

Date and Time: Thursday, March 30, 2023 3:10:00 PM PDT

Job Number: 193871279

Documents (10)

1. [*Project to store rainwater to fight drought in south Bihar*](#)

Client/Matter: -None-

Search Terms: hlead(*water* OR river* OR lake OR dam OR stream OR tributary OR diversion OR irrigation OR pollution OR water quality OR flood! OR drought! OR channel OR canal OR hydroelect! OR reservoir OR groundwater OR aquifer OR drought OR recharge OR "water table" OR "bore hole) and treaty OR agree! OR negotiat! OR resolution OR commission OR secretariat OR joint management OR basin management OR peace OR accord OR "peace accord" OR settle! OR cooperat! OR collaborat! OR disput! OR conflict! OR disagree! OR sanction! OR war OR troops OR "letter of protest" OR hostility OR "shots fired" OR boycott OR protest! OR appeal OR intent OR reject OR threat! OR force OR coerce OR assault OR fight OR demand OR disapprove OR diploma! OR statement OR memorandum and not ocean OR navigat! OR nuclear OR "water cannon" OR "light water reactor" OR "mineral water" OR "hold water" OR "cold water" OR "hot water" OR "water canister" OR "water tight" OR " water down" OR "flood of refugees" OR Rivera OR Suez OR Panama OR oil OR drugs OR "three gorges" OR waterski OR watermelon OR dishwater OR waterproof OR "water resistant" OR "water bath"

Search Type: Terms and Connectors

Narrowed by:

Content Type
News

Narrowed by
Timeline: Jun 30, 2008 to Mar 22, 2023

2. [*PAU VC inaugurates 'plant factory lab' at agri-engineering college Inclined tube settler for canal water filtration, bio retention cells for storm water recharge, nano filter for arsenic removal and composite filter for ground water recharge are some other new projects being taken up by the department, said PAU.*](#)

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Narrowed by:

Content Type
News

Narrowed by
Timeline: Jun 30, 2008 to Mar 22, 2023

3. [*Delhi govt to collaborate with Denmark to improve water supply, air quality*](#)

Client/Matter: -None-

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News

Narrowed by
Timeline: Jun 30, 2008 to Mar 22, 2023

4. [*CM Kejriwal, Danish Ambassador discuss avenues for collaboration*](#)

Client/Matter: -None-

Search Terms: hlead(*water* OR river* OR lake OR dam OR stream OR tributary OR diversion OR irrigation OR pollution OR water quality OR flood! OR drought! OR channel OR canal OR hydroelect! OR reservoir OR groundwater OR aquifer OR drought OR recharge OR "water table" OR "bore hole) and treaty OR agree! OR negotiat! OR resolution OR commission OR secretariat OR joint management OR basin management OR peace OR accord OR "peace accord" OR settle! OR cooperat! OR collaborat! OR disput! OR conflict! OR disagree! OR sanction! OR war OR troops OR "letter of protest" OR hostility OR "shots fired" OR boycott OR protest! OR appeal OR intent OR reject OR threat! OR force OR coerce OR assault OR fight OR demand OR disapprove OR diploma! OR statement OR memorandum and not ocean OR navigat! OR nuclear OR "water cannon" OR "light water reactor" OR "mineral water" OR "hold water" OR "cold water" OR "hot water" OR "water canister" OR "water tight" OR " water down" OR "flood of refugees" OR Rivera OR Suez OR Panama OR oil OR drugs OR "three gorges" OR waterski OR watermelon OR dishwater OR waterproof OR "water resistant" OR "water bath"

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Timeline: Jun 30, 2008 to Mar 22, 2023

5. [*Belgium : The European Commission decides to refer BELGIUM to the Court of Justice of the European Union for failing to protect its population and ecosystems from nitrate pollution*](#)

Client/Matter: -None-

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Timeline: Jun 30, 2008 to Mar 22, 2023

6. [Drop concrete lining idea in Lower Bhavani canal, demand farmers](#)

