



# **Project Implementation Report**

(1 July 2021 – 30 June 2022)

Project Title:	Environmentally Sound Management and Final Disposal of PCBs in India
GEF ID:	3775
UNIDO ID:	104044
GEF Replenishment Cycle:	GEF-4
Country(ies):	India.
Region:	SA - Southeast Asia
GEF Focal Area:	Chemicals and Waste (CW)
Integrated Approach Pilot (IAP) Programs <sup>1</sup> :	NA
Stand-alone / Child Project:	NA
Implementing Department/Division:	ENV/IPM
Co-Implementing Agency:	Directorate of Environment and Energy, Department of Environment, Industrial Pollution Mitigation Division
Executing Agency(ies):	Ministry of Environment, Forest and Climate Change (MOEFCC), GOI
Project Type:	Full-Sized Project (FSP)
Project Duration:	60
Extension(s):	6
GEF Project Financing:	USD 14,000,000
Agency Fee:	USD 1,445,000
Co-financing Amount:	USD 29,000,000
Date of CEO Endorsement/Approval:	12/30/2009
UNIDO Approval Date:	3/4/2010
Actual Implementation Start:	1/18/2010
Cum ulative disbursement as of 30 June 2022:	USD 13,072,762
Mid-term Review (MTR) Date:	11/30/2014
Original Project Completion Date:	1/1/2015
Project Completion Date as reported in FY21:	12/31/2022
Current SAP Completion Date:	12/31/2022
Expected Project Completion Date:	12/31/2022
Expected Terminal Evaluation (TE) Date:	11/22/2022

<sup>&</sup>lt;sup>1</sup> Only for **GEF-6 projects**, if applicable

Expected Financial Closure Date:	11/30/2023
UNIDO Project Manager <sup>2</sup> :	C.Centeno

# I. Brief description of project and status overview

### **Project Objective**

The overall objective of the project is to reduce and eliminate the use and releases of PCBs to the environment through promotion of measures to minimize exposures and risks by introducing environmentally sound management and disposal of PCBs, PCB-containing equipment and PCB-containing mineral oils and wastes aiming at the final and virtual disposal of all PCBs inventory in India by 2025 and 2028, respectively. The project is aimed to i. Strengthen the legal and regulatory framework for environmentally sound management (ESM) and disposal of PCBs, PCB-containing equipment and PCB-containing mineral oils and wastes; ii. Improve institutional capacity at all levels of PCBs disposal management; iii. Removal of 7,700 tonnes of PCBs, PCB-containing equipment and PCB-containing mineral oils and wastes in an environmentally sound manner. The objectives are being achieved through a combination of strategies, including legislative and regulatory assessment, capacity building, public education, technology transfer, technology dissemination, technical training and technical support.

### Baseline

The major users of PCBs in the country are power generation units and state electricity boards. Currently there are no standard and established disposal practices for the out-of-operation PCB-containing equipment and wastes. There has been lack of understanding of specific legal and regulatory requirements to implement Stockholm Convention. No institutional capacity exists for ESM of PCB-containing equipment and wastes. There is lack of awareness of PCB risks, lack of dedicated environmentally sound maintenance capacity for PCB-containing equipment. GEF intervention would bring in the changes with regard to adoption/application of ESM and BAT/BEP in management and disposal of PCBs, PCB-containing equipment and wastes that poses a major public health and environmental threat; and will ensure the sustainability and replicability of its outputs, significantly increasing global be nefits.

Please refer to the explanatory note at the end of the document and select corresponding ratings for the current reporting period, i.e. FY22. Please also provide a short justification for the selected ratings for FY22.

In view of the GEF Secretariat's intent to start following the ability of projects to adopt the concept of adaptive management<sup>3</sup>, 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. FY21, in the last column.

Overall Ratings <sup>4</sup>	verall Ratings <sup>₄</sup> FY22 FY2			
Global Environmental Objectives (GEOs) / Development Objectives (DOs) Rating	Moderately Satisfactory (MS)	Moderately Satisfactory (MS)		
PCB disposal activities with the mobile facility has been undertaken while installation and commissioning of the static facilities (Plasma and noncombustion facilities) have been hampered by regulatory/administrative requirements. Thus achievement of GEOs is rated MS.				
Implementation Progress (IP) Rating	Moderately Satisfactory (MS)	Moderately Satisfactory (MS)		

<sup>&</sup>lt;sup>2</sup> Person responsible for report content

<sup>&</sup>lt;sup>3</sup> 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

<sup>&</sup>lt;sup>4</sup> 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

As the main remaining activity is PCB disposal and is occurring at relatively slow pace,	implementation
rating for both FY 21 and FY 22 is rated as MS.	

Overall Risk Rating	Moderate Risk (M)	High Risk (H)
COVID-19 pandemic and rating is considered mode	especially for India, the effect was ma	ment of GEOs were impacted by the ssive. For this reporting period, the risk ning of the facilities in Bhilai Steel Plant e year.

# 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 lev el	Progress in FY22
Component 1 –				
Outcome 1: Strengthened	oolicy and regulatory fra	ameworkto comply with	n the obligations under	the Stockholm Convention
Output Strengthened policy and regulatory framework to comply with the obligations under the SC 1.1:	Existing national legal and regulatory framework evaluated. - Gaps between Stockholm Convention requirements and existing legal/regulatory framework - Legislative bodies presented with recommendations for new and/or revised laws to implement Stockholm Convention requirements; number of proposed new/revised laws. - Regulatory bodies presented with recommendations for new and/or revised regulations to implement Stockholm Convention requirements; number of proposed new/revised regulations to implement Stockholm Convention requirements; number of proposed new/revised regulations. - Number of new/revised laws adopted relative to recommendations - State enforcement of PCB management related laws and regulations	and regulatory framework	Existing National legal and regulatory framework assessed and reviewed	Expert recruited at PMC in MOEF&CC to work on the existing national legal and regulatory framework and to identify the gaps between Stockholm Convention requirements and existing legal/regulatory framework. Notification draft formulated and reviewed by CPCB still being negotiated/reviewed at government level. Guidelines as part of implementation of activity 1.4.2 i.e. Develop guidelines for management of PCB-containing equipment and wastes in consonance with ESM guidelines drafted and being reviewed at the PMU level to be a part of the Notification on PCBs Stakeholders and owners of largest stocks of PCBs contaminated oil and equipment have been trained.

	evaluated; number of states reviewed. - Number of states analysed, number of gaps identified. - Number of states assisted, person- weeks support provided, number of new measures adopted, amount of PCBs managed and disposed of in environmentally safe manner - Current PCB management practices evaluated - PCB management guidelines developed - Number of stakeholders and individual strained			
Output 1.2: Legal and regulatory frameworkat the national level established or updated	-Number of new/revised laws adopted relative to recommendations - Number of new/ revised regulations adopted relative to recommendations	Existing hazardous waste management rule	New regulation recommended and adopted	Gazette Notification on PCB of the Government of India published and notified to all concerned /stakeholder's/PCBs owners in the country
Output 1.3: National legal and regulatory framework implemented in targeted states			PCBs owners at State level assisted and support provided.	Guidelines provided and owners provided training on the management of PCBsin ESM
Output 1.4: Pollution prevention and management of PCBs, PCB-containing equipment and waste in consonance with ESM guidelines	<ul> <li>Current PCB management practicesevaluated</li> <li>PCB management guidelines developed</li> <li>Number of stakeholders and individual strained</li> </ul>			Guidelines provided and owners provided training on the management of PCBs in ESM
Component 2 –				
Outcome 2: Relevant institutions in India are enabled to manage PCBs in an environmentally sound manner as well as awareness raising on the				

Outcome 2: Relevant institutions in India are enabled to manage PCBs in an environmentally sound manner as well as awareness raising on the adverse effects of PCBs

Output 2.1: Institutional	- Number of	Inventory of PCBs	Stakeholders/owners	- Owners of the largest holder of pure PCB
capacity for ESM of PCBs,	stakeholders	established during	of PCB oil, PCB	identified viz.Steel Authority of India Limited/
PCB-containing equipment		Enabling activity (EA)	contaminated oils,	Bhilai Steel Plant, Nyveli Lignite Corporation,
and wastes evaluated	<ul> <li>Current stakeholder capacity</li> </ul>	project	wastes and equipment identified	power utilities, etc.
Output 2.2:	evaluated		and their capacity to	- Secured co-financing to manage PCBsin
Training workshops for key			handle PCBsin ÉSM	
stakeholder undertaken	capacity building needsidentified		mannerevaluated. - Capacitybuilding	- Requirement of the institution for management of PCBs identified and assessed.
Output 2.3	Workshop held on		needsfor treatment	managementor r obsidentilled and assessed.
A national tracking and	PCB phase-out and		of pure PCBs and of	- Identified and labelled 523 Nos. of
record keeping system (PCB inventory database)	treatment methods; number of		PCB oil, PCB contaminated oil,	transformers with 1235 tonnes of sovtol/clophen oil. Detailed data with volumetric dimensions of
established and maintained	workshops and		wastes and	each of the transformer recorded and
countrywide (28 states and	participants.		equipment identified	inventoried. Additionally, 603 PCBs
7 union territories)	<ul> <li>Number of individual trained</li> </ul>		- Reporting material	filled/contaminated transformers have been located and identified during inventory update.
Output 2.4	- Information		to stakeholders	Tocated and identified during inventory update.
Sampling, analysis and	materialsdeveloped		- Inventory	- PCB contaminated stocks ( 500 tonnes)
monitoring capacity evaluated and strengthened	and provided to stakeholders.		revalidated. Details of the items	identified at Neyveli Lignite Corporation has been confirmed by CPRI team.
in 13 states	- Number of		of the items	- Other major owners, identified by CPRI,
	stakeholders			showed interest for getting their stocks treated
Output 2.5	contacted and			using mobile facility include:
Awareness raising carried out	provided with information and			Tarapur Atomic Power plant—100MT     Chandrapur Thermal Power Station—100MT
	technical support			Transmission Corporation of Andhra Pradesh
	- Amount of			Limited, Vijayawada39MT,
	monitoring kits and other monitoring			<ul> <li>Pinki Thermal Power station, UP 5 KL</li> <li>Gandhi Nagar Thermal Power Station, Gujarat</li> </ul>
	equipment/supplies			60 KL
	provided			• Rajasthan Rajaya Vidyut Prasaran Nigam Ltd.
	<ul> <li>Completed power sector inventory list,</li> </ul>			Rajasthan100 KL
	number of items			- Central Power Research Institute (CPRI)
	listed			was sub-contracted to implement the project activities.
	<ul> <li>Completed shipbreaking sector</li> </ul>			activities.
	inventory list,			- Core team at the CPRI identified and are in
	number of items listed			place.
	- Completed non-			- Sixty-eight training workshops organized in
	powersector			different states such as, Assam, Karnataka,
	inventory list, number of items			Kerala, Tamil Nadu, Andhra Pradesh, Gujarat, Uttar Pradesh, Uttrakhand, Delhi, Haryana,
	listed.			Maharashtra, Orissa, etc. In each of the
	- New equipment			workshops conducted around 100-125 senior
	purchased and installed			level officials, engineers, policy makers, researchers, PCBs owners, etc. handling PCBs
	- Standard			contaminated oil and equipment trained on the
	methodology			management of PCBs. Training material
	adopted <ul> <li>Number of articles</li> </ul>			prepared and provided to the stakeholders who are one the largest owners of the PCBs
	published and			contaminated oil and equipment. Safety
	estimated readership			Guidance Manual drafted and finalized.
	<ul> <li>Number of website hits and</li> </ul>			- PCB analysis in oil samples numbering 780
	registered users			received at CPRI undertaken.
	- Number of PSAs			
	developed and broadcast, estimated			- Owners of the largest holder of low concentration PCBsidentified namely NLC in
	viewership			Tamil Nadu.
	- Number of			
	workshops and workshop			- Inventory of pure PCBs and Iow conc. PCBs being updated and revalidated. 400 tonnes of
	participants			pure PCBs and 600 tonnes of low
	- Numberof			contamination (0-500 ppm) PCBs inventory
	communications and consultations with			added up and updated.
	policy makers.			- Total number of transformers containing pure
	-			PCBs are 1180 with 2511 tonnes of pure PCBs.
				With three washing during treatment the total amount would become 7533 tonnes.
				- Total tonnage of PCB contaminated oil (10-
				500 ppm) is 3500 tonnes.

