User Manual Environmental Permitting in Egypt

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1. Introduction

Environmental Permit (EP) is a **legal contractual agreement** used to ensure compliance with the environmental standards and stated performance criteria. In many countries across the world, EP has been primarily introduced for the following purposes:

- 1. Regulate specific activities or process for discharge of emissions released in the environment
- Prescribe environmental performance of specific activity/process addressing emissions to specific environmental media like air, water, soil, hazardous wastes, and other waste streams
- 3. Conduct scientific and technical appraisal based on sectoral benchmarks, material balance technique and checking adequacy of pollution control systems
- 4. Renew EP after specific period after verifying compliance to expected environmental performance
- 5. Achieve competitiveness through continued compliance

Currently, Egypt does not have a EP system. Egyptian Environmental Affairs Agency (EEAA) is considering introducing the EP system through a Pilot application. Accordingly, an online application has been developed. This User Manual is intended to guide the industries in making an application for EP and receive EP from EEAA.

2. Why should Egypt Implement EP?

Some of the distinct advantages of EP scheme in Egyptian context would be as under:

- EIA approval sets source specific emission standards. In case of industrial clusters and also, if the industry is located in an ecological sensitive area, then there is no provision of setting site specific standards which could be more stringent than the specific source specific standards. EP would allow EEAA to adopt location specific emission standards or setting allowable total emission loads for the region/industrial clusters based on carrying capacity approach and also, considering the ecological sensitivity of the area.
- 2. Presently there is no sector specific approach or review of industries for improved environmental performance and to promote cleaner production strategies. EP process permits to take review of technologies used for production, pollution control systems and recommend cleaner technologies as covenants. This will help in the ecological modernization of the sector and bring industries on a common platform to achieve improved environmental performance. EP will lead to more resource efficient cleaner production (via environmental benchmarking) thus improving the competitiveness of industries.

- 3. EP would cover details of industrial processes and identify the major pollutants. This would allow the EEAA to identify major and critical pollutants for suitable action plans. EP would also cover the details of various waste generated for its type, quality, and quantity. This would give realistic data and opportunity for various options of waste utilisations, reuse, recycle and co-processing etc improving the overall compliance. This would facilitate compliance for industries in competitive and convenient manner. EP thus helps in setting circular economy for the region
- 4. Presently, there is no real time data on the status of industries in terms of production systems, pollution control systems and also, environmental performance. Similarly, there is no data or information on overall pollution load on spatial scale, to deal with area pollution complaints and implementation of environmental improvement action plans. EP can provide such information in a consolidated format enabling EEAA to strategically design the action plans and more importantly assess the effectiveness of interventions.
- 5. EIA approval (leading to Environmental Management Plan (EMP) and later in operation Corrective Action Plan (CAP) are presently two separate and distinct processes and are dealt separately. Moreover, the enforcement of EIA approval is also weak resulting in inadequate inspections to check implementation of the CAP. EP can integrate the CAP/EMP and, ensure timely and regular inspections to ensure time bound implementation of the CAP. The EP would ensure the better compliance of CAP/EMP as it is integrated in EP and also, linked to fiscal guarantees to ensure time bound improvements and performance.
- 6. EIA system and enforcement do not generate sufficient funds and resources to accomplish the mandate given to EEAA by the Law. The EP generate revenue based on polluter pays principle which can be effectively used by EEAA for resource strengthening (manpower, infrastructure, laboratories), research and technology development, environmental monitoring, common environmental infrastructure, public awareness, and information dissemination.

3. Benefits of Environmental Permit in the Context of Egypt

Based on Section 2.0 following benefits of the EP system may be summarized:

- 1. Improved inspection, monitoring and enforcement of industries
- 2. Continued compliance by industries
- 3. Integration of CAP/EMP in enforcement (tagged with fiscal guarantees) to ensure timely and effective compliance as well as Environmental Management Plans (EMP) as specified in EIA clearance
- 4. Ensuring sectoral enforcement strategies and achieving competitive benchmarks
- 5. Effectively addressing local or regional hot spots

- 6. Generate funds to support Egyptian Environmental Affairs Agency (EEAA) functions, inspections and monitoring, research, technology support and awareness
- 7. Create database on pollution load, enabling development of strategies, policies and action plans for drawing/strengthening policies and environmental governance

4. A Strategic Approach in Developing Online System

One of the primary objectives of EP process is to develop a database on the various industrial sectors and their performance for the compliance of environmental standards and the best practices followed by such sectors. EP process is an intensive scientific and technical appraisal. A manually operated process will face issues related to data collection and interpretation and consistency in appraisal criteria, besides significant time taken to apprise and arrive at a decision on the applications received. Many of these challenges can be addressed if an online system is developed for processing EP which will not only make the entire process objective, transparent, but also efficient.

