I/70606/2024ारत सरकार

-भारत सरकार जल शक्ति मंत्रालय जल संसाधन नदी विकास एवं गंगा संरक्षण विभाग केंद्रीय जल आयोग प्रशिक्षण निदेशालय



Government of India Ministry of Jal Shakti Dept. of Water Resources, RD&GR Central Water Commission Training Directorate

परिपत्र

Subject: Call for nominations for Young Water Professional Programme-An initiative under the ambit of MoU between Govt. of India and Govt. of Australia on Co-operation in the field of Water Resources Management-Reg.

National Hydrology Project in collaboration with Australian Water Partnership is organizing an innovative Young Water Professional (YWP) training course of 10-12 months duration led by Western Sydney University and IIT, Guwahati on behalf of Austrlia India Water Centre (AIWC). A copy of O.M F. No. X-87011/1/2016-NHP Section/2125 dated: 06.09.2021 received from Nation Hydrology Project, DoWR, RD & GR, MoJS along with enclosures are enclosed herewith.

It is requested that interested and eligible officers may forward their nomination to this office with the approval of the concerned Member/Chief Engineer (HRM) in respect of HRM unit/Chief Engineer (NWA) in respect of NWA officers, latest by **20.09.2021** to forward the final nominations to Ministry.

Nominations received, if any, after due date will not be considered.

Signed by Venkateswarlu

Date: 10-09-2021 16:08:02 **(खेंकार: श्वा**र्फ) र्ड्<u>ड</u>ी.)

उप- निदेशक (प्रशिक्षण)

सेव मे:

- 1. All Chief Engineers, CWC with a request that nominations of interested and eligible officers may be forwarded to the concerned Co-ordination Directorates for approval of Member.
- 2. Director Co-ordination (D&R)/ (RM)/ (WP&P), CWC, New Delhi with a request that nominations of eligible officers may be forwarded to this office with approval of Member.
- 3. Secretary, CWC/Director, TC/PCP, CWC, New Delhi.
- 4. Joint Secretary (A, IC & GW)/ Commissioner (PP/SPR/B&B/Pen River/Indus/FM/CADWM), DoWR, RD & GR, MoJS, New Delhi. It is requested that the nominations of interested and eligible officers may be forwarded to CWC by the aforementioned dates.



- 5. Director (Adm), Ganga Flood Control Commission, Patna. It is requested that the nominations of interested and eligible officers may be forwarded to CWC by the aforementioned dates.
- 6. Secretary, CEA/Chief Engineer (TCD), CEA, New Delhi. It is requested that the nominations of interested and eligible officers may be forwarded to CWC by the aforementioned dates.

प्रतिलिपि:

- 1. Sr PPS to Chairman, CWC, New Delhi.
- 2. Sr PPS/PPS to Member (D&R)/ (RM)/ (WP&P), CWC, New Delhi.

F.No. X-87011/1/2016-NHP SECTION/2125

Government of India Ministry of Jal Shakti D/o Water Resources, RD & GR (National Hydrology Project)

> 2nd Floor, Rear Wing, MDSS Building, 9, CGO Complex, New Delhi Dated the 6th Sept, 2021

Office Memorandum

Call for nominations for Young Water Professional Programme

Subject: Call for nominations for Young Water Professional Programme – An initiative under the ambit of MOU between Govt. of India and Govt. of Australia on Cooperation in the field of Water Resources Management

NHP in collaboration with Australian Water Partnership, is organising an innovative Young Water Professional (YWP) training course led by Western Sydney University and IIT, Guwahati on behalf of Australia India Water Centre (AIWC).

Objectives of YWP

The objectives of the YWP are to equip YWPs with the necessary skills, knowledge, behaviours and networks that will better enable them to contribute to the development and management of water resources in India, and to address the competency and leadership needs and priorities of the water sector in India.

Duration of the Course

This program is designed for a period of 10-12 months and will broadly run through virtual mode except during domestic field trips. This course would be a combination of interactive sessions, workshops, coaching circles, domestic field trips and project-based learning. The course is designed for participants to sail through diverse learning opportunities and research a real-life 'Situation Understanding and Improvement Project'. Brochure for the YWP programme is attached.