Client/Matter: -None-

Search Terms: hlead(*water* OR river* OR lake OR dam OR stream OR tributary OR diversion OR irrigation OR pollution OR water quality OR flood! OR drought! OR channel OR canal OR hydroelect! OR reservoir OR groundwater OR aquifer OR drought OR recharge OR "water table" OR "bore hole) and treaty OR agree! OR negotiat! OR resolution OR commission OR secretariat OR joint management OR basin management OR peace OR accord OR "peace accord" OR settle! OR cooperat! OR collaborat! OR disput! OR conflict! OR disagree! OR sanction! OR war OR troops OR "letter of protest" OR hostility OR "shots fired" OR boycott OR protest! OR appeal OR intent OR reject OR threat! OR force OR coerce OR assault OR fight OR demand OR disapprove OR diploma! OR statement OR memorandum and not ocean OR navigat! OR nuclear OR "water cannon" OR "light water reactor" OR "mineral water" OR "hold water" OR "cold water" OR "hot water" OR "water canister" OR "water tight" OR " water down" OR "flood of refugees" OR Rivera OR Suez OR Panama OR oil OR drugs OR "three gorges" OR waterski OR watermelon OR dishwater OR waterproof OR "water resistant" OR "water bath"

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Timeline: Jun 30, 2008 to Mar 22, 2023

7. [European Commission Decides to Refer Belgium to Court Of Justice Of EU for Failing to Protect Its Population, Ecosystems From Nitrate Pollution](#)

Client/Matter: -None-

Search Terms: hlead(*water* OR river* OR lake OR dam OR stream OR tributary OR diversion OR irrigation OR pollution OR water quality OR flood! OR drought! OR channel OR canal OR hydroelect! OR reservoir OR groundwater OR aquifer OR drought OR recharge OR "water table" OR "bore hole) and treaty OR agree! OR negotiat! OR resolution OR commission OR secretariat OR joint management OR basin management OR peace OR accord OR "peace accord" OR settle! OR cooperat! OR collaborat! OR disput! OR conflict! OR disagree! OR sanction! OR war OR troops OR "letter of protest" OR hostility OR "shots fired" OR boycott OR protest! OR appeal OR intent OR reject OR threat! OR force OR coerce OR assault OR fight OR demand OR disapprove OR diploma! OR statement OR memorandum and not ocean OR navigat! OR nuclear OR "water cannon" OR "light water reactor" OR "mineral water" OR "hold water" OR "cold water" OR "hot water" OR "water canister" OR "water tight" OR " water down" OR "flood of refugees" OR Rivera OR Suez OR Panama OR oil OR drugs OR "three gorges" OR waterski OR watermelon OR dishwater OR waterproof OR "water resistant" OR "water bath"

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Timeline: Jun 30, 2008 to Mar 22, 2023

8. [Janardan Rai Nagar Rajasthan Vidyapeeth University Files Patent Application for Spatial Decision Support System for Groundwater Recharge Through Rooftop Rainwater Harvesting in Urban Areas Using High Resolution Satellite Data and GIS Approach](#)

Client/Matter: -None-

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Timeline: Jun 30, 2008 to Mar 22, 2023

9. [Northeast Normal University Reports Findings in Life Science \[Self-rescue of nitrogen-cycling bacteria under b-lactam antibiotics stress during managed aquifer recharge \(MAR\): Microbial collaboration and anti-resistance\]](#)

Client/Matter: -None-

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Timeline: Jun 30, 2008 to Mar 22, 2023

10. [Belgium : The European Commission decides to refer BELGIUM to the Court of Justice of the European Union for failing to protect its population and ecosystems from nitrate pollution](#)

Client/Matter: -None-

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Search Type: Terms and Connectors

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News

Narrowed by
Timeline: Jun 30, 2008 to Mar 22, 2023

Project to store rainwater to fight drought in south Bihar

The Times of India (TOI)

March 2, 2023 Thursday

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Section: PATNA

Length: 312 words

Byline: Manoj Chaurasia

Body

Patna: With **drought** now becoming an annual feature in south Bihar, the environment, forest and climate change department has launched an ambitious project nicknamed "garland trenching" to store rainwater which could be used for **irrigation** in times of crisis. The department has planned to store 6.69 lakh cubic meter rainwater through this project inside the natural forests, according to an announcement made by the forest minister Vijay Kumar Chaudhary in his budget speech that he made on the floor of the state assembly on Tuesday. A garland trench is a shallow ditch for draining surface or subsoil **water** before it reaches a trough. The government believes the idea if implemented will not only **recharge groundwater** but could also be used for **irrigation** purposes in times of crisis.

