



Date

MR. PRESIDENT

President
Company Name
Address

Dear Mr./Ms. President:

The Office for Industrial Policy of the Board of Investments (BOI), Department of Trade and Industry (DTI), is implementing *The Study on Environmental Management with Public and Private Sector Ownership (EMPOWER)*, a project assisted by the Japan International Cooperation Agency (JICA) and one undertaken together with a JICA Study Team.

The project aims to formulate an action plan on industrial environmental management (IEM) in the Philippines and to strengthen the capacities of government agencies and private industrial associations for supporting IEM. One activity of this project is the survey of dedicated firms representing the different types of industries in the Philippines. Your company has been chosen as one of the respondents to this survey.

The survey aims to determine the: (1) Current level of integration of IEM onto business management; (2) Manufacturers' current motives to promote IEM and the factors that would effectively promote IEM in the future; (3) Current level of implementation of IEM elements; and (4) Future agenda for further enhancing IEM.

The JICA Study Team has engaged the services of Woodfields Consultants, Inc. (WCI), a local environmental consultancy firm, to conduct the said survey. In this regard, the BOI would like to request for your kind cooperation with the JICA Study Team and WCI when they contact your office. WCI, together with a BOI staff and a JICA Study Team Member, will visit your office to conduct an interview to collect the necessary information for the survey.

At this juncture, kindly allow us to assure your office that all data and information obtained from the survey will be treated with strictest confidentiality. Should you require further information, please feel free to contact **Mr. Adonis Marinay** at the WCI office at telephone numbers **9253621** or **4367360**.

We thank you for your kind attention and we look forward to receiving your strong support and cooperation for success of the study.

Very truly yours,

ERLINDA F. ARCELLANA

OIC-Director Office for Industrial Policy

Questionnaire on environmental management in the manufacturing sector

Industry Sector	Date		
Name of Company	Interviewer		
Main Products	Interviewee (Executive)	Name	
	(=/:000::::0)	Position	
Brief Description of Main Production	Interviewee (PCO)	Name	
Process	(. 55)	PCO Level	

Questions for Business Executive

		Question			Answer		
1. B	usiness N	lanagement					
1-1	Business	Q1. How would you see the current performance of	1.	Good	d		
Envi	ironment	your products at the market?	2.	Fair			
			3.	Poor			
			4.	Mixt	ure of the above		
		Q2. Has the current profit of your company been	1.				
		increasing during the past five years?	2. No \rightarrow Q2-1. What would be major reasons for that?				
		Q3. What are important issues for business	R	ank	Issue		
		management in your company? Please rank the			1. Improvement of productivity		
		following options.			2. Improvement of product quality		
					3. Promotion of environmental management		
					4. Expansion of production		
					5. Development of new products/technology development for the future		
					6. Enhancement of sales and marketing strategy/network		
					7. Improvement of financial status		
					8. Other ()		

	Question	Answer
1-2. Productivity Improvement	Q4. Is there a section or department in your company that is specifically assigned to work on productivity improvement?	 Yes → Q4-1. How many employees are assigned to the section/department? Full-time: () Part-time: () No
	Q5. Is there a company-wide committee comprised of employees to work on productivity improvement?	 Yes→ Q5-1. How long has it been active? ()years Q5-2. How many employees are participating the committee? Full-time: () Part-time: () Q5-3. How often is the committee held?
	Q6. What information does your company collect to monitor resource productivity? Please select one from the following options.	 All the input (energy, water, raw materials) and output (emissions, effluent, solid waste) by each process or production line All the input (energy, water, raw materials) and output (emissions, effluent, solid waste) by plant (not by each process or production line) Some of the input (energy, water, raw materials) and output (emissions, effluent, solid waste) by each process or production line Some of the input (energy, water, raw materials) and output (emissions, effluent, solid waste) by plant (not be each process or production line) None
1-3. Quality Control	Q7. Is there a section or department in your company that is specifically assigned to work on quality control?	 Yes → Q7-1. How many employees are assigned to the section/department? Full-time: () Part-time: () No
	Q8. Is there a company-wide committee comprised of employees to work on quality control?	 Yes → Q8-1. How long has it been active? ()years Q8-2. How many employees are participating the committee?