Broad Selection Criteria of YWPs

- The programme is meant for NHP Implementing Agencies (IA) and training institutes of DoWR, RD & GR, Ministry of Jal Shakti (National Water Academy, Pune; Rajiv Gandhi National Ground Water Training and Research Institute (RGNGWTRI), Raipur; The North Eastern Regional Institute of Water and Land Management (NERIWALM), Tezpur only.
- ° Age Group 21-35 years
- Minimum working experience of 3 years
- No. of nominations per IA will be limited to 3 number for state IAs and Central IAs; and 1 each from each training institute.
- ° The program will target 50% female and 50% male participants

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Procedure for Nominations

Advisory Committee for YWP programme shall short list the candidates as per shortlisting criteria attached as Annex I. Total 20 candidates shall be shortlisted for this course.

The steps for nomination are as follows:

- 1. Fill out the nomination form online as availed on NHP web site nhp.mowr.gov.in
- 2. Indicate a broad area of interest related to water resources management. Illustrative list of topics attached as Annex II. Also, indicate a critical water issue or challenge (e.g., Increasing groundwater recharge at the village level) you are passionate about and keen to research as part of your 'Situation Understanding and Improvement Project' in the YWP training program.
- 3. Develop a short write-up (max. 2 pages) articulating your case for selection in this training program focusing on the following four key questions:
 - (i) Why you want to participate in this training program?
 - (ii) What skills and competencies you hope to develop for yourself from the program?
 - (iii) How the learning from this will help in your current and future works in your Department? and
 - (iv) How will this program help in your future career advancement?

Why Attend This Training Program?

- The Young Water Professionals training is transdisciplinary and will help you develop skills and competencies not only in technical aspects but also social, economic, policy and governance aspects of water management and sustainability;
- (ii) The training has significant focus on problem solving, critical thinking, systems approach, teamwork, communication, life-long learning and project management;
- (iii) You will receive advance training from highly experienced Australian and Indian experts, both from academia and industry, in the water sector;
- (iv) You will learn about water management issues, challenges and solutions from Australia and will be able to contextualise them in the context of India;
- (v) You will have close interaction with experts from Australia and India throughout the duration of the training on weekly basis. This will provide some valuable opportunities for professional development and future professional networking.
- (vi) You will a receive certificate of international training in Sustainable Water Futures at the end of the training program. Subject to the approval by the Academic Senate of the lead partners (Western Sydney University and Indian Institute of Technology, Guwahati) of the training program, there is a possibility of providing some academic credit for this training towards Graduate Certificate, Graduate Diploma or Master program in 'Sustainable Water Future' being considered.

Registration Process

The nominated Candidates are required to register on NHP web site nhp.mowr.gov.in and apply online. Scanned copy of the recommended nomination by competent authority is also required to be uploaded on the portal. The recommending competent authority should ensure that the nominated candidate would be available for work association during 10 to 12 months of the programme, and beyond if needed.

Mark!

Desiderata of Selected Candidate

The program will be on a part-time basis through virtual classes 6 days per month. Since participants are required to research a real-life 'Situation Understanding and Improvement Project', significant efforts are required to be put forth by the candidates themselves. It should also be ensured that the candidate will be facilitated for field visits, data collection related to the identified project work/topic/ area of interest. Also, that the participating candidate shall be available for study tour/ exposure visits, experiential learnings etc. The cost of training programme shall be borne by AWP.

Last date for submission of applications

Online Applications duly recommended by the Competent Authority are expected to reach us latest by 28th September 2021.