Although the government didn't announce how many "Garland Trenches" it plans in the coming financial year, informed sources said some 40 such trenches will be dug out. The finance minister also announced that the department while giving more prominence to bamboo plantation is carrying out bamboo plantation not only in the forest areas but also along the riverbanks, canal banks and on private land. At the same time, the department is promoting plantation of Poplar and Eucalyptus trees. The minister also announced to carry out a survey of medicinal plants found in the state with the help of Hyperspectral sensor mounted even as the department has focussed its attention on carrying out a massive plantation drive in the state to increase state's green cover from existing 15 percent to 17 percent. In his speech, Chaudhary also mentioned that the number of tigers is constantly increasing in the Valmiki Tiger Reserve (VTR) as a result of development of water resources, security and protection, domicile management and development of grassland. For Reprint Rights: timescontent.com

Load-Date: March 1, 2023

PAU VC inaugurates 'plant factory lab' at agri-engineering college; Inclined tube settler for canal water filtration, bio retention cells for storm water recharge, nano filter for arsenic removal and composite filter for ground water recharge are some other new projects being taken up by the department, said PAU.

Indian Express

December 8, 2022 Thursday

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Length: 372 words

Byline: Express News Service

Body

Inclined tube **settler** for **canal water** filtration, bio retention cells for storm **water recharge**, nano filter for arsenic removal and composite filter for **ground water recharge** are some other new projects being taken up by the department, said PAU.

To grow plants in multi-tier hydroponics system, a plant factory lab was inaugurated at Punjab Agricultural University (PAU) in Ludhiana on Wednesday.

V-C Dr Satbir Singh Gosal said that the varsity was trying to grow plants in closed growing systems utilizing artificial control of light, temperature, moisture, and carbon dioxide, and a plant factory lab has been established for the purpose in the department of Soil and Water Engineering, College of Agricultural Engineering and Technology.

The research could herald a huge step forward in both multi-tier production (vertical farming) and hydroponics, he said.

Commenting on the new concepts like hydroponics and aeroponics, he observed that such work entails an interdisciplinary approach and the university already has a system in place for such tasks. "Tapping into distributed intelligence of a group in **collaborative** research increases the chances of solving problems more efficiently," he added.

Dr Ajmer Singh Dhatt, Director of Research, exhorted the scientists to explore the possibility of germplasm screening and speed breeding in future. "Plant factories have become a rising star of the farming industry in the recent years," he said.

Explaining the concept, Dr Rakesh Sharda, Principal Scientist (Plasticulture), revealed that the lab could provide 'light recipes' and controlled conditions to deliver the necessary requirements for plants during their differing growth stages, with pinpoint precision. By tailoring the conditions to the 'action spectrum' of the species at different points in its development, it will boost the plant's photosynthetic processes, ensuring it absorbs and uses the maximum amount possible for physiological activity, rather than it going to waste.

PAU VC inaugurates 'plant factory lab' at agri-engineering college; Inclined tube settler for canal water filtration, bio retention cells for storm water rechar....

Inclined tube settler for canal water filtration, bio retention cells for storm water recharge, nano filter for arsenic removal and composite filter for ground water recharge are some other new projects being taken up by the department, said PAU.

Load-Date: December 8, 2022

End of Document

Delhi govt to collaborate with Denmark to improve water supply, air quality

Indian Express

June 11, 2022 Saturday

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Length: 351 words

Byline: Express News Service

Body

Delhi CM Arvind Kejriwal held a meeting with Denmark's Ambassador to India H. E. Freddy Svane on Friday to discuss air **pollution**, **groundwater recharge**, and development of world-class road infrastructure.

The Delhi government has planned to join hands with Denmark to address the ongoing water scarcity in the city and improve road infrastructure. A detailed plan in this regard will be prepared, said Chief Minister Arvind Kejriwal.

Kejriwal held a meeting with Denmark's Ambassador to India H. E. Freddy Svane on Friday to discuss air pollution, groundwater recharge, and development of world-class road infrastructure. After the meeting, Kejriwal said, "We are redeveloping 500 km of Delhi's roads on a par with European standards. We can **collaborate** with Denmark on the road beautification project, if required."

Praising the AAP government's efforts to curb air pollution, Danish Ambassador Svane also appreciated the e-auto project and said he had the opportunity to drive an e-auto, which he found enjoyable and exciting.

