

# QUESTIONNAIRE TO BE SUBMITTED FOR NEW INDUSTRIAL ESTATES (IE)

## A. GENERAL FEATURES

This information provides a profile of the estate to assist in identifying possible environmental issues.

- **Industrial estate**

Name: .....

Address: .....

.....

Operations to start by Month - Year: .....

- **Contact person for environmental aspects**

Name: .....

Function: .....

Phone: .....

Fax: .....

E-mail: .....

- **Ownership**

Public: .....

Private: .....

Public/private partnership: .....

- **Scale of the project**

Total area of development (in hectares): .....

Total number of units/companies proposed: .....

Total number of workers (approximate): .....

- **Proposed land uses (Percentage of total area)**

Export processing zone .....

General industrial zone .....

Commercial zone .....

Residential zone .....

Landscaped green areas .....

Undeveloped areas .....

Roads. ....

Others .....

- **Nature of the industries proposed in the IE**

	<b>Number of Units</b>	<b>Likely no. of workers</b>	<b>Production volume</b>
Petrochemical processing .....			
Iron and steel processing .....			
Non-ferrous metal industries .....			
Chemical manufacturing .....			
Energy generation .....			
Construction industry .....			

Transportation sector .....  
 Communication technology .....  
 Food processing .....  
 Drinks manufacture .....  
 Textile manufacturing .....  
 Leather processing .....  
 Electronic manufacturing .....  
 Pharmaceutical production .....  
 Plastics formulation/processing .....  
 Paint manufacture .....  
 Ceramics/glass manufacture .....  
 Pulp and paper production .....  
 Packaging manufacture .....  
 Metal plating .....  
 Others .....

• **Service industries proposed in the IE**

Transport .....  
 Warehousing .....  
 Chemical storage .....  
 Recycling .....  
 Waste treatment/disposal .....  
 Laboratories .....  
 Information technology .....  
 Banking, finance and insurance .....

• **Details of Environmental features**                      **On site**      **Within 25 km radius**

Reserved Forests  
 Vegetation/Tree cover  
 Wetlands, swamps, mangroves  
 Lakes  
 Rivers and creeks  
 Sea coast  
 Protected Areas  
 Places of tourist interests

**List of the human habitations nearby**

Rural / urban area	Number of inhabitants	Distance (km)
.....	.....	.....

• **Transport links**

Bus .....  
 Train .....  
 Others .....

## INFRASTRUCTURE FACILITIES PROPOSED IN THE IE

This identifies a number of services and features that may be linked to environmental performance. *Who provides or is responsible for the following services, tools or actions?*

- 1 o- **Industrial Estate Authority**
- 2 o- **Operational Units**
- 3 o- **Government Authority**
- 4 o- **Private Sector**
- 5 o- **Other(Please specify)**

	1	2	3	4	5
• <b>Energy (also State requirement in K Cal)</b>					
Centralized energy supply	?	?	?	?	?
Individual energy supply	?	?	?	?	?
Supply and recovery of waste heat (cogeneration)	?	?	?	?	?
District heating system	?	?	?	?	?
Energy from waste facility	?	?	?	?	?
Energy from renewable resources facility	?	?	?	?	?
• <b>Water (also State requirement in KL)</b>					
Municipal service	?	?	?	?	?
Tube wells	?	?	?	?	?
Treatment facilities	?	?	?	?	?
Waste water disposal	?	?	?	?	?
Liquid waste disposal	?	?	?	?	?
Waste water recycling	?	?	?	?	?
Rain water harvesting	?	?	?	?	?
Sewage disposal @	?	?	?	?	?
• <b>Solid waste (in Metric Tons)</b>					
Solid waste disposal @	?	?	?	?	?
Composting of biological waste @	?	?	?	?	?
Industrial liquid waste disposal @	?	?	?	?	?
Hazardous waste disposal	?	?	?	?	?
Waste exchange clearing house	?	?	?	?	?
Multi-material resource recovery	?	?	?	?	?
@ Including collection, storage & treatment					
• <b>Transport (attach traffic risk assessment report)</b>					
Traffic and transport management plan	?	?	?	?	?
• <b>Management</b>					
Environmental monitoring	?	?	?	?	?
Effluent monitoring	?	?	?	?	?
Air emission monitoring	?	?	?	?	?

