Training on Science & Technology of Compatible Reverse Osmosis (RO) System Design, Maintenance & Servicing

On 11 August 2017 (Friday)

Offered by
Board of Study in Agricultural Engineering

For more details:
Course Coordinator
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OR

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Name (Rev/Prof/Dr/Mr/Ms)…………………………
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Gender ………Male / Female …………………..
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Institution (if any)……………………………………
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Contact No…………………………………………
…………………………………………………………

Email………………………………………………..
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Involvement with RO unit…..Importer / Manufacturer / Seller / Trainer / Researcher / Student / Other (pl. specify)…………………………
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Please mail this form together with the cheque / receipt to:

Cap-Net Secretariat
Postgraduate Institute of Agriculture
Old Galaha Road
Peradeniya

OR

Hand it over at the information counter at the PGIA lobby.
Background: CKDu that emerged in the early 1990s appeared first in the North Central Province and later spread to five more provinces in the Dry Zone. The endemic area is the home to over 2.5 million rural people. The number of deaths so far has been estimated to be over 22,000, and the cost of treatment has been over Rs. 4,000 million every year.

Based on the outcome of the National CKDu Research Project, WHO has recommended a number of short and long term actions to minimize the issue; the priority is to supply clean drinking water. As such, government, NGOs and individuals are investing on RO plants. However, there are frequent failures of these units, and increasing complaints on the cost and increased frequency of filter replacement.

The Dept. of Agricultural Engineering of the University of Peradeniya with the assistance of internationally reputed experts has attempted to redesign RO units suitable for different water quality regimes in the country and successfully tested those units under field conditions.

The new membrane system designed reduces the initial cost by 60% compared to the available systems. Especially, a locally made sand filter lowers the initial cost by 75%. The anti-scalant injection system is 90% lower in initial cost, 80% lower in operating cost, and minimizes the adverse environmental impact due to softeners used in the present RO units. The newly developed RO system with integrated pre-treatment reduces the water production cost by 40% and also reduces the feed water volume by 40%.

Objective: To disseminate the science of RO & to transfer the compatible technology to the water sector experts for reducing the cost of producing safe drinking water in the CKDu affected areas.

Target Group: Engineers, Scientists and Technologists in Water Sector

Course Fee: Rs. 10,000.00 per participant

The fee will cover the cost of training materials, refreshments and lunch.

Date: 11th August 2017 (Friday)

Time: 9.00 am to 4.00 pm

Venue: Postgraduate Institute of Agriculture, Old Galaha Road, Peradeniya

The training will be offered only to a small group and opportunity will be given on first come first serve basis.

If you are the right candidate, please send us the completed registration form together with a Cheque for Rs.10,000/- drawn in favour of The Director, PGIA, Peradeniya or the receipt of payment made to the PGIA, to the AC No. 057100131338027, Peoples Bank, Peradeniya.

The payment also can be made at the Shroff Counter at the PGIA on any working day between 9.00 am and 3.00 pm.

Topics of the day:
- Water and health.
- Chronic Kidney Disease of unknown etiology.
- Quality of drinking water and source water.
- Fundamentals of filtration and membrane technology.
- Reverse osmosis technology for drinking water production
- Reverse osmosis membranes, modules, and systems.
- Performance of membranes and membrane systems.
- Membrane fouling and pretreatment of source water.
- Operation of reverse osmosis systems and membrane cleaning.
- Post-treatment of filtered water.
- Lessons with interactive discussion.
- Demonstration of membrane operation and cleaning.