

3R GOOD PRACTICES IMPLEMENTED BY NGOS/CBOs



3R Good Practices in Bangladesh

NGO /CBO	Rahimafrooz Batteries Ltd. (RBL)
Activity	Manufacturing secondary lead acid battery
OUTLINE OF 3R GOOD PRACTICES	
Keywords	Solid waste, Scrubber, Hybrid battery
Country	Bangladesh
Area Implemented	West Panishail, Zirani Bazar, Gazipur
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Waste Sector	Inorganic waste and acidic effluent
3R Practice	Recycling used batteries
Website / Data Source	http://www.rahimafroz.com

OVERVIEW OF PRACTICES

Introduction

Rahimafrooz Batteries Limited (RBL) has been manufacturing and marketing batteries since 1960. Currently, more than 300 different types of automotive and industrial batteries are being manufactured. Pollution prevention is one of the priorities of RBL. To this end, RBL has implemented an Environment Management System (EMS) compliant with ISO 14001:2004 standard.

3R Good Practices

As a part of its pollution control policy, RBL has installed an air treatment plant, acid mist treatment plant and effluent treatment plant. A solid waste management system has also been implemented.

As a part of the EMS, targets have been set for power and paper consumption per unit production. New projects and machinery installations consider environmental impacts. RBL is implementing a smelting plant to recycle used batteries in an environment friendly manner. Annually 660,000 batteries will be recycled in this plant. In addition, 3,300 tons of hard lead will be reclaimed annually from used batteries, which is one third of the yearly consumption of RBL. A “Compressed Natural Gas (CNG) Hybrid” battery has been launched in the market. This battery has longer life in vehicles run on CNG, thus reducing the number of batteries coming into the market.

Outcome of Practices

The level of lead and acid mist in the air emitted from different exhaust outlets and that of water discharged into sewerage has come down to standard levels set by the Department of Environment (DoE) to 10 mg/Nm³, 50 mg/Nm³ and 1 mg/L respectively. As pollutants enter air, water and soil, processes such as dilution, chemical reaction, filtration, absorption etc. convert waste materials to less harmful forms, thus ensuring improved environment and health to all stakeholders.



**Lead Smelting Plant
(Under Process)**



**ATP and ETP for
Lead Smelting**



**ATP for Battery
Manufacturing**



**ETP for Battery
Manufacturing**



**On-site sludge storage
tank**



**Acid fume removal
scrubber (Formation unit)**