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				<ul> <li>PCB contaminated stocks identified at Neyveli Lignite Corporation and Bhusawal thermal power station have been validated by CPRI team.</li> <li>Roadmap for treatment of low concentration PCBs using mobile facility finalised.</li> <li>After commissioning and steady state operation, 21.4 KL PCBs contaminated stocks of TNEB has been decontaminated stocks of TNEB has been decontaminated successfully followed by a 25 KL stock of low level PCBs at VISL-Bhadravati asper the roadmap finalized by CPRI, the operating entity.</li> <li>A total of 122.26 KL low level PCBs contaminated oil treated using mobile de- chlorination unit at owner's sites in north Indian state UP.</li> <li>So far 384.58 MT of PCBs contaminated oil have been decontaminated successfully using the mobile de-chlorination unit.</li> </ul>
Component 3 –				
Outcome 3: Targeted regiona	al implementation for E	SM of PCBs, PCB-cont	aining equipment and	waste
sound maintenance capacity for PCBs, PCB- containing equipment and wastes established	Identification of technical and technological need to implement ESM for PCB containing equipment - Number of PCB Management facilities certified - Facility supplied with necessary equipment		- Technical and technological requirement assessed and identified. - Necessary equipment identified, assessed and contract issued	<ul> <li>Based on the inventory and location of the stocks of PCBs, technical and technological requirements identified at Bhilai Steel Plant.</li> <li>CPRI identified the technical and technological requirements for safe decontamination of PCBs contaminated oil at different locations in the country namely at Nyveli Lignite Corporation and other locations in Maharashtra, Tamil Nadu, Karnataka, Kerala, Gujarat, Assam, etc.</li> <li>Competitive global bidding identified the suitable technology for the treatment of the PCB oil, PCB contaminated oil</li> <li>wastes and equipment.</li> <li>Selection process involved two times bidding.</li> <li>In the first bidding process, a party was selected on technical bid basisbut commercial (financial) bid did not succeed due to high cost of bid which far exceeded the funds available to the project.</li> <li>For the second bidding, TOR was prepared splitting the job into 2 parts - Supply A (disposal of pure PCBs) and Supply B (treatment of PCB contaminated oil, wastes and equipment).</li> <li>Tender evaluation process conducted by the Technical Working Group (TWG) and UNIDO approved tender for Supply B (treatment of PCB contaminated oil, wastes and equipment).</li> <li>The identified technology has been ordered to the selected vendor for commissioning at the site at Bhilai Steel Plant.</li> <li>M/s Ramky, the Contractor, filed the application for permit clearance with the state authority in Chhattisgarh State. The application was taken up in the Expert Group meeting and after studying and analysing the scope of the work, the Committee directed the BSP and M/s Ramky to approach the Central Authority in Delhi.</li> <li>Application along with many documents prepared asper the requirement under the Law and submitted to the Central Authority of the Government of India (GOI).</li> </ul>

	- 122nd Meeting of the Expert Appraisal
	Committee for Building/Construction
	Broizert/Tourschip and Area Douglapment
	Projects/Township and Area Development
	Projects, Coastal Regulation Zone,
	Infrastructure Development and Miscellaneous
	projects under the Central Authority of the GO
	cleared the EIA.
	- Standards for monitoring of the effluents beir
	followed in different countries are being studie
	to be adopted in India.
	- Two applications prepared, one under Air Ac
	and other under Water Act, for submission with
	the State Regulatory authority
	- Application dossier for second stage of
	clearance (CFE) and No Objection from the
	State authorities submitted.
	- On scrutiny by the Expert Group, Board
	sought additional information, documents and
	clarifications (19 in numbers). Actions taken by
	BSP and M/sRamky to compile the informatio
	and prepared the required additional documer
	/ information.
	- Third level (stage) of clearance from the
	Central Government from the Ministry of
	Industry completed.
	- Final level of clearance i.e. Consent for
	Establishment for the static facility obtained ar
	approval letter issued to the BSP by the State
	Pollution Control authorities in Chhattisgarh.
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	- Site inspection, another requirement under the
	permit, by the State authority completed.
	- Civil drawing, electrical drawings, furniture,
	fixtures requirements discussed in number of
	meetingsheld with BSP/CET/ SAIL, the
	operating entity and M/s Ramky, the Contracto
	and finalised.
	- TS for the civil work was revised to make two
	separate activities viz. Civil work for the static
	facility and replacement of 523 pure PCBs
	transformers with new ones. Accordingly, two
	different TS were made to two different activity
	by BSP. This was essentially done to fast trac
	approval of the civil workby the management
	the BSP/SAIL.
	- TS for geo-technical survey and assessment
	of the site drafted, discussed and finalised.
	Tendersfloated.
	- Geo-technical survey of the site completed
	and report submitted by the Contractor engage
	by BSP to the management of BSP.
	- Phase out plan of the transformers drafted
	and discussed with CET, SAIL and BSP, the
	operating entity and the PCBsowner.
	- Phase out plan of 523 PCB transformers has
	been delinked from civil work of the facility.
	Revised plan is being worked out.
	- TOR on Specification for the provision of a
	destruction system for high level or pure PCB
	liquid wastes and decontamination of porous
	material contaminated with PCBs finalized and
	published for competitive global bidding. Bids,
	both technical and commercial, evaluated to
	finalise the contract.
	Contract for the facility for destruction of pure
	PCBs and porous material (Part A facility)
	issued to M/s Ramky.
	<ul> <li>CFE application for Part A facility, under Air</li> </ul>
	Act and Water Act has been submitted to the
	Chhattisgarh Environment Conservation Board
	(CECB), Raipur, Chhattisgarh. The application
	has been submitted along with Pre-feasibility
	report of the Part A facility and other documen
	together with the required fee of INR 160,000.
	- Revised TS for civil work for housing both th
	facilities of PCB treatment and destruction i.e.
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	Part A and part B finalised by BSP/SAIL/CET in
	consultation with M/s Ramky.
	- PAG approval of the project at Corporate level
	of SAIL by BSP obtained.
	- TOR for the mobile facility drafted.
	- TWG and CPRI endorsed the TOR.
	- Approval of the MOEF, GOI obtained on the
	TOR.
	- TOR for mobile facility forwarded to UNIDO
	HQs. Vienna for further processing for issuance
	of RFP.
	- TOR on Specification for the provision of a
	de-chlorination system for treatment of
	transformer mineral oil containing PCBs and
	PCB disposal finalized and published for
	competitive global bidding.
	Bidsfor the mobile de-chlorination system, both
	technical and commercial, evaluated to finalise
	the contract.
	- Tenders (Request for Proposal) for civil work
	for the facility supply A and B at Bhilai Steel
	Plant posted and tendersinvited.
	- Six vendors globally sent their proposal for
	consideration in response to the RFP
	- SAIL/BSP did the technical evaluation
	- SAIL/BSP conducted commercial evaluation
	and negotiated with the selected vendor. The
	financial proposal was sent to the SAIL
	corporate office for the approval of SAIL Board.
	- The proposal was examined and vetted by the
	sub-committee of the SAIL Board.
	- The proposal wasthen reviewed and
	endorsed, after due clarifications from the BSP,
	by Director (Technical), Director (Project) and
	Director (Finance).
	- The proposal after three tier of scrutiny was
	put up for approval of the Chairman, SAIL.
	- Approval of the Chairman accorded.
	- Letter of intent (LOI) issued by BSP to the
	selected vendor M/sHSCL for the civil job for
	the static facility at BSP on July 11, 2016
	- M/s Ramky kept informed on the development
	and advised to undertake their part of the
	implementation of commissioning the plant
	concurrently.
	- CPRI updated inventory of PCBs, both
	contaminated and pure covering 157
	organizations across the country.
	- Organised four PCBs owners training
	programmes at various locations in different
	region of the country during the year.
	<ul> <li>Organised sixty PCBs awareness programme</li> </ul>
	on PCBs across the country.
	- Out of 780 PCBs containing oil samples
	collected/received at CPRI, 564 samples have
	been analysed during the year.
	- Training brochure/hand outsin 11 regional
	languages published and circulated to the
	stakeholders/technician/workershandling PCBs
	- UNIDO entered into a contract with M/sNPO
	Dekanter for the supply of a mobile de-
	chlorination system for the treatment of the low
	concentration PCB contaminated oil.
	- TOR for the provision of the management
	services for the treatment of transformer mineral
	oil containing PCBs using the mobile PCB de-
	chlorination system drafted and provided to the
	executing partner for their review.
	<ul> <li>CPRI management endorsed the TOR</li> </ul>
	- UNIDO procurement service unit invited
	proposal from CPRI for providing the
	management services for the treatment of
	transformer mineral oil containing PCBs using
	the mobile PCB de-chlorination system.
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				<ul> <li>GPS tracking system is in place on the mobile unit truck for proper monitoring the movement of mobile facility and decontamination process onsite.</li> <li>GPS tracking system developed to install on the mobile treatment facility.</li> <li>PCB inventory updated. Additionally, 603 PCBs filled/contaminated transformers have been located and identified during inventory updating. 400 tonnes of pure PCBs and 600 tonnes of low contamination (0-500 ppm) PCBs inventory added up and updated.</li> <li>During the reporting period, 5 MT of pure PCBs and 350 MT of lower level PCBs inventory have been added up and updated.</li> </ul>
Component 4 :				
Outcome 4 : Outcome 4: Re	egional capability for	final treatment and di	sposal of PCBs, PCB-	containing equipment and wastes
Outcome 4.1 Management system for identification, tracking, collection, packaging, transport, interim storage, record keeping, and disposal of PCBs, PCB- containing equipment and waste developed and operational in 13 states Output 4.2: ESM and transport to interim storage sites of PCB-containing materials carried out including specialized transport vehicles for highly concentrated PCBs with GPS and adequate preparedness measures in case of emergency on transport routes to the stationary disposal unit Output 4.3: Final ESM treatment of at least 7,700 tons of PCBs, PCB-containing equipment and PCB-contaminated oil and wastes undertaken		identified states	and waste identification, tracking and record keeping - Guidelines drafted and developed for PCBs, PCB- containing equipment and waste collection, packaging and transportation - Guidelines drafted and developed for PCBs, PCB- containing equipment and waste interim storage - Guidelines drafted and developed for PCBs, PCB- containing equipment and waste disposal	<ul> <li>Data collected from different sources viz.</li> <li>literature, government sources, etc.</li> <li>Data collated and compared with the international standards.</li> <li>Draft guidelines prepared and discussed.</li> <li>Copies of the four guidelines prepared provided to the government for their review and comments.</li> <li>Government (MOEF&amp;CC) in turn forwarded those to the stakeholders for their comments and inputs.</li> <li>Guidelines reviewed by the stakeholders namely CPCB and CPRI. The PMC also scrutinised the Guidelines which are being addressed at the government (MOEF&amp;CC) level.</li> <li>CPRI adopted the guidelines, got printed and circulated/ distributed to the PCBs owners.</li> <li>Sixty-eight training workshops organized for stakeholders/owner of the PCBs and guideline distributed to over 2000 persons and a large number of organizations dealing in PCBs.</li> <li>SALL agreed to put up PCB destruction facility at Bhilai Steel Plant (BSP) of Steel Authority of India Ltd. (SAIL).</li> <li>Approval of the Board of Directors of SAIL on the co-financing the setting up of facility at Bhilai Steel Plant completed and obtained.</li> <li>Completed the Inventory of pure PCBs containing transformers at Bhilai Steel Plant.</li> <li>A total of 1235 Tonnes of pure PCBshas been estimated from 523 transformers commissioned at Bhilai Steel Plant.</li> <li>A total of sovtol, totalling about 60 tonnes as stockpiles, have also been identified.</li> <li>Labelling of all transformers have been completed. Location, rating and other details of each of the transformer to be treated have been completed.</li> <li>SAIL hasidentified the team of officers for operating the facility. Workhas been started by the senior officers of the BSP/SAIL for implementing the activities.</li> <li>Technology Workshop conducted to assess the available technologies for the safe disposal of PCBs in an Environmentally Sound Manner.</li> <li>Global technologies for the safe disposal of PCBs in an Environmentally Sound Manner.</li> <li>Global te</li></ul>

