Regn. No. S-E/150/Distt.South-East/16.12.2013

INSTITUTION OF WATER & ENVIRONMENT (INDIA)

committed to safe water & sustainable environment....

IWE News Letter

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NITI Aayog NGO DARPAN REGD ID : DL/2024/0431238

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WEB SITE :

https://ngodarpan.gov.in

This NGO Darpan portal **enables VOs/NGOs to enrol centrally and thus facilitates creation of a repository of information abot VOs/NGOs, Sector/State wise**. The Portal facilitates VOs/NGOs to obtain a system generated Unique ID, as and when signed.

By registering under Darpan registration, **NGOs will gain access to government schemes, grants, and partnerships, enhancing visibility and credibility**.

दर्पण पोर्टल **वीओ/एनजीओ को केंद्रीय रूप से नामांकन करने में सक्षम बनाता है और इस प्रकार वीओ/एनजीओ के बारे में सेक्टर/राज्यवार जानकारी का भंडार बनाने की सुविधा प्रदान करता है।** पोर्टल वीओ/एनजीओ को हस्ताक्षर करते समय सिस्टम द्वारा जनरेटेड यूनिक आईडी प्राप्त करने की सुविधा प्रदान करता है।

Institution of Water and Environment (INDIA) Registration No.

S-E/ 150 / Distt. South-East/2013

PAN NO.AAAAI7437A



The 2nd Executive Committee Meeting (2025) of the "Institution of Water & Environment (India)" was held on 18th September 2025 at 1230 PM in the Ground Floor Hall, Club 27, Sector 27, Noida, U.P. to discuss the agenda.

This was followed by the 28TH GOVERNING COUNCIL MEETTNG in the afternoon session, at the same venue. The Governing Council meeting was attended by members from Uttrakhand State also.

The Council decided on holding 7th AGM & 29th Council Meeting on 23rd Nov. 2025.

Riverbank Filtration

Riverbank filtration (RBF) is a cost-effective, natural water treatment technology that uses the riverbed and aquifer as a large filter to purify river water for drinking purposes. By pumping water from wells near a river, surface water is drawn through the aquifer, undergoing physical, chemical, and biological processes that remove contaminants, pathogens, and turbidity before it reaches the well. This technique creates a mix of purified bank filtrate and natural groundwater, providing a more stable and sustainable source of clean drinking water (Fig. 1).

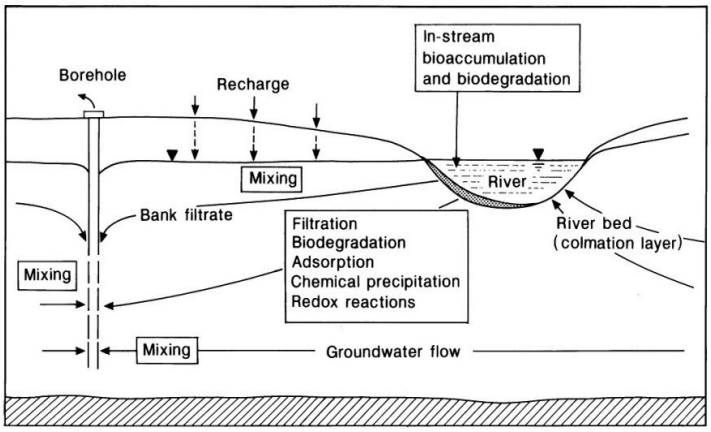


Fig. 1. Generalised schematic of an RBF system. As production wells pump water from the aquifer, surface water flows underground to refill it. As surface water travels through the sediments, contaminants are filtered. The filtrate is generally of a higher quality than raw surface water.

How It Works: (a) Inducing Flow: Wells are drilled along the riverbank and water is pumped out, (b) Infiltration: The water level in the aquifer is drawn down, which changes the flow pattern and pulls river water into the aquifer, (c) Natural Filtration: As the river water travels through the aquifer's soil and sediments towards the wells, it is filtered. During this journey, natural processes like filtration, biodegradation, adsorption, and chemical reactions occur, reducing or eliminating contaminants, (d) Mixing and Pumping: The purified bank filtrate mixes with the existing groundwater before being extracted and pumped to consumers.

Benefits of Riverbank Filtration: (a) Natural Treatment: It utilizes the earth's natural filtering capabilities, minimizing the need for chemicals like coagulants and disinfectants, (b) Reduced Costs: This chemical-free process leads to lower operating costs and avoids the problem of disposing of sludge, (c) Improved Water Quality: RBF effectively removes turbidity, microbial pathogens, and a range of organic and inorganic contaminants, improving the safety of drinking water, (d) Sustainability: It is a sustainable method that provides a reliable and continuous water supply, especially in areas with suitable hydrogeological conditions.