Deputy CM and PWD minister Manish Sisodia and Urban Development Counselor of the Denmark Embassy Anitha Kumari Sharma were also at the meeting.

On projects surrounding water conservation, Kejriwal said, "We are working on groundwater recharge and can do better work together with Denmark. There is a lot of potential in Delhi to use rainwater for groundwater recharge, and this can help us meet our water requirements."

The CM also asked the Ambassador of Denmark for a detailed presentation on groundwater recharge projects in Denmark, which the Delhi government can emulate.

"Our government strives to ensure that our citizens can breathe pure air. The results of our various initiatives to curb pollution are visible. There has been a significant reduction in air pollution in Delhi. We are promoting electric vehicles and have implemented an EV policy under which a subsidy is given to people to purchase more such vehicles," said Kejriwal.

The Delhi government is currently revamping 16 road stretches across the city under its streetscaping project, which will be completed by October.

Load-Date: June 11, 2022

Delhi govt to collaborate with Denmark to improve water supply, air quality

End of Document

CM Kejriwal, Danish Ambassador discuss avenues for collaboration

The Pioneer (India)

June 11, 2022 Saturday

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Length: 374 words

Dateline: New Delhi

Body

New Delhi, June 11 -- Delhi Chief Minister Arvind Kejriwal and Denmark Ambassador Freddy Swain on Friday discussed avenues for collaboration in round-the-clock tap water supply, air purity and world-class roads. Kejriwal asked Swain for a presentation on Denmark's efforts on recharging groundwater and reducing air pollution so that the Delhi government could work with the European country in implementing it in the national capital.

Underlining that he wants Delhi's roads to be world class, Kejriwal shared that the government is redeveloping 500 km roads in the national capital as per European standards. "We can collaborate with Denmark on the road beautification project if need be," he said.

"We are aiming to beautify Delhi's 500-kilometre-long roads in the style of European countries. We have chosen a few routes in Delhi for a pilot project, and progress at these sites is in full swing. There appears to be ample room for improvement and suggestions in our initiative. Therefore, we are excited to collaborate with Denmark on road infrastructure. We wish to learn from the improvements Denmark has made to its road infrastructure and integrate those in our projects for better results," Kejriwal said.

Swain praised the city government's efforts in reducing air pollution, the statement said. The Danish ambassador was especially "fond" of the Delhi government's electric vehicle policy. He also appreciated the e-auto project of the Delhi government and mentioned that he has had the pleasure of driving an e-auto, which he found to be both enjoyable and exciting, it said. Deputy Chief Minister Manish Sisodia was also present during the meeting.

Swain was accompanied by Anitha Kumari Sharma, the Embassy of Denmark's Urban Development Counselor. Kejriwal also said his government was working on groundwater recharge and was of the opinion that it could do a better job in collaboration with Denmark in this area.

He said that there is a huge potential in Delhi to harvest rainwater and use it in meeting the city's water requirements.

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Load-Date: June 10, 2022

Belgium : The European Commission decides to refer BELGIUM to the Court of Justice of the European Union for failing to protect its population and ecosystems from nitrate pollution

Mena Report

February 18, 2023 Saturday

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Length: 290 words

Body

The European **Commission** decided to refer Belgium to the Court of Justice of the European Union for failing to take sufficient action in the Walloon region on nitrate **pollution** as required under the Nitrates Directive (Council Directive 91/676/EEC). The directive aims to protect surface and **ground water** against **pollution** from agricultural sources. The European Green Deal, with its Zero **Pollution** ambition, calls for air, **water** and soil **pollution** to be reduced to levels no longer considered harmful to human health and natural ecosystems.

Under the Nitrates Directive, Member States are required to monitor their waters and identify those affected or likely to be affected by pollution caused by nitrates from agricultural sources. They are also required to set up appropriate action programmes to prevent and reduce such pollution.

The action programme applicable in the Walloon region (Programme de Gestion durable de l'azote en agriculture', version 3) dates back to 2014 and does not meet the requirements the Nitrates Directive sets for such action programmes. Whereas groundwater quality decreased in about 30% of groundwater monitoring points, the Belgian authorities have not revised this action programme to bring it into line with the requirements of the Nitrates Directive.

The **Commission** sent a letter of formal notice to Belgium in February 2014, an additional letter of formal notice in November 2019 and a reasoned opinion in July 2020. Despite some progress, the Belgian authorities have not fully addressed the grievances.

