be borne by participants themselves. Local pickup/drop will have to be arranged by the participants.

WEATHER

During the month of November the average temperature of Pune may be around 25°C with pleasant climate.

CONTACT

For sending nominations or for any information with regard to this Programme, please contact:

Sidhartha Mitra

Director & Program Coordinator

National Water Academy, CWC,

Khadakwasla, Sinhagad Road, Pune- 411024

Tel: 020 - 24380528, Fax: 020-24380110, Mobile: 7507088332.

E-mail: sidhartha_mitra@yahoo.com; nwa.mah@nic.in

Website: <http://nwa.mah.nic.in>