



Project Implementation Report

(1 July 2022 –30 June 2023)

Project Title:	Environmentally Sound Development of the Power Sector with the Final Disposal of Poly Chlorinated Bi-Phenyls (PCBs)
GEF ID:	GEF 4858
UNIDO ID:	100310
GEF Replenishment Cycle:	GEF-5
Country(ies):	Bangladesh
Region:	SA - Southeast Asia
GEF Focal Area:	Persistent Organic Pollutants (POPs)
Integrated Approach Pilot (IAP) Programs¹:	N/A
Stand-alone / Child Project:	Stand-alone
Implementing Department/Division:	ENV / IPM
Co-Implementing Agency:	N/A
Executing Agency(ies):	Ministry of Environment Forests and Climate Change (MoEFCC) /Department of Environment, Bangladesh
Project Type:	Full-Sized Project (FSP)
Project Duration:	48 Months
Extension(s):	1
GEF Project Financing:	USD 3,000,000
Agency Fee:	USD 285,000
Co-financing Amount:	USD 27,145,080
Date of CEO Endorsement/Approval:	5/10/2016
UNIDO Approval Date:	1/28/2015
Actual Implementation Start:	8/1/2017
Cumulative disbursement as of 30 June 2023:	USD 919,583.5
Mid-term Review (MTR) Date:	10/19/2021
Original Project Completion Date:	8/1/2021
Project Completion Date as reported in FY22:	12/31/2023
Current SAP Completion Date:	12/31/2023
Expected Project Completion Date:	12/31/2025

¹ Only for GEF-6 projects, if applicable

Expected Terminal Evaluation (TE) Date:	10/31/2025
Expected Financial Closure Date:	10/31/2026
UNIDO Project Manager²:	Ms. Lamia Benabbas

I. Brief description of project and status overview

Project Objective
<p>The objective of this project is to assist the power sector of the country in fulfilling its obligation under the Stockholm Convention by reducing the release of PCBs to the environment and disposal of 500 tons of PCB containing equipment, oil and waste in an environmentally sound manner.</p> <p>This will be achieved through development of appropriate legal and institutional framework; institutional capacity building, public education and awareness raising; development of PCB management plan; transfer of environmentally sound technology for the treatment of PCB-containing equipment, oil and wastes; and monitoring and evaluating the impacts of the intervention. The project will carry-out detailed inventory of PCB and enhance national capacity for environmentally sound management of PCB (usage, handling, storage, transportation and disposal).</p>

Baseline
<p><i>Project managers are encouraged to use the baseline description from earlier PIRs, if applicable, unless changes to the project's baseline have occurred during the reporting period.</i></p> <p>During the preparation of original National Implementation Plan (NIP) in 2006 a preliminary inventory has been done. There was no facilities for identification of PCB content in electrical equipment. There were also no environmentally sound management standards for handling, storage and service of PCB equipment. The UNIDO delegation's visit in 2013 has confirmed a lack of proper maintenance practice and storage standards for phase-out of operation equipment in transformer maintenance workshops in Bangladesh. The maintenance and repair of oil transformers is carried-out without proper knowledge of PCB associated risks and potential cross examination of clean equipment with PCB. However, private sectors was active in the area of transformer oil regeneration. Neither legal nor regulatory framework on PCBs nor technical guidelines for the environmentally sound management of PCBs have been established in Bangladesh. From the given baseline scenario and without the project intervention, it is expected that new equipment will be contaminated</p>

Please refer to the explanatory note at the end of the document and select corresponding ratings for the current reporting period, i.e. FY23. Please also provide a short justification for the selected ratings for FY23.

In view of the GEF Secretariat's intent to start following the ability of projects to adopt the concept of adaptive management³, Agencies are expected to closely monitor changes that occur from year to year and demonstrate that they are not simply implementing plans but modifying them in response to developments and circumstances or understanding. In order to facilitate with this assessment, please introduce the ratings as reported in the previous reporting cycle, i.e. FY22, in the last column.

Overall Ratings⁴	FY23	FY22
Global Environmental Objectives (GEOs) /	<i>Moderately Satisfactory (MS)</i>	<i>Moderately Satisfactory (MS)</i>

² Person responsible for report content

³ Adaptive management in the context of an intentional approach to decision-making and adjustments in response to new available information, evidence gathered from monitoring, evaluation or research, and experience acquired from implementation, to ensure that the goals of the activity are being reached efficiently

⁴ Please refer to the explanatory note at the end of the document and assure that the indicated ratings correspond to the narrative of the report

Development Objectives (DOs) Rating		
<i>Rating of GEOs and DOs is as in FY22.</i>		
Implementation Progress (IP) Rating	<i>Moderately Satisfactory (MS)</i>	<i>Moderately Satisfactory (MS)</i>
Project activities (capacity building, awareness raising, have progressed, however, the inventory, which is key to starting the technology component, has not yet been completed. Project facing delays and requires an extension period.		
Overall Risk Rating	<i>Low Risk (L)</i>	<i>Low Risk (L)</i>
No internal or external factors that could jeopardize the project are anticipated. Government and companies are committed. Risk rating rated as in FY 2022.		

II. Targeted results and progress to-date

Please describe the progress made in achieving the outputs against key performance indicator's targets in the project's **M&E Plan/Log-Frame at the time of CEO Endorsement/Approval**. Please expand the table as needed.

Please fill in the below table or make a reference to any supporting documents that may be submitted as annexes to this report.

Project Strategy	KPIs/Indicators	Baseline	Target level	Progress in FY23
Component: 1 – Legal and Institutional Framework.				
Outcome: 1 - Legal and Institutional framework and capacities used to adopt guidelines/regulations for POPs, particularly ESM of PCB contaminated equipment, oil and waste				
Output 1.1: Legal framework updated and established for the environmentally sound management of PCBs	<ul style="list-style-type: none"> Environmental laws and regulations Workshops with gender-segregated participants 	<ul style="list-style-type: none"> Bangladesh has Hazardous Waste Management Rules, 2011 	<ul style="list-style-type: none"> Number of environmental policies, strategies, laws, regulations established (at least 9 in DOE, MOEF, MOPEMR: BPDB, PGCB, BREB, DPDC, DESCO, WZPDC O) Number of workshops with gender-segregated participants (3, 72/18), (male/female) 	<ul style="list-style-type: none"> Related policy, acts and rules has been collected. (Submitted with previous PIRs) Updated detailed reviewed report on existing relevant Laws, Acts and Rules; analysed to identify and find out the gaps and recommendations to address the gaps for sustainable management of PCBs in Bangladesh as well as fulfil the obligations of Bangladesh to Stockholm convention. (Submitted with previous PIRs) Developed PCB Rulebook (Submitted with previous PIRs) Workshop on policy yet not undertaken.
Output 1.2: Implementation and inspection	<ul style="list-style-type: none"> Assessment report on the implementation 	<ul style="list-style-type: none"> There is neither institutional 	<ul style="list-style-type: none"> Number of assessment reports on the 	<ul style="list-style-type: none"> Finalization of capacity assessment and inspection capacity report of the power companies on the sound