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	- Number of		- Non-combustion sodium based technology
	treatment facilities		has been selected for putting up the facility at
	commissioned		the Bhilai Steel Plant.
	- Number of staff		- UNIDO issued the contract to the winning
	trained - Number and		party. - The contractor visited the site at Bhilai Steel
	amount of PCB		Plant and had discussion with the senior
	contaminated		management of the Bhilai Steel plant on the
	material treated or		implementation of the contract of
	disposed of		commissioning of the facility.
	- 7,700 tonnes for		<ul> <li>Pre-feasibility report of the facility at Bhilai</li> </ul>
	PCBs, PCB-		Steel Plantprepared.
	containing		- Data collected for the Environmental
	equipment and		Clearance for the Form 1 asper MOEF
	waste identification,		Notification No. S.O. 1533 dated 14th
	tracking and record keeping.		September 2006. - Application for Environment Clearance
	keeping.		submitted to the State Level Expert Appraisal
			Committee Chhattisgarh, Chhattisgarh
			Environmental Conservation Board by Bhilai
			Steel Plant/SAIL.
			- Technical specifications for the survey work
			of the site prepared by CET/SAIL and submitted
			to BSP.
			- FR prepared by CET/SAIL and submitted to
			BSP.
			- SLD for sub-station prepared by CET/SAIL shared with the contractor. The contractor has
			been advised to select electrical equipment
			accordingly and submit detailed engineering
			drawing and specifications for approval.
			- Based on the recommendations of the
			Technical Working Group, manufacturer of the
			Plasma Technology had been approached.
			- Arranged a study tour for Indian experts to
			visit the facility of the Plascon (Technology provider of Plasma based PCBs destruction) at
			Brisbane, Australia.
			- Arranged a study tour in October 2012 for
			Indian experts to the JESCO Kitakyushu facility
			in Japan to further study and assess the plasma
			technology for the treatment & disposal of pure
			PCB.
			- TOR drafted for the supply of the destruction
			facility for pure PCBs Draft TOR circulated to all Technical Working
			Group (TWG) members for their review and
			comments.
			- TWG meeting convened to discuss the TOR.
			- TWG members suggested to include the
			provision of treatment/disposal of the porous
			and other materials including wood to have
			complete package in one go.
			<ul> <li>TOR revised accordingly.</li> <li>The TWG meeting discussed in details the</li> </ul>
			revised TOR para by para and suggested
			various changes to improve the TOR. The
			meeting also noted the observation of the BSP
			that it would not be possible to get the
			clearance for putting up an incineration facility
			at the BSP. Hence, TWG decided that option of
			incineration technology should not be included
			in the tender TOR.
			- Chairman TWG sought second opinion on the destruction technologies (especially Plasma
			technology) from the expert institutions in India
			- Following the receipt of approval of
			MOEF/TWG on the TOR on Specification for
			the provision of a destruction system for high
			level or pure PCB liquid wastes and
			decontamination of porous material
			contaminated with PCBs, the UNIDO has
			contaminated with PCBs, the UNIDO has finalized the TOR and published for competitive global bidding.

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		- Queries of the bidders have been responded
		three times.
		- Bidshave been received by the Contract Unit.
		- Evaluation of the bids, both technical and
		commercial completed. Successfully negotiated
		with the vendor to bring down the offered price
		of the Plasma facility from US\$5.8 million to US
		\$4.24 million.
		- Contract for the Plasma facility for disposal of pure PCBs awarded to M/s Ramky Enviro
		Engineers.
		- TOR for the mobile facility for decontamination
		of low concentration of PCBs oil drafted.
		- Endorsement TWG/ MOEF, GOI on the TOR
		for mobile facility obtained.
		- RFP finalised by the Procurement Unit at
		UNIDO Vienna
		- RFP posted on UNIDO portal for global
		bidding.
		- Technical Working Group (TWG) evaluated
		the technical and commercial bids.
		- Technical working group finalized the offer
		based on bids evaluated.
		- Three facilities being commissioned under the
		project viz. Stationary facility for Disposal of
		pure PCBs using plasma technology at Bhilai
		Steel Plant, Bhilai Chhattisgarh operated by Bhilai Steel Plant of SAIL; Stationary facility for
		the treatment of PCB oil, equipment and wastes
		using de-chlorination technology at Bhilai Steel
		Plant, Bhilai Chhattisgarh operated by Bhilai
		Steel Plant of SAIL ; and a de-chlorination
		treatment facility on mobile platform for
		treatment of low level contamination of PCBs
		will be operated by CPRI.
		- Consent for Establishment of Plasma facility
		(Supply of the Static plant at BSP) approved
		and issued by competent authorities in
		Chhattisgarh
		- Order placed with M/sNPO Dekanter for the
		supply of the mobile de-chlorination system
		- Order placed with M/s Vinformax with whom
		CPRI has a contract for developing a software
		for a GPS embedded tracking system for
		monitoring the movement and decontamination
		schedule of mobile facility, - 28 sites inspected for undertaking
		1 0
		decontamination activities using mobile facility - Interim storage facility at different locations
		identified and are being utilised to store the
		transformers and PCB contaminated oil for the
		treatment using the mobile facility.
		- CPRI agreed to host the management and
		operation of the mobile de-chlorination system
		- Proposal for the management services for the
		treatment of transformer mineral oil containing
		PCBs using the mobile PCB de-chlorination
		system invited from CPRI.
		- Civil construction of the static facility both for
		Supply A (Plasma system) and Supply B (de-
		chlorination system) - order placed following
		the competitive bidding procedure followed by
		BSP/SAIL
		- Timelines for the civil construction and
		commissioning of the static facility both for
		Supply A (Plasma system) and Supply B (de-
1		chlorination system) worked out by the PSC
		meeting organised at MOEF&CC.
		- Stakeholderstrained in the PCBs
		management following the guidelines developed
		management following the guidelines developed by CPRI
		management following the guidelines developed by CPRI - CPRI demonstrated the procedure of the
		management following the guidelines developed by CPRI

	r	1
		- Schedule of the treatment of PCBs
		contaminated oil using mobile de-chlorination
		system finalised by CPRI.
		- Desktop, Printer and hardware of GPS
		required for GPS tracking of de-chlorination
		technology are delivered to CPRI by Vinformax
		- Approval of Chairman SAIL on the finance of
		the civil building contract obtained
		- BSP awarded the contract to M/sHSCL for
		the civil building construction for the static
		facility
		- Civil work started at site in Bhilaion 27
		ctober 2016
		- \clearance completed
		- Design and engineering – completed
		-Boundary wall of the plantdone -Main building for both the plants – Construction
		work for main building is completed.
		-Construction of water tankto be completed.
		-Storage tankfoundations completed
		-Waste storage – columns completed.
		-Sodium metal storage building – RCC frame
		structurally completed. Doors to be fixed.
		-Installation of EOT cranes (2 No.) are
		completed.
		-Installation of Electric maintenance hoist is
		completed.
		-Order placed for Tyre Mounted Mobile Crane.
		Fork Lift (Capacity - 5.5 T) is delivered at site.
		-Main equipment building for both the plants -
		All the structure work completed. All the civil
		work with HDPE Lining and RCC Flooring
		completed.
		-Storage tank foundations completed.
		-Waste storage and temporary waste storage
		shed work completed
		-Sodium metal storage building completed.
		-Trench work for storm water has also been
		completed.
		-Roads and road lighting work is in progress.
		-Transformer yard for CSPDCL power supply
		completed. -Construction of 33 kV single circuit overhead
		lines by Chhattisgarh State Power Distribution
		Co. (CSPDCL) from nearest 33 KV substation
		to the site of static facility- completed.
		-Installation and commissioning of de-
		chlorination system and ITD facility – completed
		-EOT Cranes are erected properly.
		-Fire hydrant pipeline, sewage water pipeline
		erection workin progress.
		-Fork lift been delivered at the site.
		-PROCESS TANKS
		1R01, 1H02, 1H03, 2A01, 2A02,
		7H01,7H02,7H03,7H04,7H05,6H01,6H02,6H03,
		6H04,6KL,2H01,1H04,0.9KL-2NOS,
		4F01-4NOS,0.5 KL,4E01-2NOS,7E0-1,1H03,
		1H02, 20KLHSD, 5H01, 5H02, 5H03.TOTAL
		=33 – Erection of all tanks are completed.
		Fabrication of related pipe lines are also
		completed.
		-Installation of 33KV sub-station is completed.
		-Lab Equipment
		Hot Air Oven - Installed
		Digital Water Bath - Installed
		Hot Plates - Installed
		Low Temperature Cabinet - Installed
		PM Sampler - Received
		Dust Sampler - Received
		Ventilations (4 Nos) ready for dispatch
		Gas Chromatography (GC) - Installed
		Cooling Tower – Erection and fabrication of pipe
		linescompleted
•		

-Centrifugal Pumps (12 Nos) – Installation and fabrication of pipe lines completed. -Gear Pumps (12 Nos) – Installation and fabrication of pipe lines completed. -Oil Regeneration Units (2 Nos) - Installation and fabrication of pipe lines completed. -Oil Flooded Screw Air Compressor (2 No) - Installation and fabrication of pipe lines completed. -Air Dryers (2 Nos) - Installation and fabricat of pipe lines completed. -Air Receiver Tanks (2 Nos) - Installation and fabrication of pipe lines completed. -Air Receiver Tanks (2 Nos) - Installation and fabrication of pipe lines completed. -Water Cooled Chillers (2 Nos) - Installation fabrication of pipe lines completed.	nd
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-Water Cooled Chillers (2 Nos) - Installation	
	and
Tablication of pipe lines completed.	and
-For Plasma system the following equipment	t
have been installed.	
-Installation of MEE equipment are complete	ha
- Vapour Separator-1	.u.
- Vapour Separator-2	
- Pre Heater-1	
- Pre Heater-2	
- Calandria-1	
- Calandria-2	
- Condenser	
- ATFD	
- Agitator for Feed Tank	
- Feed Strainer	
- Seal Pot	
- Seal Water Tanks-2 Nos	
- ATFD Feed Balance Tank	
- AirBlower	
- ATFD Condenser	
- Seal Water Tank	
- Steam Condensate Tank	
- Gas Storage Tanks	
- Argon Tank	
- Atmospheric Vaporizer-2nos	
- Oxygen Tank	
- I.T.D Equipment	
- Fuel Oil Tank	
- Oil Receiver	
- Carbon Bed Chamber	
- Bumer Assembly	
- Instruments	
- Level Indicator	
- Temperature Indicator	
F 600 Ko/Hr Doilor (2 Noc) Installa	d
- 600 Kg/Hr Boiler (2 Nos) – Installe	Ju.
- Chimney installed and erected.	
- Plascon Unit – Erected. Fabricatio	on of
related pipe lines are also completed.	
-Thus, all equipment erection completed.	
-Mobile de-chlorination plant and Sodium	
	~
Dispersion unit delivered at CPRI, Bangalore	
-Step down transformers both for mobile de-	
chlorination unit and sodium dispersion unit	
have been procured and installed for smooth	
functioning of both units at CPRI.	
-Mobile de-chlorination System and the Sod	
Dispersion Production System have been ful	Пy
commissioned.	
-Trial run successfully completed	
-Steady state operation of both units have be	aan
	Gen
achieved	
-Operators (a team of 8 staff) have been	
imparted extensive training on the operation	of
both the units by the vendor on site at CPRI,	
Bangalore. On successful completion of the	
training, the operators have started operating	y
both system independently.	

 · · · · · · · · · · · · · · · · · · ·
-After successful commissioning of unit, the de-
chlorination system has been installed on the
trailer so as to make use of the unit asfully
mobile system to be operated at site at different
locations across the country for de-chlorination
of low level of PCB contaminated oil and
wastes
-The mobile de-chlorination system and Sodium
Dispersion Production System have been
handed over to the CPRI by the vendor namely,
NPO Dekanter.
-25 KI stock of low level PCBs at VISL-
Bhadravati and 21.4 MT stocks at TNEB have
been decontaminated at site asper the
roadmap finalized by CPRI, the operating entity.
-So far 112.4 MT of PCB contaminated oil has
been decontaminated successfully using the
mobile de-chlorination unit.
-762 oil samples collected from the following 11
organizations/PCBsowners and tested.
-CPRI conducted 4 awarenessprogrammesto
train 154 engineers and technicians handling
PCBs containing equipment.
-A total of 34.6 KL low level PCBs contaminated
oil treated using mobile de-chlorination unit at
owner's sites in north Indian state UP.
-chlorination of 68Kl of PCBs contaminated oil.
Under the reporting period, the following are the
progress as on date:
<u>-</u> Owners of the largest holders of PCB
contaminated oil have been identified and the
status of the treatment are as follows;
1 M/s. Neyveli Lignite Corporation500MT
2. Tarapur Atomic Power plant 20.95MT—
Completed
3.Chandrapur Thermal Power Station—
129MT completed
4.Chandrapur Thermal Power Station -355KI –
awaiting for order
5. Transmission Corporation of Andhra Pradesh
Limited, Vijayawada39MT,
6. Pinki Thermal Power station, UP-55KL
order received
7 Gandhi Nagar Thermal Power Station, Gujarat
- 60KIorder received
8. Rajasthan Rajya Vidyut Prasaran Nigam Ltd.
Rajasthan -100 KI - awaiting for order
autoranaan tealain a nearrannaar these training
- awareness training programmes: three training organised in Kerala, West Bengal and Uttar
Pradesh
- Participantat M/s. KSEB Nallalam, Kerala
were given training on "condition monitoring of
transformer by oil analysis and safe handling of
PCB contaminated power transformers" - As on 30 <sup>th</sup> June 2020 a total of 384.58 MT of
PCB contaminated oil had been dechlorinated
using mobile de-chlorination plant at owner's
sites located in different parts of the country.
- PCB Analysis: 300 oil samples received at
CPRI for the analysis of PCB. Analysis
completed.
Static plant at BSP
Static plantat BSF
-Erection & commissioning of the static PCB
plant consisting of plasma system, de-
chlorination treatment plant, ITD, MEE, are at
advance stage of completion.
-PLASMA System: Plascon System imported
from Australia, all equipment reached at site
and erected on base platform. Installation team