То

As per list attached

(All IAs of NHP, NWA, Pune, RGNGWTRI, Raipur, NERIWALM, Tezpur)

Copy for information to:

- 1. The Joint Secretary (A, IC & GW), DOWR, RD & GR
- 2. The South Asia Coordinator, AWP

(Raja Ram Purohit)

Dy Director, NHP Puron Tel: 24367087 Ramon

rr.purodit@mc.in

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Shortlisting Criteria for YWP

| Sl.No | Short listing Parameters | | Criterion | Weightage points |
|---------|--|-------|---------------|--------------------|
| 1 | Length of service in Water sector | (i) | 3- 5years | 2 |
| | organization(s) | (ii) | 5 to 10 years | 4 |
| | The state of the s | | > 10 years | 5 |
| 2 | Educational Qualification | | | |
| | (Minimum qualification is Graduation) | (i) | Graduate | 5 |
| | | (ii) | Postgraduate | Additional 5 = 10 |
| | a contribution of the second s | (iii) | Doctorate | Additional 10 = 15 |
| 3 | Write up by the candidate: | | | |
| | Develop a short write-up | | | |
| | articulating your case for | | | |
| | selection in this training | | | |
| | program focussing on the | | 0.1 | |
| | following four key questions: | | Q. 1 Q. 2 | |
| m 20 | (i) Why you want to participate | | Q. 2 Q. 3 | |
| | in this training program? | | Q. 4 | |
| | (ii) What skills and | | Q. 4 | |
| 5 3 A S | competencies you hope to | | | |
| | develop for yourself from the | | | |
| | program? | | | |
| | (iii) How the learning from this | | | 2.5 |
| | will help in your current and | | | 2.5 |
| | future works in your | | | 2.5 |
| | | | | 2.5 |
| | Department? and | | | |
| | (iv) How will this program help | | | |
| | in your future career | | | |
| | advancement. | | | |
| | The write up per question may | | | |
| | please be limited to 250 words. | | | |

A waiting list of 6 candidates would be prepared apart from 20 selected participants to account for any participant opting out due to exigencies.



Broad Groups and Topics to be covered under YWP

| | Broad Groups | | Indicative list of topics/issues | | |
|------|--|---|--|--|--|
| i. | Water availability, variability and | 1 | Water Resources Assessment/ Estimation and related Modelling tools/ Decision Support Systems | | |
| | unsustainable | 2 | Water Accounting, auditing and tools | | |
| | withdrawals | | Decision Support System for Integrated Reservoir | | |
| | | 4 | Operation | | |
| | | | Managed Aquifer Recharge Comparative Scenario analysis of Benefit & cost of | | |
| | | 5 | providing irrigation water only though (a) Surface; and (b) ground water in an identified command area. | | |
| | | 6 | Wastewater and stormwater reuse | | |
| | | | Integrated water resources management (IWRM) | | |
| ii. | Water environment and quality | 1 | Management options for improving water quality e.g. in Upper Yamuna sub-basin | | |
| | quanty | | Collection and treatment of wastewater | | |
| | | | In-situ remediation of Ground water contamination | | |
| iii. | Water project designs | 3 | Improving Water Use/ Irrigation Efficiency | | |
| | and implementations | | Remote Sensing and GIS based water resources project | | |
| | and imprementations | - | monitoring | | |
| | | 3 | Development of a tool for planning of a Piped Irrigation Network | | |
| | | | Reservoir Sedimentation survey and Management | | |
| iv. | Water sharing disputes | 1 | An investigation in cooperation in Inter-state water disputes, lessons learnt, and way forward for dispute management. | | |
| | | 2 | Social, economic, political, technical opportunities in resolution of water sharing dispute: a case study. | | |
| v. | Water governance and institutions | 1 | Review of Benefit-Cost ratio method for taking up (a) irrigation project; (b) flood management project; and (c) coastal management project | | |
| | | 2 | Cost and pricing of value added to water by a project for (a) its storage; (b) its transmission; and (c) its distribution | | |
| | | 3 | Capacity building & Training needs in water sector in India: National Level Academic Profile – Water sector | | |
| | | 4 | Comparative analysis of India's water governance and institutions structure with at least two equally large economies of world | | |
| vi. | Matching water quality and quantity | 1 | Water supply and sewage management of an identified Mega city/ Metro city a decadal perspective say upto 2070 | | |
| | | 2 | Water budgeting using IoT tools and crowd sourcing | | |
| | | 1 | Feasibility of PPP model in domestic water supply | | |