Project Strategy	KPIs/Indicators	Baseline	Target level	Progress in FY23
<p>capacity assessed and strengthen for key governmental institutes</p>	<p>and inspection capacities;</p> <ul style="list-style-type: none"> • Visit to and interview with the participating governmental institutes • Project progress reports Meeting reports and Project Steering Committee meeting minutes 	<p>manadate nor techical capacity to monitor the technical specification adopted by the power sectors agencies to import dielectric oil specifies non-PCB oil.</p>	<p>implementation and inspection capacities (1 for 9 agencies)</p> <ul style="list-style-type: none"> • Number of PCB screening test kits used (9 kits) • Number of visits for the inspection activities on PCBs (9) • Number of inspection reports (1) 	<p>management of PCB and PCB containing equipment (Annex-1)</p> <ul style="list-style-type: none"> • PCB sampling ongoing; as per submitted individual sampling report by seven (7) organization power sector tested 4124 transformer/ old or discarded transformer oil drum (3633 tranformer and 491 drums old/discarded tranformer oil) against 5323 supplied test kit (Annex-2) • Not yet undertaken
<p>Output 1.3: Awareness and knowledge on POPs/PCBs issues and regulation enhanced among key stakeholders and general public</p>	<ul style="list-style-type: none"> • Workshops' reports with the gender-segregated participant list • Copies of publications and awareness campaigns materials (brochures, pamphlets, leaflets) prepared and published • ToRs and contracts issued to the engaged NGOs, if relevant 	<ul style="list-style-type: none"> • The awareness and knowledge about PCB is very low. 	<ul style="list-style-type: none"> • Number of awareness raising workshops and seminars (3 workshops for Senior, mid-level, and working officers, 96/24) • Number of types of leaflets, TVad, posters, newspaper ad in a gender sensitive manner (4 types) • Number of NGOs covered by the awareness programmes (3) 	<ul style="list-style-type: none"> • Two awareness raising workshops were held. First one was held on 26 June 2019 (total participants were 37 including 8 females; female participants 22%) and second one was held on 26 June 2021 (total participants were 39 including 5 females; female participants 13 %). The proceeding/ report was submitted in previous PIRs • Prepared awareness raising material on PCB; Booklet, leaflet, poster, newspaper advertisement content, sticker, health and safety guidelines for PCB management by contracted NGOs (5 types) (Annex-3)

Project Strategy	KPIs/Indicators	Baseline	Target level	Progress in FY23
Component 2 –ESM and final disposal of PCBs				
Outcome 2: Power sector continues to implement the developed environmentally sound management and PCB disposal plan in a sustainable manner.				
Output 2.1: PCB management plans established at National level and by key PCB owners	<ul style="list-style-type: none"> PCB management guidelines, protocols, and procedures developed, upgraded and adopted Training workshop report with gender-segregated participant lists 	<ul style="list-style-type: none"> As party to Stockholm Convention, the country is mandated to phase out PCB contaminated equipment by 2025 and dispose of them by 2028 	<ul style="list-style-type: none"> Number of PCB management guidelines, protocols, procedures developed and upgraded (1 PCB National Management Plan prepared by MoEFCC for further adoption by MoPEMR/Power Division and key stakeholders) Number of meeting/training events (3) which potential owners of PCB equipment will build on to train their technical personnel (male/female) (72/18) 	<ul style="list-style-type: none"> Final version of PCB Management guidelines has been developed (Submitted with previous PIRs) Draft PCB Management plan with received feedback from power sector organization (Annex-4) Training workshop yet not undertaken
Output 2.2: Gender sensitive technical guidelines and tools established for governmental institutions and concerned stakeholders	<ul style="list-style-type: none"> Copies of standard operating procedures and related documents Interviews with the companies and site visit; Analytical standard 	<ul style="list-style-type: none"> No technical guidelines exist 	<ul style="list-style-type: none"> Number of best practices and standard operating procedures established (1 Technical guideline adopted by the MoPEMR/Power Division and key stakeholders) Number of agencies/companies with established best 	<ul style="list-style-type: none"> Lub-rref (Bangladesh) Ltd has obtained an accreditation certificate from Bangladesh Accreditation Board (Submitted with previous PIRs) Practical demonstration on ESM of PCB yet not undertaken.

Project Strategy	KPIs/Indicators	Baseline	Target level	Progress in FY23
	<p>procedures adopted by the designated and other laboratories;</p> <ul style="list-style-type: none"> • Training report with gender-segregated participant lists 		<p>practices plans (9)</p> <ul style="list-style-type: none"> • Number of designated laboratories with enhanced capacities for sampling and analysis of PCBs in oil (9) • Number of trainings (3 for technical guidelines with 10 from each agency and 3 for laboratories with 5 from each agency) and participants (male/female) at trainings on sampling and analyses standards and protocols for PCBs (40/5); • Amount of investment by PCB owners (10% of the project investment) 	<ul style="list-style-type: none"> • The power sector organization invested amount in project as co-finance (kind) (Annex-5) BPDB invested- 70,11,520 USD (cumulative) BREB-8,086,760 USD, WZPDCL-300,000 USD NESCO-260, 000 USD DPDC-150,000 USD DESCO-500,000 USD PGCB- 819,300 USD
<p>Output 2.3 PCB inventory updated</p>	<ul style="list-style-type: none"> • Inventory reports on sampling, identification and labeling of PCB-containing equipment, waste, and stockpiles • Procurement documents for the construction / renovation of the temporary storage site and safety equipment 	<p>ing to NIP, there an estimated amount of 55. 8 tons service electrical equipment, 4.193 tons contained in waste, 259 drums waste transformer oils.</p>	<ul style="list-style-type: none"> • Number of PCB inventory Reports (including PCB equipment owned by the private sector • Number of temporary secured storage facilities in place for PCB-containing equipment and waste (1) 	<ul style="list-style-type: none"> • PCB sampling ongoing; as per submitted individual sampling report by seven (7) organization power sector tested 4124 transformer/ old or discarded transformer oil drum (3633 tranformer and 491 drums old/discarded tranformer oil) against 5323 supplied test kit (Annex-2) • Seven (7) power sector agencies selected temporary site including permission for PCB contaminated transformer storage; BPDB five (5) sites, BREB four (4) sites, NESCO three (3) sites, WZPDCL two (2) sites, DPDC one (1) site, PGCB three (03) sites, DESCO one (1) site (Annex-6)

