

ISO 14001:2004 AND OHSAS 18001:2007

ANNUAL - COMPLIANCE STATUS REPORT

OF

**BATTERY SUPPLIERS AND RECYCLERS OF IDCOL
SHS PROGRAM**

2016-17

Prepared by

Infrastructure Development Company Limited

1. INTRODUCTION

Infrastructure Development Company Limited (IDCOL) has adopted an Environmental and Social Safeguards Management Framework (ESMF) for its solar home system (SHS) program. According to this ESMF, all approved battery suppliers in IDCOL- SHS program have to be ISO 14001:2004 and OHSAS 18001:2007 certified and shall comply with their requirements. ISO 14001:2004 is an internationally recognized standard about environmental management system and OHSAS 18001:2007 is worldwide accepted standard for maintaining occupational health and safety aspects. There are 18 battery suppliers of which 17 are local and the remaining one is Japan Solar Tech, which sells imported batteries. In addition, there are four en-listed expired battery recyclers in IDCOL SHS Program, who are also required to be ISO 14001:2004 and OHSAS 18001:2007 complaints.

To assess the status of implementation of environmental and occupational health safety management system, the representative of IDCOL visit eleven manufacturing plants and all four recycling plants. Based on the primary findings and secondary information as provided by the battery manufacturers and recyclers, this half yearly compliance report has been prepared on the basis of factory environmental, health and safety check list.

2. OBJECTIVES

The objectives of this compliance report are as follows:

- To assess the commitment of management of manufacturers and recyclers about environmental and occupational health safety compliance according to ISO 14001 and OHSAS 18001
- To assess the availability of required infrastructure like Effluent Treatment Plant and Air Treatment Plant
- To assess the status of documentation of required guidelines
- To assess the availability of medical facility
- To assess the gap in respect of the actual scenario and desired level
- To assess the areas where relevant stakeholders can support the recyclers and manufacturers to implement environmental and occupational health safety system in a satisfactory manner.

3. LOCATION AND AREA OF BATTERY MANUFACTURING PLANTS

Among the en-listed 17 battery suppliers, 15 battery suppliers have their battery manufacturing factories in Dhaka Division, one each in Khulna Division and Chittagong Division. HAMKO Battery has the largest battery manufacturing and recycling plant in respect of area (an area of about 7.5 acres) and scale of production, and the smallest manufacturing unit is owned by Z by A Corporation (an area of about 0.05 acre). In the following **Table 01**, the location and area of the factory of 18 battery suppliers are provided.

| Battery supplier | Location of factory | Area in Acre (Manufacturing Unit) |
|-------------------------------|--|-----------------------------------|
| Hamko Batteries Ltd. | C-38,B-23-29.BSCIC,Shiromoni,Khulna | 7.5 |
| Confidence Electric | Taltola, Sonargaon, Narayanganj, Dhaka | 7.0 |
| Panna Batteries Ltd. | West Rasulpur, Kamrangir Char, Dhaka-1211 | 6.88 |
| Navana Batteries Ltd. | CDA P.No. – 3(P) & 4(P), Fouzderhat I/A, Chittagong | 6.7 |
| White Products Ltd. | Plot: 1142-1143, Itahata, Chandana, Gazipur | 3.50 |
| Rimso Batteries Ltd. | Mashabo, Borpa, Rupgonj, Narayanganj | 3.221 |
| Rahimafrooz Accumulators Ltd. | RS# 1,4,48/4, West Panisail, Zirani Bazar, Kashimpur, Gazipur, Bangladesh | 3.08 |
| ECO batteries Ltd | Uzilab, Sreepur, Gazipur | 1.58 |
| Tamim Batteries Ltd. | 110, Pabahati, Jhenidah | 1.22 |
| Electro Batteries Co. Ltd. | Boro-rangamatia, Durgapur, Ashulia, Savar, Dhaka | 1.00 |
| A & P Batteries Ltd. | Chaparbandh (Adampur), 2 nd gate to Sonatgaon Museum Rd. Sonargaon, Narayanganj | 0.75 |
| Euro Battery | Varardi, Kachkura Bazar, Uttar Khan, Uttara, Dhaka-1230 | 0.33 |
| Voltex Battery Mfg.Co. Ltd. | Shirir chala, Bager Bazar, Gazipur Sadar, Gazipur | 0.52 |
| JCo. Batteries Ltd. | Plot no. S-6, BSCIC I/A, Ruhitpur, Keranigonj, Dhaka. | 0.11 |
| Silicon Power Limited | Panpara, Rajfulbaria, Savar | 0.23 |
| Gel Tec Batteries Ltd. | Raj Fulbaria, Savar | 0.20 |
| Z By A Corporation | 403-404, Tejgaon I/A, Dhaka-1208 | 0.05 |