| ga en | Access to safe drinking water of sufficient quantity | 2 | Desalination Technology: a feasible option for domestic water supply in coastal cities | | | | |
|-------|--|---|--|--|--|--|--|
| viii. | Climate change and urbanisation | | Vulnerability ranking of India's urban centres from wate resources perspective | | | | |
| | | | Hydro-informatics: scope of AI & ML | | | | |
| | | | Long Range Flood Forecast including in climate change scenario | | | | |
| | | 4 | Hydrology Data Analytics and validation tools | | | | |
| | | 5 | Coastal issues including hydrogeology and their management | | | | |







Water Matters for India – Young Water Professional Training

THE AUSTRALIAN WATER PARTNERSHIP

'Water Matters for India - the India Young Water Professional' training program is an innovative professional training course that is led by Western Sydney University and Indian Institute of Technology, Guwahati on behalf in the Australia India Water Centre (AIWC). The program is a collaboration between Australian Water Partnership and the National Hydrology Project (NHP), Ministry of Jal Shakti in India under the ambit of MOU between Australia and India in the field of Water Resources Management

The program includes online interactive lectures, workshop, coaching and project-based learning. Participants will have opportunities to research a real-life 'Situation Understating and Improvement Project (SUIP) while internalising transdisciplinary and sustainable water management concepts and approaches, dealing with complexity, communicating with clients, and leading and conducting a case study from start to finish. The training will also prepare YWPs to deliver UN SDG goals and incorporate gender and diversity approach for managing water in their work place.

By undertaking the program, participants will learn and interact with lead researchers and experts in the field from Australia and India. Throughout the program, participants will receive expert supervision and mentoring that will assist them in developing leadership skills and competencies at all stages of the program, from selection of project topic and client, to the final reporting of findings in the 'Sustainable Water Futures Conclave'.

It is expected that solutions, or recommendations, being proposed by participants, will be adopted, or considered, by the client to have real-life impacts.





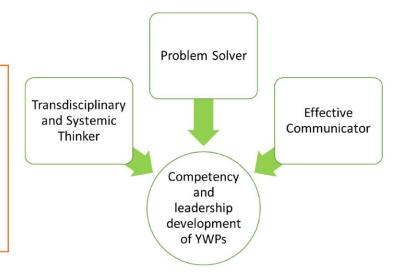






Key Elements of the YWP Training Program

The YWP training program is designed to be experiential training and learning, with emphasis on 'learning by doing'. For this reason, the training will be 10-20% for on-line lectures, 20% for coaching and 60-70% project-based learning supported by the AIWC team. Delivery of the course is through a range of modes with focus on engaged learning: (i) On-line lectures, (ii) On-line and in-country workshops, (iii) Situation Understanding and Improvement project (SUIP), (iv) On-line group discussion and facilitation; (v) Laboratory and field activities in the SUIP (COVID dependent?); and (vi) Mentoring.



The Situation Understanding and Improvement Project

The Situation Understanding and Improvement Project (SUIP) is the 'engine room' of this training program, and YWPs will devote a significant part of their effort and time (up to 70%) to develop their competencies and leadership qualities. Participants will work on a 10-month long group project (2 persons/group) and select a SUIP topic (e.g., How do we achieve effective community engagement in groundwater management?) that is relevant to the Ministry of Jal Shakti (MoJS), the National Hydrology Project (NHP) or their own workplace to understand and develop solutions to a complex water management situation. They will need to have a client for their project - most likely MoJS, NHP or relevant Department who has the interest/stake in the SUIP and can implement the project findings. The competency and leadership development through SUIP will be supported through a series of on-line lectures on relevant topics, coaching, mentoring and some hands-on activities.



