

(Bangladesh Mobile Water Purification Plant)
Compact Portable Distribution Type Purification Plant
and Environmental Education

New Cycloclean



Nippon Basic Co., Ltd.

Outline of Nippon Basic

Nippon Basic works to contribute to the production of safe drinking water.

We are producing drinking water in Bangladesh in a private/government collaboration with Japan International Cooperation Agency (JICA).



Name	Nippon Basic Co., Ltd.
Location	2 nd floor Ujihashi Building, 767-2 Shin-Maruko-machi, Nakahara-ku, Kawasaki, Kanagawa, Japan 211-0005 2-minute walk from Shin-Maruko Station on Tokyu Toyoko Line TEL.+81-(0)44-738-2215 FAX.+81-(0)44-738-2216 Email nipponbasic@ceres.ocn.ne.jp URL http://www.nipponbasic.ecnet.jp
Representative President	Yuichi Katsuura
Established	May 2005
Capital	35 million yen
Banks	Musashi Kosugi Branch of The Bank of Yokohama Motosumiyoshi Branch of The Bank of Tokyo-Mitsubishi UFJ Musashi Kosugi Branch of The Shiba Shinkin Bank Musashi Kosugi Branch of Kawasaki Shinkin
Main Sales Contacts	Kawasaki City, JICA AIT Corporation, ALSOK Desh Bidesh Enterprise Co., Ltd. (Bangladesh) Myanmar Yutani Co., Ltd. (Myanmar) and others
Main Suppliers	Basic Co., Ltd., Miyata Cycle Co., Ltd. Osawa Seisakusho Co., Ltd., MIZSEI MFG CO., LTD. KITZ MICROFILTER CORPORATION, PRIMENET and others
Products	Water purification systems integrated into bicycles, Seawater desalination equipment, Portable water purification kits for disaster situations, Water purification equipment for at all times (disasters included), Gasoline engine driven water purification equipment and others

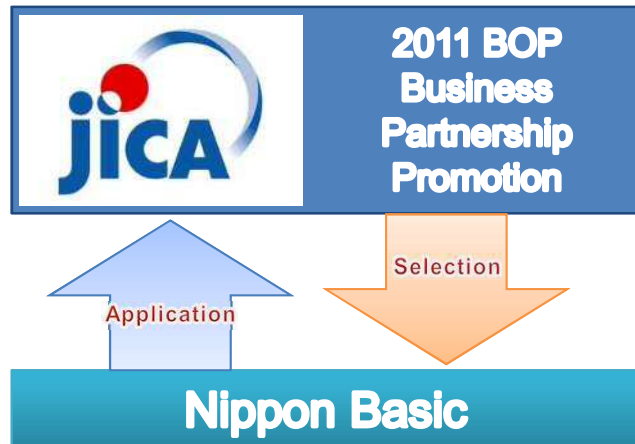
Outline of Collaboration between Nippon Basic and JICA



