

MMM III

Jamnalal Bajaj Institute of Management Studies
University of Mumbai
MMIM/MHRDM Year III, Semester VI
Environment Management

Time: 2 hrs

Marks: 30

Date: April 28, 2012

Instructions: Candidates should read carefully the instructions printed on the question paper and on the cover of the Answer Book, which is provided for their use.

N.B:

1. Attempt ANY ONE question out of question 1 and 2 AND ANY TWO QUESTIONS out of question 3 to 5
2. All questions carry equal marks (10 marks)
3. Answer to each new question to be started on a fresh page

✓ Requirements for an Environmental Policy are specified in clause 4.2 of ISO 14001. The requirements are as follows:

- a. The Policy shall be defined by top management
- b. The Policy shall be in line with the nature, scale and environmental impacts of the organization
- c. The Policy shall include a commitment to continual improvement and prevention of pollution
- d. The Policy shall include a Commitment to comply with legal and other requirements
- e. The Policy shall provide for a framework for objectives and targets
- f. The Policy shall be documented, implemented, maintained and communicated to all persons working on or behalf of the organization
- g. The Policy shall be made available to public

Explain with reasons whether the following Environmental Policy meets the requirements of ISO 14001

Environmental Policy of ABC Petrochemicals

We at ABC Petrochemicals hereby pledge that environmental concerns are of paramount importance to us in all our activities and we will do everything possible to preserve the environment.

We will in particular,

- Reduce water usage in the toilets and wash basins
- Reduce use of paper in our administrative work
- Provide for sound environmental management with respect to canteen waste

We will ensure that our environmental policy is documented, implemented and maintained and make it available to all members of the public.

Date: July 1, 2010

Signed by: XYZ
Asst. Manager-Human Resources

2. The following observations were among those made during an environmental audit of a manufacturing facility on April 5, 2011. Some of these are non-compliances from the environmental legal standpoint (NC). Identify which of the observations are NC's. Further, identify the Act/Polye Notification under which these would be classified as NC's and how could the facility correct them.

- a. The facility commenced operations in April 2010.
- b. The facility is classified under the Red Category by the State Pollution Control Board (SPCB)
- c. The facility has a consent to operate (CTO) from the SPCB under the provisions of the Water Act, Air Act and authorization under the Hazardous Waste Rules. The CTO is valid till March 31, 2012.
- d. The facility generates used oil, chemical sludge from effluent treatment plant and spent solvent. The CTO mentions only used oil and chemical sludge. There is no mention about spent solvent. Further, scrutiny of applications made to the SPCB for CTO and subsequent renewals do not mention anything about spent solvent.
- e. The facility does not maintain records of hazardous wastes generated.
- f. The facility has not furnished annual returns to the SPCB regarding hazardous waste.
- g. Hazardous waste is stored typically for a period of 4 to 6 months and thereafter disposed off with agencies not registered with the SPCB/CPCB. A common hazardous waste facility approved by the SPCB is operating in the state.
- h. No documentation or records are maintained when consignments of hazardous waste leave the facility.

3. Critically analyze the EIA notification of September 2006 and identify the key factors upon which the effectiveness of the overall clearance procedure is dependant. Briefly explain the objectives of environmental impact assessment and the steps involved in it.

4. Explain the issue of Climate Change. Explain key provisions of the international protocol which deals with climate change and its implications for developed and developing countries. Briefly describe the CDM project cycle.

5. What are the major sources of water pollution in an industry? Discuss three types of standards related to water pollution in the Indian context. Discuss the importance of the roles of people monitoring and measurement and provision of correct information to pollution control boards for an industry.