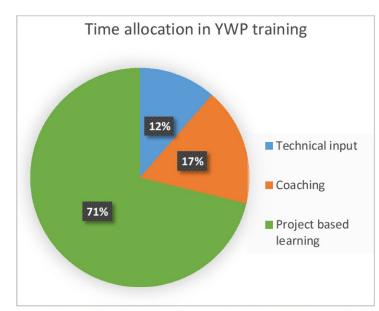
Duration and required learning efforts

- The duration of the program is 10-12 months.
- The Programme would be broadly in virtual mode except domestic field visits and expected to comprise of lectures and tutorial 6 days a month.
- Since the participants shall be working on research a real-life 'Situation
 Understanding and Improvement Project, significant efforts are required to
 be put forth by candidates themselves also.
- The Programme is intended to commence with effective from Oct. 2021,

Intended Program Learning Outcomes and Competency Development

Upon successful completion of the program, participants will be able to

- Understand trans disciplinary aspects of water management in targeted areas based on their learning needs as well as those required in their workplace.
- Critique the complexities of sustainable water management challenge by adopting a systematic approach
- Design and conduct a real-world project to improve a water resource situation using evidence and resources in an ethical manner
- Communicate effectively and succinctly to a range of diverse stakeholders
- · Appraise gender equity, diversity and social inclusion in the water sector
- Report findings, or make recommendations, to improve a water resource situation
- Critically reflect and improve on own professional practice and leadership skills in promoting optimal outcomes in water sector





The YWP Water Conclave

The YWP Water Conclave with the culmination of the training program where YWPs will reflect on their learning experience and development through the training program. Participants will professionally present their SUIP to their peers, Government Departments and industry partners, giving and receiving feedback and building on this experience to improve the Final SUIP report and the outcomes.

Supervision and Mentoring

The training resource team will provide small and personalized SUIP supervision and mentoring throughout the training program. The resource team will help YWPs to develop skills and competencies at all stages from selection of project topic and client, to the final presentation of findings towards the end of their training period. There will also be a peer-to-peer learning component.

Online lectures

Experts in the water resources management will deliver online, interactive lectures and will produce a short pre-recorded overview videos and recommend readings on selected topics with emphasis on concepts and practical applications. The resources will be made available for participants via Open Learning portal. Participants are required to complete learning tasks prior to the live section for optimal learning experience.

During the 1-hour live section, the expert will deliver a 20-30 min presentation followed by interactive activities with participants.





> Learning and Training schedule at glance

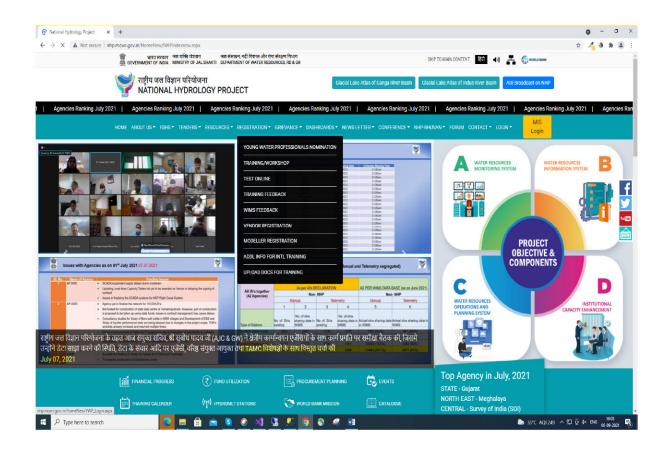
| | Tentative Generic Topics | Program activities | Coaching activities | Assessments | |
|------------|---|--------------------------|----------------------------|-----------------------|-----------------------|
| Oct 2021 | Overview and introductionSystemic approaches to water sustainability | Program launch | Coaching circle 1 | Learning Portfolio | |
| Nov 2021 | - Water Governance and Policy; Project Management essentials | Workshop1 | Coaching circle 2 & 3 | | Learning Portfolio |
| Dec 2021 | - Water for Agriculture; Professional practices for successful leaders | SUIP Proposal Seminar | Coaching circle 4 & 5 | Proposal | Learning Portfolio |
| Jan 2022 | - Groundwater Sustainability; Data collection and analysis | Workshop 2 | Coaching circle 6 & 7 | | Learning Portfolio |
| Feb 2022 | Water in Urban Landscapes; Presenting with impact Cost benefit analysis | | Coaching circle 8 | | Learning Portfolio |
| Mar 2022 | - Water in Urban Landscapes (continued) - Communication strategies | SUIP progress seminar | Coaching circle 9 & 10 | Presentation | Learning Portfolio |
| April 2022 | Water use efficiency Understanding different values in stakeholder consultations | Workshop 3 | Coaching circle 11 & 12 | | Learning Portfolio |
| May 2022 | - Water, energy and food nexus; and 'Doubling the Farm Income; Water and Society 1 WASH; Community Participation; Gender and Socio-cultural aspects; Water for every home mission | Workshop 4 | Coaching circle 13 & 14 | | Learning Portfolio |
| Jun 2022 | - River health; Water informatics - GIS and remote sensing | | Coaching circle 15 & 16 | | Learning Portfolio |
| Jul 2022 | - Climate change; Managing Droughts and Floods - Negotiation and Conflict Management | Workshop 5 | Coaching circle 17 & 18 | | Learning Portfolio |
| Aug 2022 | Technologies that Could Transform Water Management (including WQM, WQT applications) Evaluation | | Coaching circle 19 & 20 | | Learning Portfolio |
| Sep 2022 | - Water for sustainable futures | YWP Water Conclave | | Final report | |