Project Strategy	KPIs/Indicators	Baseline	Target level	Progress in FY23
	<ul style="list-style-type: none"> • Local authorities permits for operation of the storage • Training reports with gender segregated participant lists • Environmental media monitoring reports during operation of the storage/treatment facility 		<ul style="list-style-type: none"> • Amount of PCB equipment and waste temporarily stored in a safe manner (200 tons) • Number of technical personnel (male/female) of potential owners of PCB equipment trained on inventory conducting procedures (3, 40/5) • Number of transformers and amount of waste selected, sampled, screened, verified and labeled (500 tons) 	<ul style="list-style-type: none"> • Not yet undertaken • After successive online trainings organized by the Swiss organization ETI : a total of eight (8) local training workshops (focused on awareness raising activities) were organized on PCB screening, PCB sampling and the Use of CLOR-N-test kit in seven (7) organizations (two of which were in DESCO) and produced training report; number of participants was 187 including 14 female The proceeding/ report was submitted in previous PIRs) • Develop PCB Inventory database. Link: https://demosoftbd.com/PoribeshDe sign/ <i>User: admin, Pass: admin1234</i> • Transformer screen and sampling on going for PCB identification; till now 58,855 transformers screened (58,330 transformer and 525 drum old or discarded transformer oil), 5205 transformer/ old or discarded transformer oil drum selected for sampling (4714 transformer and 491 drums old or discarded transformer oil drums). As per provided report seven (7) organization of power sector tested 4124 transformer/ old or discarded transformer oil drum (3633 tranformer and 491 drums old/discarded transformer oil) and labeled (Annex-2) • Not yet undertaken

Project Strategy	KPIs/Indicators	Baseline	Target level	Progress in FY23
Output 2.4: Technical capacities and sustainable business plan established by the power sector	<ul style="list-style-type: none"> • Reports on BAT/BEP as well as the economic feasibility assessment on available disposal options • Business plan for the PCB decontamination operation • ToR for the disposal of PCB equipment and waste • Contract signed with the selected bidder 	<ul style="list-style-type: none"> • No baseline information 	<ul style="list-style-type: none"> • Number of reports on BAT/BEP on PCB disposal technologies and economic feasibility (1) • Number of revenue earning plans by the PCB decontamination equipment operator (1) • Number of jobs created (5) • Amount of incremental investment (10%) 	<ul style="list-style-type: none"> • Not yet undertaken
Output 2.5: Final disposal of 500 tons of PCB equipment demonstrated	<ul style="list-style-type: none"> • Amount of PCB-containing equipment and waste that are disposed of (either export or disposal in the country) (500 tons) • Materials (oil and metal) reused (400 tons) • Materials (metal) recycled (15 tons) • Commercial value of materials recycled (TBD) 	<ul style="list-style-type: none"> • Not any sort of activities has been done for disposal purpose (either export or in the country) 	<ul style="list-style-type: none"> • Log records of treated/exported PCB equipment and oil by the selected PCB decontamination /export service provider • Acceptance report of the equipment, export related documents • Disposal/destruction reports including laboratory results confirming the successfulness of the treatment (in case of export, accompanying notification documents and consents) 	<ul style="list-style-type: none"> • Not yet undertaken
Component 3 – Monitoring and Evaluations				
Outcome 3: Impact monitoring and evaluation				

Project Strategy	KPIs/Indicators	Baseline	Target level	Progress in FY23
Output 3.1: Project results monitored and reported including the gender dimension	<ul style="list-style-type: none"> • Annual work plans updated • Logframe with indicators updated • Copies of contract and ToR • Project Steering Committee announcement and meeting minutes • Project office announcement and contract and ToR for the project staff • Progress reports • Project Implementation Review • Project terminal report 	<ul style="list-style-type: none"> • Monitoring and evaluation plan has been set up in GEF 5 endorsement project document 	<ul style="list-style-type: none"> • A Project Steering Committee established • Project Implementation Committee Established • Technical Sub Committee established • A project office established with each member 's responsibility clearly describe in job descriptions • Project Progress monitor with progress reports • Project Implementation Review carried - out for Submission to GEF SEC • Project Terminal Report Completed 	<ul style="list-style-type: none"> • Project Steering Committee has been established (Submitted with previous PIRs) • Two PSC meeting was held after submission of last PIR; 2nd Project Steering Committee (PSC) meeting was held on 02 November 2022 and 3rd PSC meeting was held 20 June 2023. Meeting Minutes of PSC. (Annex-7) • Project Implementation Committee has been established (Submitted with previous PIRs) • Project Implementation Committee meeting was held 29 September 2022 after submission of last PIR (Annex-8) • Technical sub-committee has been established (Submitted with previous PIRs) • One (1) technical meeting were held after submission of last PIR; held on 22 September 2022 (Annex-9) • Developed Work plan, 2023 for implementation project activities (Annex-10) • Submitted 5th Bi-annual Report to UNIDO • Project Implementation Review has been submitted to GEF SEC through UNIDO. • A project office established with each member job responsibilities.
O	<ul style="list-style-type: none"> • Mid-term review report • Terminal external evaluation report 	<ul style="list-style-type: none"> • No baseline information 	<ul style="list-style-type: none"> • Evaluations adequately conducted according to GEF standards (2) 	<ul style="list-style-type: none"> • Mid-term evaluation was conducted from April 15 to July 10, 2021

III. Project Risk Management

1. Please indicate the overall project-level risks and the related risk management measures: (i) as identified in the CEO Endorsement document, and (ii) progress to-date. Please expand the table as needed.

