

FACTORY VISIT REPORT

Rimso Battery & Company Private Limited
Masabo, Borpa, Rupjong, Narayangonj



Infrastructure Development Company Limited

August 2018

1. BACKGROUND

RIMSO Battery & Co. PVT Limited (RIMSO) has been awarded approval for 7 models of solar batteries-6RBT, 6RBT 50A (30Ah), 6RBT 50A (40Ah), 6RBT 100A (56Ah), 6RBT 120A (80Ah), 6RBT 150A (98Ah) and 6RBT 200A (130Ah) by TSC meeting of IDCOL.

They have completed the required ISO 14001:2004 and OHSAS 18001:2007 compliances, to assess the actual compliance scenario. Dr. Ahmedul Hye Chowdhury, Environmental Specialist, IDCOL visited the battery manufacturing plant on August, 2018.

2. OBJECTIVE OF THE VISIT

It is already mentioned that the objective of the visit was to assess the actual progress accomplished by RIMSO to meet the requirement of ISO 14001, OHSAS 18001 and ESMF of IDCOL as well.

3. Brief Description

RIMSO was located at Masabo, Borpa, Rupjong, Narayangonj and the factory (manufacturing & recycling) comprises an area of about 422 decimals of land. Currently, there are 350 workers and 27 management officials working in the manufacturing plant and 10 workers and 3 management officials working in the recycling plant. At present it operates in three shifts with a duration of 8 hours. Recently, RIMSO produced 16,000 (approximately) batteries per month and facilitated with modern battery manufacturing machineries with skilled manpower.

4. ESMF compliance scenario at battery manufacturing & recycling facilities

RIMSO was found to practice the requirement of ISO 14001 and OHSAS 18001 standards at a satisfactory level but have room for improvements, like; 1. Exits/evacuation routes, 2. Storage area 3. Improvements of drainage system in the facilities 4. Need more visible signage 5. Awareness and proper training required for using Personal Protective Equipment (PPE). Over all housekeeping was found in moderate level. RIMSO has started the practice of keeping records of compliances but require more improvement in this area.

RIMSO battery breaking and smelting units also found to practice the requirement of ISO 14001 and OHSAS 18001 standards at a moderate level. This unit need improvement to ensure its satisfactory level, those are; 1. Need proper signage 2. PPE awareness training program need to be arrange. 3. SOP required for the equipment's.

ETP is one of the most important concerns for battery manufacturing industries to mitigate effluent pollution. RIMSO has established a new well designed ETP with capacity of 5 m³/hour in their new plant, which seems to be adequate to meet the demand. Essential chemical discharge like; pH & TDS and noise in the premises, was tested by the IDCOL

environmental specialist during his visit and it was observed with in Bangladesh standard limit.

Two Air treatment plant (ATP) are established by RIMSO battery manufacturing unit and battery smelting unit to protect the health hazards and air pollution during charging and smelting of lead. The capacity of ATP are 27,900 m³/hr. at manufacturing unit and 9,500m³/hr at smelting plant, both run 25 days in a month.

ANNEX-PHOTOGRAPHS



Firefighting arrangement



ATP & ETP at RIMSO

PPE and First Aid



Using PPE



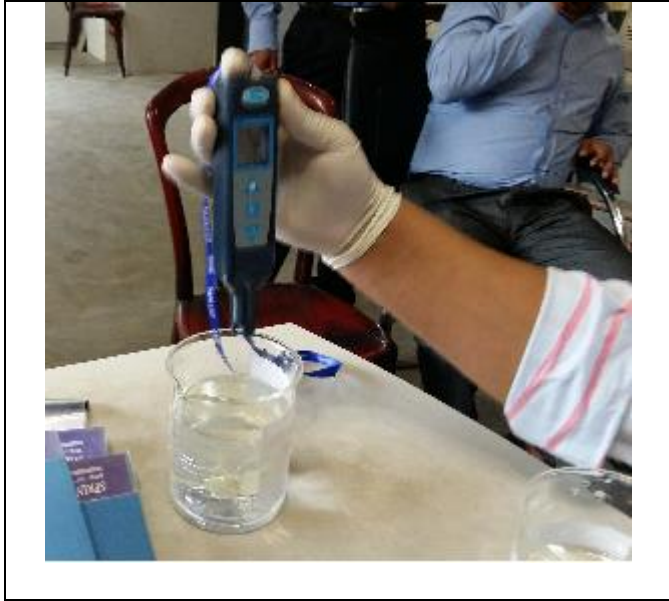
First Aid Box



Aisles arrangement at RIMSO



Eye Wash & Shower facility



Photograph: pH, TDS and noise testing by IDCOL at RIMSO

FACTORY ENVIRONMENTAL, HEALTH & SAFETY CHECK LIST

Name: **RIMSO Battery & Co. PVT Limited (RIMSO)**

Date: **August 2018**

Question	Yes	No	Remarks	
<i>Mandatory Questions</i>				
<i>Name of the MR:</i> Md. A.B. Siddique				
<i>His/her qualification:</i> B.Sc. Eng.				
<i>Management review report / minutes:</i> June 2018				
<i>Budget Allocation:</i> Not specified				
<i>Training report:</i> Maintained				
<i>DOE Clearance Certificate:</i> Applied for renewal certificate				
<i>Acid License:</i> 30 June 2018				
<i>EMS & OHASAS Certificate:</i> Up to date				
<i>Civil Defense:</i> 30 June 2018				
<i>ETP design and discharge water QC report:</i> Maintained				
<i>Exits / Evacuation routes</i>				
Are exit signs, evacuation routes illuminated, visible, marked and maintained clear from work areas?	√		<u>Manufacturing Unit:</u> Sign was faded because of dust on the floor. Need to be maintained properly.	<u>Recycling Units:</u> Breaking unit need to develop the sign for safety and for evacuation system
Is evacuation plans posted in local language in a prominent place where they can be easily read, with 'You are here' clearly marked?	√			
Do evacuation plans match the floor layout? Also, areas in front of Exits marked with "KEEP CLEAR" markings and maintained clear.	√			
<i>Aisles</i>				
Are aisles clearly marked and spacious and maintained clear of any obstruction?	√		<u>Manufacturing Unit:</u> Room to improve	<u>Recycling Units:</u> Recommend to keep the aisles well marked and clear
Emergency lights maintained properly to provide adequate illumination?	√			
Are all Emergency lights tested monthly and records of test maintained?	√			