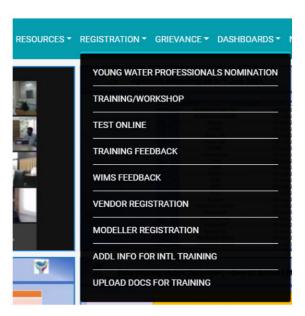
STEP-1

Go to National Hydrology Project (NHP) MIS web portal http://nhp.mowr.gov.in

STEP-2

Go to MENU, then REGISTRATION => YOUNG WATER PROFESSIONAL NOMINATION

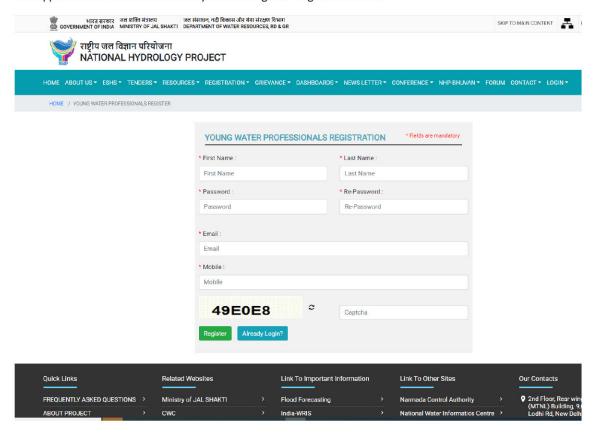




STEP-3

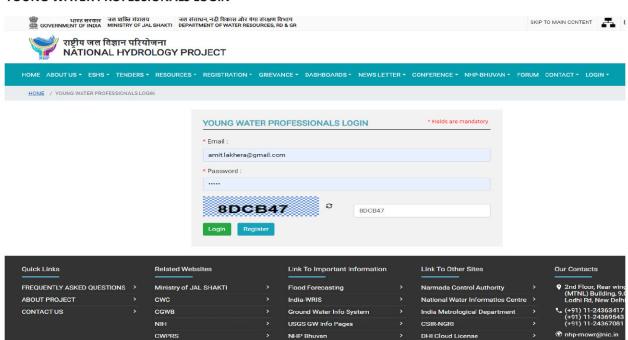
YOUNG WATER PROFESSIONALS REGISTARTION FORM

The applicant has to fill all mandatory detail using YWP registration form.



STEP-4

YOUNG WATER PROFESSIONALS LOGIN



APPLY FOR YOUNG WATER PROFESSIONALS PROGRAMME

The applicant has to fill all mandatory detail using YWP nomination form. The maximum size limit of upload recommendation of the competent authority is 30 MB & PDF only.

