

## **JDC's Water Treatment Project in Bangladesh has been adopted by JICA as their SDGs Business Supporting Survey**

In the 'SDGs Business Supporting Survey' of the Japan International Cooperation Agency (JICA), the "SDGs Business Validation Survey for Decentralized Village Water Supply Project that Enables the Provision of Safe and Reliable Drinking Water Through the Use of the 'JaPani' System in Bangladesh" proposed by JDC Corporation (President: Isao Hayashi, 4-3-13 Toranomon, Minato-ku, Tokyo, Japan) was adopted as a SDGs Business Supporting Survey.

JICA's 'SDGs Business Supporting Survey' supports the creation of businesses by Japanese private companies that contribute to the resolution of issues in developing countries. The program consists of a 'Needs Confirmation Survey', a 'SDGs Business Validation Survey', and a 'SDGs Business Verification Survey'. The project we proposed will be implemented as a 'SDGs Business Validation Survey'. The purpose of the survey is to establish a system for providing products and services and to secure profitability, after confirming the acceptability of customers for products and services, and to develop a more sophisticated business plan for launching a business to contribute to solving problems in developing countries. (Currently adjusting the survey schedule, the period will be 16 months)

In Bangladesh, the country covered by our project, a variety of projects to improve arsenic pollution had been carried out since the arsenic contamination of groundwater from the Himalayan Mountains was confirmed in the 1990s. However, in areas where water supply is not available, people still have difficulty securing safe drinking water. As a proposing company, JDC corporation aims to establish a safe and affordable drinking water business by using our 'JaPani', a functional adsorbent material, to purify contaminated well water.



Water Treatment Experiment Plant in Bangladesh



## <References>

### **Initiatives in Bangladesh**

We built two arsenic removal plants that utilize 'JaPani' in Bangladesh and since 2020, we have begun mass production of the functional adsorbents along with demonstration experiments and feasibility study.

In Bangladesh, arsenic contamination in well water is a serious issue because it is a main drinking water supply source. A water treatment system using 'JaPani' does not require complex chemical treatment but can reduce the concentration of arsenic to a level below WHO Guidelines for Drinking Water Quality (10µg/L) by simple operation of contacting polluted water to 'JaPani'. We are working to secure safe water as a step toward resolving water problems in developing countries suffering from arsenic pollution.

### **Regarding 'JaPani', the functional adsorbent material**

By nanosizing layered double hydroxides (LDH) which are used as anion removers in the environment, we produce materials which have higher anion adsorption capacity and are adaptable to more ion species than original ones.

'JaPani' is a compound name of Japan and Pani (means water in Bengali). We named it in the hope that it will be a bridge between Japan and Bangladesh and proves helpful to the world water problem.



For more information, please contact

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