



Photo: India Country Director, Promila Sharma, analyzing heavy metal concentrations in soil using an XRF Analyzer near an informal lead-acid battery manufacturing unit in the state of Bihar.

Toxic Sites Identification Program in India

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List of Acronyms

EC - European Commission

ISS - Initial Site Screening

LMICs - Low and Middle-Income Countries

PE - Pure Earth

TSIP - Toxic Sites Identification Program

ULAB - Used Lead-Acid Battery

UNIDO - United Nations Industrial Development Organization

WB - World Bank

XRF - Alpha X-Ray Fluorescence

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Annex A: TSIP sites identified and assessed in India from February 2016 to January 2018.

ACKNOWLEDGEMENTS

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INTRODUCTION

Pure Earth is an international non-profit organization dedicated to solving pollution problems in low- and middle-income countries, where human health is at risk. Since 2009, Pure Earth has implemented the Toxic Sites Identification Program (TSIP) to identify and screen contaminated sites in low- and middle-income countries where public health is at risk. The TSIP has been supported by the United Nations Industrial Development Organization (UNIDO), European Commission, Asian Development Bank (ADB), United States Agency for International Development (USAID), World Bank, and Green Cross Switzerland, among others.

Pure Earth focuses on locations throughout the developing world where human health is most affected by pollution. To date, Pure Earth and its partners have identified more than 4,600 contaminated sites and have completed more that 3,000 rapid site screening assessments in 47 countries. These sites alone represent a health risk to more than 80 million local low-income residents. The 3,000 sites that Pure Earth has screened likely represent a small fraction of the actual number of contaminated sites globally.

To implement this ongoing work, Pure Earth trains highly qualified local professionals to identify and assess contaminated sites using a standardized global methodology called the Initial Site Screening (ISS) protocol. The ISS protocol allows for a rapid on-site quantitative evaluation to help understand the risks posed by pollution, specifically including the types and concentrations of contaminants, size of the site, number of impacted people, magnitude of health risks, the land uses and relevant geographic features, and a preliminary analysis of appropriate risk-reduction or remediation methods.

BACKGROUND

Pure Earth has been active in India since 2004. Since then, Pure Earth and its local partners



have identified 716 contaminated sites, and completed rapid screening assessments at 500 of these. Pure Earth has also conducted a number of risk-reduction projects across India and has engaged with the government on a variety of pollution issues. In recent years, Pure Earth's focus in India has centered on lead (Pb) contamination.

Lead is an important natural resource in India's economy. Today, lead is primarily used by the transportation sector in the form of automobile batteries, as well as household batteries for backup power during electricity disruptions. These batteries typically contain about 55% lead. Since lead is a valuable commodity, the lead in these batteries is recycled when the batteries wear out. Of all the lead used in India today, 70% comes from recycled batteries.

The battery recycling system in India has significant challenges. Less than 50% of used batteries are recycled by formally registered recyclers with appropriate pollution controls, according to officials from the India Lead Zinc Development Association.

Childhood lead poisoning is widespread in India, and prevents Indian children from reaching their full intellectual potential. Lead is a powerful neurotoxin. In children's blood, lead impairs brain and nervous system development, leading to lower IQ as well as attention and behavior disorders and poor performance in school.

Much of the lead that contaminates sites in India is believed to be released during the informal manufacturing and recycling of lead-acid batteries. Informal recyclers operate in backyards and alleys and have limited understanding of the dangers of lead and of the damage they are causing to the children in their community. To better understand full impacts of this informal industry, Pure Earth has concentrated its TSIP program on this particular source, with aim of developing sufficient data and understanding to contribute meaningfully to a national solution.

Pure Earth is currently developing non-assessment activities in India that directly result from our in-depth assessment of lead contamination through the TSIP. These activities are designed to advance a national effort to further formalize the lead-acid battery recycling industry and substantially reduce the volume of lead that enters the environment and the bodies of children in surrounding communities. These activities include a risk-reduction intervention in a community in Bihar State where informal battery manufacturing next to an elementary school has poisoned local children, a program to collectivize informal battery workers to improve their operations and reduce lead emissions, a lead source apportionment study to evaluate the relative contribution of informal battery recycling to elevated blood-lead levels, and a national program to improve the effectiveness of India's Battery Management and Handling Rules.

TOXIC SITES IDENTIFICATION PROGRAM (TSIP)

The TSIP identifies active and abandoned hazardous waste sites resulting from both formal

and informal industrial activities in low- and middle-income countries (LMICs). Informal activities include but are not limited to electronic waste or scrap metal recycling, used lead-acid battery recycling, small-scale gold mining, leather tanning, and ceramic pottery making. The TSIP does not include exposure data from non-point sources such as vehicle traffic, sewage contaminated water, or naturally occurring arsenic contamination. As part of a TSIP investigation, a “key pollutant” is identified and analyzed.

TSIP is designed and managed by Pure Earth and implemented in India with oversight by the Country Director based in New Delhi and with a variety of non-profit and academic partner institutions across the country.

The TSIP database in India is Pure Earth’s largest national database. Since February 2016, the TSIP in India has been supported, in part, by the European Commission and UNIDO. Since then, Pure Earth has focused the India TSIP specifically on identifying lead (Pb) contamination and has conducted 183 rapid screening assessments at lead contaminated sites.

TSIP Training

Prior to conducting field screening assessments at suspected contaminated sites, Pure Earth conducts a training program for site investigators. The TSIP training is both a theoretical and practical training, aimed at training experienced environmental professional on how to conduct the Initial Site Screening (ISS) protocol. The theoretical training introduces participants to the work of Pure Earth; the health impacts of pollution; the model of Pollution-Migration-Pathway-People as the basis for understanding and assessing risks at a particular site; and how to use a hand-held Alpha X-ray Fluorescence (XRF) spectrometer, which is a precise instrument that permits collection of real time field data and is key to building in country capacity to monitor and assess heavy metal contamination. The practical component of the training allows participants to conduct a demonstration site assessment, using the ISS protocol, and enter the data collected in the online TSIP database. Between February 2016 and January 2018, two such trainings were conducted in India.

IMPLEMENTATION STRATEGY AND COORDINATION WITH GOVERNMENT

Pure Earth’s implementation strategy for TSIP includes information sharing and coordination with government agencies at all stages of the project. In 2016, Pure Earth held an Inception Meeting in Delhi to introduce the TSIP program goals, activities and methodologies to relevant government agencies and other critical stakeholders. The Inception Meeting was attended by representatives from the Ministry of Environment, Forests and Climate Change, the Ministry of Health and Family Welfare, the Public Health Foundation of India, the India Lead-Zinc Development Association, the Industry Association of India at the University of Delhi, the Institute of Environment and Eco Development, the International Lead Association, Independent Thought, Environment Resources Management, and IDC Foundation.

Pure Earth's representatives met regularly with government officials to share data and findings as a way to help government officials and community members gain a better understanding of the scope of toxic pollution, its impact on public health, and implications for economic growth and sustainable development. Since the focus of the India TSIP has been on lead contamination, these meetings have centered on the issue of lead and the sources of lead contamination in India.

During execution of the project, the contaminated site investigators worked closely with local authorities, community leaders, and residents of the effected communities to integrate them into the project. In addition, government officials sometimes accompanied investigators to site assessments to learn about the process of conducting a site assessment using the ISS protocol. The involvement of the government and community in the project has been essential for the sustainability and effectiveness of the project.