Making the entire EP process online however is not an easy task. It will require creating a database of industries and then define the process flow involved in the appraisal process so that the process can be captured online. Several countries like India, UK and Philippines have adopted such online practices. However, these countries have taken long time to transition to the online systems considering the complexity of EP appraisal process and diversity of the industrial operations. The important and critical stage of roll out of EP is to design the EP application form which should be comprehensive enough but at the same time it should not be cumbersome for small and low risk industries to fill in. Piloting of EP will lead to streamlining the data collection, review, and decision-making process at EEAA. Experience on pilot will also help in understanding any challenges that may be faced.

Operating a pilot first and then gradually expanding its scope has been therefore considered as strategy for implementing EP in Egypt. However, while the pilot should be considered as a first step towards the roll out, the entire system development should be kept in mind so that it will allow a gradual but seamless development process without major software engineering.

5. Software Platform and Data Flow in the Pilot Online EP System

For the purpose of rapid prototyping, software development platform such as Joomla¹ has therefore been selected. This system allows for open-source integration, ability to expand on a modular basis and scale up with robust database management systems. Further, this system allows receiving the online application forms with necessary validation as well as ability for the

¹ https://www.joomla.org/

administrator (EEAA) to make queries and generate reports by industry sectors and geographical location etc. More importantly, the system allows preparation of customized permits based on a compendium of conditions that will have to be met.

All industries applying for the permit will have to through a secured registration process on EEAA's portal. The registration will get validated. This will ensure data and user security and eliminate any data related vandalism. EEAA may create a new page on EP Pilot on EEAA's website. This data received through EP application will be stored in a master database. See **Figure 1.**



Figure 1: Information and Decision Flow for the User (Industry) in the Pilot EP System

6. Scope of Proposed Environmental Permit

Generally, following aspects are covered in proposed EP application form:

- 1. General Information
- 2. Industry Production Details
- 3. Air Pollution Control
- 4. Water and Wastewater details
- 5. Hazardous Waste
- 6. Hazardous Chemicals
- 7. Non-Hazardous Solid Waste
- 8. Compliance related information
- 9. Beyond Compliance related information

Figure 2 shows the distribution of data elements for the EP

General Information 32 data elements to be filled	Industry Production Details 5 data elements to be filled	Air Pollution Control 10 data elements to be filled
Water and Wastewater details 13 data elements to be filled	Hazardous Waste 12 data elements to be filled	Hazardous Chemicals 1 data element to be filled
Non-Hazardous Solid Waste 3 data elements to be filled	Compliance related information 6 data elements to be filled	Beyond Compliance related information 4 data elements to be filled

Figure 2: Distribution of Data Elements for EP

Considering that the legal mandate of EEAA on waste management and controlling wastewater discharges overlaps with other ministries and authorities, it is proposed to limit the pilot EP to air emissions. However, in order to help in obtaining a comprehensive multimedia assessment, User is expected to provide information on all media including wastewater, discharges, hazardous and non-hazardous wastes. The scope of issuing the environmental permit can always be extended to other media at a later date.

Hence, while the data on pollution and compliances will be captured for all the industries, the EP as shown in Phase I will be limited only to the granting of **Permit for Air Pollution (PAP)**. The pilot may target Issuance of PAPs to 25 participating air polluting industries. While cement industries could be the focus, other industries such as fertilisers, ceramics and iron and steel may also like to participate. There is also a distinct advantage with many of these industries as their stacks have continuous emission monitoring systems and data is continuously transmitted to EEAA on real time basis.

7. Participation in Pilot is Entirely Voluntary with No Legal Implication

Users of the Pilot EP system are assured that the PAP issued under Pilot EP pilot would be entirely non-regulatory in nature with no legal implications such as prosecution. Further, the data collected through EP application will be kept confidential. As an incentive, the participating industries may be allowed to use the logo of EP pilot for the first 2 years to appreciate their cooperation.