Fire Extinguishers/ Hose Reel / Hydrant			
Is there adequate number of fire extinguishers available and the location are clearly marked? Does it maintained clear of obstruction?	√		Satisfied.
Are extinguishers visually checked monthly and control tags maintained?	√		
Are fire extinguishers inspected annually by an outside professional agency;	√		

Emergency Preparedness			
Does the facility have any documented emergency preparedness program?			Not well documented.
Does the facility conduct evacuation drills and maintain records?	√		
Does the facility maintain test records of fire alarms and Phone numbers of local fire dept(s)/ factory management and Hospitals Ambulance & Police easily available / posted?	√		
Are Assembly areas easily accessible and maintained clear?	√		

Question	yes	No	Remarks
Medical care / First Aid			
Does the First Aid kits provided in all work areas with locations highlighted and easily accessible? Are medicines being checked to ensure that expired medicines are not being administered?	√		Well maintained.
Does the First Aid kits kept unlocked or if the kits locked, are the keys available within close proximity?	√		
Is there adequate number of employees been trained in First Aid by a recognized organization and the certificates checked to ensure the validity?	√		
Does factory conduct checks to ensure that if any first-aid trained employee has left the organization he/she is replaced with another such trained person?	√		

Lead alloy and Chemical Storage Area			
Is there any appropriate warning signs displayed?	√		
Is there an effective ventilation system to discharge fumes?	√		
Is there any effective secondary containment system for liquid chemicals to avoid spillage on floor? Does the floor maintained clean and free of chemical spillage?	√		
Is MSDS (Material Safety Data Sheet) posted in areas where chemicals are stored / being used?	√		
Is there any appropriate PPE (Personal Protective Equipment) are available and being used in the chemical storage and usage areas?	√		More awareness programs need to be arrange in the facilities
Is entry restricted in the chemical storage area?	√		
Does hazardous sign or label being used in all drums, containers, and dispensers clearly labeled?			Need more improvements
Eye Wash/shower			
Is there any functional eye wash station available near the chemical storage/usage area/working area?	√		
Question	yes	No	Remarks
Electrical Safety			
Are all electrical switches labeled in English & local language?	√		
Are power-generators suitably earthed?	√		
Is all electrical maintenance carried out, logged?	√		
Are there any loose wires / damaged switch-gear / unplugged connections/ open junction boxes / taped joints etc?			
Are appropriate fire extinguishers installed near panel boards?	√		
Are Exhaust pipes of Power generators insulated?			
Are rubber mats provided in front of all Electric Panel Boards?	√		
Is the Power Generator room maintained free of waste items?	√		

Question	yes	No	Remarks
Personal Protective Equipment			
Are mesh gloves provided to Cutting machine operators? Are they being used?	√		There is a room to improve in this section. Need awareness camping and training
Are appropriate gloves / masks / eye protection provided for workers in stain removing operations? Are they being used?	√		
Are ear plugs provided to thread sucking machine operator's power generator operators? Are they being used?	√		
Are Appropriate PPEs provided to workers in the washing section? Are they being used?	√		
Is eye protection provided to button machine operators? Are they being used?	√		
Accident Register are updated			
Are respiratory masks provided to sewing machine / over lock machine operators where fabric dust is generated? Are they being used?	√		
Machinery			
Are finger guards installed on snap button machines? Are they being used?	√		
Are exhaust fans installed at safe heights to avoid injury?	√		
Are all moving parts of transmission machinery adequately guarded?	√		
Are safety devices in working condition?	√		
Are noise levels in work areas within the desired norms?	√		
Waste Water Treatment			
Are all discharges within the parameters defined by the country's Environment laws?	√		
Air Treatment Plant			
Are the air quality within the parameters defined by the country's Environment laws?	√		
Dining and Kitchen Facilities			
Are Kitchen & Dining area floors maintained clean?	√		

Is adequate seating arrangement provided?	√		
Is cooked food kept covered?	√		
Are those serving food using appropriate gloves?	√		
Are fire extinguisher's installed near cooking areas?	√		
Is potable drinking water provided?	√		
Are hand wash and utensils washing areas well maintained?	√		
Bathrooms / Toilets			
Are the number of toilets adequate, marked and segregated for both men and women?	√		Room to improve. Make sure bathrooms and toilets should be clean and safe all time.
Are wash rooms/ toilets well maintained and ventilated?	√		
Is running water available?	√		
House-Keeping			
Are waste chemical removed regularly?	√		
Are floors cleaned regularly to remove dust and garbage?			
Are ventilation system check periodically?	√		
Is garbage appropriately disposed off?	√		
Storage			
Are Chemicals, flammable liquids appropriately stored away from rain and sunlight in well ventilated areas with entry restricted to authorized personnel only?	√		
Are 'No Smoking' signs and appropriate Firefighting equipment installed in storage areas?	√		