Technical Information Sheet

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| 1. | Name of technology | Cyclic bioremediation technology (in-situ groundwater circulation purification technology) ¹⁾ |
| 2. | Type of technology | In-situ purification technology that circulates groundwater with nutrients added and activates microbial biodegradation in soil to treat polluted materials. |
| 3. | Description of technology | |
| cha rec tec | jective, application, aracteristics, delivery ord, and price of hnology | (Objective and application of technology) Applicable to soil remediation caused by illegal waste dumping and inappropriate treatment (such as VOCs and oil), and non-proliferation (heavy metal). Aims to treat polluted soil economically while continuing to use the land for running shops, etc. (Characteristics of technology) Nutrients contain plant-derived ingredients, so are environmentally-friendly. No major civil engineering work is required. The compact purification facility has no space constraints for polluted sites. Applicable to a wide range of polluted materials such as VOCs, oils, nitrate-nitrogen, and heavy metals²) (Delivery record ¹) Ministry of the Environment technology demonstration business (Shizuoka, Yamagata, and many others) VOCs purification business (Alchi, Chiba) VOCs and heavy metal purification business (Alchi, Chiba) VOCs of the processing costs³: ¥3,000 to ¥20,000/m³ ¹ The cyclic bioremediation technology is a property of our affiliated company, Towa Environment Science Co., Ltd. ² Heavy metals for insolubilization are cadmium, hexavalent chrome, lead, and mercury. ³ The cost varies depending on the conditions in a country, the state of the polluted site, and other factors. |
| 4. | Classification of technology | |
| (1) | Applicable fields | Other environment protection technology |
| (2) | Target waste | Other (illegally dumped waste) |
| (3) | Services provided | Plant construction, Waste treatment service, Technical cooperation/licensing, Consulting, Survey/data processing, Other |
| 5. | Countries to which this technology can be provided | Worldwide |
| 6. | Keywords | Illegal dumping, soil pollution, VOCs (volatile organic compounds), oils, heavy metal, bioremediation, purification |
| 7. | Contact information | Contact point: Business Development Office, IDEA Consultants, Inc. Person in charge: Goda Contact: Tel: +81-3-4544-7603 E-mail: ghd70089@ideacon.jp |