	(i) Risks at CEO stage	(i) Risk level FY 21	(i) Risk level FY 22	(i) Mitigation measures	(ii) Progress to-date	New defined risk ⁵
1	Delays in development and adoption of proposed laws, regulations and guidelines due to complexity of amendments in associated laws, disagreement of the stakeholders on the proposed ESM measures or changes in government	Low risk (L)	Low risk level	Ensure recommended laws and regulations are practical and enforceable; stakeholders will be included in the development process; institutional capacity building and training will be provided; additional awareness raising on the Government plans through PCB workshops and direct contacts with the stakeholders	Consultation is going on with top level officer of MoEFCC for organizing stakeholder consultation; to get view on formulation of new rules/merging of existing Hazardous Waste Management Rules, 2011	<input type="checkbox"/>
2	A sustainable financial mechanism may not be agreed among the key stakeholders	Modest risk (M)	Modest risk (M)	The selection of the local technology operator will be carried out through competitive or semi-competitive basis including criteria on the business interests after the project period ends	Yet to be achieved	<input type="checkbox"/>
3	Government will not have the necessary capacity to maintain the effective enforcement of the POPs-related legislations after project completion.	Modest risk (M)	Modest risk (M)	The sustainability of the mechanisms created by the project will be ensured by integrating all project components in existing power agencies' daily operations, while the equipment needed for the enforcement will be provided under such conditions	Yet to be achieved	<input type="checkbox"/>
4	The Government will not have the necessary resources to maintain the laboratory standards.	Low risk (L)	Low risk (L)	The provision of the equipment to the power agencies will be made under the condition that the agencies will be committed to the maintenance of the laboratory and enforcement of the capacity. Some business operations could be incorporate where relevant to safeguard some revenues	Yet to be achieved	<input type="checkbox"/>
5	Climate change impact may hamper the project activities (temperature, rain, wind, vulnerability to storms etc.)	Low risk (L)	Low risk (L)	The selection of the project site will be finalized taking into consideration the disaster history and future potentials	Yet to be achieved	<input type="checkbox"/>
6	Accidents and environmental releases during storage operations, handling, packaging and transportation of PCB wastes	Low risk (L)	Low risk (L)	The project will ensure the application safety standards accepted internationally. The use of such standards will be ensured throughout the whole duration of the project. The supervision over	Yet to be achieved	<input type="checkbox"/>

⁵New risk added in reporting period. Check only if applicable.

				the application of such safety rules will be entrusted with the respective Government bodies. Emergency contingency measures will be developed as part of the ESM system		
7	Non-acceptance of new safety gears by workers and their continuous exposure to PCBs	Modest risk (M)	Modest risk (M)	Specific training will be provided to project staff and experts before they start their field work. Some Personal Protective Equipment will also be provided as part of the project contribution. Certificate of training on handling, clean-up, packaging and transportation of POPs containing materials will be a prerequisite requirement for undertaking such duties.	Power sector agencies staff and expert safety trained up about safety issue during training on sampling/inventory and provided personal protective equipment from the project.	<input type="checkbox"/>
8.	Lack of interest of the PCB owners to replace, phase-out and dispose the PCB equipment due to high costs	Modest risk (M)	Modest risk (M)	Local decontamination is cost effective relative to treatment abroad/replacement	Yet to be achieved	<input type="checkbox"/>

2. If the project received a sub-optimal risk rating (H, S) in the previous reporting period, please state the actions taken since then to mitigate the relevant risks and improve the related risk rating. Please also elaborate on reasons that may have impeded any of the sub-optimal risk ratings from improving in the current reporting cycle; please indicate actions planned for the next reporting cycle to remediate this.

Not applicable

3. Please indicate any implication of the **COVID-19** pandemic on the progress of the project.

In First wave of COVID-19 pandemic.
Government of Bangladesh has declared general leave from 26 March to 30 May 2020 to avoid/minimize the impact of the COVID-19 pandemic. After that several lockdowns has been declared during this period, the project team was not able to arrange targeted physical activities (i.e., seminar/training/workshop) for PCB inventory and environmentally sound management.

After the opening office opening from 01 June, 2020 and taking into consideration of COVID-19, the project management unit developed the sampling plan and communicated the sampling plan approval, training of the inventory team, taking feedbacks on guidelines and arranged Technical sub-committee (TC), Project Implementation Committee (PIC) meeting and training on PCB management and use of PCB test kits by Switzerland based company ETI through on line (Zoom).

In second wave of COVID-19 pandemic.
During the second of wave of COVID-19 pandemic, Government has declared another lockdown on 5 April 2021 which continued until Mid-June 2021. In this period PMU also continued to communicate to gather feedbacks on the draft of PCB management guidelines and PCB rulebook. During lockdown period, PMU at times continued to work in the office to ensure stakeholders engagement meeting for Mid-Term Evaluation of the project.

Furthermore, the consecutive training on Environmentally Sound Management of PCB and screening, sampling of PCB and Use of CLOR-N-Test Kit through online (Zoom) organized by ETI and the demand by the power sectors agencies for hands-on training; PMU organized one hands on training on the use of PCB test kits at the central system operation workshop of the Bangladesh Rural Electrification Board. Due to Covid-19 situation PMU could not mobilize to arrange hands-on training in other agencies.

In 3rd wave of COVID-19 pandemic:

From 28 June 2021 the Government has declared strict lockdown in which all Government office were closed except the emergency services. In this period, Project Management Unit conducted some activities virtually. The inventory team of power sectors agencies was unable to travel to conduct sampling activities.

The COVID-19 pandemic situation hampered project activities, especially PCB inventory activities in field level. As per collected report from power sector agencies 4124 transformer/ old or discarded transformer oil drum has been sampled. To conduct detailed PCB inventory up to December 2023 is needed. After complete detailed inventory 2 years' time will be required for disposal of PCB contaminated equipments. So closing date of the project is 31 December 2025 need to be extended instead of closing 31 December 2023.

4. Please clarify if the project is facing delays and is expected to request an extension.

A two-year extension was agreed at end of 2021. However, the project extension period until December 31, 2023, is not sufficient to complete the remaining project activities, especially as the detailed inventory and disposal of PCB could not be completed within the foreseen time. During COVID-19 pandemic period PCB inventory team could not mobilized in field to conduct PCB sampling. Another reason is that power sector agencies have not maintained a database of transformers to provide information for PCB screening according to the criteria mentioned by UNIDO. However, PCB inventory team members sometimes transfer from their duty station, replacement of PCB inventory team members delay process, that's why PCB sampling is sometimes hampered. The power sector organization completed 4124 transformer/ old or discarded transformer oil drum sampled (3633 tranformer and 491 drums old/discarded tranformer oil) as per collected report. After complete detailed inventory of PCB disposal activities will be done. The above-mentioned field project needs to be extended for additional two years (Up to December 2025).

5. Please provide the main findings and recommendations of the completed MTR and elaborate on any actions taken towards the recommendations included in the report.

Recommendations of Mid- Term Evaluation:	Specific actions taken towards implementing the recommendations
To expedite project activities, to the extent realistic, taking COVID-19 restrictions into consideration	According to recommendation, a workplan has been updated to expedite project activities in realistic way.
Decision to be made about Act or Rule – New Rule or Add-on to existing Rule	Preparation has begun for the formulation of rule or amendment of existing hazardous waste management rules 2011.
Preparation of draft legislative documents to commence	A working draft has been formulated for legislative framework.
Awareness and capacity building workshop for employees on PCBs, as realistic in person – harmful effects, handling, PPE, etc.	Employees from 7 power sector agencies attended in training workshop and aware about PCB.
Questionnaire for the capacity assessment of governmental institutes/inspectors to be developed	With the prepared questionnaire collected information on existing facilities for PCB management and developed a report. To carry-out inspections on PCB management for governmental inspection's bodies and power companies Inspector/ Officer capacity assessment questionnaire will be updated.
Roles and responsibilities of governmental agencies with respect to PCB management to be established	Roles and responsibilities of 7 agencies of power sector for PCB management declared by official process.
Hands-on training to be provided by in-country laboratory, to each power-sector agency	Six (6) hands on training were conducted on power sector agencies workshop/ training centre/lab in power sector agencies and two (2) online training has been conducted with the consideration of Covid-19.