Challenging to provide rural villages in
Bangladesh with safe drinking water

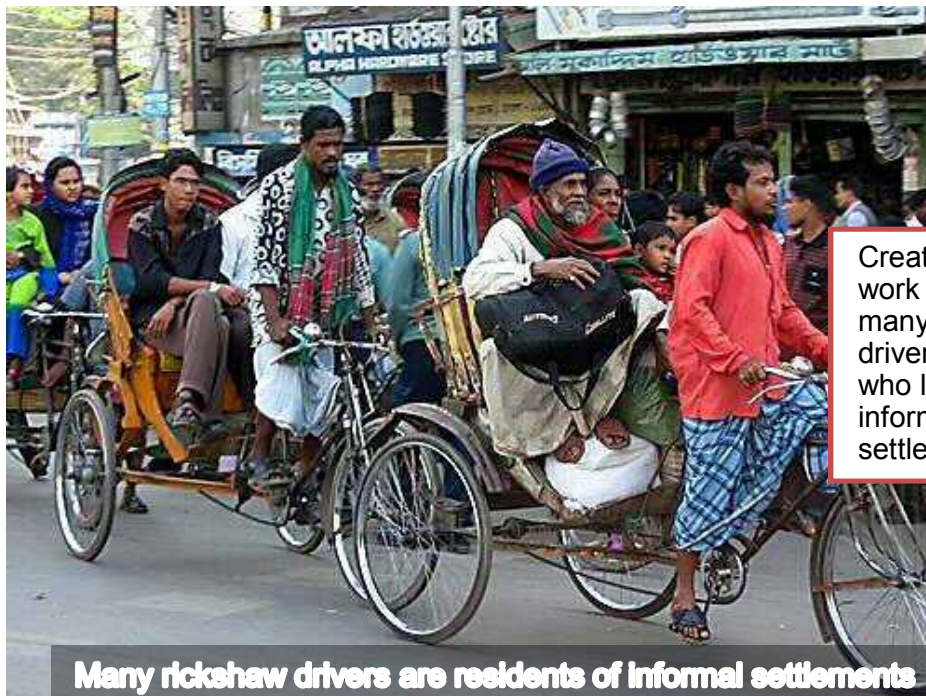
JICA-BOP Business (Working in Urban Informal Settlements)

Informal Settlers Challenging to Create Water Business in Informal Settlements

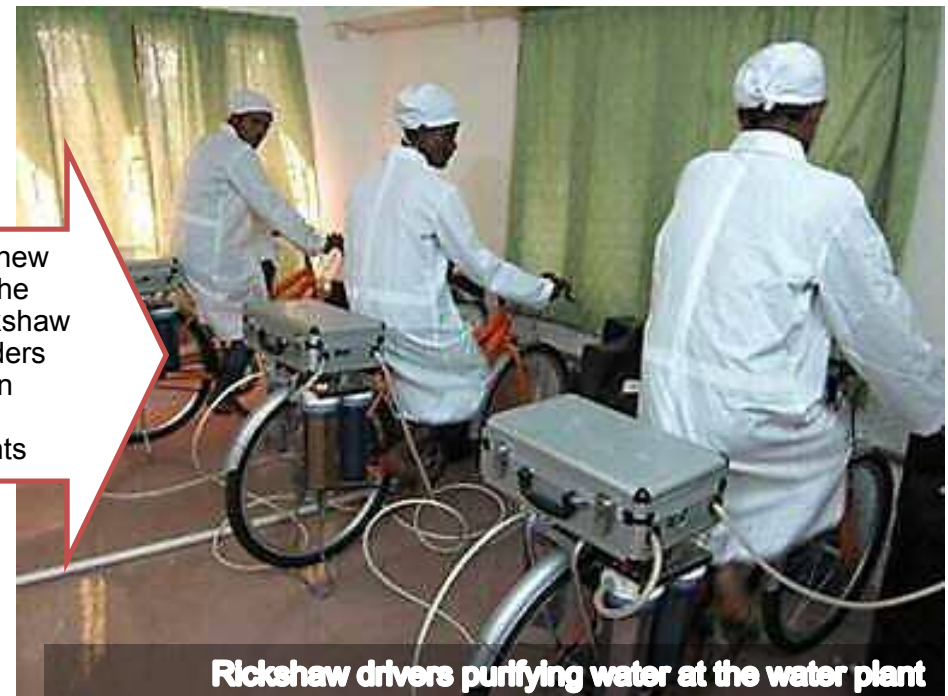


With the backing of JICA financial support, we built a water plant on the outskirts of Dacca in Bangladesh, and started a water supply business for informal settlements.