	from Australia will be called on completion of utilities (power, water) connection and supply by
	BSP and after the COVID 19 lockdown is lifted by GOI.
	-ITD System: Installation completed.
	-Process Equipment: Foundations work
	completed at site asper design. Equipment erection completed on 12 March 2020.
	-MEE and Utilities: MEE & ATFD equipment reached to site and erection completed. Cooling
	tower received at site and erection completed.
	Boiler and water softener reached site and erection completed. Chiller unit erected.
	-Pipesand valves: Pipes& fittingsreached site and all major piping workscompleted, except
	the utility lines from BSP.
	-Oxygen and Argon Tanks: Equipment dispatched to site and erection works
	completed. -Pumps: All pumps erection work completed
	and piping connection completed.
	-Oil filtration and regeneration unit: Equipment received and placed in exact location,
	installation completed. Commissioning to be done along with other plant commissioning.
	-Painting and insulation of equipment's and pipes: Painting and insulation work will start
	after hydraulic testing of pipe lines.
	- Electrical
	-1600 KVA Transformer : Transformer installation completed.
	-HT yard: All works completed; transformer charging done power connection successfully
	given to panel.
	-PCC Panel & APFC Panel: Panels reached site and erection work completed
	-MCC Panel: MCC panel erection completed at site.
	-Electrical cables and cable trays: Cable tray, cable laying and connection work completed
	-Local push buttons: Push buttons reached site,
	erection completed Instrumentation & other:
	-Field Instruments: 75% of instruments installed in filed pipelines.
	-PLC Panel: Panel reached site and placed in location.
	-CCOE explosive license for Oxygen and
	Argon: Explosive license drawing approved. Town planning permission obtained by BSP.
	Applied for final approval. -As BSP received building permission from
	corporation NOC for Diesel storage tank applied to district collectorate, after that application to
	be submitted to Petroleum and Explosive Safety
	Organisation Nagpur. -Safety manual: Submitted to BSP.
	-Training manual prepared and provided to BSP
	- Lab equipment: BARC approval received for GC ECD and equipment commissioning
	completed
	Under the reporting period following are the
	progress as on date:
	Statutory Compliances: - Consent to Operate (CTO) for both Part A &
	Part B of project obtained from Chhattisgarh
	Environment Conservation Board (CECB) on 19 <sup>th</sup> January, 2022.
1	10 Juliuary, 2022.

- License for storage & handlin Argon granted by Petroleum a Safety Organization (PESO) on 07 - Authorization for Hazardous Wa granted by Chhattisgarh Conservation Board (CECB) on 05	and Explosive 7 June 2022.
- Authorization for Hazardous Wa granted by Chhattisgarh	
	0
	Environment 5 <sup>th</sup> July, 2022.
- License for storage & handling	g of diesel by
Petroleum and Explosive Safety (PESO) is in process, likely to be	
August 2022.	
Destruction of Pure PCBs and Decontamination of Porous mate	erial (Part A)
Project: - Indirect Thermal Desorption (I	(TD) System -
All the equipment installed, leak	age testing of
tanks, fabricated pipe lines comple	eted.
Pre-commissioning of ITD system 31 <sup>st</sup> March 2022.	-
- Multiple Effect Ev aporator (ME Testing of all pumps and rotary eq	/ /
completed. Leakage / pressure tes surface condensers, Calandrias a	sting of tanks,
equipment completed. Pre-commissioning of MEE syste	em had been
completed on 19 <sup>th</sup> May 2022. - Plascon System – System	erected on
concrete bed. System connected	l pipe lines for
argon oxygen and PCB fabricate Final commissioning will be done	
foreign experts.	
- Boiler- Both the boilers (Cap	-
Kg/Hour) and connected 30 Meter connections completed on 2 <sup>rd</sup> July	
_ Both the boilers commissioned of 2022.	on 4 <sup>th</sup> April,
- Decontamination of High / Lov oil (Part B) Systems:	w Level PCB
- All the Process tanks, storage tan connected systems installed, syste	
completed.	
Testing of pumps & other rota completed.	ry equipment
- Air Compressors & Air Drie	
compressors & driers commission 2021.	ied on 5" July
- Chillers- Both the chillers com 27 <sup>th</sup> May 2022.	missioned on
- Oil de-gasifier & Oil Re-genera	
Erection completed pressure testin done.	ng with water
- Sodium Dispersion Solution System- Erection and pressure te	
- De-Chlorination Process chan	-
and pressure testing done. - Lab Instrument- All the lab	o instruments
installed and tested. The GC EC	CD instrument
was commissioned but now the q	
PCB oil concentration is not v	<b>U</b>
	moleted

				<ul> <li>Instrumentation Work-Installation, testing of all instruments completed.</li> <li>Classroom training had been given to BSP operational team on 4<sup>th</sup> January 2022.</li> <li>All the raw materials for commissioning received at site.</li> <li>Two no of PCB oil filled transformers have been transferred to PCB site from Bhillai Steel Plant on 27<sup>th</sup> June 2022. PCB oil drained out from transformer and stored in designated tank. Decontamination works are in progress.</li> </ul>
Component 5 :				
Outcome 5 : Outcome 5: Pro	pject Management and r	monitoring and evaluati	on	
Output 5.1 Project management structure established	- Establishment of PMU and appointment of Project Leader - Establishment of PSC - Recruitment of project experts/Advisor		- PMU established and Project leader designated - PSC established - Project experts/Advisor appointed	PMU established at the start of the project. PSC established at the start of the project. Project staff /Advisor appointed and are in position
Output 5.2 An M&E mechanism designed and implemented according to GEF M&E procedures	- Organisation of Inception workshop - Preparation of Annual Project Implementation reports Holding Tripartite Review Meetings - Mid-term evaluation of the project		<ul> <li>Inception workshop organised</li> <li>Annual Project</li> <li>Implementation reports prepared _ Review meeting organised</li> <li>Mid-term evaluation undertaken</li> </ul>	

# III. Project Risk Management

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

Describe in tabular form the risks observed and priority mitigation activities undertaken during the reporting period in line with the project document. Note that risks, risk level and mitigations measures should be consistent with the ones identified in the CEO Endorsement/Approval document. Please also consider the project's ability to adopt the adaptive management approach in remediating any of the risks that had been <u>sub-optimally</u> rated (H, S) in the previous reporting cycle.

	(i) Risks at CEO stage	(i) Risk level FY 21	(i) Risk level FY 22	(i) Mitigation measures	(ii) Progress to-date	New defined risk⁵
1	Law-making and regulatory bodiesat state and union territories level will not timely be responsive	Low Risk (L)	Low Risk (L)	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	Gazette Notification on PCB of the Government of India published and notified	
2	Low level of participation and support of key stakeholders for the	Low Risk (L)	Low Risk (L)	Establishment of inter-sector National Steering Committee representing all relevant stakeholders	A TWG and inter sector National Steering Committee representing all relevant stakeholders were established	

<sup>&</sup>lt;sup>5</sup> New risk added in reporting period. Check only if applicable.

	implementation of the project.					
3	Potential transformer owners are not containing equipment and wastes.forthcoming to identify target transformers and to report PCBs, PCB-	Low Risk (L)	Low Risk (L)	Identification of conflicting stakeholder interests through involvement of stakeholders in the project design process		
4	Type of technologies selected does not meet the SC requirements on BAT and BEP. Serious threats to human health and the environment due to releases of PCBs during the removal, transport and treatment of PCBs, PCB containing equipment & waste.	Low Risk (L)	Low Risk (L)	Establishing close links to the NIP project (Updates of inventories). Technical Workshops with technology providers and users as a preventive risk mitigation measures. Carrying out of environmental impact assessment studies for the removal, transport and treatment of PCBs, PCB-containing equipment & wastes. Development and implementation of environment management plans to mitigate possible risks.	Organized series of awareness raising workshops and owner'straining programmesto interact with them to resolve the issues of conflict. Sixty workshops organized with the stakeholders/owners of PCBs.	
5	Delay in project implementations as well as monitoring and evaluation may cause delays in holding regular project management and M&E meetings and issuing required reports	Low Risk (L)	Low Risk (L)	Proper communication channels are Established	PMU at MOEF&CC have strengthened through dedicated manpower.	
6	Delay in project implementation activities at project site due to COVID-19 pandemic	Low Risk (L)	Low Risk (L)		Stakeholdershave been informed and are agreed in the present crisis of COVID 19 pandemic	

**2.** If the project received a <u>sub-optimal risk rating (H, S)</u> in the previous reporting period, please state the <u>actions taken</u> 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.

Coordination with the Ministry of Environment, Forest and Climate Change has been strengthened. Stakeholders are informed and progress regularly monitored with the support of the Ministry.

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

The major implication of the COVID-19 pandemic is the complete halt of the activities both at installation/commissioning of the static plant at Bhilai Steel Plant and operation of the mobile de-chlorination plant for treatment of low-level PCBs at owner's site. This has caused inordinate delay due to complete lockdown in the country twice from March 2020 to October 2020 and again from April 2021 to Mid-June 2021 resulting in no reporting for work at site by the technicians, labours, etc. as per the directions/orders of the State Government as well as Central Government of India. As a result of this, the project has suffered badly resulting in unforeseen delays in the implementation of the activities. While conditions in the country is returning to normalcy, some services required for project implementation are not available resulting to delays in delivery of outputs.

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

The completion of the installation and commissioning of the PCB treatment facilities in Bhilai (Plasma and dechlorination) is quite complex and has met several challenges as reported in previous reporting periods.

The project is part of the PCB Thematic Evaluation of UNIDO but is expected to be completed on 31 December 2022.

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

NA

## 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	NA	NA	NA
(ii) New risks identified during project implementation (if not applicable, please insert 'NA' in each box)	NA	NA	NA

### 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).

All stakeholders are fully involved in the implementation of the project activities with sole aim to treat and dispose of PCBs in environmentally sound manner.

Bhilai Steel Plant of the Steel Authority of India Limited and Central Power Research Institute are the main stakeholders of the project. They are associated with the execution of the project activities right from the beginning of the project. Director General CPRI acted as Chairman of TWG and conducted meetings including evaluation of the global bidding for the supply of the facilities for Static dechlorination plant, plasma plant and the Mobile de-chlorination plant.

Static plant installation including de-chlorination plant, Plasma unit and the indirect thermal desorption unit are at the advance stage of installation/commissioning. The civil work of the facility is completed.

The mobile de-chlorination system and the Sodium dispersion system have been fully commissioned and operational. The CPRI has taken over the responsibility to operate the system to meet the target of treating 750 tonnes of PCB contaminated oil at different

locations across country.

One of the major challenges is to convince the owner of the PCBs to come forward for the safe disposal of their stocks through the facilities put up under the project. However, the biggest challenge faced by stakeholders is to arrange for huge sum of funds for the treatment of large quantities of contaminated oils and cost for the replacement with new fresh oil. The project partner CPRI is encouraging owners of the PCBs stock owners to come forward and get their material treated at subsidised rates utilising the facility created under the project.

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.).

NA

3. Please provide any relevant stakeholder consultation documents.

- 1. 3775\_Record\_Notes\_of\_meeting\_held\_on\_06-08-2021
- 3775\_Record\_Notes\_of\_meeting\_held\_on\_18-10-2021
- 3. 3775\_Record\_Notes\_of\_meeting\_held\_on\_10-03-2022
- 4. 3775\_Record\_Notes\_of\_meeting\_held\_on\_22-06-2022
- 5. 3775\_Guidelinesfor PCBs, PCB-containing equipment and waste identification, tracking, and record keeping,
- 6. 3775\_Guidelines for PCBs, PCB-containing equipment and waste collection, packaging, and transportation
- 7. 3775\_Guidelines for PCBs, PCB-containing equipment and waste interim storage
- 8. 3775-Guidelines for PCBs, PCB-containing equipment and waste disposal
- 9. 3775\_Guidance document on Reduction and Elimination of PCBs, prioritizing the Power Sector in India

10. 3775\_Occupational Health and Safety Manual for Maintenance of polychlorinated biphenyls filled transformer, contaminated transformer oil, analytical laboratories and de-chlorination process industry

# 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),.

As a GEF-4 project the CEO Endorsement did not foresee main gender issues.