Accreditation of the laboratories for PCB- analysis of transformer oil/capacity for PCB-analysis of transformer oil to be clarified and confirmed; accreditation to be evidenced by the Terminal evaluation; otherwise, the project needs to support accreditation process, if realistic and possible (in terms of budget)	Lub-rref (Bangladesh) Ltd has obtained an accreditation certificate from Bangladesh Accreditation Board and Bangladesh Council for Science and Industrial Research (BCSIR) did not get accreditation.
Contracting procedure for recruitment, to carry out awareness-raising activities, to be expedited	Contracted with NGO to carry out awareness-raising activities.
Prepare a Communication Plan	NGO is working on a communication strategy
Prepare communication material	To raise awareness about health and environment impact of PCB among power sector agencies staff/worker and officer; booklet, leaflet, poster, newspaper advertisement content, sticker and health and safety guidelines for PCB management has been developed by the recruited NGO. To disseminated PCB related information a website has also been developed by recruited NGO which is linked with Stockholm Convention. Furthermore, to preserve PCB inventory information database has been developed.
Take gender aspect into consideration	Gender consideration has been taking into account in recruitment advertisement and meeting/ seminar/ training. Furthermore, Department of Women Affairs was invited to awareness raising meeting on PCB. The gender aspect will be more considered in upcoming events.
Target groups: General public, - repair and maintenance workshop personnel, - ship-breaking industry, - people close to existing and earlier transformer repair and maintenance workshops - other (private) power sector agencies - oil-regeneration facilities - Customs and Border officials	Mentioned target groups invited in awareness raising workshop and will be considered in upcoming events.
Inventory to be expedited to the extent realistic, taking COVID-19 restrictions into consideration	Inventory/ sampling expedited; Transformer screen and sampling on going for PCB identification; till now 58,855 transformers screened (58,330 transformer and 525 drum old or discarded transformer oil), 5205 transformer/ old or discarded transformer oil drum selected for sampling (4714 transformer and 491 drums old or discarded transformer oil drums). As per provided report seven (7) organization of power sector tested 4124 transformer/ old or discarded transformer oil drum (3633 tranformer and 491 drums old/discarded tranformer oil).
After receiving PCB inventory data, PCB management plan for Bangladesh to be prepared	Draft PCB Management Plan has been prepared and feedback taken from power sector agencies. Inventory data will be incorporated in PCB management plan after completion of detailed inventory.
Expedite preparation of the database	Database has been developed and operationalized
Expedite providing comments and feedback on the draft Guidelines on PCB management	Feedbacks from power sector agencies were taken into account and the draft PCB management guidelines were finalized by an international consultant.
All guidelines, after finalization, to be translated into Bangla for wider use [repair and maintenance workshops, oil-regeneration facilities, etc.]	A short Bangla version of PCB identification guidelines has been developed and a shorter Bangla version of PCB management guideline will be developed.
Data on remaining transformers to be provided for pre-selection of transformers for sampling	The seven (7) organization of power sector provided 58,855 (transformer/ old or discarded transformer oil (58330 transformer and 525 drum old or discarded transformer oil), In addition to this BREB provided 0.419 million distribution transformer information that do not meet UNIDO's selection criteria for PCB sampling (manufacturer, year of installation, top-up or servicing information). As per suggestion of

	international consultant 100 test kit has been given to BREB for random test of transformer with priority old transformer.
Sampling can be commenced at BPDB, in agreement with BPDB	Sampling has been taken with approval of BPDB
Legislative framework for PCB management, including the ship-breaking industry, to be prepared and approved as soon as practically possible;	Working draft has been prepared for formulation legislation and taking feedback from stakeholder consultation.
ESM system for PCBs to be implemented by the enterprises.	Searching enterprise for ESM system of PCBs
Guidelines on ESM of PCBs to be translated into Bangla;	A short version guideline on ESM of PCBs will be translated into Bangla
Decision regarding disposal to be made as soon as all relevant data available;	Disposal method will be determined after chemical test of the suspected PCB transformer oil sample, taking into account the volume and concentration, with the consultation of an international consultant.
Enterprises and MOEFCC to ensure expenditure of co-finance for disposal of PCB contaminated equipment and for implementation ESM of PCBs;	Prior to disposal it will be discussed with power sector agencies and MOEFCC to ensure expenditure of co-finance for disposal of PCB contaminated equipment and for implementation ESM of PCBs.
Capacity building workshops to be conducted for repair and maintenance personnel, oil-regeneration facilities, Customs and Border Officials, ship-breaking industry	Organized capacity building training was for PCB inventory and Management. More training will be organized on entire PCB management practices.
Accreditation of laboratories for PCB analysis to be ensured.	Lub-rref (Bangladesh) Ltd has got accreditation certificate for PCB analysis from Bangladesh Accreditation Board and another Govt. organization Bangladesh Council for Science and Industrial Research (BCSIR) did not accreditation.
PCB-contaminated sites to be identified	Potential sites of power sector agencies have been identified as potentially PCB contaminated and PCB sampling is ongoing.
Cost for continuation of PCB-elimination to be included in the yearly budgets for the time period after project completion.	After completion of PCB inventory, it will be estimated
Co-finance documentation to be provided by the stakeholder institutions and to be reviewed by the evaluation	Collected Co-finance documentation from Department of Environment, PGCB, BREB, BPDB and reviewed in Mid Term Evaluation. After mid-term evaluation, progress co-finance documentation has also been collected from BPDB, BREB, PGCB, DPDC, WZPDCL and NESCO.
PCB management plan to be prepared for the time period after project completion – to continue PCB-elimination – and to be presented to the TE;	PCB management plan drafted and to be updated based on the detailed inventory and to continue PCB disposal after project completion will be with power sector agencies.
Strong ownership by in-country stakeholders necessary	Discussed with power sector agencies to develop their ownership.
MOEFCC continues to play an active role in the project	As per the recommendation of the mid-term evaluation, the MoEFCC continues to play an active role in the implementation of the project.
Project to be extended till December 2022, if necessary to achieve project objective.	Project Period extended up to December 2022; furthermore, to achieve project objective proposal will be send for extent the project up to December 2025

IV. Environmental and Social Safeguards (ESS)

1. As part of the requirements for **projects from GEF-6 onwards**, and based on the screening as per the UNIDO Environmental and Social Safeguards Policies and Procedures (ESSPP), which category is the project?