8. Filling up and Submitting the EP Application Form

Annexure A provides details regarding each of the 86 data elements organized in 9 categories as listed in Section 6. Explanation to various data elements or "fields" have been provided.

- 8.1 Loggin in
- 8.2 English/Arabic Switch
- 8.3 Understanding the Data Entry Screen (need screen capture)
- 8.4 Save, Save Draft, Submit buttons, Online help text
- 8.5 Alphanumeric Data entry validation
- 8.6 Check points
- 8.7 Watch the units asked, Answer what is applicable, Upload attachments as requested

9. Accessing the Knowledge Centre

Links to reference reading materials has been provided under the tab of 'knowledge centre'. This includes International Finance Corporation's (IFC) Performance Standards, The World Bank Group's General and Sector-specific EHS guidelines and US EPA's Best Available Technology (BAT) notes.

10. Understanding the PAP Received and Plan of Actions to be taken

Once the application for the PAP has been submitted, the Administrator at the EEAA will do review to check completeness of the form and may request the applicant to provide missing information.

Once the application is complete, the Administrator will issue a permit stipulating general and specific conditions. Subject the compliance to the conditions stated, the PAP will be valid. This assessment will be carried out by the monitoring and enforcement unit at the RBOs.

While stating the conditions to PAP, the Administrator will take note of the EMP and CAP. However standard general and specific conditions that may be stipulated are as below.

General Conditions

1. The industry shall duly inform any change in official e-mail address/phone and/or contact person to EEAA/IDA, and in absence of such notification, the communications on the existing contact details will be deemed as complete for legal compliances.

- 2. The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the EEAA. The industry will not carry out any activity, for which this Permit has not been granted/without prior permission of the EEAA/IDA.
- 3. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
- 4. The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 5. The industry shall achieve the National Ambient Air Quality standards prescribed by the Government and/or EEAA as amended from time to time.
- 6. The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the EEAA/IDA Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 7. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof, without compromising the emission standards so specified for the industry.
- 8. The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the Environmental Permit/ EIA approval. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this Permit.
- 9. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to EEAA, concerned Police authorities, Safety department and other government agencies as required by Law. In case of failure of pollution control equipment, the production process connected to it shall be stopped. In case of any potential risk or hazard to surrounding area and population, industry shall take urgent measures to mitigate the impacts and also, inform the concerned government agencies about such risks on top priority.
- 10. The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous Waste regulations of EEAA, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 11. The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.

- 12. The industry shall submit quarterly statement in respect of industries obligation towards Permit and pollution control compliance's duly supported with documentary evidences.
- 13. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 14. The EEAA reserves its rights to review plans, specifications or other data relating to plant set up for the treatment of air emissions for the purification thereof & the system for the air emission discharge. The Applicant shall obtain prior permissions of the EEAA/IDA to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
- 15. The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
- 16. The industry should not cause any nuisance in surrounding area
- 17. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise standards prescribed by EEAA from time to time.
- 18. The EEAA/IDA reserves its rights to vary all or any of the condition in the Permit, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part) is necessary after giving sufficient notice to the industry.
- 19. Conditions for D.G. Set
 - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
 - c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper sitting and control measures.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.

- e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
- f) D.G. Set shall be operated only in case of power failure.
- g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.

20. The energy source for lighting purpose shall preferably be LED based. All required measures for conservation of energy shall be taken by the industry.

- 21. The industry shall create the Environmental Unit and have adequate and appropriate staff for looking after day to day activities related to pollution control and environmental compliance.
- 22. The applicant shall bring minimum 33% of the available open land of the industrial premises under green coverage/ plantation. The applicant shall submit a yearly statement every year on available open plot area, number of trees surviving and number of trees planted.
- 23. An inspection book shall be opened and made available to the EEAA/IDA officers during their visit to the applicant as per the regulations.
- 24. The Industry shall make application for renewal of the permit at least 45 days in advance of the permit validity period.