Program Implementation Activities

- Inception Meeting to introduce the project to national and local government officials to gain support and collaboration for successful implementation of the project
- TSIP trainings for implementing partner organizations, including:
 - Center for Environmental Education (8 investigators)
 - Concept Biotech (3 investigators)
 - Institute of Environment and Eco-Development (6 investigators)
 - 4 additional independent investigators
- Coordination with national and local authorities on sites selection and priorities
- Site assessments at suspected contaminated sites
 - Collection of information such as site history, geographic characteristics, maps, photos
 - Collection of data and samples (primarily soil) to determine the type, scale, and severity of contamination at the site, the exposure pathways to humans, and the estimated number of people at risk
 - Analysis of samples by XRF or laboratory analysis when needed
 - Comparison of soil and water contamination results with internationally accepted standards for acceptable levels of pollutants found in air, water and soil, such as those calculated by the World Health Organization or the US Environmental Protection Agency
- Entry of assessment information and data into online TSIP database
- Review of data collected by for quality and consistency by Pure Earth team in New York

Analysis of Environmental Samples

Investigators collected soil samples according to the ISS protocol provided by Pure Earth. In certain situations, in-situ analysis of lead concentrations in soil were measured in the field using an XRF. When the XRF was not available for field use, soil samples were taken to Pure Earth's office and analyzed with the XRF there. XRFs are calibrated accordingly prior to soil sample analysis.

Water samples were not collected at sites suspected of lead contamination. Lead dust resulting from the recycling of lead-acid batteries is generally not water soluble. The lead dust emitted from such processes typically stays in the top 5 centimeters of soil and does not contamination groundwater.

SUMMARY OF KEY RESULTS

In India, a total of 183 sites have been assessed by Pure Earth's investigators from February 2016 to January 2018. Their distribution is shown in Figure 1.

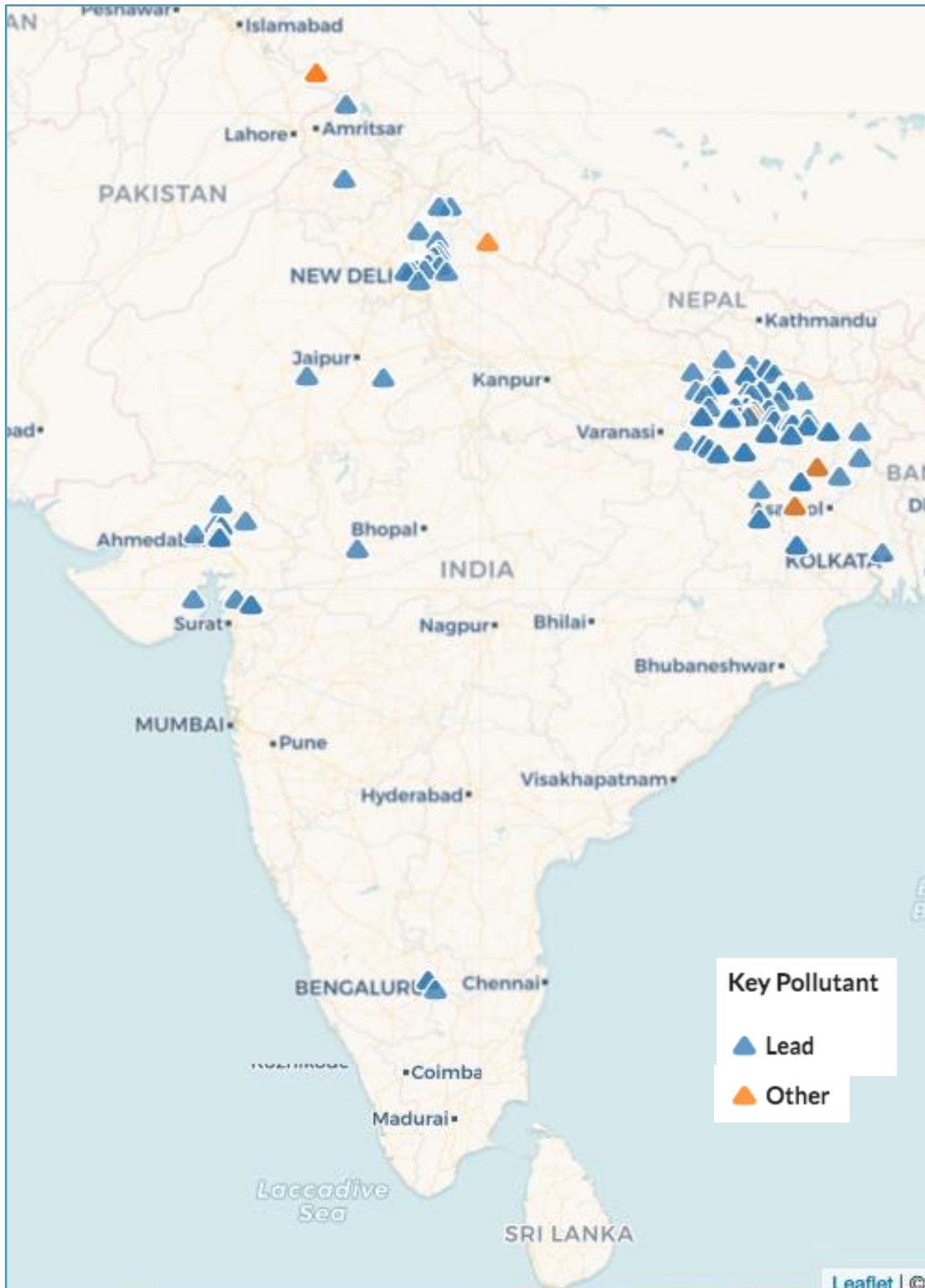


Figure 1. TSIP sites assessed in India from Feb 2016 to January 2018. Given the suspected prevalence of lead-contaminated sites due to informal battery recycling,

focus was put on this pollutant and industry. Thus, at all but one of the assessed sites, the key pollutant was identified as lead.

Table 1: The number of sites as categorized by industry assessed by Pure Earth’s investigators in the TSIP Database, from Feb 2016 to Jan 2018.

Industry	Number of Sites
Lead-acid battery recycling/repair/manufacturing	170
Mixed waste collection	6
Industrial estate (mixed industries)	4
Electroplating	1
E-waste recycling	1
Industrial/Municipal Dump Site	1

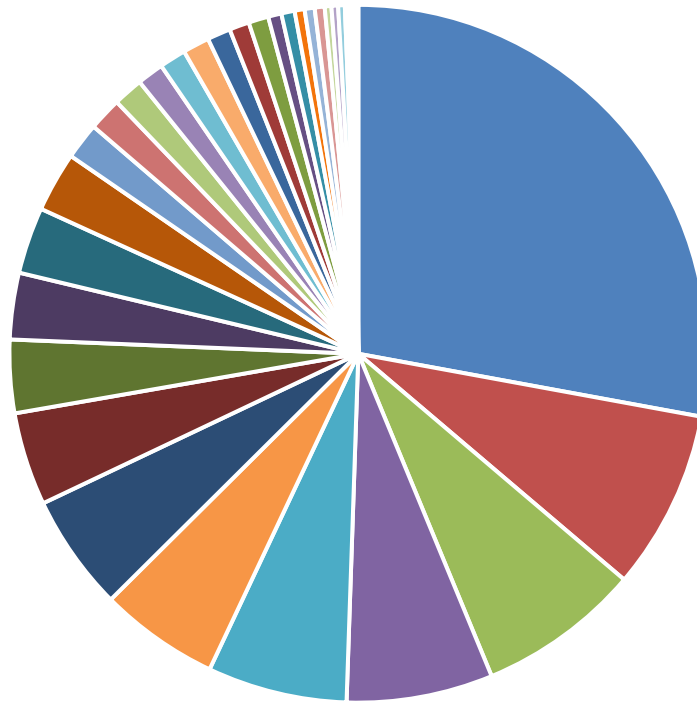
Table 2: Key pollutants from sites assessed and entered in the TSIP database in India, from Feb 2016 to Jan 2018.