Category A project

Category B project

Category C project

(By selecting Category C, I confirm that the E&S risks of the project have not escalated to Category A or B).

Please expand the table as needed.

	E&S risk	Mitigation measures undertaken during the reporting period	Monitoring methods and procedures used in the reporting period
(i) Risks identified in ESMP at time of CEO Endorsement	N/A	N/A	N/A
(ii) New risks identified during project implementation (If not applicable, please insert 'NA' in each box)	N/A	N/A	N/A

V. Stakeholder Engagement

1. Using the previous reporting period as a basis, please provide information on **progress, challenges and outcomes** regarding engagement of stakeholders in the project (based on the Stakeholder Engagement Plan or equivalent document submitted at CEO Endorsement/Approval).

During the reporting period, stakeholders' involvement was secured as follows:

- One (1) Technical sub-committee meeting (TC) meetings (22 September, 2022 and one (1) Project Implementation Committee (PIC) meeting were held through online (Zoom) on 29 November 2022. The Technical sub-committee meeting (TC) was attended by officers from the Department of Environment and power sector agencies and in Project Implementation Committee (PIC) was attended by officers from the Department of Environment, power sector agencies and Ministry of Environment Forest and Climate Change and IMED. In Technical sub-Committee meeting 10 participants attended (held on 22 September 2022) and 13 participants were attended (held on 29 September 2022).
- One workshop was held for finalization of capacity assessment and inspection capacity report of the power companies on the sound management of PCB and PCB containing equipment with participation of power sector organization. In workshop, total 35 officers/ staff participated including four (4) female officers.

2. Please provide any feedback submitted by national counterparts, GEF OFP, co-financiers, and other partners/stakeholders of the project (e.g., private sector, CSOs, NGOs, etc.).

Secretary, Ministry of Environment, Forests and Climate Change and GEF Operational Focal Point instructed to power sector agencies to completed 2nd phase sampling by 30 September 2023 through PSC meeting. GEF Operational Focal Point also instructed to power sector agencies those transformer manufacture year 1993 or before 1993/ those transformer top-up or retro filled /serviced and old or discarded transformer oil have to be sampled for PCB identification.

GEF Operational focal point also instructed project management unit raise the time extension proposal of project up to December,2025 in next Project Steering Committee meeting with the recommendation of PIC.

3. Please provide any **relevant stakeholder consultation** documents.

List of relevant stakeholder consultation

- GEF ID 4858_ English version of 2nd PSC Meeting Minutes
- GEF ID 4858_ English version of 3rd PSC Meeting Minutes
- GEF ID 4858 _ English Version of 3rd PIC Meeting Minutes
- GEF ID 4858 _ English Version of 4th TC Meeting Minutes
- GEF ID 4858 _ Proceeding on Finalization of capacity assessment and inspection capacity report of the power companies on the sound management of PCB and PCB containing equipment

VI. Gender Mainstreaming

1. Using the previous reporting period as a basis, please report on the **progress achieved on implementing gender-responsive measures and using gender-sensitive indicators**, as documented at CEO Endorsement/Approval (in the project results framework, gender action plan or equivalent).

Female participation is emphasized and encouraged in meeting/seminars/, workshops/training and any event and are constantly assessed and monitored to ensure gender mainstreaming.

A female legal expert and one (1) office assistant cum computer operator working under the project. After successive online trainings organized by the supplier ETI: eight (8) local training workshops on PCB screening, PCB sampling and Use of CLOR-N-test kit were organized in seven (7) organizations (including two in DESCO): 14 women attended out of a total of 192 participants (7% of female participation).

In 2nd Project Steering Committee Meeting, two (2) female officers attended; one (1) from the Ministry of Environment (MoEFCC), Forest and Climate Change and 3rd Project Steering Committee meeting 4 female officers attended three from Ministry of Environment, Forest and Climate Change and one from Economic Resources Division.

In Project Implementation Committee (PIC) meeting, one (1) female officers attended from Ministry of Environment Forest and climate change and one (1) officer attended from Department of Environment. In addition, workshop for finalization of capacity assessment report four (04) female officer attended from power sector agencies.

VII. Knowledge Management

1. Using the previous reporting period as a basis, please elaborate on any **knowledge management activities / products**, as documented at CEO Endorsement / Approval.

To raise awareness among power sector agencies staff/worker and officer about health and environment impact of PCB; booklet, leaflet, poster, newspaper advertisement content, sticker and health and safety guidelines for PCB management has been developed by the recruited NGO. To disseminated PCB related information a website has also been developed by recruited NGO which is linked with Stockholm Convention. Furthermore, to preserve PCB inventory information database has been developed.

2. Please list any **relevant knowledge management mechanisms / tools** that the project has generated.

- *online information exchange/sharing platforms*
- *relevant technical reports*

- [Link to project websites, videos, publications](#)
- [flyers, etc.](#)
- [4858 _Awareness Rasiing Material on PCB \(Booklet\)](#)
- [4858 _Awareness Rasiing Material on PCB \(Leaflet\).](#)
- [4858 _Awareness Rasiing Material on PCB \(Poster\)](#)
- [4858 _Awareness Rasiing Material on PCB](#) (Newspaper advertisement content).
- [4858 _Awareness Rasiing Material on PCB](#) (Health and safety guidelines for PCB management)
- [4858 _Awareness Rasiing Material on PCB](#) (sticker)
- [4858 _Awareness Rasiing Website on PCB](#) (web address: <https://pcb-doe.gov.bd/>)
- [4858_PCB inventory information database; Link: <https://demosoftbd.com/PoribeshDesign/>](#)
User: admin, Pass: pcb 1234

VIII. Implementation progress

1. Using the previous reporting period as a basis, please provide information on **progress, challenges and outcomes achieved/observed** with regards to project implementation.

For Legal and institutional framework:

The existing relevant Laws, Acts and Rules in Bangladesh has been reviewed and analysed to identify the gaps and prepared recommendations to address the gaps for sustainable management of PCBs in Bangladesh and to fulfil Bangladesh's obligations to the Stockholm Convention. The working draft has been prepared for the stakeholder consultation to get their views on formulation of new rules/merging of existing Hazardous Waste Management's Rules,2011 for environmentally sound management of PCB with participation of power sector agencies officers, relevant ministry/department and relevant all stakeholders.