## 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.

NA

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

1.	3775_Boiler_Units
2.	3775_Chiller_Units
3.	3775_HSD_Argon_Oxygen_Tanks-Area
4.	3775_Indirect_Thermal_Desorption_System
5.	3775_NaD_Preparation_System
6.	3775_Plant Area
7.	3775_Plascon_System
8.	3775_Process_Area
~	

9. 3775\_Storage\_Tanks

### 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.

#### Progress Outcomes and achievements:

The project has been successful in the development of guidelines, revalidation of the inventory, awarding of three (3) contra cts for i). static facility for the treatment of 3400 tons of PCB contaminated oil, wastes and equipment; ii). Plasma system for the destruction of the pure PCBs 1700 Tonnes and iii). Mobile de-chlorination system for low level PCBs contaminated oil. Much delayed sub-contract with Central Power Research Institute has also been signed by CPRI with the agreed and approved TOR. The project has completed the following major activities:

1. CPRI is updating the inventory. Additionally, 603 PCBs filled/contaminated transformers have been located and identified during inventory updating. 400 tonnes of pure PCBs and 600 tonnes of low contamination (0-500 ppm) PCBs inventory added up and updated.

2. CPRI has de-chlorinated around 231.5 MT of PCB oil of various concentrations using mobile PCB de-chlorination unit at the site of contamination. Mobile unit is being readied to be transported to a PCBs owner's site in Maharashtra to treat 140 MT of low level PCBs

3. Erection & commissioning of the static PCB plant consisting of plasma system, de-chlorination treatment plant, ITD, MEE, are completed Erection & commissioning of the static PCB plant consisting of plasma system, de-chlorination treatment plant, ITD, MEE, are completed

4. PLASMA System: Plascon System imported from Australia, all equipment reached at site and erected. Technical team from Australia will arrive to commission the system after the COVID 19 lockdown is lifted by GOI.

5. ITD System: All equipment received at site and installation of the system is completed.

6. Process Equipment: Foundation work completed at site as per design. Equipment erection completed

7. MEE and Utilities: MEE & ATFD equipment reached to site and erection completed. Cooling tower received at site and erection completed. Boiler and water softener reached site and erection completed. Chiller unit erected.

8. Pipesand valves: Pipes& fittings reached site and all major piping works completed, except the utility lines from BSP.

9. Oxygen and Argon Tanks: Equipment dispatched to site and erection works completed.

10. Pumps: All pumps erection work completed and piping connection completed.

11. Oil filtration and regeneration unit: Equipment received and placed at exact location and installation completed. Commissioning to be done along with other plant commissioning.

12. Painting and insulation of equipment and pipes: Painting and insulation work will start after hydraulic testing of pipe lines is undertaken.

13. Fork-Lift (Capacity - 5.5 T) is delivered at site.

14. EOT Craneserected.

15. Main equipment building for both the plants – All the structure work completed. All the civil work with HDPE Lining and RCC Flooring completed

16. Erection & commissioning of the static PCB plant consisting of plasma system, de-chlorination treatment plant, ITD, MEE, are completed.

Electrical

17 1600 KVA Transformer: Transformer installation completed.

18 HT yard: All works completed; transformer charging done power connection successfully given to panel.

19 PCC Panel & APFC Panel: Panels reached site and erection work completed

20 MCC Panel: MCC panel erection completed at site.

21 Electrical cables and cable trays: Cable tray, cable laying and connection work completed

22 Local push buttons: Push buttons reached site, erection completed

23 1600 KVA Transformer: Transformer installation completed.

24 HT yard: All works completed; transformer charging done power connection successfully given to panel.

25 PCC Panel & APFC Panel: Panels reached site and erection work completed

26 MCC Panel: MCC panel erection completed at site.

27 Electrical cables and cable trays: Cable tray, cable laying and connection work completed

28 Local push buttons: Push buttons reached site, erection completed

Instrumentation & other:

29 Field Instruments: 75% of instruments installed in filed pipelines.

30. PLC Panel: Panel reached site and placed in location.

31. License for Oxygen and Argon: Drawing approved and erection done. Town planning permission obtained by BSP. Applied for final approval to Petroleum and Explosive Safety Organisation (PESO) Nagpur.

32. As BSP received building permission from corporation NOC for Diesel storage applied to district collectorate, after that application to be submitted to PESO Nagpur.

33. Safety manual: Submitted to BSP

34. Lab equipment: BARC approval received for GC ECD and equipment commissioning completed.

Progress during the reporting periodisas follows:

Mobile dechlorination system

35. Owners of the largest holders of PCB contaminated oil have been identified and the status of the treatment are as follows;

a. M/s. Neyveli Lignite Corporation ---500MT

b. Tarapur Atomic Power plant 20.95MT -- Completed

c. Chandrapur Thermal Power Station—129MTcompleted

d. Chandrapur Thermal Power Station -355KI – awaiting for order

e. Transmission Corporation of Andhra Pradesh Limited, Vijayawada---39MT,

f. Pinki Thermal Power station, UP-55KL-- order received

g. Gandhi Nagar Thermal Power Station, Gujarat - 60KI--order received

h. Rajasthan Rajya Vidyut Prasaran Nigam Ltd. Rajasthan -100 KI - awaiting for order

36. Awareness training programmes: Three training programmes organised in Kerala, West Bengal and Uttar Pradesh

37. Participant at M/s. KSEB Nallalam, Kerala were given training on "condition monitoring of transformer by oil analysis and safe handling of PCB contaminated power transformers"

38. As on 30<sup>th</sup> June 2020 a total of 384.58 MT of PCB contaminated oil had been dechlorinated using mobile de-chlorination plantat owner's sites located in different parts of the country.

39. PCB Analysis: 300 oil samples received at CPRI for the analysis of PCB. Analysis completed.

Static plant as BSP

### 40. Statutory Compliances:

- Consent to Operate (CTO) for both Part A & Part B of project obtained from Chhattisgarh Environment Conservation Board (CECB) on 19<sup>th</sup> January 2022.

- License for storage & handling of Oxygen, Argon granted by Petroleum and Explosive Safety Organization (PESO) on 07 June 2022.

- Authorization for Hazardous Waste handling granted by Chhattisgarh Environment Conservation Board (CECB) on 05<sup>th</sup> July, 2022.

- License for storage & handling of diesel by Petroleum and Explosive Safety Organization (PESO) is in process, likely to be issued by 10 August 2022.

- Destruction of Pure PCBs and Decontamination of Porous material (Part A) Project:

41. Indirect Thermal Desorption (ITD) System - All the equipment installed, leakage testing of tanks, fabricated pipe lines completed.

Pre-commissioning of ITD system completed on 31 st March, 2022.

**42. Multiple Effect Ev aporator (MEE) System –** Testing of all pumps and rotary equipment completed. Leakage / pressure testing of tanks, surface condensers, Calandrias and other equipment completed. Pre-commissioning of MEE system had been completed on 19<sup>th</sup> May, 2022.

**43.** Plascon System – System erected on concrete bed. System connected pipelines for argon oxygen and PCB fabricated and tested. Final commissioning will be done in presence of foreign experts.

**44. Boiler-** Both the boilers (Capacity – 600 Kg/Hour) and connected 30 Meter stack erected, connections completed on 2<sup>nd</sup> July 2021. \_ Both the boilers commissioned on 4<sup>th</sup> April 2022.

45. Decontamination of High / Low Level PCB oil (Part B) Systems:

- All the Process tanks, storage tanks and other connected systems installed, systemization completed.

Testing of pumps & other rotary equipment completed.

46. Air Compressors & Air Driers - Both the compressors & driers commissioned on 5<sup>th</sup> July 2021.

**47. Chillers-** Both the chillers commissioned on 27<sup>th</sup> May 2022.

48. Oil de-gasifier & Oil Re-generation units – Erection completed pressure testing with water done.

49. Sodium Dispersion Solution Preparation System- Erection and pressure testing done.

**50. De-Chlorination Process chamber**-erection and pressure testing done.

**51.** Lab Instrument- All the lab instruments installed and tested. The GC ECD instrument was commissioned but now the quantification of PCB oil concentration is not working. OES contacted to rectify the fault.

52. Other activities:

- Instrumentation Work-Installation, testing of all instruments completed.

- Classroom training had been given to BSP operational team on 4<sup>th</sup> January 2022.

- All the raw materials for commissioning received at site.

- Two numbers of PCB oil filled transformers have been transferred to PCB site from Bhillai Steel Plant on 27<sup>th</sup> June 2022. PCB oil drained out from transformer and stored in designated tank. Decontamination works are in progress.

#### <u>Challenges</u>

1. Complete lockdown in the state/country due to COVID-19 pandemic resulting in work stoppage during March – October 2020 and again during April-Mid June 2021. However, the work resumed with full swing to make up lost time when the lockdown was relaxed in between.

2. To convince the owner of the PCBs to come forward for the safe disposal of their stocks through the facilities put up under the project.

3. The other biggest challenge faced by stakeholders is to arrange for huge sum of funds for the treatment of large quantities of contaminated oil and cost for the replacement with new fresh oil. The project partner CPRI is encouraging owners of the PCBs stock owners to come forward and get their material treated at subsidised rates utilising the facility created under the project.

2. Please briefly elaborate on any **minor amendments**<sup>6</sup> 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.

Results Framework	
Components and Cost	
Institutional and Implementation Arrangements	
Financial Management	
Implementation Schedule	
Executing Entity	
Executing Entity Category	
Minor Project Objective Change	
Safeguards	
Risk Analysis	
Increase of GEF Project Financing Up to 5%	
Co-Financing	
Location of Project Activities	
Others	

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

As of June 30, 2022, the project has total disbursement of US\$ 13,072,762.77. A cumulative total of US\$ 5,858,192.16 was allocated for the major intervention in component 4 on the implementation of ESM and

<sup>&</sup>lt;sup>6</sup> 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%.

final treatment of PCBs and the disbursement of US\$ 5,392,419.8 was made. The project has remaining US\$ 1,027,237.23 remaining funds which will suffice to complete all remaining activities. Delivery report is placed below.