Key Pollutant	Number of sites
Lead	182
Other	1

Based on the data from February 2016 to January 2018, the total population at risk was more than 275,000 people among the sites that reported this parameter. The average population affected was 1,660 per site.

When all TSIP sites assessed in India since the program’s inception are considered, the data captures a wider array of industries and key pollutants (Figure 2 and Figure 3). Beyond ULAB activities, contamination was identified at industrial estates, tannery operations, chemical manufacturing units, product manufacturing units, mining and ore processing sites, and dye operations, among others.

As mentioned above, a programmatic emphasis was placed on lead pollution and associated industries. Chromium was among the other pollutants identified. Total chromium was identified most frequently at tannery and dye operations, industrial estates, product manufacturing units, and chemical manufacturing units. Other pollutants identified include cadmium, flourides, mercury, and arsenic.



- Lead-acid Battery Recycling/Repair/Manufacturing
- Industrial Estate (mixed industries)
- Tannery Operations
- Chemical Manufacturing (acids, organics, base chemicals)
- Product Manufacturing (electronics, equipment, clothing)
- Mining and Ore Processing
- Dye Industry
- Power Plants (coal or oil)
- Heavy Industry (casting, rolling, stamping)
- Pesticide Manufacturing
- Agriculture
- Industrial/Municipal Dump Site
- Fertilizer Manufacturing
- Pharmaceutical Manufacturing
- Petrochemical Industries (refineries)
- Multiple Diverse Industries
- Paper Mill
- Smelting (everything except Lead)
- Food Processing
- Naturally Occurring
- Mixed Waste Collection
- Ship-Breaking
- E-waste recycling
- Lead Smelting (with ingot production)
- Wastewater Treatment Plant
- Transportation (bus stations, rail yards)
- Power Plants (nuclear)
- Electroplating
- Lead Mines
- Artisanal Mining (hand mining)
- Medical (hospitals, clinics)
- Recycling / Recyclers (including salvage yards)
- Battery Recycling (not Lead Acid Batteries)

Figure 2. Distribution of site industries identified at all TSIP sites in India since the program's inception.

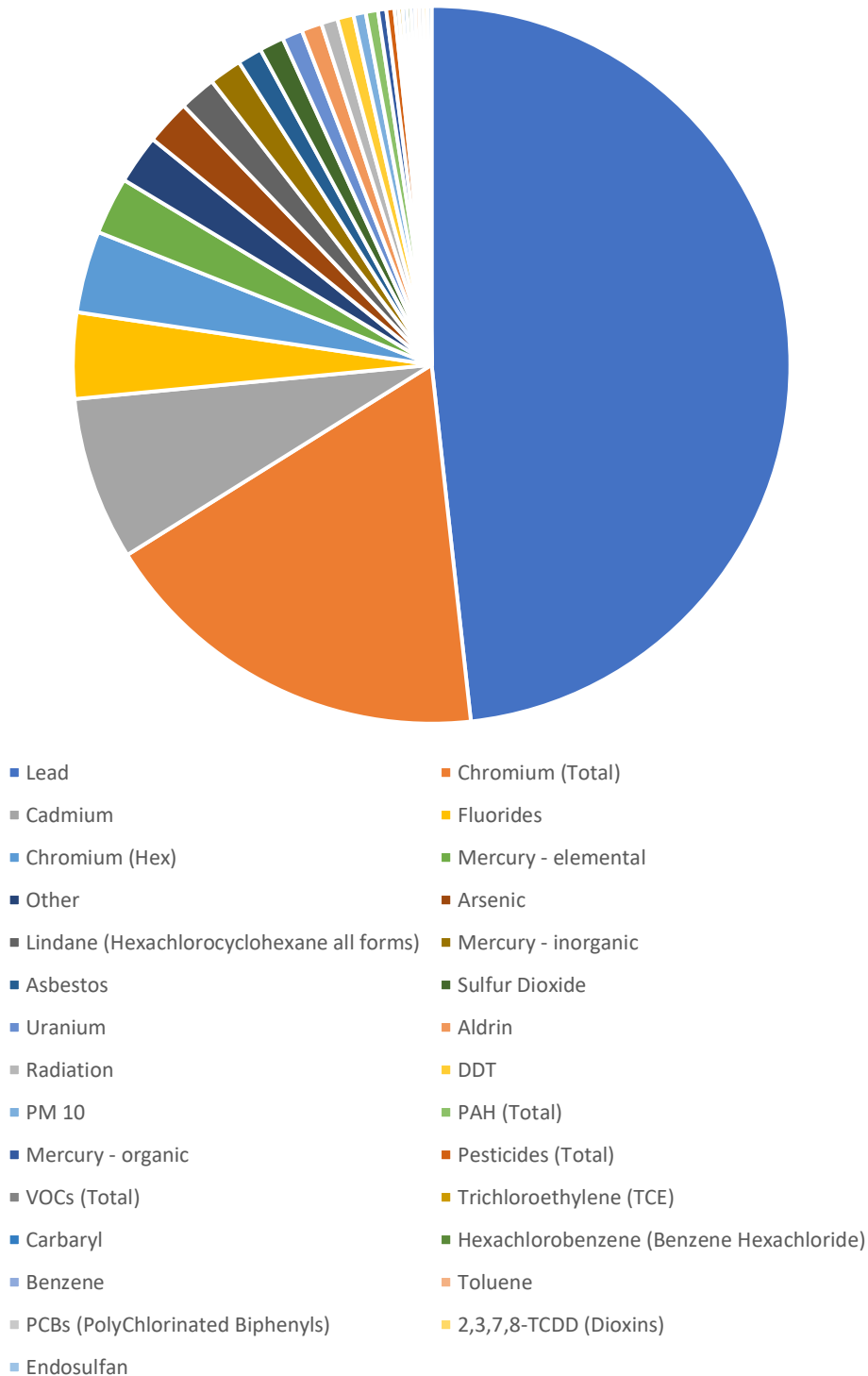


Figure 3. Distribution of key pollutants identified at all TSIP sites in India since the program's inception.

Geographic Coverage of Identified Sites

While sites have been identified and assessed across the country, the highest proportion of TSIP work has been conducted in the eastern region, particularly in the state of Bihar. The Institute of Environment and Eco Development contacted Pure Earth in 2014 seeking support to investigate contamination from ULAB activities in Bihar, which they suspected was a major issue in the state based on anecdotal evidence. Pure Earth agreed to fund them as TSIP partners and provided training and technical support in assessing lead sites. Their suspicions were quickly confirmed by the results obtained using the ISS protocol.

Table 3: Regional distribution of sites assessed and entered in the TSIP database in India, from Feb 2016 to January 2018.

Region	Number of sites
Eastern	117
Northern/Central	46
Western	17
Southern	3

Pollutants, Sources and Health Impacts

As described above, Pure Earth has focused its work on lead due to its prevalence as an environmental contaminant in India and its well-documented impacts on health.

In the 2016 “World’s Worst Pollution Problems” report by Pure Earth and Green Cross Switzerland, the informal battery recycling process is described, “[ULABs] are broken up using hand axes or hammers; smelting of the metallic components occurs out in the open or inside domestic homes; and the toxic waste products are disposed of into the surrounding environment untreated.” These processes cause the release of lead through several routes. Breaking up components and transporting broken parts allows the release of lead fragments and lead oxide dust, which settle on nearby surfaces and on the workers themselves. Smelting and refining disperse lead fumes, which condense as particles that then settle.