Suitable Conditions for RBF: For successful implementation, certain hydrogeological conditions are necessary: (a) A thick aquifer with good hydraulic conductivity (the ability to transmit water), (b) A strong hydraulic connection between the river and the aquifer, (c) Good filtering properties of the riverbed and the aquifer materials.

Some Examples from Europe: For more than 100 years, RBF has been used in Europe, most notably along the Rivers Rhine, Elbe, and Danube Rivers, to produce drinking water.

Some Examples from India: (a) Koops (>2000) in villages of Uttarakhand for water supply to small villages/ settlements even at higher elevations in Himalayas (b) Large diameter/ vertical wells located in Haridwar,

Rishikesh, Nainital, Kharagpur, Srinagar, Satpuli, Agastmuni, Kaleshwar, Karanprayag, Gauchar, Bageshwar, Kapkot etc. (Fig. 2) (c) Radial wells in Delhi, Mathura, Ahmedabad etc. (Fig. 3).



Fig. 2. Large diameter RBF wells installed at at Karnprayag, Gauchar, Bageshwer and Kapkot in Uttarakhand. Rise in height of the wells is to protect the well and continue the water supply during floods in the adjoining river



Fig. 3. (a) Direct pumping of Yamuna water at Gokul Barrage (left photo), and (b) River-bed filtration (radial well) for Mathura Refinery in Yamuna at Mathura (right photo)

Authored by

Dr Pradeep Kumar,

Life Fellow IWE & Professor (Retd.)

Deptt. Of Civil Engineering

Indian Institute of Technology

ROORKEE, Uttrakhand

The Governing Council decided to extend the date for filing of nomination for Council election.

The proforma for Nomination is attached. The candidates for nominations should be a valid corporate member (Fellow or Member) of IWE (I). Each nominee must be supported by two valid corporate member out of which one must be Life Fellow. Out of the 09 (nine) council members, at least one post is reserved from each state centre i.e. Dehradun (Uttarakhand), Chandigarh (Punjab & Haryana), Raipur (Chhattisgarh), Ranchi (Jharkhand), Bhopal (Madhya Pradesh), Delhi (NCR) and Lucknow (Uttar Pradesh). Nominations along-with a brief Biodata with in 60 words must be submitted by October end to the Election Scrutineer by e-mail (vijaikumarmittal@gmail.com) and c.c. to iwe.india@gmail.com . Nomination should be recommended by State Centre also. Each Nominator may nominate maximum two from each state but not more than 9 (nine) in total. Nomination Form must be duly filled completely.

Annex- Nomination Performa

NOTE: In case of any dispute, the decision of the Election Scrutineer will be FINAL.

(Tejpal Singh Arora)

Secretary and Director General

Copy to: 1. All corporate Members, 2. Chairman all State Centres, 3. Election Scrutineer (VKM)

INSTITUTION OF WATER AND ENVIRONMENT (INDIA)

Reg. No:.S-E/ 150/Distt. South-East/2013

E-mail: iwe.india@gmail.com Web site: www.iweindia.co.in

Regd Off. : B-149, F.F C.R. Park, New Delhi – 110019

Executive Off. : 6/148, Palm Olympia, Sector16C,

Greater Noida West, 201009

1. Information by Er. Ram Mohan Kant, D G (P)
2. Compiled by Er. P. K. Chauhan, D G (F)

Nomination form is attached below :

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FORM FOR NOMINATION OF COUNCIL MEMBERS FOR THE YEARS 2025 & 2026

To
The Election Scrutineer (Mr. Vijai K Mittal),
Institution of Water & Environment (India),
652, Vijay Park, Ballupur Road,
Dehradun-248001 (Uttarakhand)

Sir,

I .....with membership member LF/LM..... wish to contest election for the remaining period of the present tenure (2025 &2026) for the position of Council Member.

I am enclosing my brief resume for the consideration of voter/member.

Signature: Membership number:
Name: E-mail ID:
Mobile Number:
Date:

We support/recommend the name of Mr./Mrs./Smt./Dr./Prof./Er._____
Membership No._____
For the post of Council Member

Signature:
1. (Name) .....Membership No._____
Address:
Mobile no.: Email id:
Date:
Signature_____

2.(Name): .....Membership No._____
Address:
Mobile no. Email id:
Date:

Contd.

Recommended by:

Name of Centre: _____

Signature: _____ (Chairman/Hon. Secretary of the Centre)

Place: _____ Date: _____