- Using leg power of rickshaw drivers in informal settlements
- Pedal power creating cheap, safe water
- Contributing to improvements in hygiene by providing safe, clean, affordable drinking water to informal settlements



Many rickshaw drivers are residents of informal settlements



Rickshaw drivers purifying water at the water plant

Creating new work for the many rickshaw drivers/riders who live in informal settlements



Water hygiene class in an informal settlement

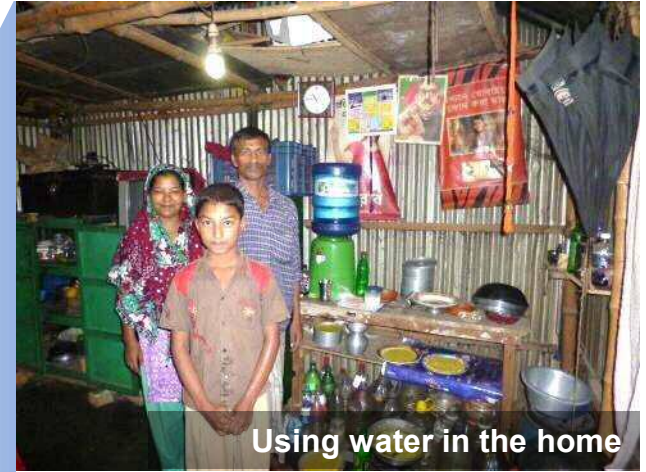
Water supply in informal settlements has started

There has been a big public response to the water supply activities in informal settlements, even leading to the start of water hygiene education that targets children, with hundreds of children and adults attending each hygiene talk.



The safe water is made use of in the informal settlements, with tea shops using the water in milk tea (5 taka per cup) and cups of water (1 taka per cup), In this way, base of the economic pyramid (BOP) business has begun.

Life with safe water has started



Using water in the home



Clean water is good for business



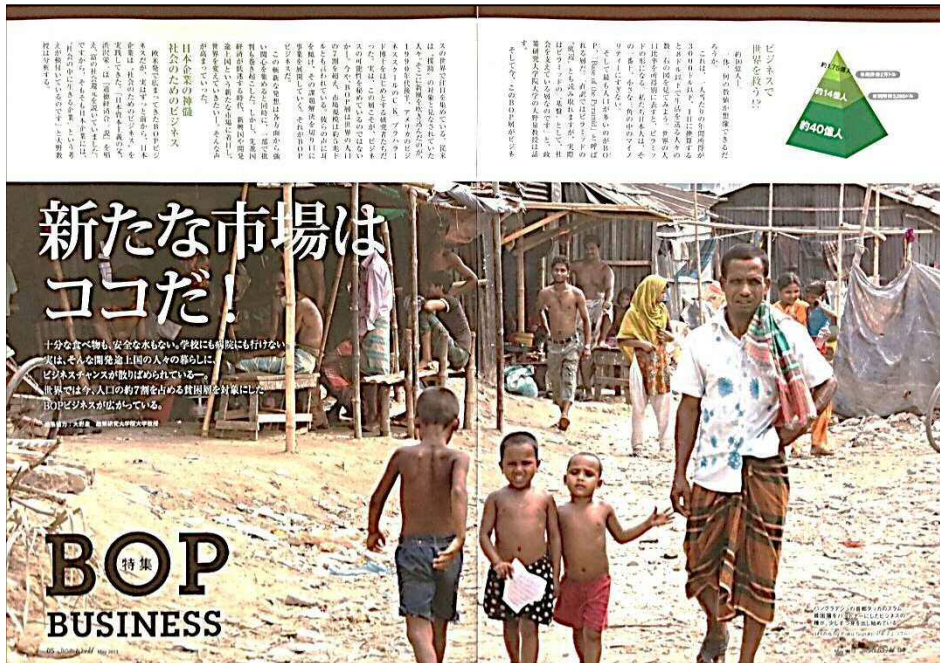
A tea shop proprietress

Evaluation of Bangladesh BOP Business



JICA's World
May 2013 publication

On-the-spot article about
Bangladesh BOP Project



Widespread arsenic pollution means arduous work for women and loss of school opportunities for children who have to go far afield to fetch clean water.

People are being driven to use dirty wetland water in agricultural communities.