For these reasons, the **Commission** considers that efforts by the Belgian authorities have to date been unsatisfactory and insufficient and is referring Belgium to the Court of Justice of the European Union.

Load-Date: February 20, 2023

Drop concrete lining idea in Lower Bhavani canal, demand farmers

Utilities Monitor Worldwide

March 6, 2021 Saturday

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Length: 277 words

Body

The Lower Bhavani **Dam**, the second largest in Tamil Nadu, is unique as it was built with earth along with its **canal** to help **recharge** the **groundwater** table. The **dam irrigates** a total area of over 2,07,000 acres and the **canal** has been designed to supply **water** for 1,03,500 acres at a single time.

Even when the sluice gates are opened for direct irrigation in 1,03,500 acres, the remaining farm land gets recharged with increase in water level in wells and tanks for irrigation needs. However, such recharge of ground water level may be affected in more than 60,000 acres of agricultural land due to the lining of concrete in the Lower Bhavani Project canal, said C Nallasamy, president of Keel Bhavani Vivasayigal Nala Sangam in a **statement**.

Also the excess water from LBP project can be taken for Kodiveri canal irrigation and Kalingarayan canal irrigation, before draining into Cauvery for irrigation in Delta districts.

In 2013, the government then took up concrete lining of the LBP canal, however was dropped after farmers vehemently opposed it. Now again after seven years, the government has opened tenders for the project by just referring to renovation works without mentioning concrete lining. The project was launched by Prime Minister Narendra Modi on his visit to Coimbatore last month, he added.

It was also pointed out that the concrete lining of the PAP canal project had turned out to be a failure and the concrete slabs fixed in Mullai Periyar canal came away. Instead of concrete lining, the farmers body suggested that widening of the canal and heightening its bunds will ensure better flow of water till the tail end areas. 2021 Global Data Point.

Load-Date: March 6, 2021

European Commission Decides to Refer Belgium to Court Of Justice Of EU for Failing to Protect Its Population, Ecosystems From Nitrate Pollution

Targeted News Service

February 17, 2023 Friday 9:10 AM EST

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Length: 617 words

Byline: Targeted News Service

Dateline: BRUSSELS, Belgium

Body

The European **Commission** issued the following news release:

The European **Commission** decided to refer Belgium to the Court of Justice of the European Union for failing to take sufficient action in the Walloon region on nitrate **pollution** as required under the Nitrates Directive (Council Directive 91/676/EEC). The directive aims to protect surface and **ground water** against **pollution** from agricultural sources. The European Green Deal, with its Zero **Pollution** ambition, calls for air, **water** and soil **pollution** to be reduced to levels no longer considered harmful to human health and natural ecosystems.

Under the Nitrates Directive, Member States are required to monitor their **waters** and identify those affected or likely to be affected by **pollution** caused by nitrates from agricultural sources. They are also required to set up appropriate action programmes to prevent and reduce such **pollution**.

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The **Commission** sent a letter of formal notice to Belgium in February 2014, an additional letter of formal notice (https://ec.europa.eu/commission/presscorner/detail/EN/INF_19_6304) in November 2019 and a reasoned opinion (https://ec.europa.eu/commission/presscorner/detail/EN/INF_20_1212) in July 2020. Despite some progress, the Belgian authorities have not fully addressed the grievances.

For these reasons, the **Commission** considers that efforts by the Belgian authorities have to date been unsatisfactory and insufficient and is referring Belgium to the Court of Justice of the European Union.

* * *

Background

The Nitrates Directive (Council Directive 91/676/EEC) aims to protect water quality across Europe by preventing nitrates from agricultural sources polluting ground and surface waters and by promoting the use of good farming practices. Excess levels of nitrates can damage freshwaters and the marine environment by a process known as

European Commission Decides to Refer Belgium to Court Of Justice Of EU for Failing to Protect Its Population, Ecosystems From Nitrate Pollution

'eutrophication', promoting excessive growth of algae that chokes other life and kills fish in lakes and rivers. Purifying excess nitrates from drinking water is also a very costly process. The Nitrates Directive forms an integral part of the Water Framework Directive (2000/60/EC [<http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32000L0060>]) and is one of the key instruments in the protection of waters against agricultural pressures.