10.1 Specific Conditions for PAP

- 1. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
- 2. The EEAA reserves its rights to vary all or any of the condition in the Permit, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
- 3. The industry shall provide adequate Air Pollution Control (APCs) to Loading/Unloading/Packing house in plant and operate the same continuously.
- 4. The industry shall provide concrete roads & mist type sprinklers/dust suppression system in raw material storage and handling area.
- 5. The applicant shall operate continues monitoring system for process stack emission analysis & same shall be directly connected to EEAA as well as submit the reports to respective Regional offices regularly, as directed from time to time.
- 6. The applicant shall operate continues automatic ambient air (CAAQMS) and micrometeorological monitoring station at location indicated by EEAA to be set up and operate at its own cost and measure SO₂,NO_x and particulate matter. These CAAQMS shall also have necessary provision of networking to the Air Quality Monitoring of EEAA.
- 7. The Clinker/Gypsum/Ash handling system shall be covered with proper handling and ventilation arrangement connected to dust suppress agent, so as not to allow any fugitive emissions
- 8. There shall not be any fugitive emissions. The industry should not carry any nuisance in surrounding area.
- 9. Industry shall provide continuous flow meters for measurement of the flow of the air.
- 10. The applicant shall close down or de-rate the plant if concentration of emission is found to be exceeding the prescribed limit.
- 11. The EEAA reserves the right to review, amend, suspend, revoke this Permit and the same shall be binding on the industry.

12. This Permit should not be construed as exemption from obtaining necessary NOC/ permission from any other Government authorities.

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
Α	General Information		
1	Name of the Company *	Name of the Company*	Name registered as per the Certificate of Incorporation
	Vear of establishment of Company	Year of establishment of Company*	Date of establishment as per the Certificate of Incorporation (JPEG, PNG, or PDF)
	1900	Certificate of Incorporation	Upload a copy of Certificate of Incorporation with name and date of establishment of the company
	Choose File No file chosen	Tax Registration Number*	A 9 digits tax registration number issued by the Egyptian Tax Authority
	Maximum upload size:		
	32.00 MB		
	Tax Registration Number *		

Annex 1: Help text for Online Environmental Permitting Application Form

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
2	Tax Identification Number Certificate *	Tax Identification Number Certificate*	Upload a copy of Certificate (JPEG, PNG, or PDF)
	Choose File No file chosen	Name of Contact Person (Person responsible for	Name as per a government issued Identity Card
	Maximum upload size:	overall operations of the company) *	
	32.00 MB	Upload ID Proof*	Upload a copy of government issued identity card like passport, national identify card or tax card
	Name of Contact Person (Person responsible for overall operations of the company) *		(JPEG, PNG, or PDF)
	Upload ID Proof *		
	Choose File No file chosen		
	Maximum upload size:		
	32.00 MB		

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
3	Designation of the Contact Person *	Designation of the Contact Person*	Designation at the company
	Lipload an attachment of Resolution of Board or an undertaking *	Upload an attachment of Resolution of Board or an undertaking*	Upload a copy of Resolution of Board or an undertaking (JPEG, PNG, or PDF)
	Choose File No file chosen	Detailed Address of Company Headquarters*	Address as per Certificate of Incorporation
	Maximum upload size:	Governorate*	Please see attachment 1 for list of Governorates
	32.00 MB Detailed Address of Company Headquarters *	GPS coordinates of the Company*	Provide latitude and longitude from Google Maps and Google Map location link of the
		EEAA Regional Office*	Main RBOs: Greater Cairo Middle Delta (Tanta)
	Governorate *		East Delta (Managura)
	- Select Governora 🗢		West Delta (Mansoura)
	GPS coordinates of the company *		Suez Support RBOs:
	EEAA Regional office *		 Behera Sharkia Middle Upper Egypt (Assiut)
	- Select EEAA Kegi 🗧		 South Upper Egypt (Aswan)

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
4		Annual Turnover of the	 Red Sea (Hurghada) Other branches: Qena New Valley Menya Fayoum, Sohag Luxor Past year's Annual Turnover in
	Annual Turnover of the Company for the last Year* (in million Egyptian Pounds) *	Company for the last year* (in million Egyptian Pounds)	million Egyptian Pounds
	- Select Turnover o 🔻	Average Turnover of the	Average from past 3 year's
	Average Annual Turnover of the Company over the past 3 years* (in million Egyptian Pounds) *	Company over the past 3 years* (in million Egyptian Pounds)*	annual turnover in million Egyptian Pounds
		Attach a copy of the	Upload a copy of the
	Attach a copy of the permission/ approval from IDA *	permission/ approval from IDA*	permission/ approval from IDA ((JPEG, PNG, or PDF)
	Choose File No file chosen	Company email ID as submitted to IDA*	Company email ID (As submitted to IDA)
	Maximum upload size:	Alternetive emeil ID*	
	32.00 MB	Contact mobile number as	
	Company email ID as submitted to IDA *	submitted to IDA *	
	Alternative email ID *		
	Contact mobile number as submitted to IDA *		
			Page 16