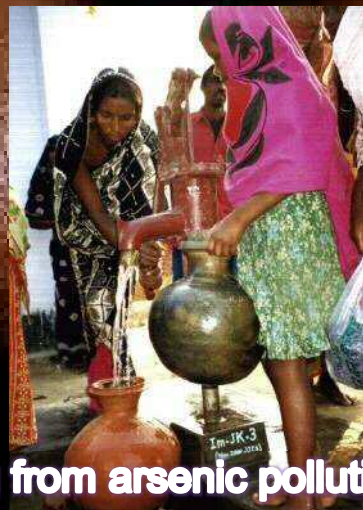
Our aim is to introduce portable, compact, non-electrical water purification devices into agricultural communities.

From Informal Settlements to Agricultural Communities

Agricultural Communities are the Centerpiece of BOP



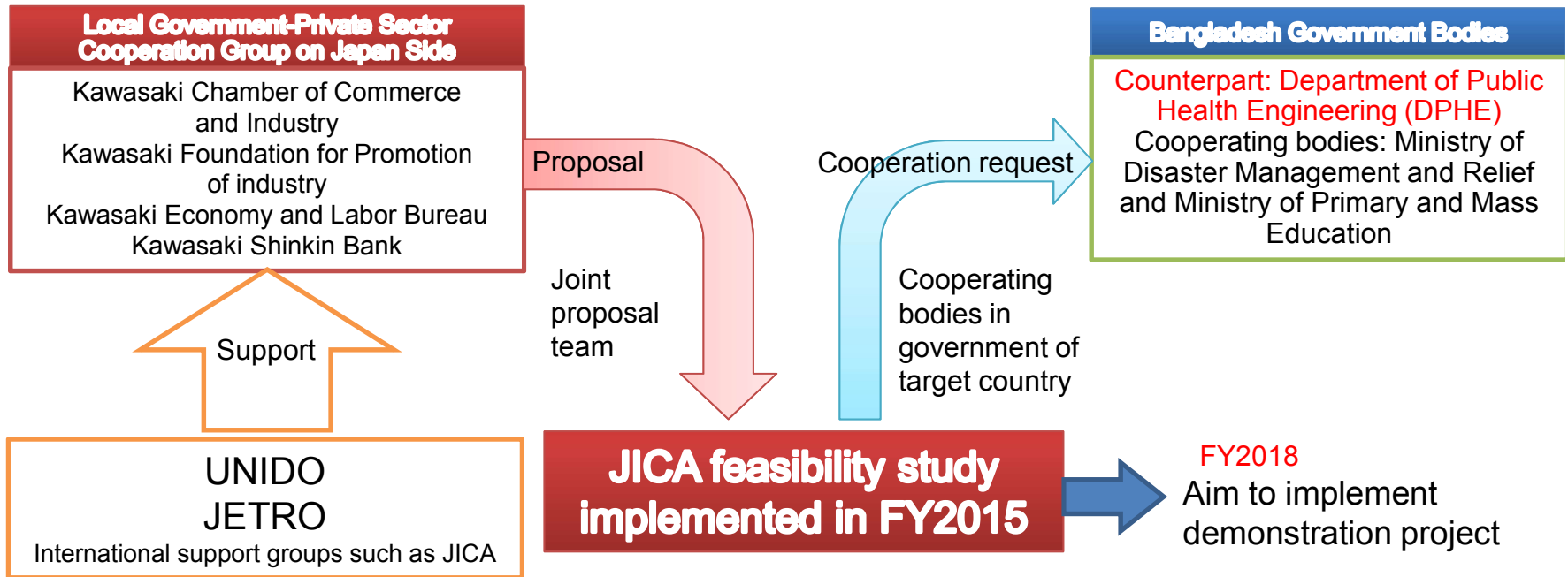
People are suffering from arsenic pollution



Drawing water is the work of women and children



Next step is to study how a BOP business project can be made to work



Applied in October 2017 for project for water supply distribution business using purification equipment integrated into bicycles that provide direct supply

Based on a study of equipment available for emergency water supplying and the setup of community disaster prevention schemes in Bangladesh, we aim to use Cycloclean (a bicycle & purifier combo that provides safe drinking water without the need for electricity) in a distribution demonstration project that supplies water and improves hygiene.