For awareness Raising:

To raise awareness about health and environment impact of PCB among power sector agencies staff/worker and officer; booklet, leaflet, poster, newspaper advertisement content, health and safety guidelines for PCB management has been developed by the recruited NGO. To disseminated PCB related information a website has also been developed by recruited NGO which is linked with Stockholm Convention. Furthermore, to preserve PCB inventory information database has been developed

For PCB inventory:

Total139 inventory teams/ sub-teams (BPDB-13, BREB-1 central team and 80 sub-team, DPDC-5, DESCO-16, PGCB-02, WZPDCL-12 and NESCO-10) of power sector agencies working for PCB sampling by PCB test kit in field level. Till now 58,855 transformers screened (58,330 transformer and 525 drum old or discarded transformer oil), 5205 transformer/ old or discarded transformer oil drum selected for sampling (4714 transformer and 491 drums old or discarded transformer oil drums). As per provided report seven (7) organization of power sector tested 4124 transformer/ old or discarded transformer oil drum (3633 tranformer and 491 drums old/discarded tranformer oil) and labeled.

In this regards, Secretary of Ministry of Environment, Forest and Climate instructed to power sector agencies in PSC meeting to complete sampling including provide inputs on PCB inventory database all tested transformer/ old or discarded transformer oil by 30 September,2023.

In addition, representatives of the power sector agencies were requested to monitor and expedite sampling activities and provide information on used, unused, damaged/rejected transformers to complete detailed PCB inventory in Bangladesh through TC and PIC meeting.

PCB suspected transformer oil need to chemical analysis through gas chromatography to know the concentration. In this regards, tender/ quotation is in process for chemical analysis of PCB suspected transformer oil from UNIDO end.

Two (2) laboratories have been identified to find out the concentration of PCB suspected in transformer oils; one (1) is Lub-rref (Bangladesh) Ltd which has obtained an accreditation certificate from Bangladesh Accreditation Board and another Govt. organization Bangladesh Council for Science and Industrial Research (BCSIR) did not got accreditation.

To preserve PCB inventory information a database software has been developed. The PCB inventory team providing inputs on database. Furthermore, to ensure permanent inventory ID number of PCB suspected transformer identified by test kit; the project management send paints, brushes and resin to write permanent inventory ID on transformer body/ old or discarded oil drums. In this regard official letter has been sent to power agencies chief and instruction has also been given to TC and PIC members ensure for this.

The project management unit encountered challenges to collect more transformer data from power sector agencies to conduct more sampling. To collect more transformer information from six (6) agencies of power sector (excluding PGCB- which got total number of transformer information) a request letter (3rd time) has been sent to head of power sector agencies to send their used, unused, damaged/ rejected transformer including old/ rejected transformer oil information. It is mentioned that Bangladesh Rural Electrification Board provided 0.419 million information on distribution transformers that do not comply with the criteria set by UNIDO (manufacturer, year, maintenance/refilling information) for PCB sampling. The power sector agencies argue that they do not have a record/database for transformer. It is difficult to collect more transformer data (online) from fields. They suggested that old transformers brought to the workshops for repair and maintenance could be sampled for PCB identification. As per of their suggestion and with concern of international consultant power sector agencies sampling old and serviced/ top-up transformer for PCB identification.

2. Please briefly elaborate on any **minor amendments⁶ to the approved project that may have been introduced during the implementation period or indicate as not applicable (NA).**

Please tick each category for which a change has occurred and provide a description of the change in the related textbox. You may attach supporting documentation, as appropriate.

<input type="checkbox"/>	Results Framework	
<input type="checkbox"/>	Components and Cost	
<input type="checkbox"/>	Institutional and Implementation Arrangements	
<input type="checkbox"/>	Financial Management	
<input type="checkbox"/>	Implementation Schedule	
<input type="checkbox"/>	Executing Entity	
<input type="checkbox"/>	Executing Entity Category	
<input type="checkbox"/>	Minor Project Objective Change	
<input type="checkbox"/>	Safeguards	
<input type="checkbox"/>	Risk Analysis	
<input type="checkbox"/>	Increase of GEF Project Financing Up to 5%	

⁶ As described in Annex 9 of the *GEF Project and Program Cycle Policy Guidelines*, **minor amendments** are changes to the project design or implementation that do not have significant impact on the project objectives or scope, or an increase of the GEF project financing up to 5%.

<input type="checkbox"/>	Co-Financing	
<input type="checkbox"/>	Location of Project Activities	
<input type="checkbox"/>	Others	

3. Please provide progress related to the financial implementation of the project.

Please provide a description of the main expenditures during the reporting period. Analysis and description should be based on UNIDO disbursement figures extracted from the SAP grant-level financial report, as well as on financial utilization and disbursement report(s) submitted by Project Executed Agency(ies) (PEAs), for projects executed through PEAs (actual reports PEA financial reports to be annexed to the PIR).

During the period (01 July 2022- 30 June 2023) PMU did not receive any fund from UNIDO, that's why PMU could not paid staff/ consultants salary including previous pending salary, project management cost and travel bill.

Intervention	Description	Remaining amount from 3 rd Instalment (USD)	Amount Spent July 2022- June 2023 (USD)
Project Management Cost	National Consultant	460 USD	-
	Project Travel		-
	Sub-Contract		-
	National Meeting		-
	Equipment		-
	Miscellaneous		-
Implementation and inspection capacity assessed and strengthen for key governmental institutes	National Consultant		-
	Project Travel		-
	Sub-Contract		-
	National Meeting		-
	Equipment		-
	Miscellaneous		160 USD
PCB inventory updated	National Consultant		-
	Project Travel		300 USD
	Sub-Contract	-	
	National Meeting	-	
	Equipment	-	
	Miscellaneous	-	
Total Expenditure			460 USD

However, remaining amount of 3rd instalment 460 USD expensed in travel and miscellaneous purpose.

Describe the current status of co-financing funds mobilization activities and the related implications for project implementation. Provide information on status of obtained / mobilized co-financing, etc. as per CEO Endorsement/Approval document.

As per CEO Endorsement/ Approval documents co-financing fund amount and contributed co-finance by National Executing Agency (Department of Environment) and power sector organization

Name of Co-financer	Co-financed Amounts (USD)	Contributed Amount (in kind) USD
Department of Environment	500,000	205,020
Bangladesh Power Development Board	16,872,320	7,011,520
Power Grid Company of Bangladesh	1,646,000	819,300
Bangladesh Rural Electrification Board	8,086,760	8,086,760

IX. Work Plan and Budget (Need To be Updated from UNIDO)

1. Please provide an updated project work plan and budget for the remaining duration of the project, as per last approved project extension. Please expand/modify the table as needed.

Please fill in the below table or make a reference to a file, in case it is submitted as an annex to the report.