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
5	Date of most recent EIA approval	Date and copy of most recent EIA approval Copy of most recent EIA approval	Insert Date of Approval Upload a copy of most recent EIA approval (JPEG, PNG, or PDF)
	Copy of most recent EIA approval	Total plot area in square meters*	Total plot area in square meters (as submitted to IDA)
	Choose File No file chosen	Total built area of the industry in square meters as submitted to IDA *	Total built area of the industry in square meters (as submitted to IDA)
	Maximum upload size: 32.00 MB	Total area that can be made available for greenery/green	Upload a copy of industry layout plan indicating
	Total plot area in square meters *	space etc. in square meters	important structures, amenities, storages, effluent pipelines, ETP location, fuel and
	Total built area of the industry in square meters as submitted to IDA *		hazardous chemical storage, effluent discharge

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
			points, etc. (JPEG, PNG, or PDF)
6	Distance of industry from nearest human habitation	Distance of industry from nearest human habitation	Distance in kilometres
	Approximate size of population staying in such habitation	Approximate size of population staying in such habitation	
		Nearest river/sea or main water body	

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
		Approximate distance of the	
		river/ sea or main water	
		body	
7		Distance from Highway	
/	Distance from Highway	Distance from Highway	

* - Mandatory Field Attach a map showing	Jpload a copy of map with
Attach a map showing Uplo	Jpload a copy of map with
Industry layout and layout	ayout (JPEG, PNG, or PDF)
important and/or sensitive	
locations in surrounding	
including habitation, water	
bodies, archaeological	
sites, schools, etc.*	
Number of staff and workers	
on average on daily basis	
(full time staff) ^	
Number of staff and workers	
on average on daily basis	
(contract workers)	be number should be integer
betw	etween 0 to 3

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
8	Shift timings	Shift timings	State start time and end time for each shift
		Do you have a residential area for the employed staff and workers?	
	Shift Name		
		If yes, how much is the population of such a	
	Shift Time	colony?	
	Do you have a residential area for the employed staff and workers?		
	O Yes O No		
	If yes, how much is the population of such a colony?		

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
В	Industry Production Details		
9	Category of Industry *	Category of Industry *	Category as per EIA approval and as per EEAA
	- Select Category o 🗢		classification.
	List up to top 5 products and by-products manufactured with their types i.e., Dyes, drugs etc.	List up to top 5 products and	Give figures corresponding to
		by-products manufactured	maximum installed production capacity and state the unit of measurement (UoM)
		with their types i.e., Dyes,	
	Name of Bradust/Bu aradust	arugs etc.	
	Name of Product/By-product		
	Amount of Product		
	Annual Production Output		
	Units		

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
10	List of raw materials and process chemicals with annual consumption corresponding to above stated production figures, in tones/month or kL/month or numbers/ month *	List of raw materials and process chemicals with annual consumption corresponding to above stated production figures, in tones/month or KL/month or	Give figures corresponding to maximum installed production capacity and state the unit of measurement (UoM)
	Name of Raw Material	numbers/ month* Description of process of	Upload a file with details on
	Annual Raw Material Input Quantity (Numeric Field) *	manufacturing for each of the products showing input, output, quality, and quantity of solid, liquid, and gaseous wastes, if any from each unit	by Flow Sheet and/or Material Balance and Water Balance sheet (JPEG, PNG, or PDF)
	Units * - Select Units -	process.	

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
11		Attach layout of the plant	Upload a copy of plant layout
	Attach layout of the plant indicating the manufacturing units, ETP, waste management, air pollution	indicating the manufacturing	(JPEG, PNG, or PDF)
	control systems, drainage network etc. ^	units, ETP, waste	
	Choose File No file chosen	management, air pollution	
		control systems, drainage	
	Maximum upload size:	network etc.*	
C	Air Pollution Control		
С	Air Pollution Control		

Sr.	EPAPIII Portal		Question for Form (2)	Help Text (6)
			* - Mandatory Field	
12	General Information	Fuel used (type)	Fuel used (type)*	
	Industry Production Details	Evel used (type) *		
	Air Pollution Control	- Select Fuel used (🗢		
13	For each fuel type select	ed in Q 12 , these fields (as in Q 13) will open up		
			Fuel consumption (TPD/kLD) *	In TPD or kLD