The informal recycling of ULABs has the potential to create highly localized contamination hotspots and severe risks to children. Battery recycling activities are often carried out in or near residential communities where lead dust can accumulate in high-risk areas such as paths, roads, sports fields, playgrounds, schools, homes, and other areas where dust is likely to be ingested or inhaled. The dismantling of lead-acid batteries and the disposal of associated wastes can release lead into air, soil, and water. At small-scale ULAB recycling and smelting operations, lead dust released to the air is generally deposited back to land

within 200 meters of the source. Once deposited on land, lead dust can migrate through wind, on shoes and the tires of automobiles, and through flooring and storm water runoff.

The most common human exposure pathways for lead at ULAB recycling sites are ingestion and inhalation of lead dust. While lead can migrate through water, the lead waste generated from ULAB recycling generally has low water solubility, and thus does not pose a great risk to drinking water supplies. Exposure to lead through dermal contact is a much lower-risk exposure pathway than ingestion and inhalation.

In addition to public exposure to outdoor contamination, lead from ULAB recycling can also pose risks through take-home exposure. Lead-containing dust lands on workers' clothing and hair and is brought into the home. Once in the home, lead dust can contaminate food and is often ingested by children playing at ground level through to hand-to-mouth activity (World Health Organization, 2017).

LEVERAGING TSIP DATA IN INDIA

Pure Earth is currently developing non-assessment activities in India that directly result from our in-depth assessment of lead contamination through the TSIP. These activities are designed to advance a national effort to further formalize the lead-acid battery recycling industry and substantially reduce the volume of lead that enters the environment and the bodies of children in surrounding communities.

Risk-Reduction Projects

Data collected through TSIP has been used to identify and prioritize sites for on-the-ground risk reduction projects. The first of such projects in India was carried out in the neighborhood of Karmalichak in Patna, Bihar. This community is home to 4,000 people, including 300 children. TSIP investigators found that batteries were assembled informally next to an elementary school. A detailed assessment of the site and exposure risks was conducted in 2016 to confirm the feasibility and likely benefits of risk-reduction activities. An analysis of the blood lead levels (BLL) among 41 local children was conducted prior to the most significant risk-reduction activities. There is no safe concentration of lead in children's blood. Among children in the U.S., the mean BLL is below 2 µg/dL, and the Centers for Disease Control and Prevention and World Health Organization recommend that children's BLL be kept below 5 µg/dL. BLLs above 5 µg/dL are considered "elevated." The mean BLL among local children at that time was approximately 25 µg/dL, and all children in Karmalichak whose blood was analyzed had a BLL that exceeded 9 µg/dL.

The following primary elements of the risk-reduction project were completed: 1) an assessment of lead contamination in soil and levels of lead in children's blood; 2) a community education program about lead poisoning risks and measures to protect children; 3) a soil capping program to prevent exposures to lead dust from contaminated outdoor

areas; and 4) a home and school cleaning program to remove lead dust from indoor spaces. A post-project environmental assessment of the site showed that the risk-reduction activities had successfully reduced the potential exposures from contaminated soil. After the project, all surface soil samples except one were below the target remediation value of 400 parts per million (PPM) of lead. A follow up analysis of children's BLL will be conducted in the last quarter of 2018 to demonstrate health impacts resulting from the project.

In 2018, data collected through TSIP were also used to select sites for Preliminary Site Assessments in four states in India. Preliminary Site Assessments represent an intermediary step between the identification and Initial Site Screening of a contaminated site and the execution of a risk reduction project. Once an Initial Site Screening has been conducted at a site, it may be selected for a Preliminary Site Assessments to further quantify the extent and distribution of contamination and exposure routes. Based on the results of the Preliminary Site Assessments, sites are once again prioritized and considered for a more detailed assessment, which may then be used to design a risk-reduction project.

Policy Initiatives

In May of 2018, Pure Earth and the World Economic Forum (WEF) established a ULAB Working Group under the WEF's Global Battery Alliance. The ULAB Working Group is specifically focused on identifying and helping to implement regulatory and programmatic actions that increase the percentage of lead-acid batteries that are recycled in the formal sector in India. The Working Group has already submitted public policy recommendations to India's Central Pollution Control Board at the request of the agency. As of November 2018, these recommendations were being considered as part of a package of regulatory reforms being undertaken by the Central Pollution Control Board.

Formalization of the ULAB Industry

The work carried out under TSIP quickly highlighted the prevalence of ULAB recycling as a polluting industry in India and the potentially far-reaching health effects from childhood lead poisoning. One of Pure Earth's goals is to improve industrial processes or move polluting industries away from communities in order to minimize health impacts without disrupting economic productivity. Together with the Institute of Environment and Eco Development—a partner organization which carried out TSIP investigations in the state of Bihar and oversaw the execution of the Karmalichak project—Pure Earth plans to support a cluster development scheme among ULAB recyclers. This project will assist informal ULAB recyclers in navigating government programs designed to formalize economic activities among informal industries and provide funding for improved equipment and processes. Cluster development would involve the establishment of a physical facility, as well as training and capacity building. While government-supported cluster development programs have existed in India for many years, this would be the first time a collective of informal battery workers took advantage of such programs.

Research on Lead Sources

There are several known sources of lead in India, including informal battery manufacturing and recycling, ayurvedic medicine, cosmetics (kohl/surma) and contaminated foodstuffs. To most effectively address elevated blood lead levels, it is important to understand the relative contribution of these sources, as well as which sources are present in a specific community or cultural setting. To increase the national and global understanding of this issue, Pure Earth is initiating a pilot study in Bihar State, India, to attempt to determine the prevalence of specific lead sources and their contribution to elevated blood lead levels. This study will be informed in part by work down through TSIP to identify lead-contaminated sites in Bihar. The study will be implemented in partnership with relevant government agencies and health organizations, and is intended to serve as a model that can be replicated in states throughout India.

RECOMMENDATIONS

1. Local authorities are encouraged to continue to use the ISS protocol to assess more sites as a way to determine locations of contaminated sites in all regions of the country.
2. The government is encouraged to carry out detailed assessments at the sites with high levels of contamination in order to better understand the distribution of the contamination and develop feasible and cost-effective remediation plans that address known public health risks at legacy (former/non-operational) contaminated sites.
3. PE recommends that the government create a national assessment/inventory program based on TSIP protocols.
4. Pure Earth encourages government officials to continue to use the data in the existing TSIP database (www.contaminatedsites.org.org) to make informed decisions about solving the country's pollution problems.
5. The Government should conduct needs assessment related to internal capacity, identify priority areas, and draft a plan for dealing with priority areas for immediate action as well as those areas that need additional investments or outside support. The country action plan will help the authorities to identify and make informed decisions about priority areas and sites for intervention.

Annex A: TSIP sites assessed in India from February 2016 to January 2018.