Biol         Local Javael         221:94         0.00         0.00         0.00         0.00         0.00         0.00         0.000 <t< th=""><th>UNIDO</th><th>PROJECT DELIVER</th><th>Y REPORT</th><th>Project:</th><th>SOUND</th><th>- ENVIRONMENTALLY MANAGEMENT AND DISPOSAL OF PCBS IN</th><th></th><th>ager: Carmel Centen</th><th></th><th>lidity:</th><th>18,01,2010 - 31 Implement</th><th>,12,2022</th></t<>	UNIDO	PROJECT DELIVER	Y REPORT	Project:	SOUND	- ENVIRONMENTALLY MANAGEMENT AND DISPOSAL OF PCBS IN		ager: Carmel Centen		lidity:	18,01,2010 - 31 Implement	,12,2022
Open Outline Networks Function         Description         Description <thdescription< th=""> <t< th=""><th>Reporting Period:</th><th>16,01.2010 - 30.06.2022</th><th></th><th>Project Them</th><th>e; Energy</th><th>and Environment</th><th>Country:</th><th>India</th><th>Region</th><th></th><th>Asia and Pacific</th><th></th></t<></thdescription<>	Reporting Period:	16,01.2010 - 30.06.2022		Project Them	e; Energy	and Environment	Country:	India	Region		Asia and Pacific	
Lowerplin         Lowerplin <thlowerplin< th=""> <thlowerplin< th=""> <thl< th=""><th>Sponsor Nr.</th><th>Sponsor</th><th></th><th>Grant</th><th>Grant D</th><th>escription</th><th>Fund</th><th>Curren</th><th>ncy Grant Stat</th><th>us</th><th>Grant Validity</th><th></th></thl<></thlowerplin<></thlowerplin<>	Sponsor Nr.	Sponsor		Grant	Grant D	escription	Fund	Curren	ncy Grant Stat	us	Grant Validity	
Description         Rescription         Description         Description         Specific biologies         Rescription         Description         Specific biologies         Specific biol	400150	GEF - Global Environment Facility		200000250	GFIND1	0001	GF	USD	Authority to	implement	18,01,2010 - 31	12,2022
Description         Description (b)         Description (b		ANSWERSON AND AND AND AND AND AND AND AND AND AN	E.C.S.S.S.S.	Currer	nt Year	179 199 3	19103	1000000	Cumulative	to Date	-	New York
Instration         USD		Description	Budget Current Year	Current Year	Current Year	Current Year	Agreement	Budget	Disbursements	Available*		Expenditures
Number         Number<	200000250	Status: Authority to implement										
Biol         Local lravel         221,94         0.00	104044-1-01-01	GFIND10001	USD	USD	USD	USD	USD	USD	USD	USD	USD	USD
Nat.Consult/Staff         0.00         0.00         0.00         132.567.02         132.567.02         132.567.02         132.567.02         132.567.02         0.00         0.00         132.567.02           2100         Contraum Services         40.987.88         (695.337.79)         665.542.16         9.500.31         4.187.6494         4.157.0173         31.747.57         0.00         4.156.0173           3000         TainFalowath/Sludy         (697.50)         543.75         32.11         57.62         1.11.21         3.474.87         0.00         3.474.87           3000         TainFalowath/Sludy         64.965.32         40.065.32         45.843.37         41.48         0.00         3.474.87           4500         Permises         0.008         0.00         0.00         46.065.32         46.94.85         44.93.56         142.254.16         0.00         6.600.05         650.075           1004         Other Dense Catts         1.22.570.02         669.686.43         26.963.71         4.647.438.4         4.647.530.18         142.254.16         0.00         6.600.05         6.000         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00	1100	Staff & Intern Consultants	41,123,48	239,02	1,572.68	1,811.70	143,510.55	143,510,55	104,198,77	39,311.78	0,00	104,198.77
And Contractual Services         44,087,88         (e95,33,79)         665,642.10         9,504.3         4,187,490.94         4,187,490.94         4,197,490.94	1500	Local travel	261.94									66,057,37
No.	1700	Nat.Consult./Staff	0.00	0.00								
Soon         International Meetinga         141435         0.00         0.00         46,063.32         46,063.32         46,063.32         41,845         0.00         46,064.33           4000         Premises         (00.86)         260.51         12,2256.68         12,530.19         46,063.32         46,045.33         90,07.68         (12,61.06)         0.00         60,00         69,007.68         (12,61.06)         0.00         69,007.68         (12,61.06)         0.00         69,007.68         (12,61.06)         0.00         69,007.68         (12,61.06)         0.00         69,007.68         (12,61.06)         0.00         69,007.68         (12,61.06)         0.00         69,007.68         (12,61.06)         0.00         69,007.68         (12,61.06)         0.00         69,007.68         (12,61.06)         0.00         69,007.68         (12,61.06)         0.00         69,007.68         (12,61.06)         0.00         477,252.00         477,252.00         477,252.00         49,14,71.64           104441-101         Total         2050         USD         USD <td>2100</td> <td>Contractual Services</td> <td>40,987,88</td> <td>(656,333,79)</td> <td>665,842,10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	2100	Contractual Services	40,987,88	(656,333,79)	665,842,10							
Constraint         Constraint <thconstraint< th="">         Constraint         Constrai</thconstraint<>	3000	Train/Fellowship/Study	(987.50)	543.75	32,11	575,66	1,911,21					
Name         Name <th< td=""><td>3500</td><td>International Meetings</td><td>414,95</td><td>0.00</td><td>0.00</td><td>1</td><td></td><td></td><td></td><td></td><td>- 1920</td><td></td></th<>	3500	International Meetings	414,95	0.00	0.00	1					- 1920	
Bodge from Costs         Bodge from Costs <thbodde costs<="" from="" th=""> <thbodde costs<="" from="" t<="" td=""><td>4300</td><td>Premises</td><td>(30.86)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thbodde></thbodde>	4300	Premises	(30.86)									
Number         Total         205,99.00         (654,74.37)         600,0664         26,093.70         4,617,439.40         4,617,439.40         4,437,52.00         179,90.90         477,52.00         4,914,781.64           104044-102.01         1.1PCB Regulation reviewed         USD         USD<	5100	Other Direct Costs	124,223.71				191000000					
Indext-right         Cash         USD         <	9300	Support Cost	0.00	0.00								
Intersection         Intersection<	104044-1-01-01	Total	205,993.60	(654,784.92)	680,868.63	26,083.71	4,617,439.49	4,617,439.49	4,437,529.60	179,909.89	477,252.00	4,914,781.60
Name         Local travel         Local travel <thlocal th="" travel<="">         Local travel</thlocal>	104044-1-02-01	1.1 PCB Regulation reviewed	USD	USD	USD	USD	USD	USD				
Ladie         Latie         Latie <thlatie< th="">         Latie         <thl< td=""><td>1100</td><td>Staff &amp; Intern Consultants</td><td>0.00</td><td>0.00</td><td>0.00</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thl<></thlatie<>	1100	Staff & Intern Consultants	0.00	0.00	0.00							
Nino         Nino <th< td=""><td>1500</td><td>Local travel</td><td>10.09</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	1500	Local travel	10.09									
Linit         Landical ascentes         Loss         Loss <thloss< th=""> <thloss< th="">         Loss<td>1700</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thloss<></thloss<>	1700											
Hands         Data         Data <thdata< th="">         Data         Data         <th< td=""><td>2100</td><td>Contractual Services</td><td>1000</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<></thdata<>	2100	Contractual Services	1000									
Disclose	4300	Premises	0.00									
Note         Note <th< td=""><td>5100</td><td>Other Direct Costs</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	5100	Other Direct Costs										
Ubbell         Ubbell<												
Number of the point o	104044-1-02-01	Total	21.99	0.00	0.00	0.00	284,173.87	284,173.87	284,151-00	21.99	16,330.23	300,302.11
Nat.Consult/Staff         1,872.98         0.09         0.00         0.00         25,986.00         24,123.02         1,872.98         0.00         24,123.02           3000         Train/Feloxat/ip/Staff         0.00         0.00         0.00         242.25         242.25         242.25         0.00         0.00         242.25           5100         Other Direct Costs         9,020.59         0.00         0.00         0.00         9,506.66         9,508.08         445.49         9,020.59         0.00         445.49           9300         Support Costs         0.00         0.00         0.00         0.00         0.00         1(133.60)           18444-1-02-02         Total         37,283.92         0.09         0.09         0.00         6.00         0.00         1(133.60)         24,637.93         37,283.92         (193.60)         24,659.53	104044-1-02-02	1.2 PCB Regulation established	USD	USD	USD	USD	USD	USD	USD	USD	USD	USD
No.         No. <td>1100</td> <td>Staff &amp; Intern Consultants</td> <td>26,390-35</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>26,419.12</td> <td>25,419.12</td> <td>28.77</td> <td>26,390.35</td> <td></td> <td>28.77</td>	1100	Staff & Intern Consultants	26,390-35	0.00	0.00	0.00	26,419.12	25,419.12	28.77	26,390.35		28.77
S100         Offer Direct Cotts         9,020.59         0.00         0.00         9,506.06         9,506.08         445.49         9,020.59         0.00         445.49           3300         Support Cost         0.00         0.00         0.00         0.00         0.00         0.00         0.00         (193.60)	1700	Net-Consult/Staff	1,872.98	0.00	0.00	0.00	25,996.00	25,996.00	24,123.02	1,872.98	0.00	24,123.02
3300         Support Cost         0.00         0.00         0.00         0.00         0.00         0.00         (193.60)	3000	Train/Fellowship/Study	0.00	0.00	0.00	0.00	242.25	242.25	242 25	0.00		242.25
184844-1-02-02 Total 37,283.92 0.09 0.00 0.00 62,163.45 62,163.45 24,878.53 37,283.92 (193.60) 24,685.93	5100	Other Direct Costs	9,020.59	0.00	0.00	0.00	9,506.08	9,506.08	485.49	9,020.59	0.00	485.49
	9300	Support Coal	0.00	0.00	0.00	0.00	0.00	0.00	6-00	0.00	(193-60)	(193-60)
* Does not include Unapproved Obligations	104044-1-02-02	Total	37,283.92	0.00	0.09	0.00	62,163.45	62,163.45	24,879.53	37,283.92	(193.60)	24,685.93
	* Does not inclu	de Unapproved Obligations				,						

UNIDO	PROJECT DELIVER	Y REPORT	Project:	SOUND	104044 - ENVIRONMENTALLY SOUND MANAGEMENT AND FINAL DISPOSAL OF PCBS IN INDIA		hager: Carme Center		lidity:	18.01.2010 - 31 Implement	12.2022
Reporting Period:	18.01.2010 - 30.06.2022		Project Them	e: Energy a	ind Environment	Country:	India	Region		Asia and Pacific	
Sponsor Nr.	Sponsor		Grant	Grant D	escription	Fund	Curre	ncy Grant Stat	15	Grant Validity	
100150	GEF - Global Environment Facility		200000250	GFIND1	0001	GF	USD	Authority to	implement	18.01.2010 - 31	12.2022
	CARLES AND	al and	Curren	nt Year		A		Cumulative	to Date	Section of the sectio	
	Description	Released Budget Current Year (a)	Obligations Current Year (b)	Disbursements Current Year (c)	Expenditures Current Year (d=b+c)	Total Agreement Budget (e)	Released Budget (f)	Obligations + Disbursements (g)	Funds Available* (h=f-g)	Support Cost (i)	Total Expenditures (j≊g+i)
104044-1-02-03	1.3 PCB Regulations implemented	USD	USD	USD	USD	USD	USD	USD	USD	USD	USD
1100	Staff & Intern Consultants	0.00	0.00	0.00	0.00	9,541.36	9,541.36	9,541.36	0.00	0.00	9,541.36
1500	Local travel	20,000.00	0.00	0.00	0.00	20,000.00	20,000.00	0.60	20,000.00	0.00	0.00
1700	Nat.Consult./Staff	11,891,26	10,595.48	0.00	10,595.48	29,614.81	29,614.81	28,319.03	1,295,78	0.00	28,319.03
3000	Train/Fellowship/Study	25,000.00	0.00	0.00	0.00	25,000.00	25,000.00	0.00	25,000,00	0.00	0.00
5100	Other Direct Costs	3,784,12	0.00	0.00	0,00	5,396.01	5,396.01	1,611.89	3,784.12	0.00	1,611.89
9300	Support Cost	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,965.54	1,965.54
104044-1-02-03	Total	60,675.38	10,595.48	0.00	10,595.48	89,552.18	89,552.18	39,472.28	50,079.90	1,965.54	41,437.82
104044-1-02-04	1.4 ESM Guidelines	USD	USD	USD	USD	USD	USD	USD	uso	USD	USD
1100	Staff & Intern Consultants	17,520.39	0.00	0.00	0.00	17,520.39	17,520.39	0.00	17,520.39	0.00	0.00
1500	Local travel	20,000.00	0.00	0.60	0.00	20,000.00	20,000.00	0.00	20,000.00	0.00	0.00
1700	Nat.Consult./Staff	\$0,000.00	0.00	0.00	00.0	11,919.57	11,919.57	1,919.57	10,000.00	0.00	1,919.57
000	Train/Fellowship/Study	20,000.00	0.00	0.00	0.00	20,000.00	20,000.00	0.00	20,000.00	0.00	0.00
5100	Other Direct Costs	620.72	0.00	0.00	0,00	1,854.92	1,854.92	1,234.20	620.72	0.00	1,234.20
3300	Support Cost	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	323.26	323.26
104044-1-02-04	Total	68,141.11	0.00	0.00	6.00	71,294.88	71,294.88	3,153,77	68,141.11	323.26	3,477.03
104044-1-03-01	2.1 Evaluation of Capacity	USD	USD	USD	USD	USD	USD	USD	USD	USD	USD
1500	Local travel	13,409.32	0.00	1,379.65	1,379.65	15,000.00	15,000.00	2,970.33	12,029.67	0.00	2,970.33
1700	Nat.Consult./Staff	11.65	0.00	0.00	0.00	20,213.38	20,213.38	20,201.73	11.65	0.00	20,201.73
2100	Contractual Services	0.00	0.00	0.00	0.00	49,049.65	49,049.65	49,049.65	0.00	0.00	49,049.65
4300	Premises	0.00	0.00	0.00	0.00	40.50	40.50	40.50	0.00	0.00	40.50
5100	Other Direct Costs	17,416.87	(300.00)	308.45	8.45	19,904.44	19,904.44	2,496.22	17,408.22	0.00	2,496.22
3300	Support Cost	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7,662.73	7,662.73
104044-1-03-01	Total	30.837,64	(300.00)	1,688,10	1,388,10	104,207,97	104,207,97	74,758,43	29,449,54	7,662.73	82,421.16

\* Does not include Unapproved Obligations

UNIDO	PROJECT DELIVERY REPORT	Project:	104044 - ENVIRONMENTALLY SOUND MANAGEMENT AND FINAL DISPOSAL OF PCBS IN INDIA	Project Manager:	Carmela Centeno	Project Validity: Status:	18.01.2010 - 31.12.2022 Implement
Reporting Period:	18.01.2010 - 30.06.2022	Project Theme:	Energy and Environment	Country:	India	Région	Asla and Pacific
Sponsor Nr.	Sponsor	Grant	Grant Description	Fund	Currency	Grant Status	Grant Validity
400150	GEF - Global Environment Facility	200000250	GFIND10001	GF	USD	Authority to implement	18.01.2010 - 31.12.2022
	entressieners a Paresser	Current Year	GRADER SURVEY CO	1281023	91. T.S.	Cumulative to Date	