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
		Units of Fuel Consumption	
		Calorific value (Kcal)	In Kcal
		Ash content %	In percentage
		Sulphur content %	In percentage

sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
4	Details of Main Stack (Process & fuel stacks: Diesel Generator Set) Stack type * - Select Stack type - Total number of stacks *	Details of Main Stack (Process & fuel stacks: Diesel Generator Set) * Is any process stack connected to waste incinerator? * Number under each type* Do you have required facilities for air quality monitoring and collection of samples of emissions n the form of port holes, platform, ladder, etc. as per norms *	As per number filled in Total number of stacks, data fields (as in Q. 15) will be repeated
	Is any process stack connected to Air Pollution Control Device? * O Yes O No Do you have required facilities for air quality monitoring and collection of samples of emissions in the form of port holes, platform, ladder etc.as per norms * O Yes O No Are you relying only on on-line stack monitoring equipment? * O Yes O No	Are you relying only on on- line stack monitoring equipment? *	

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
15		Are you connected to	
	Are you connected to CEMS? *	CEMS?	
	● Yes O No	If yes, add the information	
		(design information in case	
		of CEMS).	
		If not connected to CEMS,	
		add average monitoring	
		info*	
	If Answer to Q 15 is yes, then Q 16 will open up for each stack		
	Are you connected to CEMS2 *	Material of construction	
	Are you connected to celvis? "	Shape (round/rectangular)	
	● Yes O No	Height (above ground level)	
	If yes, add the information (Type, make, and parameters that are monitored in case of (CEMS)	*	
	If yes, add the information (Type, make, and parameters that are monitored in case of CEMS).	Diameter/size, *	
		Gas quantity in Nm ³ /hr *	
		~	
	Material of construction		
	Shape (round/rectangular)		
	Height (above ground level)		
	L Diameter/size		

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
17		Gas temperature in ⁰ C*	
	Gas temperature C	Exit gas velocity in m/sec.	
		Pollutants likely to be	
		present in the Stack gases	
	Exit gas velocity, m/sec	etc.*	
		No. of smaller stacks/vents*	
	Pollutants likely to present in the Stack gases such as NOX, SOX, TPM etc		
	No. of smaller stacks/vents		

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
18	In case of D.G. Set power generation, mention capacity of the D.G. Set in kVA *	In case of D. G. Set power generation, capacity in kVA*	Capacity in kVA
	Provide details on residue management systems of each of the Control equipment indicating inlet/Outlet concentration of relevant pollutants *	management systems of each of the Control equipment indicating	Please upload a document detailing the residue management systems of each of the control equipment along with quantities of residues and
	Choose File No file chosen	relevant pollutants*	how they are managed

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
		Whether any release of	Please upload a document
		odoriferous compounds	detailing the systems used for
		such as Mercaptans, H2S,	control of the obnoxious gases
		Pyridine, Ammonia,	to avoid nuisance in the
		Phorate, etc. are coming out	surrounding.
		from any storage or process	
		house. *	
		Drovide details are the star	
		pollution containment and	detailing the air pollution
		control systems to address	containment and control
		fugitive emissions *	systems to address fugitive
			emissions

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
19	In case the industry is in operation, please attach latest self-monitoring report which reflects all the above information (for each of the stack) * Choose File No file chosen Maximum upload size: 32.00 MB	In case the industry is in operation, please attach latest self-monitoring report which reflects all the above information (for each of the stack) *	
D	Water and Wastewater Details		
20	Upload a PDF attachment with a Water Balance Diagram showcasing water consumption for different uses within the industry premises *	Water consumption for different uses in the industry premises in m ³ /day *	Upload a copy of water balance diagram
	Choose File No file chosen	Industrial/Process purpose (cooling, boiler feed, etc.)	In m³/day
	Maximum upload size: 32.00 MB	Domestic Purpose	In m ³ /day
	Industrial/Process Purpose (cooling, boiler feed, etc.) (in m³/day)	Other purposes such as gardening, landscaping etc. in m ³ /day	In m³/day
	Domestic Purpose (in m³/day)	Source of water supply	
	Other Purposes such as gardening, landscaping, etc. (in m³/day)	permission if applicable *	
	Source of water supply, name of authority granting permission if applicable * - Select Source of		