	Question	Answer	
1-3. Quality Control	Q9. What activities does your company take to assure product quality? Please check all the actions that your company takes.	 Identification of crucial factors that affect quality of products Development and continuous improvement of quality assurance pol Development and continuous improvement of standard procedures production line (specifying quality and amount of input materials and temperature, etc. for each production activity) Using checklist or keeping records to assure actual operation folloprocedures Inspection of products Other (for operation of , operation time
	Q10. Has your company obtained ISO 9000 (quality management)?	 Yes → Q10-1. When did your company obtain it? () No → Q10-2. Is there any plan to obtain it? Yes / No 	
1-4. Investment	Q11. How much has your company invested in the following items during the past five years? Please give us approximate percentage of the total investment for each item.	Item Land for factories and offices Facilities for production expansion Facilities/equipment for environmental protection Facilities/equipment for energy-saving	Ratio (%)
		Facilities/equipment for information management Other ()	
	Q12. Have you considered overall changes in production processes or technologies that would	Total 1. Yes → Please fill the table below. 2. No	100%
	increase resource productivity and environmental performances and subsequently reduce production costs? If there are, what are the processes/technologies? What are the overall investment costs? Are you going to make such investment? If not, what are preventing reasons?		vent investment

	Question	Answer
2. Business N	Management and Environment	
2-1. Recognition of environmental management	Q13. Would you think efforts to meet environmental standards decreases company's competitiveness?	 Yes → Q13-1. Please give us the reasons why you think so. No → Q13-2. Please give us the reasons why you think so.
	Q14. Is there a unit or section in your company that is specifically assigned to work on environmental management?	 Yes → Q14-1. How many employees are assigned to the unit/section? Full-time: () Part-time: () No
	Q15. Is there a company-wide committee comprised of employees to work on environmental management?	 Yes → Q15-1. How long has it been active? () years Q15-2. How many employees are participating the committee? Full-time: () Part-time: () Q15-3. How often is the committee held? () times/month No
2-2. Motive for Promotion of IEM	Q16. What are the driving-forces for your company to promote environmental management? Please rank the following options.	Rank Driving-force for promoting environmental management 1. Request from shareholders 2. Request from financial institutions that provide loan to your company 3. Request from your parent company or commercial buyers of your products 4. Request from consumers association or consumers 5. Request from environmental NGOs 6. Involvement by your competitors (determination by industry association) 7. Internal motivation as part of social responsibility/corporate ethics 8. Cost saving due to reduction in use of energy and raw materials 9. Improved productivity 10. Legal requirements (regulatory compliance) 11. Other (

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	Question		Answer		
	Q17. What would be most powerful incentive to your company to further promote environmental management?	1. Ta: 2. Re 3. Re 4. So 5. Re	ple answer) x break for good environmental performance duction in permission fees or other charges duction in governmental procedures such as reporting cial recognition (award, publicity) duction in production costs her ()
2-3.	Q18. Which items from the following have been		Item	Now	Future
Implementatio	implemented in your company? If not implemented,	1. ISO	14001 Certification		
n of	which would you like to adopt in the future?		tification of environmental load (emissions, effluents, wastes,)		
Environmental			ing numerical targets for reduction in environmental load		
Management			lity investment to control emissions and effluents		
			lementation of waste minimization		
		_	lementation of energy-saving		
			uation of environmental performance of the company (target		
		monito			
			paration and dissemination of environmental reports		
			ironmental accounting		
			een purchasing		
			een product design		
			ff training on environmental management		
		13. Oth	ier		
2.4	010 177	, D 1) D. W. 1		
2-4.	Q19. What are positive results of practicing	Rank	Positive result		
Recognition of Results of	environmental management in your company? Please rank the following options.		1. Improved productivity (less input for the same output)		
Practicing 01	Thease fails the following options.		2. Cost reduction		
Environmental			3. Improved company image		
Management			4. Increased market competitiveness		
			5. Other ()

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	Question		Answer	
	Q20. What factors would hinder your company's efforts to promote environmental management?	 (Multiple answer, but put "*" to Lack of information and knoenvironmental performance Lack of financial resources t Lack of staff with necessary measures Lack of affordable external extechnical advices, planning of Lack of information about or Other (ow-how about cost-effective o implement necessary meas knowledge and skills to plan environmental services such on IEM, and environmental a	sures n and implement necessary as sampling/analysis, auditing
2-5. Future Agenda for Promoting Environmental Management		Issue	Action	Assistance

1. General Information

1-1.Production

Characteristics

Environmental

Impacts

Input

1-2.

Question

Q1. What are major energy source for production?

Q2. Please rank the environmental impacts of your

corporate activities based on your concern and

briefly describe characteristics of each impact.

1	2. Institution a	nd organization			
	2-1.	Q3. Is there a section or department that is working	1.	Yes \rightarrow Q5-1. What are its responsibil	ities?
	Environment	on environmental issues?			
	Section				
			2.	No L	J

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1. Diesel oil /Kerosene

3. Natural gas/ Propane gas

Environmental Impact

Air pollution (SOx, NOx, PM)