Outputs by project component	Year 2 (2020)				Year 3 (2021)				Year 4 (2022)				Year 5 (2023)				GEF Grant Budget Available (US\$)
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Component: 1 –Legal and Institutional Framework.																	
Outcome: 1 - Legal and Institutional framework and capacities used to adopt guidelines/regulations for POPs, particularly ESM of PCB contaminated equipment, oil and waste																	
Output 1.1: Legal framework updated and established for the environmentally sound management of PCBs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5628
Output 1.2: Implementation and inspection capacity assessed and strengthen for key governmental institutes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6328
Output 1.3_Awareness and knowledge on POPs/PCBs issues and regulation enhanced among key stakeholders and general public	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	33628
Component 2 – ESM and final disposal of PCBs																	
Outcome 2: Power sector continues to implement the developed environmentally sound management and PCB disposal plan in a sustainable manner.																	
Output 2.1: PCB management plans established at National level and by key PCB owners	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	16984

Outputs by project component	Year 2 (2020)				Year 3 (2021)				Year 4 (2022)				Year 5 (2023)				GEF Grant Budget Available (US\$)
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Output 2.2: Gender sensitive technical guidelines and tools established for governmental institutions and concerned stakeholders	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	25856
Output 2.3: PCB inventory updated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	100000
Output 2.4: Technical capacities and sustainable business plan established by the power sector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	59012
Output 2.5: Final disposal of 500 tons of PCB equipment demonstrated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					50640
Component 3: Monitoring and Evaluations																	
Outcome 3: Impact Monitoring and Evaluation																	
Output 3.1: Project results monitored and reported including the gender dimensions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					25984
Output 3.2: Project evaluated meeting the GEF's evaluation criteria	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	20256
Project Management Cost																	
Project Management Cost	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	105279

X. Synergies

1. Synergies achieved:

Describe potential synergies arising out of UNIDO internal cooperation and/or cooperation with (external) bilateral and multilateral projects/programmes, if applicable.

During the implementation of the project in the reported a permanent communication was secured with the designated officers responsible for implementation of the relevant Chemicals and Waste multilateral agreements in the country (Stockholm Convention and Minamata Convention). The Department of Environment implementing a project to phase-out DDT from Bangladesh with the support of Global Environmental Facilities (GEF). Around 1200 Metric Ton DDT and DDT containing equipment's transporting through ship to the France for the purpose of destroy. The guidelines for packaging, transportation and shipping could lead to established collaboration for PCB contaminated transformer/ equipment packaging, transportation and shipping.

3. Stories to be shared (Optional)

Please provide a brief summary of any especially interesting and impactful project results that are worth sharing with a larger audience, and/or investing communications time in. Please include links to any stories/videos available online.

XI. GEO LOCATION INFORMATION

The Location Name, Latitude and Longitude are required fields insofar as an Agency chooses to enter a project location under the set format. The Geo Name ID is required in instances where the location is not exact, such as in the case of a city, as opposed to the exact site of a physical infrastructure. The Location & Activity Description fields are optional. Project longitude and latitude must follow the Decimal Degrees WGS84 format and Agencies are encouraged to use at least four decimal points for greater accuracy. Users may add as many locations as appropriate.

Web mapping applications such as [OpenStreetMap](#) or [GeoNames](#) use this format. Consider using a conversion tool as needed, such as: <https://coordinates-converter.com>

Please see the Geocoding User Guide by clicking [here](#)

Location Name	Latitude	Longitude	Geo Name ID	Location and Activity Description
Bangladesh	23.811056	90.407608	-	countrywide- PCB sampling in electrical equipment

Please provide any further geo-referenced information and a map where the project interventions is taking place as appropriate.

N/A

EXPLANATORY NOTE

1. **Timing & duration:** Each report covers a twelve-month period, i.e. 1 July 2022 – 30 June 2023.
2. **Responsibility:** The responsibility for preparing the report lies with the project manager in consultation with the Division Chief and Director.
3. **Evaluation:** For the report to be used effectively as a tool for annual self-evaluation, project counterparts need to be fully involved. The (main) counterpart can provide any additional information considered essential, including a simple rating of project progress.
4. **Results-based management:** The annual project/programme progress reports are required by the RBM programme component focal points to obtain information on outcomes observed.

Global Environmental Objectives (GEOs) / Development Objectives (DOs) ratings	
Highly Satisfactory (HS)	Project is expected to achieve or exceed <u>all</u> its major global environmental objectives, and yield substantial global environmental benefits, without major shortcomings. The project can be presented as “good practice”.
Satisfactory (S)	Project is expected to <u>achieve most</u> of its <u>major</u> global environmental objectives, and yields satisfactory global environmental benefits, with only minor shortcomings.
Moderately Satisfactory (MS)	Project is expected to <u>achieve most</u> of its major <u>relevant</u> objectives but with either significant shortcomings or modes overall relevance. Project is expected not to achieve some of its major global environmental objectives or yield some of the expected global environmental benefits.
Moderately Unsatisfactory (MU)	Project is expected to achieve <u>some</u> of its major global environmental objectives with major shortcomings or is expected to <u>achieve only some</u> of its major global environmental objectives.
Unsatisfactory (U)	Project is expected <u>not</u> to achieve <u>most</u> of its major global environmental objectives or to yield any satisfactory global environmental benefits.
Highly Unsatisfactory (HU)	The project has failed to achieve, and is not expected to achieve, <u>any</u> of its major global environmental objectives with no worthwhile benefits.

Implementation Progress (IP)	
Highly Satisfactory (HS)	Implementation of <u>all</u> components is in substantial compliance with the original/formally revised implementation plan for the project. The project can be presented as “good practice”.
Satisfactory (S)	Implementation of <u>most</u> components is in substantial compliance with the original/formally revised plan except for only few that are subject to remedial action.
Moderately Satisfactory (MS)	Implementation of <u>some</u> components is in substantial compliance with the original/formally revised plan with some components requiring remedial action.
Moderately Unsatisfactory (MU)	Implementation of <u>some</u> components is <u>not</u> in substantial compliance with the original/formally revised plan with most components requiring remedial action.
Unsatisfactory (U)	Implementation of <u>most</u> components in <u>not</u> in substantial compliance with the original/formally revised plan.
Highly Unsatisfactory (HU)	Implementation of <u>none</u> of the components is in substantial compliance with the original/formally revised plan.

Risk ratings	
Risk ratings will assess the overall risk of factors internal or external to the project which may affect implementation or prospects for achieving project objectives. Risk of projects should be rated on the following scale:	
High Risk (H)	There is a probability of greater than 75% that assumptions may fail to hold or materialize, and/or the project may face high risks.
Substantial Risk (S)	There is a probability of between 51% and 75% that assumptions may fail to hold or materialize, and/or the project may face substantial risks.
Moderate Risk (M)	There is a probability of between 26% and 50% that assumptions may fail to hold or materialize, and/or the project may face only moderate risk.
Low Risk (L)	There is a probability of up to 25% that assumptions may fail to hold or materialize, and/or the project may face only low risks.