		Help lext (6)
	* - Mandatory Field	
Permissible quantity of (groundwater, irrigation canal, public water supply, directly from water body, private water supply) water intake by the authority (in m3/day) *	Permissible quantity of (groundwater, irrigation canal, public water supply, directly from water body, private water supply) water intake by the authority (in m ³ /dav)*	In m³/day
	Quantity of Wastewater (effluent) generated in (m ³ /day) *	In m ³ /day
Domestic usage (m²/aay)	Domestic usage (m ³ /day)	In m³/day
	Industrial/Process usage (m ³ /day)	In m ³ /day
Industrial/Process usage (m³/day)	Washing (m ³ /day)	In m ³ /day
	Boiler Blow down (m ³ /day)	In m ³ /day
Washing (m³/day)	Cooling water (m ³ /day)	In m³/day
Boiler Blow down (m³/day)		
	Permissible quantity of (groundwater, irrigation canal, public water supply, directly from water body, private water supply) water intake by the authority (in m3/day) * Quantity of Wastewater (effluent) generated in(m³/day) * Domestic usage (m³/day) Industrial/Process usage (m³/day) Boiler Blow down (m³/day)	Permissible quantity of (groundwater, irrigation canal, public water supply, directly from water body, private water supply) water intake by the authority (in m3/day) * Permissible quantity of (groundwater, irrigation canal, public water supply, directly from water body, private water supply) water intake by the authority (in m3/day) * Quantity of Wastewater (effluent) generated in(m³/day) * Ouantity of Wastewater (effluent) generated in(m³/day) * Domestic usage (m³/day) Domestic usage (m³/day) Industrial/Process usage (m³/day) Domestic usage (m³/day) Boiler Blow down (m³/day) Boiler Blow down (m³/day)

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
22		DM Plant/Softening Plant	In m ³ /day
	DM Plant/Softening Plant washings (m³/day)	washings (m ³ /day)	ý
		Are water meters installed	
		at the water source, ETP	
	Are water meters installed at the water source, ETP and the final discharge point	point*	
	Water Source	Water budget calculations	
		accounting for difference	
	ETP Inlet	effluent generated. *	
		Ŭ	
		Are sewage and trade	
		effluents mixed? *	
		If yoo, state at which stage	
	Water budget calculations accounting for difference water consumption and effluent generated *	are they getting mixed? *	
	Choose File No file chosen	-, , , , , , , , , , , , , , , , , , ,	

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
23		Present treatment of	Upload a document detailing
	Present treatment of sewage/canteen effluent	sewage/canteen effluent *	present treatment method for
	Choose File No file chosen		different types of wastewaters generated along with
			information on type of
	Maximum upload size:		technology, capacity of
	32.00 MB		treatment units and residual
	Present treatment of trade effluent *	Present treatment of trade	management Upload a document detailing
	Choose File No file chosen	effluent *	present treatment method for
			trade effluent generated along
	Maximum upload size:		with information on type of
	Maximum upioad size.		technology, capacity of

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
		Capacity of treatment effluent sump, Guard Pond if any to enable holding the treated effluent within industry premises in case of exigencies	treatment units, schematic diagram of treatment with inlet/outlet characteristics of each unit operations, process details and residual management In kL
24	Mode of disposal of treated effluent with respective quantity, m ³ /day * - Select Mode of di	Mode of disposal of treated effluent with respective quantity (in m ³ /day)*	
	into river	into river	In m ³ /day
		into lake/water body (name of Creek/estuary)	In m ³ /day

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
		into sea	In m³/day
		Into agriculture drain	In m ³ /day
		into public sewer (owner of sewer)	In m³/day
25	On land for irrigation on owned land/ lease land. Specify cropped area. (To be supported by relevant documents)	On land for irrigation on owned land/ lease land. Specify cropped area.	Specify whether on disposal is on land or for irrigation. Describe if the land is owned or on lease and indicate the

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
		(support by relevant documents)	cropped area in sq. m. Upload a document to support ownership of land or lease agreement
		Quantity of treatment	In m ³ /day
		effluent reused/ recycled,	
		(in m³/day) *	
		Provide a location map of	Upload a location map of
		disposal arrangement	disposal arrangement
		indicating the outlet(s) for	indicating the outlet(s) for
		sampling.	sampling
Е	Hazardous Waste Management		

