

## **DOST-ITDI Signs MOA on Mixed Plastic Waste Recycling Technology**



*From left: PMISD's Andrew Cruz; MSD's Carlo Emolaga; PMISD OIC, Dr. Zorayda Ang; ITDI OIC-Director, Dr. Annabelle Briones; Bio-Vision CEO, Fritz Patrick Lim; MSD Chief, Dr. Blessie Basilia; and MSD SupSRS and Scientist I, Dr. Marissa Paglicawan (Photo credit: RRUdela Cruz)*

The Materials Science Division (MSD) of DOST's Industrial Technology Development Institute (ITDI) has signed the Memorandum of Agreement (MOA) with Bio-Vision Sustainable Solutions to collaborate in developing technologies to recycle mixed plastic wastes.

The project aims to repurpose waste plastic materials into tiles and potentially, other related low-cost construction materials. Consequently, this initiative hopes to reduce the amount of wastes generated by the plastics industries, which if improperly disposed of, could cause contamination and clogging of rivers and other waterways.

Bio-Vision, a private, family-owned recycling company based in Caloocan City, and ITDI through MSD will collaborate in determining the appropriate technology in recycling mixed plastics wastes. Together, they shall determine the suitable proportions of mixed plastics such as polyethylene (PE), polypropylene (PP) and polystyrene (PS); determine the material's stretchiness, flexibility, and impact properties; produce prototypes; and determine the appropriate process for production.



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The MOA signing was held last August 2, 2018, between Bio-Vision CEO and president, Mr. Fritz Patrick C. Lim; and ITDI, represented by ITDI Deputy Director for R&D and OIC-Director Dr. Annabelle V. Briones; along with MSD Chief, Dr. Blessie A. Basilia; and Planning and Management Information Systems Division's (PMISD) OIC, Dr. Zorayda V. Ang. Also observing and assisting



during the MOA signing were PMISD's Andrew Cruz, and MSD's Carlo Emolaga, and Scientist 1, Dr. Marissa A. Paglicawan.

By virtue of the said MOA, DOST-ITDI and Bio-Vision shall co-own the rights to intellectual properties that will be generated during the course of the project, including data and findings. Furthermore, both parties shall provide each other the technical services, expertise, raw materials, equipment, manpower, and funding required for the project. **(RRUdelaCruz/TSD)**

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*(RRUdelaCruz/ITDI S&T Media Service)*

*(Photos by: RRUdelaCruz)*

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