Cooperative Work with Grameen Veolia

VEOLIA WATER

গামীন
কোম্পা
সার্ভিসেস লিমিটেড

GRAMEEN VEOLIA WATER LTD.
www.grameenveoliawater.com
Email: info@grameenveoliawater.com

GOALMARI NETWORK

Water production and distribution

PLANNED PROCESS

Water intake
Meghna River
Operators
Sedimentation
Intermediate storage
Pump
Antracite/Sand filter
Filtration
Chlorine addition
Treated water storage
Taps
Distribution

GRAMEEN VEOLIA WATER LTD.

Piping supply water to agricultural communities in Bangladesh

- * 1-kilometer of pipeline costs 3 million taka (approximately 3.6 million yen),
- *Water charge of 2.5 taka (approximately 4 yen) per 10 liters,
- *Maximum pipeline length of 7 kilometers



Villagers are fetching Water from a Stand Post (Tap point) of GVWL

2016/ 5/22



Grameen Veolia Water Ltd.





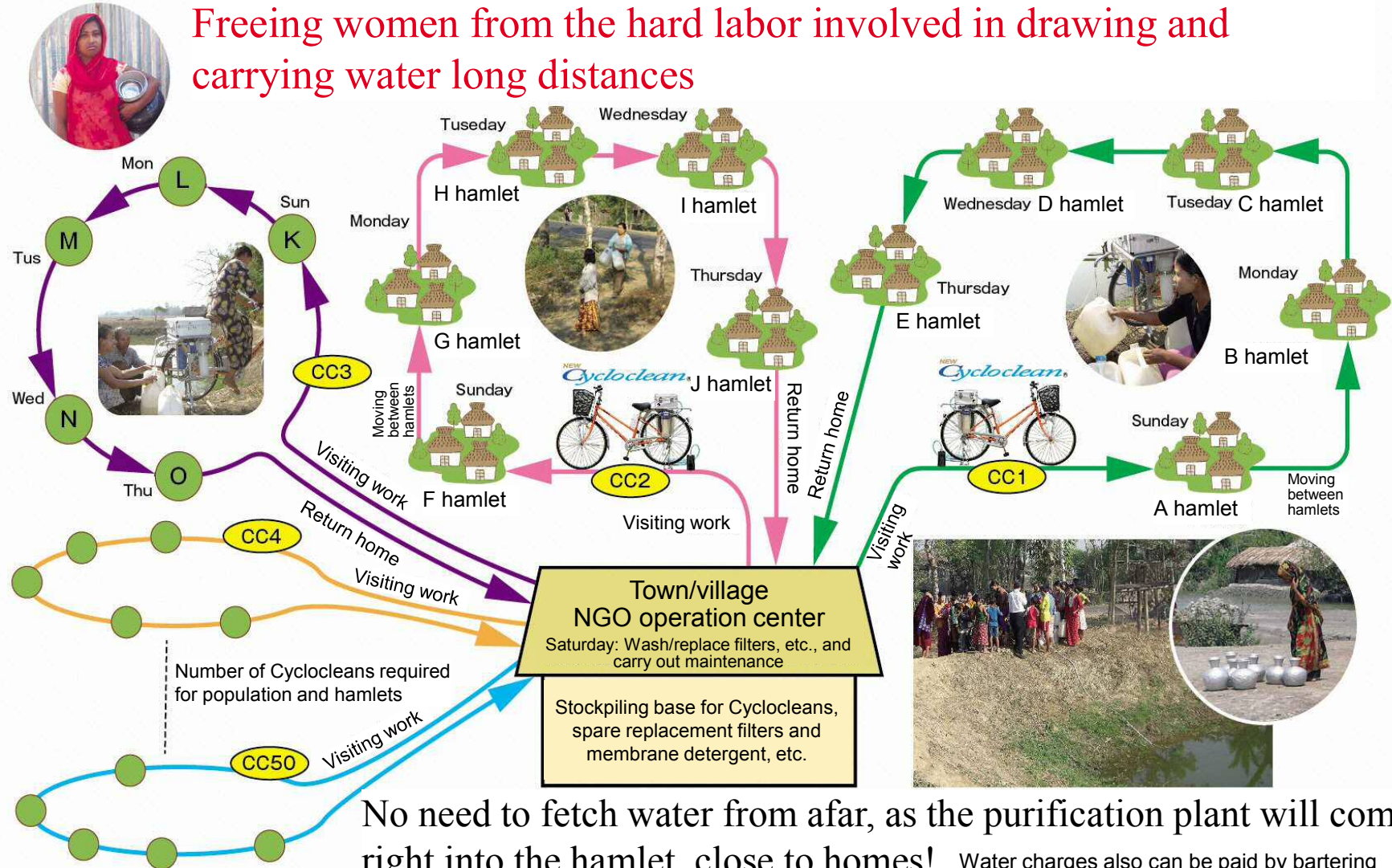
Plan B: Portable & Compact Purification Plant for Distribution – “Visiting Water Purification Plant”