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
26		Whether industry generate	
	Whether industry generate Hazardous waste in its manufacturing process? *	Hazardous waste in its	
	O Yes O No	manufacturing process? *	
27		Category of Hazardous	
		waste	
		Description of Hazardous	
		Waste	
		Quantity 1/month	In ton/month
		Storogo facilitico and	
		Storage facilities and	
		Any stabilization/treatment	
		Any stabilisation/treatment	
		at industry site	

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
	If yes, please give information separately on each of HW type Category of Hazardous waste	Final disposal	
	Description of Hazardous waste		
	Quantity T/month		
	Storage facilities and capacity of storage		
	Any stabilisation/treatment at industry site		
	Final disposal		
28	Whether the HW is sent to any common HW facility, if so, give details of the facility	Whether the HW is sent to any common HW facility, is so, give details of the facility	f y

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
		Please provide details of	Upload a document with
		HW disposal practices	relevant details
		along with mode of	
		disposal*	
		Please provide details of	
		HW generated and	
		disposed in last 2 years on	
		annual basis*	
		Whether the industry	
		procures any HW from	
		external parties*	
		If yes, give details of the	
		same for the last 2 years	

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
29		Details of storage and	
	Details of storage and handling of such HW received from third party *	handling of such HW received from third party.	
F	Hazardous Chemicals		
30		Give a detailed note on	Upload a document with
	Give a detailed note on hazardous chemicals used in manufacturing process, maximum quantity of its storage, safety precautions in handling and storage of HC, on-site and off-site disaster management plan, health check-up of employees. etc * Choose File No file chosen Maximum upload size: 32.00 MB	hazardous chemicals used in manufacturing process, maximum quantity of its storage, safety precautions in handling and storage of HC, on-site and off-site disaster management plan, health check-up of employees. etc *	relevant details
G	Non-Hazardous Solid Waste		
31	Types and quantity (MT/month) of the solid waste generation by industry	Types and quantity (MT/month) of the solid waste generation by industry	
		Method of disposal of Solid	
	Method of disposal of Solid waste (type wise)	waste (type wise)	

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	,
		Details of any vendor or	
		third party who is collecting	
		the solid waste and details	
		of authority or permission	
		the vendor has!	
Н	Compliance Related Information		
32		Have you been directed to	
	Have you been directed to implement CAP by EEAA or IDA? *	implement CAP by EEAA or	
	O Yes O No	IDA*?	
	Give details of order specifying the CAP	Give details of order	Upload a document with
		specifying the CAP	relevant details
	Choose File No file chosen	Give details of action plan to	Upload a document with
		implement the CAP with	relevant details
		proposed improvements,	<u> </u>
	Maximum upload size:	What is the total capital	In Million Egyptian Pounds
	32.00 MB	expenditure for CAP	
		Implementation (in million	
	Give details of action plan to implement the CAP with proposed improvements	EGP)	
	Choose File No file chosen		
	J Maximum upload size		

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
		Cohodulad data of CAD	
33	Scheduled date of CAP implementation	implementation	
		Whether the industry has carried out environment	
		audit report	
	Whether the industry has carried out environmental audit in last two years	copy of the Environment	
	(yes/no) *	audit report.	
	O Yes O No		
	if yes, then please attach a copy of the Environment audit report		
	Choose File No file chosen		

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
	Beyond Compliance Related Information		
34	Whether the industry has implemented any special initiatives for reducing, recycling, or reusing the	implemented any special	If yes, upload a document with
	waste generated in the industry *	initiatives for reducing	
	O Yes O No	recycling, or reusing the	
		waste generated in the	
	if yes, please provide details of such initiatives along with cost and year of implementation	industry *	
	Choose File No file chosen		

Sr.	EPAPIII Portal	Question for Form (2)	Help Text (6)
		* - Mandatory Field	
		if yes, please provide details of such initiatives along with cost and year of implementation	
		vonether the industry has implemented any initiatives on circular economy and resource efficiency (yes/no), *	relevant details
		if yes, please give details thereof	
35	Details of the plantation carried out by the industry in the industry premises	Details of the plantation carried out by the industry in the industry premises	Number of plants/trees planted over an area in square meters
	Target of plantation in next two years (numbers)	Target of plantation in next two years (numbers)	Number of plants/trees to be planted over an area in square meters