Site No.	Site Name	Key Pollutant	Latitude	Longitude	Site Industry
4569	Informal ULAB recycling, Amit Vihar, Loni District, Delhi-UP border	Lead	28.71391667	77.31094444	Lead-acid battery recycling/repair/manufacturing
4626	Informal ULAB, Gandhi Chowk, Sonpur, Saran	Lead	25.79487	85.02422	Lead-acid battery recycling/repair/manufacturing
4627	Informal ULAB Recycling, Focal Point, District Amritsar, Punjab	Lead	32.02944444	75.57555556	Lead-acid battery recycling/repair/manufacturing
4628	Informal ULAB site, Sawaech, Maheswar Chowk, Sonpur, Saran, Bihar	Lead	25.69529	85.18591	Lead-acid battery recycling/repair/manufacturing
4629	Modi Battery, Sitalpur Market, NH-19, Saran	Lead	25.76867	85.03539	Lead-acid battery recycling/repair/manufacturing
4631	Informal ULAB recycling, Bus Stand Road, Ara, Bihar	Lead	25.55652	84.67252	Lead-acid battery recycling/repair/manufacturing
4632	R.K. Battery, South Ekauna, Power Grid, Ara, Bihar	Lead	25.52684	84.64129	Lead-acid battery recycling/repair/manufacturing
4633	Informal ULAB making unit, Ramna Raod, Ara	Lead	25.56046	84.66573	Lead-acid battery recycling/repair/manufacturing
4634	Informal ULAB recycling, Choudhariyana, Ara	Lead	25.56778	84.66863	Lead-acid battery recycling/repair/manufacturing
4635	Mahesh Singh Battery Repairing Shop, Kushwaha Chowk, Jandaha	Lead	25.71062	85.54103	Lead-acid battery recycling/repair/manufacturing
4636	Jai Battery, Chandra Cinema Road, Jandaha, Vaishali	Lead	25.86602	85.78305	Lead-acid battery recycling/repair/manufacturing
4637	Informal Battery Recycling, Mehrotra Complex, Jandaha, Vaishali, Bihar	Lead	25.71083	85.5413	Lead-acid battery recycling/repair/manufacturing
4638	Informal Battery Making, Pitamber Nagar, Bihta, Patna, Bihar	Lead	25.57541	84.86994	Lead-acid battery recycling/repair/manufacturing
4639	ULAB Janta Battery, Kazichak Chowk, Barh, Patna	Lead	25.47634	85.70866	Lead-acid battery recycling/repair/manufacturing
4640	Informal ULAB recycling, Tilak Maidan Road, Muzaffarpur	Lead	26.59363	85.50367	Lead-acid battery recycling/repair/manufacturing
4643	Universal Electric Works, Emli Chatti, Muzaffarpur, Bihar	Lead	26.12221	85.3866	Lead-acid battery recycling/repair/manufacturing
4644	Bihar Battery (Informal ULAB), Ramchandrapur, Bus Stand, Bihar Sharif, Nalanda, Bihar	Lead	25.1948	85.50833	Lead-acid battery recycling/repair/manufacturing
4645	Informal ULAB Making, Ranchi Road, near Dargah, Biharsarif, Nalanda	Lead	25.19908	85.5172	Lead-acid battery recycling/repair/manufacturing
4646	Bullet Battery, Informal ULAB recycling, Ranchi Road, Bihar Sharif	Lead	25.18847	85.51589	Lead-acid battery recycling/repair/manufacturing
4647	Lucky Battery, Sursand Road, Sitamarhi	Lead	25.56794	85.66885	Lead-acid battery recycling/repair/manufacturing
4648	Vishal Battery, Mehsoul Chowk, Sitamarhi	Lead	26.46684	85.70322	Lead-acid battery recycling/repair/manufacturing
4649	Suraj Battery, Mehoul Road, Mehsoul, Sitamarhi	Lead	26.59271	85.50744	Lead-acid battery recycling/repair/manufacturing

4864	R.K. Batteries, Scheme No. 71, Near Chandan Nagar, Dhar Road, District-Indore, Madhya Pradesh	Lead	22.706871	75.830935	Lead-acid battery recycling/repair/manufacturing
4874	Informal ULAB recycling unit, Shakeel & Shaukat Battery shop, Shashtri Park, Near D D A Park, Delhi	Lead	28.671	77.2567	Lead-acid battery recycling/repair/manufacturing
4875	Informal ULAB Recycling, Gali No- 2, Mustafabad, Battery & E-Waste Market, Near Idgah, Delhi	Lead	28.7148	77.2772	Lead-acid battery recycling/repair/manufacturing
4876	Informal ULAB Recycling, Battery & Pipe Market, Transport Nagar, Sahibabad, G T Road, Uttar Pradesh	Lead	28.67695486	77.33710533	Lead-acid battery recycling/repair/manufacturing
4877	Auto Market, Wazirabad Road, Yamuna Vihar, Delhi	Lead	28.7041	77.2573	Lead-acid battery recycling/repair/manufacturing
4878	Informal ULAB Recycling, Commercial Battery Shops, Near Petrol Pump, Gokulpuri, Delhi	Lead	28.7019	77.2878	Lead-acid battery recycling/repair/manufacturing
4887	Informal ULAB recycling and battery making, Lakhisarai	Lead	25.15491	86.09408	Lead-acid battery recycling/repair/manufacturing
4888	Informal Battery making, Kachahri main road, near sekhpura bus stand, Lakhisarai	Lead	25.1545	86.09366	Lead-acid battery recycling/repair/manufacturing
4889	Informal battery repairing shop, Gulzar pokhar chowk, Munger	Lead	25.37908	86.47468	Lead-acid battery recycling/repair/manufacturing
4890	Super battery shop (Informal ULAB), Abdul Hamid Chowk, Pani Tank Road, Munger	Lead	25.37971	86.47572	Lead-acid battery recycling/repair/manufacturing
4891	Informal ULAB reconditioning, Chini Mill Chowk, Samastipur	Lead	25.18827	85.51613	Lead-acid battery recycling/repair/manufacturing
4892	Tulsi battery works, Punam Cinema Road, Darbhanga	Lead	26.15317	85.89518	Lead-acid battery recycling/repair/manufacturing
4893	Darbhanga Battery Works, Punam Cinema road, Darbhanga	Lead	26.15292	85.89661	Lead-acid battery recycling/repair/manufacturing
4897	Maa Kali Battery, Station Road, Darbhanga	Lead	26.15268	85.8998	Lead-acid battery recycling/repair/manufacturing
4898	Chotu Battery Purvey Battery, Station Road, Mirzapur Chowk, Darbhanga	Lead	26.15279	85.89863	Lead-acid battery recycling/repair/manufacturing
4899	Bharat Battery, Hospital Road, Opp. Kachahari, Bettiah	Lead	26.80176	84.51662	Lead-acid battery recycling/repair/manufacturing
4901	Calcutta battery, (informal recyclers) Madhuban road, Barachakiya, East Champaran	Lead	26.41553	85.04985	Lead-acid battery recycling/repair/manufacturing
4902	Faiyaz battery, power House Chowk, Muzaffarpur road, Bara Chakiy, East Champaran	Lead	26.41193	85.05566	Lead-acid battery recycling/repair/manufacturing
4903	Mintu Battery, Muzaffarpur Road, Bara Chakiya, East Champaran	Lead	26.4142	85.05116	Lead-acid battery recycling/repair/manufacturing
4904	Star Battery, Azad Chowk, Dhaka, East Champaran	Lead	26.67334	85.16457	Lead-acid battery recycling/repair/manufacturing
4905	Informal Battery, Kapariya, near Alka Cinema, Begusarai	Lead	25.42159	86.11503	Lead-acid battery recycling/repair/manufacturing