Project to supplement pipeline water supply

Apr. 2016

日本ベーシック株式会社
Nippon Basic Co., Ltd

Freeing women from the hard labor involved in drawing and carrying water long distances



Joint Research with Kawasaki Environment Bureau (2007-2008 Visiting Local Elementary Schools to Provide Lessons)

川崎でろ過器体験授業

泥水たちまち透明に

手作業で水を浄化すること、中に砂利や炭を詰めた簡単な装置で水資源の大切さを学ぼうと、川崎市川や酢、墨汁、米のとぎ汁など、身の回りの液体を試していた。自転車で搭載型の浄水器も登場した。子供たちに水質汚濁や水の循環への問題意識を高め、場した。同市中原区のベンチャー企業・日本ベーンシックが災害用に開発した「モバイルウォーター」で、産学連携事業として製作に挑戦。ペットボトルの「」で、産学連携事業として

中に砂利や炭を詰めた簡単な装置で、子供たちは「コーヒー」や「大腸菌」などを除去しながら、分間に約六分の飲み水をつくれる仕組み。

授業には、五年生約百三十人が参加し、泥水がたちまち透明になった。子供たちは「モバイルウォーター」で、産学連携事業として製作に挑戦。ペットボトルの「」で、産学連携事業として



自転車搭載型の浄水器を試す子供たち
川崎市立宮前小学校

Article in Kanagawa Shimbun (newspaper) on December 12, 2007

川崎市公害研究所は十一を開設した「日本ベーンシック」市立宮前小学校（川崎）（中原区新丸子町）の区宮前町）五年生に、水質 勝浦雄一社長も参加。自転浄化の大切さを教える出前車のベタルをいいで泥水を授業を行った。写真。授業で過する技術を披露した。には自転車搭載型浄水器 泥水が一瞬で透明な飲み水

水質浄化の大切さ学ぶ

市公害研究所 宮前小に出前授業

に変わる様子に児童から「すい」と歓声が上がった。市と同社は、環境技術の社会還元に関して共同研究を行っており、出前授業は市内発の環境技術の活用策 嶋岡百佳さん（こは「水として初めて行われた。授業を受けたのは、総合学習で「水質浄化」を学ぶ五年生千人。ほかの同様の児童約百十人も授業を受けた。授業では、家庭や川の水が循環していることを教わ

がきれいになる仕組みが初めて分かった。自転車のろ過装置は、災害時にプールの水などが飲めるようになるので便利。自分の周りの水がもっときれいになると話した。（市毛史歩子）



Article in morning edition of Tokyo Shimbun (newspaper) on December 12, 2007

Thank you for your kind attention

Nippon Basic Co., Ltd.