	Description	Released Budget Current Year (a)	Obligations Current Year (b)	Disbursements Current Year (c)	Expenditures Current Year (d=b+c)	Total Agreement Budget (e)	Released Budget (f)	Obligations + Disbursements (g)	Funds Available* (h=f-g)	Support Cost (i)	Total Expenditures (j=g+i)
104044-1-03-02	2.2 Training for stakeholders	USD	USD	USD	USD	USD	USD	USD	USD	USD	USD
1100	Staff & Intern Consultants	0.00	0.00	0.00	0.00	28.77	28.77	28.77	0.00	0.00	28.7
1500	Local travel	18,019.21	(1,067.20)	176.15	(891.05)	26,414.19	26,414.19	7,503.93	18,910.26	0.00	7,503.9
1700	Nat.Consult./Staff	12,670.20	0.00	0.00	0.00	117,557.04	117,557.04	104,886.84	12,670.20	0.00	104,886.8
3000	Trair/Fellowship/Study	66,128.33	0.00	0.00	0.00	71,750.13	71,750.13	5,621.80	66,128.33	0.00	5,621.8
5100	Other Direct Costs	1,925.36	0.00	0.00	0.00	4,549.66	4,549.66	2,624.30	1,925,36	0.00	2,624.3
9300	Support Cost	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11,773.08	11,773.0
104044-1-03-02	Total	98,743.10	(1,067.20)	176.15	(891.05)	220,299.79	220,299.79	120,665.64	99,634.15	11,773.08	132,438.7
104044-1-03-03	2.3 Inventory & Database	USD	USD	USD	USD	USD	USD	USD	USD	USD	USD
1500	Local travel	0.00	0.00	0.00	0.00	9,773.02	9,773.02	9,773.02	0.00	0.00	9,773.0
1700	Nat.Consult./Staff	(314.12)	0.00	0.00	0.00	78,371.28	78,371.28	78,685.40	(314.12)	0.00	78,685.4
2100	Contractual Services	42,977.40	0.00	0.00	0.00	225,738.52	225,738.52	182,761.12	42,977.40	0.00	182,761.1
5100	Other Direct Costs	(198.21)	0.00	0.00	0.00	1,779.96	1,779.96	1,978.17	(198.21)	0.00	1,978.1
9300	Support Cost	0,00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27,715.63	27,715.6
104044-1-03-03	Total	42,465.07	0.00	0.00	0.00	315,662.78	315,662.78	273,197.71	42,465.07	27,715.63	300,913.3
104044-1-03-04	2.4 Analysis & Monitoring	USD	USD	USD	USD	USD	USD	USD	USD	USD	USD
1500	Local travel	0.00	0.00	1,361.69	1,361.69	1,960.75	1,960.75	3,322.44	(1,361.69)	0.00	3,322.4
1700	Nat.Consult./Staff	45,128.60	21,826.88	22,173.29	44,000.17	75,400.21	75,400.21	74,271.78	1,128.43	0.00	74,271.7
2100	Contractual Services	0.00	0.00	0.00	0.00	277,265.00	277,265.00	277,265.00	0.00	0.00	277,265.0
5100	Other Direct Costs	1,117.25	0.00	227.95	227.96	1,171.42	1,171.42	282.13	889.29	0.00	282.1
9300	Support Cost	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36,195.21	36,195.2
104044-1-03-04	Total	46,245.85	21,826.88	23,762.94	45,589.82	355,797.38	355,797.38	355,141.35	656.03	36,195.21	391,336.5

UNIDO	PROJECT DELIVERY		INDIA		Centeno			Project Validity: Status:		12,2022	
Reporting Period:	18.01.2010 - 30.06.2022		Project Them	ie: Energy a	and Environment	Country:	India	Region		Asia and Pacific	
Sponsor Nr.	Sponsor		Grant	Grant D	escription	Fund	Currer	ncy Grant Stat	us	Grant Validity	
400150	GEF - Global Environment Facility		200000250	GFIND1	0001	ĢF	USD	Authority Io	implement	18.01.2010 - 31	12,2022
	and the state of the		Curren	vt Year		1. S. 1. 1. 1.		Cumulative	to Date	TRANSIE SE	10000
	Description	Released Budget Current Year (a)	Obligations Current Year (b)	Disbursements Current Year (c)	Expenditures Current Year (d=b+c)	Total Agreement Budget (e)	Released Budget (1)	Obligations + Disbursements (9)	Funds Available* (h=f-g)	Support Cost (i)	Total Expenditures (j=g+l)
104044-1-03-05	2.5 Awareness raising	USD	USD	USD	USD	USD	USD	USD	USD	USD	USD
1500	Local travel	12.56	0.00	0.00	0.00	15,604,66	15,604,66	15,592,10	12.56	0,00	15,592,10
1700	Nat.Consult./Staff	0,00	0,00	0.00	0,00	33,984,54	33,964.54	33,984.54	0.00	0.00	33,984,54
2100	Contractual Services	872,03	0.00	0.00	0.00	157,493,84	157,493,84	156,621,81	872,03	0,00	156,621,8
5100	Other Direct Costs	0.00	0.00	0.00	0.00	2,014,17	2,014,17	2,014,17	0.00	0.00	2,014.1
9300	Support Cost	0.00	0.00	0.00	0.00	0.00	0,00	0.00	0.00	21,192,36	21,192,3
104044-1-03-05	Total	884.59	0.00	0.00	0.00	209,097.21	209,097.21	208,212.62	884.59	21,192.36	229,464.9
104044-1-04-01	3.1 ESM of PCBs	USD	USD	USD	USD	USD	USD	usp	USD	USD	USD
1100	Staff & Intern Consultants	0.00	0.00	0.00	0.00	36,755,86	36,755,86	36,755,86	0.00	0.00	36,755.8
1500	Local travel	0.00	0.00	0.00	0.00	35,173.00	35,173.00	35.173.00	0.00	0.00	35,173,0
1700	Nat.Consult./Staff	0.00	0,00	0.00	0.00	219,645.00	219,645.00	219,645,00	0.00	0.00	219,645.0
2100	Contractual Services	0.00	0.00	0.00	0.00	1,069,141.26	1,069,141.26	1,069,141.26	0.00	0.00	1,069,141.2
3000	Train/Fellowship/Study	0.00	0.00	0.00	0.00	(4,281.63)	(4,281.63)	(4,281,63)	0.00	0.00	(4,281.63
4500	Equipment	(7.89)	0.00	0.00	0.00	42,856,35	42,856.35	42,864,24	(7.89)	0.00	42,864,2
5100	Other Direct Costs	0.00	0.00	0.00	0.00	2,676.82	2,676,82	2,676,62	0.00	0.00	2,676.8
9300	Support Cost	0.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00	142,351,05	142,351,0
104044-1-04-01	Total	(7.89)	0.00	0.00	0.00	1,401,966.66	1,401,966.66	1,401,974.55	(7.89)	142,351.05	1,544,325.6
104044-1-05-01	4.1 ESM in 13 States	USD	USD	USD	USD	USD	USD	USD	USD	USD	USD
1100	Staff & Intern Consultants	668,15	0.00	0.00	0.00	26,320,23	26,320.23	25,452.08	868.15	0.00	25,452.0
1500	Local travel	1,772.05	0.00	0.00	0.00	7,125.00	7,125.00	5,352.95	1,772.05	0.00	5,352.9
1700	Nat.Consult./Staff	(92.46)	0.00	0.00	0.00	39,782.41	39,782.41	39.874.87	(92.46)	0.60	39,874,8
2100	Contractual Services	2,048.38	0,00	0.00	0.00	85,041,38	85,041-38	82,993.00	2,048.38	0.00	82,993.0
3500	International Montings	0.00	0.00	0.00	0.00	363.34	363.34	363,34	0,00	0.00	363.3
4300	Premises	4,641.24	0.00	6.00	0.00	18,599.96	18,599.96	13,958,72	4,641.24	0.00	13,958.7
5100	Other Direct Costs	535.36	0.00	0.00	0.00	6,209,12	6,209.12	5,673,76	535,36	0.00	5,673,7
9300	Support Cost	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	17,801.06	17,801.0
104044-1-05-01	Total	9,772.72	0.00	0.00	0.00	183,441.44	183,441,44	173,668.72	9,772.72	17.801.06	191,469.7

\* Does not include Unapproved Obligations

UNIDO	PROJECT DELIVERY	REPORT	Project:	SOUND	- ENVIRONMENTALLY MANAGEMENT AND ISPOSAL OF PCBS IN		nager: Carmel Conten		ilidity:	18.01.2010 - 31 Implement	.12.2022
Reporting Period:	18.01.2010 - 30.06.2022		Project Theme: Energy		Energy and Environment		India	Region		Asia and Pacific	
Sponsor Nr.	Sponsor		Grant	Grant D	escription	Fund	Currer	ncy Grant Stat	us	Grant Validity	
400150	GEF - Global Environment Facility		200000250	GFIND1	0001	GF	USD	Authority to	mplement	18.01.2010 - 31	.12.2022
	STREET, ACCOUNTS		Curren	nt Year		Service -	1.000	Cumulative	e to Date	1 Stan 1	
	Description	Released Budget Current Year (a)	Obligations Current Year (b)	Disbursements Current Year (c)	Expenditures Current Year (d=b+c)	Total Agreement Budget (e)	Released Budget (f)	Obligations + Disbursements (g)	Funds Available* (h=f-g)	Support Cost (i)	Total Expenditures (j=g+i)
104044-1-05-02	4.2 Interim Storage and Transport	USD	USD	USD	USD	USD	USD	USD	USD	USD	USD
1500	Local travel	1,704,79	0.00	0.00	0.00	5,308.97	5.308.97	3,604.18	1,704.79	0.00	3,604.1
1700	Nat.Consult./Staff	4,479.13	(0.01)	0.00	(0.01)	6,720.59	6,720.59	2,241.45	4,479,14	0.00	2,241.4
2100	Contractual Services	0.00	0.00	0.00	0.00	279,577.91	279,577.91	279,577.91	0,00	0.00	279,577.9
5100	Other Direct Costs	(100.80)	0.00	0.00	0.00	141.04	141.04	241.84	(100.80)	0.00	241.8
9300	Support Cost	0.00	0,00	0,00	0.00	0,00	0.00	0.00	0.00	29,280.68	29,280.6
104044-1-05-02	Total	6,083.12	(0.01)	0.00	(0.01)	291,748.51	291,748.51	285,665.38	6,083.13	29,280.68	314,946.0
104044-1-05-03	4.3 Final ESM Treatment	USD	USD	USD	USD	USD	USD	USD	USD	USD	USD
1100	Staff & Intern Consultants	1,280.41	0.00	0.00	0.00	1,280.41	1,280.41	0.00	1,280.41	0.00	0.0
2100	Contractual Services	378,588.97	(432,234.14)	411,088,72	(21,145.42)	5,331,912.93	5,331,912.93	4,932,178.54	399,734.39	0.00	4,932,178.5
3000	Train/Fellowship/Study	48,826.07	0.00	0.00	0.00	48,826.07	48,826.07	0.00	48,826.07	0.00	0.0
3500	International Meetings	0.00	0.00	0.00	0.00	97.80	97.80	97.80	0.00	0.00	97.8
5100	Other Direct Costs	75.64	0.00	0.00	0.00	885.00	885.00	809.36	75.64	0.00	809.3
1300	Support Cost	0.00	0.00	00.0	0.00	0.00	0.00	0.00	0.00	505,641.29	505,641.2
104044-1-05-03	Total	428,771.09	(432,234.14)	411,088.72	(21,145.42)	5,383,002.21	5,383,002.21	4,933,085.70	449,916.51	505,641.29	5,438,726.9
104044-1-06-01	5.1 Establish Project Management Struct.	USD	USD	USD	USD	USD	USD	USD	USD	USD	USD
1100	Staff & Intern Consultanta	38.52	0.00	0.00	0.00	38.52	38.52	0.00	38.52	0.00	0.0
1700	Nat.Consult./Staff	13,510.10	5,121.54	7,016.92	12,138.46	106,011.31	105,011.31	104,639.67	1,371.64	0.00	104,639.6
3000	Train/Fellowship/Study	0.00	0.00	0.00	0.00	58.47	58.47	58.47	0.00	0.00	58.4
4300	Premises	0.00	0.00	0.00	0.00	24,769.92	24,769.92	24,769.92	0.00	0.00	24,769.9
\$500	Equipment	0.00	0.00	0.00	0.00	938,13	938.13	938.13	0.00	0.00	938,1
5100	Other Direct Costs ·	49.74	0.00	248.58	248.58	(5,934.13)	(5,934.13)	(5,735.29)	(198.84)	0.00	(5,735.29
3300	Support Cost	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9,135.68	9,135.6
104044-1-06-01	Total	13,598.36	5,121.54	7,265.50	12,387.04	125,882.22	125,882.22	124,670.90	1.211.32	9,135.68	133,806.5