4906	Rajdhani Auto Electric, NH-31 bypass Road, near, Subhash, Chowk, Begusarai	Lead	25.42385	86.12505	Lead-acid battery recycling/repair/manufacturing
4914	Informal ULAB Recycling, Main Gopal Nagar, Nazafgarh	Lead	28.610278	76.970556	Lead-acid battery recycling/repair/manufacturing
4915	Bisheshwar Battery shop, Kirani Ghat, River Side Road, Gaya	Lead	24.79723	85.01163	Lead-acid battery recycling/repair/manufacturing
4916	Rashid Battery & Motor Parts Shop, A.N. Road, Gaya	Lead	24.79966	85.01141	Lead-acid battery recycling/repair/manufacturing
4917	Bheem Battery Works, N.K. Lal Road, Gaya	Lead	24.80028	85.01109	Lead-acid battery recycling/repair/manufacturing
4918	Jha Battery Works, Pandasarai, Lehariasarai, Darbhanga	Lead	26.10007	85.90287	Lead-acid battery recycling/repair/manufacturing
4997	Informal ULAB Recycling, Market area, Samaypur Transport Nagar, Delhi	Lead	28.7452	77.1495	Lead-acid battery recycling/repair/manufacturing
4998	Informal ULAB Recycling, Commercial & Transport Repairing area, Libaspur, near G.T.Karnal Road, Delhi	Lead	28.7575	77.1474	Lead-acid battery recycling/repair/manufacturing
5001	Informal ULAB Recycling, Commercial & Industrial Area, Sector- 35, Old Faridabad, Mathura Road, Haryana	Lead	28.417	77.3108	Lead-acid battery recycling/repair/manufacturing
5002	Informal ULAB Recycling, Industrial Area, Wazirpur, Delhi	Lead	28.6977	77.1668	Lead-acid battery recycling/repair/manufacturing
5003	Informal ULAB Recycling, Mayapuri Big Auto Scrap Market, Delhi	Lead	28.6141	77.1123	Lead-acid battery recycling/repair/manufacturing
5004	Informal ULAB Recycling, Residential area, Ranhola, Nazafgarh Road, Delhi	Lead	28.6556	77.0404	Lead-acid battery recycling/repair/manufacturing
5005	Informal ULAB Recycling, Market area, Near Sub Divisional Magistrate Office, Najafgarh, Delhi	Lead	28.6109	77.9672	Lead-acid battery recycling/repair/manufacturing
5006	Informal ULAB Recycling, Big Plastic Scrap Market, Near Bahadur gadh Road, Mundaka, Delhi	Lead	28.6841	77.0271	Lead-acid battery recycling/repair/manufacturing
5022	Informal ULAB Recycling, Sultanpur Majra Road, New Delhi	Lead	28.68944444	77.07805556	Lead-acid battery recycling/repair/manufacturing
5044	Brahamadev Battery, Shivdhara, Darbhanga	Lead	26.17609	85.87984	Lead-acid battery recycling/repair/manufacturing
5045	Shivnath Battery Works, Jafarpur, Paru, Muzaffarpur	Lead	26.08562	85.01552	Lead-acid battery recycling/repair/manufacturing
5046	Vikash Battery Works, Saraiyan, Muzaffarpur	Lead	26.03574	85.14998	Lead-acid battery recycling/repair/manufacturing
5047	Pailot Battery, Rajkumar Ganj, Darbhanga	Lead	26.15442	85.89867	Lead-acid battery recycling/repair/manufacturing
5048	Ram Battery Centre, Donar Rd, Ambedkar Chowk, Darbhanga	Lead	26.144457	85.91096	Lead-acid battery recycling/repair/manufacturing
5049	Suraj Battery Centre, Donar Rd., Near Railway Gumti, Darbhanga	Lead	26.14457	85.90883	Lead-acid battery recycling/repair/manufacturing
5053	Informal ULAB Recycling, Gokhale Market, Tiz Hazari	Lead	28.66	77.22	Lead-acid battery recycling/repair/manufacturing
5063	Janta Battery, Naya Bazar, Near-Patna Rly. Station, Patna	Lead	25.60452	85.13519	Lead-acid battery recycling/repair/manufacturing

5064	Krishna Battery, Kashi Bazar Chowk, Chapra, Saran	Lead	25.78556	84.71996	Lead-acid battery recycling/repair/manufacturing
5065	Ramco Battery, Bhagwan Bazar, opp.- Panch Mandir, Chapra, Saran	Lead	25.78504	84.72253	Lead-acid battery recycling/repair/manufacturing
5066	Ambika Battery, Bhagwan Bazar, Chapra, Saran	Lead	21.5047	73.3389	Lead-acid battery recycling/repair/manufacturing
5067	Informal ULAB, Thana Golamber, Phulwarisharif, Patna	Lead	25.57693	85.06834	Lead-acid battery recycling/repair/manufacturing
5068	Magadh Battery, Anishabad Golamber, Anishabad, Patna	Lead	25.58422	85.09639	Lead-acid battery recycling/repair/manufacturing
5069	Lala Ji Battery Service, Narainiya, Meerganj, Siwan	Lead	26.35899	84.33708	Lead-acid battery recycling/repair/manufacturing
5070	Jyoti Battery, Lalit Bus Stand, Near-Kachari Rly. Station, Siwan	Lead	26.22665	84.34687	Lead-acid battery recycling/repair/manufacturing
5071	Dhanu Battery, Lalit Bus Stand, Siwan	Lead	26.22553	84.34851	Lead-acid battery recycling/repair/manufacturing
5072	Kali Battery, Chapra Road, Siwan	Lead	26.22146	84.36785	Lead-acid battery recycling/repair/manufacturing
5073	Informal ULAB recycling shop, Chapra Road, Near Sadhu Petrol Pump, Siwan, Bihar	Lead	26.22247	84.36688	Lead-acid battery recycling/repair/manufacturing
5074	Informal ULAB recycling, Municipal Chowk, Chapra Town, Saran	Lead	25.78171	84.74445	Lead-acid battery recycling/repair/manufacturing
5075	Sahu Battery Works (Informal ULAB), Rauza Near- Dharm Kanta, Saran	Lead	25.77631	84.78049	Lead-acid battery recycling/repair/manufacturing
5076	Chand Battery (Informal ULAB recycling), Rauza Pokhar, Saran	Lead	25.77687	84.77773	Lead-acid battery recycling/repair/manufacturing
5077	Ramashankar Battery (Informal ULAB), Gandhi Chowk, NH-19, Chappra, Saran	Lead	25.78087	84.75493	Lead-acid battery recycling/repair/manufacturing
5078	Sarwati Battery Works (informal ULAB recycling), Nehru Chowk, Nandalal Dhala, Saran	Lead	25.78362	84.75554	Lead-acid battery recycling/repair/manufacturing
5079	Vikash Battery (informal), Garkha Road, Gandhi Chowk, Saran	Lead	25.78229	84.75441	Lead-acid battery recycling/repair/manufacturing
5080	Informal Battery making unit, Gandhi Chowk, Saran	Lead	25.78104	84.75328	Lead-acid battery recycling/repair/manufacturing
5088	Informal ULAB Recycling, Residential Area, Burari, Near Outer Ring Road, Delhi	Lead	28.722422	77.1656	Lead-acid battery recycling/repair/manufacturing
5089	Informal ULAB Recycling, Sofuta Road, Jyoti Nagar East, Naer Durga Puri Chowk, Delhi	Lead	28.689345	77.2919827	Lead-acid battery recycling/repair/manufacturing
5097	Informal ULAB Recycling, Big Market of Battery Shops, Mori Gate, Backside of Tees Hazari Court, Delhi	Lead	28.665299	77.220002	Lead-acid battery recycling/repair/manufacturing
5106	Sunshine Battery, Bhagwanpur, NH-28, Muzaffarpur	Lead	26.11666	85.35941	Lead-acid battery recycling/repair/manufacturing
5107	Chand Battery & Electric works (informal), Bhagwanpur Chowk, Muzaffarpur	Lead	26.11829	86.3583	Lead-acid battery recycling/repair/manufacturing