Environmental auditing	? ? ? ? ?
EMP & implementation of risk mitigation measures	? ? ? ? ?
Environmental technology assessment	? ? ? ? ?
Environmental training and education	? ? ? ? ?
Emergency preparedness and response capability	? ? ? ? ?
Self-regulation and operational standards	? ? ? ? ?
Finance and insurance services	? ? ? ? ?

• **Miscellaneous**

Restoring natural features of the site	? ? ? ? ?
Landscaping and gardening	? ? ? ? ?
Analytical and laboratory services	? ? ? ? ?
Protection and security system	? ? ? ? ?

**MAIN STAKEHOLDERS**

List of units requiring individual environmental clearance (in future)

Details of issues raised in the environmental public hearing

**Finance Arrangements –**

- **Local financial institutions and banks:** ? Yes ? No  
If yes, what influence do they have?
- Owners ? Yes ? No
- Conditionalities on investments and credits ? Yes ? No
- Other (. . . . .) ? Yes ? No

**ENVIRONMENTAL IMPACT ASSESSMENT**

To cover

- **Baseline Conditions**
- **Impact Assessment including carrying capacity of the area**
- **Social Impact Assessment including Rehabilitation Action Plan (if any)**
- **Risk Assessment and Onsite and offsite Emergency Response Planning**
- **Environmental Management Plan**
- **Details of environmental parameters to be monitored (frequency and implementation agency)**

## POTENTIAL ENVIRONMENTAL THREATS

This assessment is for the entire estate, not for individual units

- **Areas of concern**

1. 'Imminent threats' to human health and/or the environment ('imminent' means high-risk threats that require immediate action to reduce risks and liabilities)

<i>Threat</i>	<i>Actions proposed to be taken</i>
.....	.....
.....	.....

2. Likely Environmental 'trouble spots'

<i>Trouble spot</i>	<i>Actions proposed to be taken</i>
.....	.....
.....	.....

3. Major sources & quantities of wastes (solid, air, liquid) likely to be generated in the IE

<i>Sources</i>	<i>Inventory</i>	<i>Actions proposed to be taken</i>
.....	.....	.....
.....	.....	.....

Habitat/wildlife

<i>Issues of concern</i>	<i>Action proposed to be taken</i>
.....	.....
.....	.....

4. Potential sources of industrial accidents, explosions and fires, health and safety issues

<i>Potential sources</i>	<i>Actions proposed to be taken</i>
.....	.....
.....	.....

5. Sources of environmental threats in adjacent areas

<i>Sources</i>	<i>Action proposed to be taken</i>
.....	.....
.....	.....

## CHECKLIST OF ENCLOSURES

1. Land purchase agreement
2. Landuse/ Zoning particulars-relevant portions from the prevailing local Regulations
3. Cost estimates inclusive of land cost
4. Landscape plans with proposed tree plantation
5. Water balance statement
6. Rainwater harvesting plan
7. Storm water drainage
8. Material balance studies, if carried out
9. Common effluent treatment plant-details with a write up
10. Statement on the machinery & manpower during construction
11. Fire protection measures & approvals obtained
12. Proceedings of Environmental Public Hearing also provide response to points raised in the public hearing
13. Approval of competent authorities in case of conversion of agricultural land, change of landuse, DC rules
14. Construction schedule (CPM/PERT chart)
15. Approval from special bodies (State Industries Commissioner/SIDC/financial institutions)
16. Approvals if applicable from ASI, Civil Aviation, ecologically sensitive areas, coastal development regulations, etc
17. Solid waste collection, treatment, storage, transportation and disposal plan
18. Vehicle parking and management
19. Environment Impact Assessment Study (including Executive summary)
20. Schedule-II Application Form for EC
21. Questionnaire for IE

*May be addressed to:*

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