Water pollution (BOD, COD,

Non-hazardous industrial solid

Industrial hazardous waste

Chemical releases to air &

waste generation

Noise, vibration

Offensive odor

generation

water

Other

Green house gas emission

2. Heavy oil

Coal Electricity 6. Other (

Rank

Description

Answer

	Question				Answer		
2-2. PCO	Q4. How many PCOs are working in your			PCO I	PCO II	PCO III	Total
	company?		-time				
		Part-	-time				
	Q5. What are the responsibilities of PCOs in your company other than those specified by DAO 92-26 (new guideline for PCO accreditation)?	2. 1 3. 3 4. 6 5. 6	Develop Train ot Chair a issues	o an environmental n her employees on en company-wide com	mittee comprised of e		
3. Environmen	ntal Management System (EMS)						
3-1. EMS	Q6. Has EMS been established in your company? (not necessarily require ISO 14001)	1. 2.			n-staff efforts external consultants w	ork staff and external cons	sultants
3-2. Environmental report	Q7. Does your company prepare an annual environmental report?	1.		c) External cond) Collaboratio	ff other than PCO sultant	nd external consultant c? Yes / No	S
4. Activities for	or Enhancing Environmental Performance						
4-1. Energy saving	Q8. What measures does your company implement to save energy?	2. 1 3. 1 4. 1 5. 1 6. 0	Proper o Rationa Installat Installat	operation control (ch lization of lighting tion of facilities to re tion of energy efficie	cover waste heat	O_2 %, fuel feed rate, lefter furnace, boilers, etc.)	

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	Question	Answer	
	Q9. Has your company estimated actual cost reduction due to energy conservation?	 Yes No 	
4-2. Water conservation/ Effluent control	Q10. What measures does your company implement to reduce water consumption?	 Minimize water consumption by reviewing operation Recycle used water Utilize rainwater Other (None)
	Q11. Has your company estimated actual cost reduction due to water conservation?	1. Yes 2. No	
	Q12. What measures does your company implement to reduce water pollutants?	 Reduce raw materials by reviewing production processes and lines Use input materials with less toxic substances or precursors of pollutants Reduce input materials by introducing cleaner production technology Recycle pollutants as input materials to your company Recycle pollutants as input materials to other companies Install wastewater treatment facility Other (None)
4-3. Emission Control	Q13. What measures does your company implement to reduce air pollutants?	 Reduce raw materials by reviewing production processes and lines Use input materials with less toxic substances or precursors of pollutants Use fuels with less toxic substances or precursors of pollutants Reduce input materials by introducing cleaner production technology Recycle pollutants as input materials to your company Recycle pollutants as input materials to other companies Install gas treatment facility/ equipment Other (None)

	Question	Answer		
4-4. Non-hazardous Industrial Solid Waste and Hazardous Industrial Waste Management	Q14. What measures does your company implement to minimize generation of waste?	 Proper stock management (matching supply to needs) Proper process control Use of less toxic chemicals (for hazardous waste) Change in production processes Process integration Segregation and recycling Other (None 		
	Q15. Has your company estimated actual cost reduction due to waste minimization?	1. Yes 2. No		
	Q16. What actions has your company been taking to properly manage waste?	 Measure and record quantity of waste generated by waste type Analyze chemical characteristics of wastes Package and label HW for storage and transportation Treat waste at on-site facilities Select authorized transporters and treaters for off-site treatment/disposal of wastes Check the off-site treaters to ensure proper final disposal of waste Other () None 		
4-5.Manageme nt of Toxic Chemicals	Q17. What actions has your company been taking to properly manage toxic chemicals?	 Identification of types and quantity of chemicals used and emitted/discharged Preparation of MSDS Dissemination of knowledge about proper use of chemicals and emergency response Other () None 		
4-6.Noise/ Vibration	Q18. What measures does your company implement to prevent or minimize noise and vibration?	 Measurement of noise and vibration Periodical check on performance of plant facilities Installation of noise insulation Other () None) 		

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	Question	Answer			
4-7.Green Products	Q19. Is your company selling or making efforts to develop green products?	 Yes → Q1 No 	a) Toxic cherb) Longer lifec) Easy for red) Simple pagee) Produced	e ecycling)
4-8.Green Purchasing	Q20. Does your company have green purchasing policy/criteria?	 Yes → Please provide the written policy/criteria. No → Q20-1. Is there a plan to adopt such policy/criteria? Yes / No 			
4-9. Other Environmental Management	Q21. What other tools is your company employing to enhance environmental performance of your company?	 Proper stock management Rationalization of distribution system Life cycle assessment of the products Environmental accounting Establishment of a take back system of the used products Other (None 			
4-10. Issues	Q22. What are the most critical environmental issues including achieving existing environmental standards in your company? What are the hurdles to tackle each issue?	Issue 1. Energy conservation		Hurdle	
		2. Water conservation			
		3. Effluent control	Meeting standards/ requirements		
			Other		

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Question	Answer		
	4. Emission control	Meeting standards/ requirements	
		Other	
	5. Non-hazardous industrial solid waste management		
	6. Hazardous waste management	Meeting standards/ requirements	
		Other	
	7. Management of chemicals	Meeting standards/ requirements	
		Other	
	8. Noise and vibration		
	9. Offensive odor		
	10. Other ()		