5108	Bihar Battery Traders, NH-28, Bhagwanpur, Muzaffarpur	Lead	26.11853	85.35893	Lead-acid battery recycling/repair/manufacturing
5109	Star Battery, M.P. Bag, C.K. Road, Ara, Bhojpur, Bihar	Lead	25.56662	84.66619	Lead-acid battery recycling/repair/manufacturing
5110	New Chotan Battery, Salempur road, Afimi Kothi, Maghaua, Ara, Bhojpur, Bihar	Lead	25.56781	84.659	Lead-acid battery recycling/repair/manufacturing
5111	Asif Battery Centre, Purani Police Line, Tempo Stand, Ara, Bhojpur, Bihar	Lead	25.56577	84.66251	Lead-acid battery recycling/repair/manufacturing
5112	Shivmuni Battery & Electric Works, Maula Bagh, Ara-Buxar main Road, Ara, Bhojpur, Bihar	Lead	25.56235	84.65458	Lead-acid battery recycling/repair/manufacturing
5113	Nelco Battery, Purani Police Line, Maula Baag, Ara, Bhojpur, Bihar	Lead	25.56441	84.66087	Lead-acid battery recycling/repair/manufacturing
5114	Sico Battery, Chandralok Mkt, Gausganj, Gangi, Ara, Bhojpur, Bihar	Lead	25.57757	84.67646	Lead-acid battery recycling/repair/manufacturing
5115	Patna Battery, Dak Banglow Road, Hajipur, Vaishali	Lead	25.69657	85.21269	Lead-acid battery recycling/repair/manufacturing
5116	Bihar Battery Traders Dakbangla Road, Hajipur	Lead	25.69521	85.21085	Lead-acid battery recycling/repair/manufacturing
5117	Jahid Battery & Motor Repairing Shop, Anjanpir Chowk, Hajipur	Lead	25.69975	85.2063	Lead-acid battery recycling/repair/manufacturing
5125	Informal Battery Making site, Main Road, Near-Buxar Hotel, Buxar	Lead	25.57979	83.98811	Lead-acid battery recycling/repair/manufacturing
5126	Russion Battery, Main Road, Near-Nagar Parishad, Buxar	Lead	25.57401	83.97481	Lead-acid battery recycling/repair/manufacturing
5127	Jyoti Battery, Syndigate Golamber, Buxar, Bihar	Lead	25.57694	83.98698	Lead-acid battery recycling/repair/manufacturing
5182	Bablu Battery Works, Khagaul, Patna	Lead	25.6098	85.07637	Lead-acid battery recycling/repair/manufacturing
5183	Kallu Battery Works, New Market, Patna	Lead	25.60407	85.13432	Lead-acid battery recycling/repair/manufacturing
5184	Raju Electric and Battery Shop, Nawabbag, Police line road, Tilakmanjhi, Bhagalpur, Bihar	Lead	25.25123	86.99689	Lead-acid battery recycling/repair/manufacturing
5185	Super Electronic Battery Shop, Kaji chak, Bonsi Road, Bhagalpur	Lead	25.23553	86.97431	Lead-acid battery recycling/repair/manufacturing
5186	Anil Electronic & Battery Repairing, Bhikanpur, Gumti No-3, Bhagalpur	Lead	25.24869	86.98904	Lead-acid battery recycling/repair/manufacturing
5187	Mintu Battery, Mujahidpur, Bhagalpur	Lead	25.23999	86.9749	Lead-acid battery recycling/repair/manufacturing
5188	Jaiswal Battery Shop, M.G Marg, Khagariya	Lead	25.50451	86.47584	Lead-acid battery recycling/repair/manufacturing
5189	Anokha Auto Electric & Battery Shop, Paprou, Begusarai	Lead	25.44659	86.04421	Lead-acid battery recycling/repair/manufacturing
5190	K.G.N Auto Electric Battery Shop, Deonah, Begusarai.	Lead	25.44327	86.0568	Lead-acid battery recycling/repair/manufacturing
5191	Munna Battery & Electric work shop, Aurangabad, Bihar	Lead	24.75437	84.37599	Lead-acid battery recycling/repair/manufacturing
5192	Chand Battery Service Centre, Aurangabad	Lead	24.75403	84.37654	Lead-acid battery recycling/repair/manufacturing

5194	Informal ULAB Shivaji Chawk, Bhabhua, Kaimur	Lead	25.04411	83.60203	Lead-acid battery recycling/repair/manufacturing
5195	Deep Battery House, New area More, Pawan Market, Sasaram	Lead	24.95427	84.02833	Lead-acid battery recycling/repair/manufacturing
5196	Action Battery House, Sahu Cinema Road, Sasaram	Lead	24.95417	84.02336	Lead-acid battery recycling/repair/manufacturing
5198	Aakash Battery House, Baulia Chauk, Sasaram	Lead	24.95462	84.02466	Lead-acid battery recycling/repair/manufacturing
5270	Vishal Battery (informal), Bhandari Dih, Chandari Chawk, Giridih, Jharkhand	Lead	24.18876	86.29819	Lead-acid battery recycling/repair/manufacturing
5271	Sonu Battery, Bada Chawk, Tundi Road, Giridih, Jharkhand	Lead	24.17978	86.31092	Lead-acid battery recycling/repair/manufacturing
5272	Tanny Battery, Station Road, Near Line Masjid, Giridih, Jharkhand	Lead	24.18393	86.30917	Lead-acid battery recycling/repair/manufacturing
5273	Bihar Auto Electrical, Gurudwara Road, Chas, Bokaro, Jharkhand	Lead	23.6299	86.1853	Lead-acid battery recycling/repair/manufacturing
5274	Leader Battery, By Pass Road, Chass, Bokaro, Jharkhand	Lead	23.63229	86.16988	Lead-acid battery recycling/repair/manufacturing
5275	Punam Battery & Electrical Works, Suryadevnagar, near Kuldip Takkies, Chass, Bokaro	Lead	23.63592	86.16215	Lead-acid battery recycling/repair/manufacturing
5276	Sun Battery, Kallu Chawk, Hazaribag, Jharkhand	Lead	24.00477	85.35191	Lead-acid battery recycling/repair/manufacturing
5325	Lucky Battery, S.S.M Jalan Road, Deoghar, Jharkhand	Lead	24.48843	86.69684	Lead-acid battery recycling/repair/manufacturing
5327	Durga Battery, Bompas town, Dev sangh Road, Deoghar, Jharkhand	Lead	24.48101	86.69288	Lead-acid battery recycling/repair/manufacturing
5328	Ujjla Battery, Bazar Samiti, Dumka Road Deoghar, Jharkhand	Lead	24.49045	86.71465	Lead-acid battery recycling/repair/manufacturing
5329	Tata Battery, Bhagalpur Road, Dumka, Jharkhand.	Lead	24.27713	87.24154	Lead-acid battery recycling/repair/manufacturing
5330	Informal Battery Pakur, Hiranpur, Dumka Road, Pakur, Jharkhand.	Lead	24.70416	87.70095	Lead-acid battery recycling/repair/manufacturing
5331	Informal Battery Shop, Sakrigali, Badi Bhagamari, Sahibganj, Jharkhand	Lead	25.24272	87.71232	Lead-acid battery recycling/repair/manufacturing
5377	Informal ULAB recycling, Andhrahalli Main Road, 2nd stage Pennya, Bangalore, Karnataka	Lead	13.0116	77.5072	Lead-acid battery recycling/repair/manufacturing
5379	Hamraj Battery Shop, Kanta Toli opposite of Petrol Pump near Bus Stand, Ranchi, Jharkhand.	Lead	23.36375	85.34692	Lead-acid battery recycling/repair/manufacturing
5380	Informal Battery Shop, Konka Road, Karbla Chauk, Ranchi, Jharkhand	Lead	23.3614	85.32916	Lead-acid battery recycling/repair/manufacturing
5381	Balaji auto electricals, Tola dumri, Tisco truck parking area, Golmuri, Jamshedpur, Jharkhand.	Lead	22.79304	86.21352	Lead-acid battery recycling/repair/manufacturing
5382	Classic Battery, Slage Road, Near Hawra Bridge, Sakchi, Jamshedpur, Jharkhand.	Lead	22.79988	86.21209	Lead-acid battery recycling/repair/manufacturing