The **Commission** has today opened another case (https://ec.europa.eu/atwork/applying-eu-law/infringements-proceedings/infringement_decisions/index.cfm?lang_code=EN&typeOfSearch=false&active_only=0&noncom=0&r_dossier=INFR%282022%292051&decision_date_from=&decision_date_to=&title=&submit=Search) against Belgium for poor water quality due to nitrates pollution in Flanders.

* * *

For More Information

Infringement decisions database (https://ec.europa.eu/atwork/applying-eu-law/infringements-proceedings/infringement_decisions/?lang_code=en)

EU infringement procedure (https://ec.europa.eu/info/law/law-making-process/applying-eu-law/infringement-procedure_en)

Link to February 2023 infringements package (https://ec.europa.eu/commission/presscorner/detail/en/inf_23_525)

* * *

Original text here: https://ec.europa.eu/commission/presscorner/detail/en/ip_23_503

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Load-Date: February 17, 2023

Janardan Rai Nagar Rajasthan Vidyapeeth University Files Patent Application for Spatial Decision Support System for Groundwater Recharge Through Rooftop Rainwater Harvesting in Urban Areas Using High Resolution Satellite Data and GIS Approach

Indian Patents News

November 19, 2022 Saturday 7:30 AM EST

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Length: 318 words

Body

Kolkata, Nov. 19 -- India-based Janardan Rai Nagar Rajasthan Vidyapeeth University filed patent application for spatial decision support system for **groundwater recharge** through rooftop rainwater harvesting in urban areas using high **resolution** satellite data and GIS approach. The inventor is Dr Yuvraj Singh Rathore.

Janardan Rai Nagar Rajasthan Vidyapeeth University filed the patent application on Feb. 15, 2022. The patent application number is 202211007823 A. The international classification numbers are G06T0017050000, G06Q0010060000, G06F0016290000, G09B0029000000 and G06Q0050160000.

The abstract of the patent published by the Controller General of Patents, Designs & Trade Marks states: "The present invention relates to a spatial decision support system for groundwater recharge through rooftop rainwater harvesting in urban areas using high **resolution** satellite data and gis approach. In the present invention it is developed to provide the general public with the scientific information to carry out artificial recharge in an urban area using the rooftop rainwater harvesting. Spatial Decision Support Systems (SDSS) are one of the most advanced and user friendly ways for the dissemination information to the users. Herein the said process comprises of; Land use Classification & NDVI, Pre-monsoon, post-monsoon ground water fluctuations and net ground water fluctuation, Generation of Digital Elevation Model and stratigraphic profiles for the area and slope map, Generation of weights for various parameters taken into consideration by AHP, Weighted Overlay analysis for the generation of suitability map."

The Patent was published in the Issue No. 33/2022 of the Patent Office Journal on Aug. 19, 2022.

About the Applicant

Janardan Rai Nagar Rajasthan Vidyapeeth University is a deemed university in the city of Udaipur in the Indian state of Rajasthan. It got the status of deemed university in 1987.

Load-Date: November 19, 2022

Northeast Normal University Reports Findings in Life Science [Self-rescue of nitrogen-cycling bacteria under b-lactam antibiotics stress during managed aquifer recharge (MAR): Microbial collaboration and anti-resistance]

Chemicals & Chemistry Daily

February 7, 2023 Tuesday

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Section: LIFE SCIENCE

Length: 664 words

Body

2023 FEB 07 (NewsRx) -- By a News Reporter-Staff News Editor at Chemicals & Chemistry Daily Daily -- New research on Life Science is the subject of a report. According to news reporting from Changchun, People's Republic of China, by NewsRx journalists, research stated, "Storing reclaimed water via managed aquifer recharge (MAR) is an effective strategy for alleviating groundwater overdraft and achieving water resource recycling simultaneously. However, b-lactam antibiotics in the reclaimed water can induce stress on aquifer system, reshape microbial community, and affect the emergence and prevalence of antibiotic resistance genes (ARGs)."

Funders for this research include National Natural Science Foundation of China, Fundamental Research Funds for the Central Universities.