y and Environment Description 510001 Expenditures Current Year (detbec) 0 0.000 2 20,916.04 0 0.000 2 20,916.04 0 0.000 0 2,000 0 2,1,121.81 USD 0 0.000 0 0.000 0 2,1,121.81 USD 0 0.000 0 0.0000 0 0.000 0 0.0000 0	Country: Fund GF Total Agreement Budget (e) 055 42 162,303,26 272,35 132,633,67 6,522,76 1,522,63 1,532,532,53 1,532,532,53 1,532,532,532,53 1,532,532,532,532,532,532,532,532,532,532	India Currer USD USD USD 085.42 192.930.36 192.930.37 6.522.76 1,552.89 0,00 303,970.5		o implement	Asis and Pacific Grant Validity 18.01.2010 - 31 Support Cost (0) 0.00 0.00 0.00 0.00 0.00 0.00 0.00	12.2022 Total Expenditures (J=q+1) USD 685.42 159.467.57 272.35 130.688.50 6,522.76 1,758.46 30.409.92
Expenditures Current Year (dethe)           USD           0         0.00           2         2.0,916.04           0         0.00           0         0.00           0         0.00           0         0.00           0         0.00           0         0.00           0         0.00           0         0.00           0         205.71           0         0.00           0         0.00	GF Total Agreement Budget (e) USD 655.42 162.303.63 272.35 132.633.67 6.522.76 1.552.69 0.00 303.970.15	USD Released Budget (n) USD 685.42 162,303.26 172,363.67 6.522.76 1,552.69 1,552.69 0.00 303,370.15	Authority te Cumulative Disbursements USD 685.42 159.467.57 272.35 130.986.50 6.522.76 1.758.46 0.00	e to Date Funds Available* (N#F-g) 0.00 2,835.69 0.00 1,935.17 0.00 (205.77) 0.00	18.01.2010 - 31. Support Cost () USD 0.00 0	Total Expenditurss (J=9+1) USD 685.42 159.467.57 272.35 130.698.20 6.522.76 1,758.46 30.409.92
Expenditures Current Year (debre) USD 0 0.00 2 20,310.04 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 21,121.81 USD 0 0.00	Total Agreement Budget (e) USD 655.42 162,303.66 272.35 132,833.67 132,835.67 132,835.67 132,835.67 132,835.67 132,855.67 132,855.67 132,855.67 132,855.67 14,955.7514,955.75 14,955.75 14,955.7514,955.75 14,955.75 14,955.7514,955.75 14,955.7515 14,955.75 14,955.7515 14,955.75 14,955.7515 14,955.75 14,955.7515 14,955.75 14,955.7515 14,955.75 14,955.7515 14,955.75 14,955.7515 14,955.7515 14,955.75 14,955.7515 14,955.75 15,955.7515 14,955.75 14,955.7515 14,955.75 14,955.7515 14,955.75 14,955.7515 14,955.75 14,955.7515 14,955.75 15,955.7515 15,955.75 15,955.7515 15,955.75 15,955.7515 15,955.7515 15,955.75 15,955.7515 15,955.7515 15,955.7515 15,955.7515 15,955.75 15,955.7515 15,955.7515 15,955.7515 15,955.75 15,955.7515 15,955.7515 15,955.75 15,955.7515 15,955.7515 15,955.75 15,955.7515 15,955.7515,955.75 15,955.7515,955.7515,955.75 15,955.7515,955.7515,	Released Budget (f) USD 685.42 192.63.67 6.522.76 1.552.69 0.00 303,376.15	Cumidative Obsidurements (g) USD 685.42 159.467.57 1272.35 130.698.00 6.522.78 1,758.46 0.00	e to Date Funds Available* (hef-g) USD 0.00 2,835.69 0.00 1,935.17 0.00 (205.77) 0.00	Support Cost (1) USD 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Total Expenditurss (J=9+1) USD 685.42 159.467.57 272.35 130.698.20 6.522.76 1,758.46 30.409.92
Current Year (dethec) USD 2 20,916.04 0 0.00 0 0.00 0 0.00 7 205.77 0 0.00 9 21,121.81 USD 0 0.00	Agreement Budget (e) USD 685.42 162.303.26 272.35 132,633.67 6,522.76 1,552.69 0.00 303,970.15	Budget (f) USD 685.42 162.303.26 272.35 132.633.67 6.522.76 1.552.89 0.00 303.870.15	Obligations + Disbursements (y) USD 685.42 159,467.57 272,35 130,696.60 6,522.76 1,758.46 0,00	Funds Available" (terg) USD 0.00 2,835.69 0.00 1,935.17 0.00 (205.77) 0.00	0) USD 0.00 0.00 0.00 0.00 0.00 0.00 0.00 30,409.92	Expenditures (J=g+I) USD 685.42 159.467.57 272.35 130.698.50 6.522.76 1,758.46 30.409.62
Current Year (dethec) USD 2 20,916.04 0 0.00 0 0.00 0 0.00 7 205.77 0 0.00 9 21,121.81 USD 0 0.00	Agreement Budget (e) USD 685.42 162.303.26 272.35 132,633.67 6,522.76 1,552.69 0.00 303,970.15	Budget (f) USD 685.42 162.303.26 272.35 132.633.67 6.522.76 1.552.89 0.00 303.870.15	Disbursements (9) USD 685,42 159,467,57 272,35 130,698,50 6,522,76 1,758,46 0,00	Available" (hst-g) USD 0.00 2,835.69 0.00 1,935.17 0.00 (205.77) 0.00	0) USD 0.00 0.00 0.00 0.00 0.00 0.00 0.00 30,409.92	Expenditures (j=g+i) USD 685.42 159.467.57 272.35 130,698.50 6,522.76 1,758.46 30,409.92
0 0.00 2 20,916.04 0 0.00 0 0.00 0 0.00 7 206.77 0 0.00 9 21,121.61 USD	685.42 162.303.26 272.35 132.633.67 6.522.76 1.552.69 0.00 <b>303,970.15</b>	685.42 162,303.26 272.35 132,633.67 6.522.76 1,552.69 0.00 <b>303,970.15</b>	685,42 159,467,57 272,35 130,898,50 6,522,76 1,758,46 0,00	0.00 2,835.59 0.00 1,935.17 0.00 (205.77) 0.00	0.00 0.00 0.00 0.00 0.00 0.00 30,409.92	685.42 159.467.67 272.35 130,696.50 6,522.76 1,758.46 30.409.92
2 20,916.04 0 0.00 0 0.00 0 0.00 7 205.77 0 0.00 9 21,121.81 USD 0 0.00	162,303,26 272,35 132,633,67 6,522,76 1,552,69 0.00 <b>303,970,15</b>	162,303.26 272.35 132,633.67 6,522.76 1,552.69 0.00 <b>303,970.15</b>	159,467,57 272,35 130,698,50 6,522,76 1,758,46 0,00	2,835.69 0.00 1,935.17 0.00 (205.77) 0.00	0.00 0.00 0.00 0.00 0.00 30,409.92	272.35 130,698,50 6,522.76 1,758.46
0 0.00 0 0.00 5 0.00 7 205.77 0 0.00 9 21,121.81 USD 0 0.00	272.35 132,633.67 6,522.76 1,552.69 0.00 <b>303,970.15</b>	272.36 132,633.67 6,522.76 1,552.69 0.00 <b>303,970.15</b>	272.35 130,698.50 6,522.76 1,758.46 0.00	0.00 1,935.17 0.00 (205.77) 0.00	0.00 0.00 0.00 0.00 30,409.92	272.35 130,698.50 6,522.76 1,758.46 30,409.92
0 0.00 0 0.00 7 205.77 0 0.00 9 21,121.81 USD 0 0.00	132,633.67 6,522.76 1,552.69 0.00 <b>303,970.15</b>	132,633.67 6,522.76 1,552.69 0.00 <b>303,870.15</b>	130,698.50 6,522.76 1,758.46 0.00	1,935.17 0.00 (205.77) 0.00	0.00 0.00 0.00 30,409.92	130,698,50 6,522,76 1,758,46 30,409.92
0 0.00 7 205.77 0 0.00 9 21,121.81 USD 0 0.00	6,522.76 1,552.69 0.00 <b>303,970.15</b>	6.522.76 1,552.69 0.00 <b>303,970.1</b> 5	6,522.76 1,758.46 0.00	0.00 (205.77) 0.00	0.00 0.00 30,409.92	6,522.76 1,758.46 30,409.92
7 205.77 0 0.00 9 21,121.81 USD 0 0.00	1,552.69 0.00 303,970.15	1,552.69 0.00 <b>303,970.15</b>	1,758.46 0.00	(205.77) 0.00	0.00 30,409.92	1,758.46 30,409.92
0 0.00 9 21,121.81 USD 0 0.00	0.00 303,970.15	0.00 303,970.15	0.00	0.00	30,409.92	30,409.92
21,121.81 USD 0 0.00	303,970.15	303,970.15				
USD 0.00			299,405.06	4,565.09	30,409.92	329,814.98
0.00	USD					
		USD	USD	USD	USD	USD
	64,936.84	64,936.84	24,617.44	40,319.40	0.00	24,617.44
0.00	6,850.41	6,850.41	(0.35)	6,850.76	0.00	(0.35)
0.00	8,447.26	8,447.26	8,447.26	0.00	0.00	8,447.26
0.00	65.30	65.30	65,30	0.00	0.00	65,30
0.00	0.00	0.00	0.00	0.00	3,395.81	3,395,81
0.00	80,299.81	80,299.81	33,129.65	47,170.16	3,395.81	36,525.46
3 95,129.48	14,100,000.00	14,100,000.00	13,072,762.77	1,027,237.23	1,338,251.93	14,411,014.70
95,129,48	14,100,000.00	14,100,000.00	13,072,762.77	1,027,237.23	1,338,251.93	14,411,014.70
	0.00 3 95,129.48	0 0.00 80,299.81 3 95,129.48 14,100,000.00	0         0.00         80,299.81         80,299.81           3         95,129.48         14,100,000.00         14,100,000.00	0 0.00 80,299.81 80,289.81 33,129.65 3 95,129.48 14,100,000.00 14,100,000.00 13,072,762.77	0.00         80,299.81         80,299.81         33,129.65         47,170.16           3         95,129.48         14,100,000.00         14,100,000.00         13,072,762,77         1,027,237.23	0         0.00         80,299.81         80,299.81         33,128.65         47,170.16         3,395.81           3         95,129.48         14,100,000.00         13,072,762.77         1.027,237.23         1,338,251.93

# IX. Work Plan and Budget

1. Please provide **an updated project work plan and budget** for <u>the remaining duration of the project</u>, 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		20	22			2023				20	)24	GEF Grant Budget Available	
Component	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	(US\$)
Component 1 –	-	-					-	-		-			
Outcome 1:													
Output 1.1:													
Output 1.2:													
Component 2 –													
Outcome 2:													
Output 2.1:													
Output 2.2:													
Component 3 –													
Outcome :													
Output 3.1:													
Output 3.2:													

Component 4 -													
Outcome 4: Regional capabilit	y for fi	nal tre	atmer	nt and	dispo	sal of	PCBs,	PCB-	contai	ning e	quipm	ent ar	ndwastes
Output 4.1 Management system for identification, tracking, collection, packaging, transport, interim storage, record keeping, and disposal of PCBs, PCB-containing equipment and wastes developed and operational	Ø	Ø	Ø	X									
Output 4.2 ESM and transport to interim storage sites of PCB- containing materials incl. specialized transport vehicles for highly concentrated PCBs with GPS and adequate preparedness measures in case of emergency on transport routes to stationary disposal unit carried out													
Output 4.3 Final ESM treatment of at least 7,700 tons of PCBs, PCB-containing equipment and PCB-contaminated oil and wastes undertaken		M			⊠	⊠	⊠	⊠		⊠		X	
Component 5 -													
Outcome 5: Project Manageme	Outcome 5: Project Management and monitoring and evaluation												
Output 5.1 Project management structure established	⊠	⊠	Ø	⊠									
Output 5.2 An M&E mechanism designed and implemented according to GEF M&E procedures	⊠		Ø	Ø									

# 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.

## 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.

## **EXPLANATORY NOTE**

- 1. Timing & duration: Each report covers a twelve-month period, i.e. 1 July 2021 30 June 2022.
- 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 Envi	ronmental 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 shortcomingsor 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 most 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 access 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 <b>75%</b> 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 <b>51%</b> and <b>75%</b> 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.