Table 1: Location and area of battery manufacturing and recycling plant

STATUS OF EMS AND OHSAS COMPLIANCE

Manufacturing plant

| Battery Suppliers and recyclers | Application of PPE | Status of housekeeping | Status of EMS and OHS | Availability of trained professional & documentation | Medical facilities | Operation of ETP /ATP and QC report | Status of storage facilities | Arrangement of fire fighting | Score |
|---------------------------------|--|------------------------|-----------------------|--|--------------------|-------------------------------------|------------------------------|------------------------------|----------|
| RIMSO Bat. | S | S | S | S | S | S | MS | S | 23 |
| Rahimafrooz Ac. Ltd. | MS | S | S | S | S | S | S | S | 23 |
| Confidence | MS | S | S | S | S | S | S | S | 23 |
| Panna Ltd. | MS | S | S | S | S | S | S | S | 23 |
| NAVANA Bat. | MS | MS | S | S | S | S | S | S | 22 |
| RANGS Bat. | S | S | S | MS | MS | S | S | S | 22 |
| Voltex Bat. | S | S | MS | MS | S | S | S | S | 22 |
| ECO Bat. | MS | S | MS | S | S | S | S | S | 22 |
| EURO Bat. | MS | S | S | MS | S | S | MS | S | 21 |
| A & P Bat | Manufacturing capacity expansion (From 7000 to 30000 pieces battery) | | | | | | | | |
| JCo | Manufacturing capacity expansion (From 7000 to 30000 pieces battery) | | | | | | | | |
| Electro Bat. | MS | MS | S | S | S | 0 | MS | S | 18 |
| Tanim Bat. | MS | NIP | NIP | NIP | NIP | 0 | MS | MS | 10 |
| GelTec Bat. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 2: Compliance of basic EMS and OHSAS aspects at manufacturing plants

[S=Satisfactory (3), MS= Moderately satisfactory (2), NIP=Need improvement (1)]

Recycling facilities

| Battery Suppliers and recyclers | Application of PPE | Status of housekeeping | Status of EMS and OHS | Availability of trained professional & documentation | Medical facilities | Operation of ETP /ATP and QC report | Status of storage facilities | Arrangement of fire fighting | Score |
|---------------------------------|--------------------|------------------------|-----------------------|--|--------------------|-------------------------------------|------------------------------|------------------------------|-------|
| Rahimafrooz Ac. Ltd. | S | MS | S | S | S | S | MS | S | 22 |
| RIMSO Bat. | MS | S | S | S | S | S | MS | S | 22 |
| Panna Ltd. | MS | S | S | S | MS | MS | S | S | 21 |
| HAMKO Recycling | MS | MS | MS | S | S | MS | MS | S | 19 |

Table 3: Compliance of basic EMS and OHSAS aspects at recycling plants

[NIP=Need improvement (1), MS= Moderately satisfactory (2), S=Satisfactory (3)]

The status (Field observation results) of EMS and OHSAS compliances by manufacturers and recyclers in respect of some basic parameters are shown in the above mentioned **Table 2 & 3**; where NIP, MS and S stand for Need Improvement, Moderately Satisfactory and Satisfactory respectively with a sample value 1, 2 and 3 respectively.

Based on the Table 2: RAL, RIMCO, CONFIDENCE and PANNA battery manufacturing plants are found in satisfactory level but need regular monitoring and improvements. NAVANA, RANGS, VOLTEX, ECO and EURO battery manufacturing facilities need to improve in following sections like; PPE, housekeeping, documentation & Storage areas to keep their self in to the top position.

Till to date ELECTRO and TANIM Battery Limited didn't set up ATP, which is essentially required to implement in their premises. Environmental Specialist of IDCOL raised the issue and discussed this matter several times.

Recently GelTech battery shifting their facility to own premises. That's why construction has been going on in their new facility, which will required to finish about six month. A & P and JCo Battery manufacturing plants expanding their battery quantity from seven thousand to 30 thousand in a month. For that reason, they are expanding their premises with new manufacturing instruments.

At present, RAHIMAFROOZ, RIMSO, PANNA and HAMKO have their independent recycling facility with EMS and OHSAS compliant (Please refer to table-3). All of them required regular monitoring and improvements in their EHS sector.