



Bangladesh Power Development Board
INTEGRATED MANAGEMENT SYSTEM
(BASED ON ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018
STANDARDS)

ENVIRONMENTAL ASPECT IMPACT ASSESSMENT
PROCEDURE



INTEGRATED MANAGEMENT SYSTEM

Document No.:
BPDB-IMS-PR-064

Revision No.: 00

ENVIRONMENTAL ASPECT IMPACT ASSESSMENT PROCEDURE

Effective Date: 01-11-2021

Page 2 of 7

1. Scope

The scope of this procedure covers all the activities related to identification of environmental aspect and assessment of environmental impact of BPDB.

2. Purpose

To define and determine all actions, steps, controls and desired outputs used to identify and assess the environmental aspects associated with products, activities and services of BPDB and determine the significance of those aspects. The procedure also considers the life cycle perspectives of its operations.

3. Definitions

Environmental aspect: Element of an organization's activities or products or services that interacts or can interact with the environment.

Environmental impact: Change to the environment, whether adverse or beneficial, wholly or partially resulting from an organization's environmental aspects.

Life cycle: Consecutive and interlinked stages of a product (or service) system, from raw material acquisition or generation from natural resources to final disposal.

4. Procedure

4.1 Basis for aspect identification:

BPDB's environmental aspects include those aspects arising from their activities, products and services and such aspects arising from the activities of their suppliers and contractor, and from use of product (wherever reasonably practicable).

4.2 Identification of environmental aspects:

The environmental aspects of BPDB are identified with respect to its activities and consolidated to form the Register of Environmental Aspects.

Information reviewed for aspect identification shall include but is not limited to the following:

- Acquisition of raw materials, including extraction;
- Operational manufacturing processes, including warehousing;
- Maintenance of facility, assets and infrastructure;
- Legal requirements / non-statutory guidance notes;
- Design and development requirements;
- Product transportation and service delivery, including packaging;

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INTEGRATED MANAGEMENT SYSTEM

ENVIRONMENTAL ASPECT IMPACT ASSESSMENT PROCEDURE

Document No.:
BPDB-IMS-PR-064

Revision No.: 00

Effective Date: 01-11-2021

Page 3 of 7

- Records of complaints and/or non-compliance;
- Past monitoring records;
- Storage, use and end of life treatment of products;
- Waste management;
- Environmental performance and practices of external providers.

4.3 Consideration for life cycle perspectives:

BPDB considers a life cycle perspective, while determining the environmental aspects. It does not do a detailed life cycle assessment; rather thinks carefully about the life cycle stages that can be controlled or influenced by the organization. The stages that the organization consider include raw material acquisition, design, production, transportation/delivery, use, end-of-life treatment and final disposal. The organization communicates with the process contractors / supplier / service providers associated with all stages of product life cycle to see whether they have any significant impact on the environment. If so, then the organization identifies whether process contractors / supplier / service providers have any control measures in place to manage the environmental impacts of their activities. The control measures may include having good functioning EMS policies or manuals, setting targets or objectives to reduce the adverse impacts, implementing control measures to meet the targets or objectives, periodical reviews of their initiatives etc.

4.4 Identification of environmental impacts:

While determining the environmental impacts arising from the aspects, the organization considers:

- Emission to air;
- Releases to water;
- Releases to land;
- Use of raw materials and natural resources;
- Use of energy;
- Energy emitted (e.g. heat, radiation, noise vibration, light);
- Generation of waste and/or by-products;

4.5 Assessment of significance of environmental aspect:

4.5.1 Likelihood is the chance of something happening. In impact assessment, BPDB considers the current control and history of non-conformity for likelihood rating. Likelihood is determined with the help of following table:

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	INTEGRATED MANAGEMENT SYSTEM	Document No.: BPDB-IMS-PR-064
	ENVIRONMENTAL ASPECT IMPACT ASSESSMENT PROCEDURE	Revision No.: 00 Effective Date: 01-11-2021
		Page 4 of 7

Table 1 Likelihood Determination

Likelihood level	Rating no.	Likelihood
Frequent	5	Expected to occur during product/service delivery
Probable	4	Likely to occur during product/service delivery
Occasional	3	May occur during product/service delivery
Remote	2	Unlikely to occur during product/service delivery
Rare	1	Highly unlikely to occur during product/service delivery

4.5.2 Impact are the outcomes of an event that is affecting the objective. BPDB determines the consequences by considering the feedback of customer and relevant interested parties and level of legal compliance. A consequence rating is done by using the following table:

Table 2 Impact Determination/Consequences

Impact		
level	Rating no.	Impact on customer/Business
Catastrophic	5	Long-term damage require BDT <10 lac to recovery or penalty
Critical	4	Medium term damage, require BDT 1-10 lac to study and correct
Major	3	Requiring effort to gain the confidence again, environment would not have hampered a lot
Moderate	2	Environmental damage can be recovered by the organization
Minor	1	Small pollution do not have any significant effect

4.6 Evaluation of aspect

Aspect evaluation is done by multiplying likelihood with consequence rating, to get the priority number. Priority Number is obtained with the help of the following impact rating matrix table:

Table 3 Impact Evaluation

Likelihood		Impact				
		Catastrophic	Critical	Major	Moderate	Minor
		5	4	3	2	1
Frequent	5	25	20	15	10	5
Probable	4	20	16	12	8	4

Prepared By		Approved By	
Reviewed By			



INTEGRATED MANAGEMENT SYSTEM

ENVIRONMENTAL ASPECT IMPACT ASSESSMENT PROCEDURE

Document No.:
BPDB-IMS-PR-064
Revision No.: 00
Effective Date: 01-11-2021
Page 5 of 7

Occasional	3	15	12	9	6	3
Remote	2	10	8	6	4	2
Rare	1	5	4	3	2	1

4.6.1 Aspect rating is done by the following rating system:

Table 4 Priority number or Level of Significance Determination

Priority Number (Consequences × Probability)	Significance Level
1 to 4	Low
5 to 9	Medium
10 to 19	High
20 to 25	Extreme

All the considerable aspect – after rating – are listed in aspect and impact register.