The news correspondents obtained a quote from the research from Northeast Normal University, "In this study, three sandy soil columns (H 1.5 m, ID 14 cm) were employed to simulate MAR, and synthetic reclaimed water containing either amoxicillin (AMO), ampicillin (AMP) or oxacillin (OXA) was continuously recharged for 120 d. The temporal and spatial attenuation of b-lactams and nitrogen was studied, and microbial collaboration and the resistance mechanism were elaborated. Biodegradation is the main pathway for b-lactams elimination, AMO and AMP were eliminated when migrating 30 cm, while the attenuation of OXA experienced in the whole column with final removal efficiency of 82%. Moreover, refractory OXA induced more ARGs production, and approximately 10% and 13% higher than that of AMO and AMP columns. Efflux pump and antibiotics inactivation were the two major resistance mechanisms. NO-N gradually decreased (by 26%, 38%, and 49% for AMO, AMP, and OXA, respectively) along the recharge direction. Microbial co-occurrence network revealed that nitrogen-cycling bacteria were the keystone species in aquifer community, and ammonification provided NH-N for the nitrification process of ammonia-oxidizing archaea (AOA), promoting the further denitrification for nitrogen removal in MAR process. Nitrogen-cycling bacteria were the key and active ARG hosts, which could keep nitrogen transformation activity under antibiotics stress."

Northeast Normal University Reports Findings in Life Science [Self-rescue of nitrogen-cycling bacteria under b-lactam antibiotics stress during managed aquifer

According to the news reporters, the research concluded: "In sum, nitrogen-cycling bacteria exhibited intimate **collaboration** and elastic resistance in response to the malnutrition environment and b-lactams exposure during MAR."

This research has been peer-reviewed.

For more information on this research see: Self-rescue of nitrogen-cycling bacteria under b-lactam antibiotics stress during managed aquifer recharge (MAR): Microbial **collaboration** and anti-resistance. Water Research, 2023;231:119623. Water Research can be contacted at: Pergamon-elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, England. (Elsevier - www.elsevier.com; Water Research - www.journals.elsevier.com/water-research/)

Our news journalists report that additional information may be obtained by contacting Congli Chen, Engineering Lab for Water Pollution Control and Resources Recovery of Jilin Province, School of Environment, Northeast Normal University, Changchun 130117, People's Republic of China. Additional authors for this research include Yuanping Fang, Bin Cui and Dandan Zhou.

The direct object identifier (DOI) for that additional information is: <https://doi.org/10.1016/j.watres.2023.119623>. This DOI is a link to an online electronic document that is either free or for purchase, and can be your direct source for a journal article and its citation.

Publisher contact information for the journal Water Research is: Pergamon-elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, England.

Keywords for this news article include: Changchun, People's Republic of China, Asia, Life Science, Nitrogen.

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Load-Date: February 7, 2023

Belgium : The European Commission decides to refer BELGIUM to the Court of Justice of the European Union for failing to protect its population and ecosystems from nitrate pollution

TendersInfo

February 18, 2023 Saturday

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Length: 290 words

Body

The European **Commission** decided to refer Belgium to the Court of Justice of the European Union for failing to take sufficient action in the Walloon region on nitrate **pollution** as required under the Nitrates Directive (Council Directive 91/676/EEC). The directive aims to protect surface and **ground water** against **pollution** from agricultural sources. The European Green Deal, with its Zero **Pollution** ambition, calls for air, **water** and soil **pollution** to be reduced to levels no longer considered harmful to human health and natural ecosystems.

Under the Nitrates Directive, Member States are required to monitor their waters and identify those affected or likely to be affected by pollution caused by nitrates from agricultural sources. They are also required to set up appropriate action programmes to prevent and reduce such pollution.

The action programme applicable in the Walloon region (Programme de Gestion durable de l'azote en agriculture', version 3) dates back to 2014 and does not meet the requirements the Nitrates Directive sets for such action programmes. Whereas groundwater quality decreased in about 30% of groundwater monitoring points, the Belgian authorities have not revised this action programme to bring it into line with the requirements of the Nitrates Directive.

The **Commission** sent a letter of formal notice to Belgium in February 2014, an additional letter of formal notice in November 2019 and a reasoned opinion in July 2020. Despite some progress, the Belgian authorities have not fully addressed the grievances.

For these reasons, the **Commission** considers that efforts by the Belgian authorities have to date been unsatisfactory and insufficient and is referring Belgium to the Court of Justice of the European Union.

Load-Date: February 20, 2023

Belgium : The European Commission decides to refer BELGIUM to the Court of Justice of the European Union for failing to protect its population and ecosystems fr....

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