5388	Informal ULAB RECYCLING - BOOMASANDRA, BANGALORE, KARNATAKA	Lead	12.8144	77.6838	Lead-acid battery recycling/repair/manufacturing
5389	Informal battery recycling, Pennya 3rd and 4th stage, 560058, Bangalore, Karnataka	Lead	13.0316	77.5266	Lead-acid battery recycling/repair/manufacturing
5391	New Pure Enterprises Modinagar Industrial Area, Modinagar	Lead	28.820504	77.55038	Lead-acid battery recycling/repair/manufacturing
5394	Sybli Industrial Area pawanpuri Murad Nagar	Lead	28.78547	77.520898	Lead-acid battery recycling/repair/manufacturing
5407	Mokumpur Industrial Area, Meerut	Lead	28.954235	77.676691	Lead-acid battery recycling/repair/manufacturing
5408	Radix power solutions Bichola, Khurja, Bulandshehar	Lead	29.036208	77.774617	Lead-acid battery recycling/repair/manufacturing
5409	Partapur Industrial Area, Meerut	Lead	28.920245	77.655429	Industrial Estate (mixed industries)
5410	shastri Nagar Meerut	Lead	28.955083	77.732255	Lead-acid battery recycling/repair/manufacturing
5532	ULAB Informal Battery site, Kankarbagh main Road & Khemni Chak, Patna	Lead	25.60349	85.14961	Lead-acid battery recycling/repair/manufacturing
5533	ULAB Battery Recycling Site, Aine Cutt, Dehri, Rohtas, Bihar, India	Lead	24.8889	84.17406	Industrial/Municipal Dump Site
5542	Informal battery recycling site, Malgodam Road, Near - Shishmahal Cinema Hall, Ballia, Uttar Pradesh	Lead	25.75995	84.15427	Lead-acid battery recycling/repair/manufacturing
5543	Informal Battery Recycling Site, Sikandarpur, Ballia, U.P.	Lead	26.03769	84.05038	Lead-acid battery recycling/repair/manufacturing
5544	Informal Battery Recycling site, Belthra Road, Near Chawkiya More, Ballia, U.P.	Lead	26.12231	83.86395	Lead-acid battery recycling/repair/manufacturing
5545	Turbo Naxx Informal battery Recycling, Mehrapurwa, Deoria, U.P.	Lead	26.52648	83.77346	Lead-acid battery recycling/repair/manufacturing
5641	Informal E-waste & ULAB Memnagar, Ahmedabad	Lead	23.0469	72.5431	E-waste recycling
5646	Informal ULAB recycling- Krishna Nagar, East Delhi	Lead	28.6604	77.2882	Lead-acid battery recycling/repair/manufacturing
5662	ALCO Batteries kakrola village Delhi	Lead	28.605609	77.018756	Lead-acid battery recycling/repair/manufacturing
5663	AMBER Batteries (Informal), Khatauli, Muzaffarnagar	Lead	29.270429	77.720622	Lead-acid battery recycling/repair/manufacturing
5664	Balaji Batteries Shamli	Lead	29.445385	77.30445	Lead-acid battery recycling/repair/manufacturing
5665	Kanth Batteries (Informal ULAB), Hapur, Uttar Pradesh	Lead	28.7332	77.7687	Lead-acid battery recycling/repair/manufacturing
5669	Informal imitation bangle making clusters, Makardah, Howrah	Lead	22.61555556	88.24277778	Electroplating
5679	Elecon Batteries (informal ULAB) Meerut, Uttar Pradesh	Lead	28.950906	77.675538	Lead-acid battery recycling/repair/manufacturing
5685	Green Life batteries Ghaziabad	Lead	28.640512	77.431543	Lead-acid battery recycling/repair/manufacturing

5686	Inzen Power Solutions Sidcul Haridwar	Lead	29.956375	78.065176	Lead-acid battery recycling/repair/manufacturing
5687	Jain Batteries Meerut	Lead	28.96171	77.6849	Lead-acid battery recycling/repair/manufacturing
5688	Amtex Battery Kashipur	Lead	29.2262	78.934	Lead-acid battery recycling/repair/manufacturing
5689	Prime batteries Ghaziabad	Lead	28.64366	77.43615	Lead-acid battery recycling/repair/manufacturing
5734	yakutpura , champaner gate vadodara	Lead	23.3047	73.2136	Lead-acid battery recycling/repair/manufacturing
5736	nagarwada near karelibaug police station vadodara	Lead	21.5047	73.3389	Lead-acid battery recycling/repair/manufacturing
5737	Gandhinagar vavol sector -25	Lead	23.6861	72.6258	Lead-acid battery recycling/repair/manufacturing
5738	Ahmedabad vadinath chock	Lead	23.0475	72.5441	Lead-acid battery recycling/repair/manufacturing
5739	Ahmedabad	Lead	23.0391	72.0391	Lead-acid battery recycling/repair/manufacturing
5757	Kevin Power Solutions Bhagwanpur	Lead	29.96314	77.7727	Lead-acid battery recycling/repair/manufacturing
5772	kalol railway station manasasd kalol road	Lead	23.2497	72.5005	Lead-acid battery recycling/repair/manufacturing
5773	Narol vishala highway ahmedabad	Lead	22.9908	72.5361	Lead-acid battery recycling/repair/manufacturing
5778	Gandhinagar sector 28 GIDC Pethapur road	Other	23.2505	72.6605	Mixed waste collection
5781	Gandhinagar dhodakuva village	Lead	23.1886	72.643	Mixed waste collection
5785	sargashan chokdi sector -3 gandhinagar	Lead	23.1963	72.6266	Mixed waste collection
5795	Ghodasar Ahmedabad	Lead	22.9705	72.6094	Mixed waste collection
5797	rajasthan ,ajmer makhupura area	Lead	26.40266	76.4479	Industrial Estate (mixed industries)
5798	Ajmer ,rajasthan makhupura industrial area	Lead	26.4121	74.6627	Industrial Estate (mixed industries)
5830	Ishanpur , Ahmedabad	Lead	22.963	72.6069	Mixed waste collection
5836	Ankleshwar hansa market	Lead	21.6027	72.9977	Mixed waste collection
5838	Koccher batteries jammu	Lead	32.67942	74.87818	Lead-acid battery recycling/repair/manufacturing
5840	Surya Batteries Jammu	Lead	32.67478	74.87218	Lead-acid battery recycling/repair/manufacturing
5842	Virdhi batt. Jammu	Lead	32.70612426	74.89568389	Lead-acid battery recycling/repair/manufacturing
5843	white house bari-brahmina Jammu	Lead	32.643	74.9	Lead-acid battery recycling/repair/manufacturing
5844	Bharat batteries Bari-Brahimina	Lead	32.64498	74.90653	Lead-acid battery recycling/repair/manufacturing
5846	Ankleshwar GIDC	Lead	21.6047	72.0002	Industrial Estate (mixed industries)