All aspects and impacts are well communicated with the relevant department, process owner and employees.

Aspect assessment is reviewed in periodic interval to update the aspect impact register.

4.7 Control measures:

After assessing the impacts of respective aspect, we decide which one are significant aspect – based on priority number and/or Significance level – and then BPDB puts control measures in place or identifies the existing operational controls in place for each significant aspect, which are listed in aspect and impact register.

The action plans are communicated to relevant persons working under the organization's control who will influence the effectiveness of these measures. Then using this procedure, the aspects and impacts are evaluated annually.

4.8 Risks and opportunities from aspects and impacts:

BPDB evaluates the risks and opportunities arising from the environmental aspects. All the identified risks and opportunities is listed at risks and opportunities registers respectively.

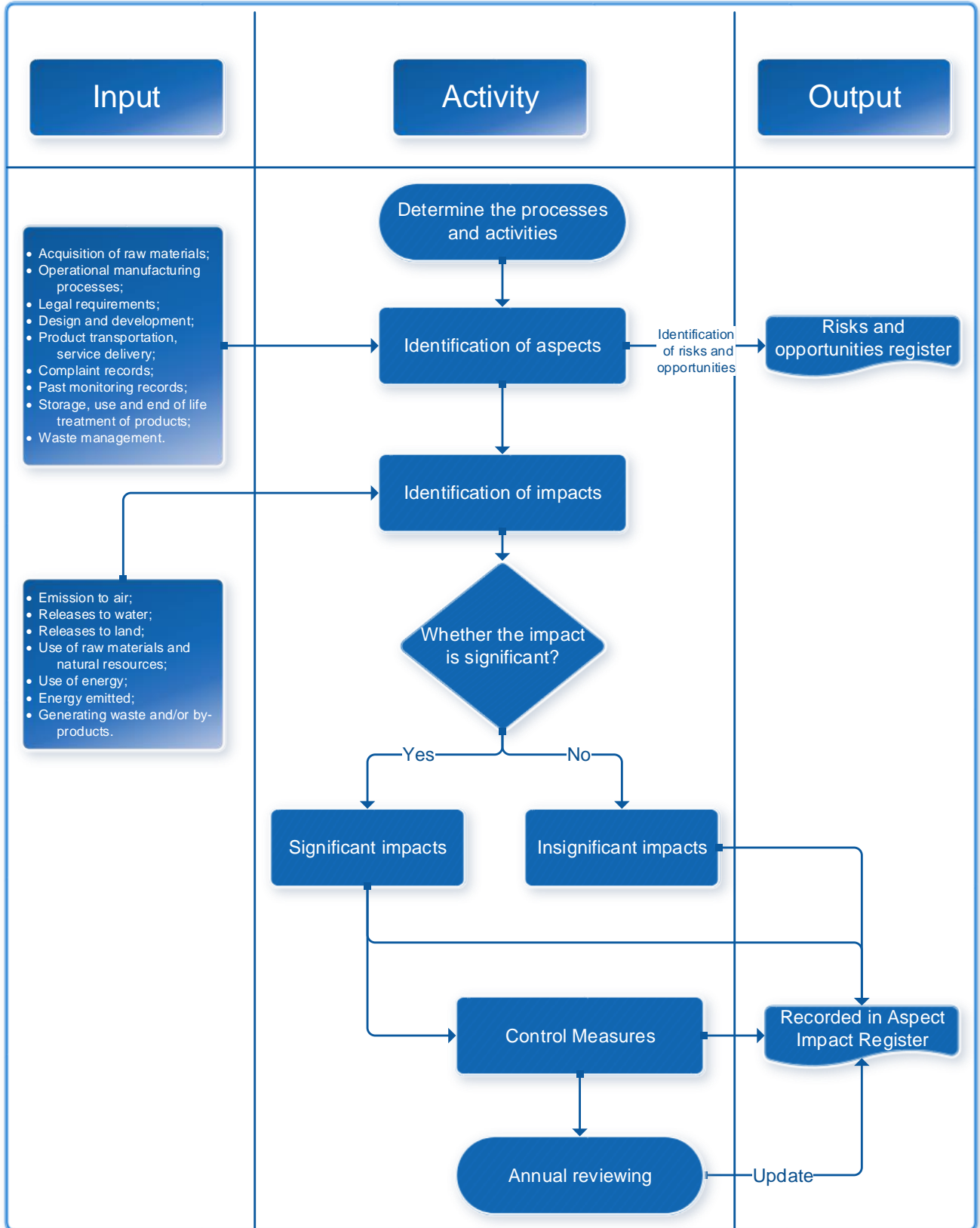
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INTEGRATED MANAGEMENT SYSTEM

ENVIRONMENTAL ASPECT IMPACT ASSESSMENT PROCEDURE

Document No.:
BPDB-IMS-PR-064
Revision No.: 00
Effective Date: 01-11-2021
Page 6 of 7



Prepared By		Approved By	
Reviewed By			



INTEGRATED MANAGEMENT SYSTEM

ENVIRONMENTAL ASPECT IMPACT ASSESSMENT PROCEDURE

Document No.:
BPDB-IMS-PR-064
Revision No.: 00
Effective Date: 01-11-2021

Page 7 of 7

6.0 References

- a) Environmental Aspect Impact Register

7.0 Appendix

None

8.0 Revision History

SI No.	Revision Number	Section	Change Made	Date of Revision

Prepared By		Approved By	
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