

# QUESTIONNAIRE FOR THE ENVIRONMENTAL IMPACT ASSESSMENT OF NEW CONSTRUCTION PROJECTS

## I. BACKGROUND INFORMATION OF THE PROPOSED PROJECT

- State clearly the objective of the project :
- Location of the project (attach map to a suitable scale) :  
Town/Tehsil ..... District..... State.....  
Latitude ..... Longitude .....

- Names & distances from the nearest :

State/National Highway                      Railway Station                      Airport

- Name of the agency proposing the new construction project

Name of the Chief Executive & Postal address

Contact particulars (Tel/Fax/e-mail)

Type of project: Housing project/Industrial Estate or others

- Estimated cost of the project

Land cost                      Estimated construction cost

Cost of the Plant & machinery

## II. SITUATION WITHIN 10 KM RADIUS FROM PROJECT SITE

- General topography
- Specify general features of land
  - Tree cover-prominent species
  - Fauna-wildlife/domesticated
  - Avifauna
  - Soil characteristics
  - Natural drainage pattern
  - Flood prone areas
- Geological features including seismic zone
- Existing land use (area & percentages) map (to include agricultural & non-agricultural uses, commercial, industrial dense/open forests, fallow land, human settlements,

- water bodies,transport systems etc.)
- Predominant activities
  - residential,institutional,commercial etc
- Special features :
  - (such as tourist spots, monuments/archaeological sites, hospitals,schools,institutions, religious places, heritage areas and places of other interests)
- Specific environmental problems, if any
  - (such as water and air pollution, land spoliation by natural & manmade factors, endemic diseases, traffic congestion spots in the vicinity of project site, loss of tree cover, open spaces etc.)
- Ground level concentrations(major parameters)
  - SPM/RSPM,SO<sub>2</sub>,NO<sub>x</sub>,HC,Noise
- Furnish wind rose diagram
- General meteorological data(wind direction,speed,rainfall,temperature)
  - Details if any of heat islands, inversions, venturi effect
  - Impacts on the conceptualization of the proposal
- Human Resources
  - i. Population of study area (10 km radius),
  - ii.Decadal growth rate, settlement pattern and growth,
  - iii. Socio-economic conditions
  - iv.Health: Endemic diseases, Mortality, Epidemics.
- Environmental assessment and suitability of the proposed development (specifically identifying the limits)

### **III. PROMINENT FEATURES WITHIN ABOUT 100 METRES RADIUS FROM THE SITE BOUNDARY (LOCAL AND IMMEDIATE VICINITY)**

- General description
  - (contours at 1m intervals)
- Natural resources
  - i. Water:
    - ground water table, rate of recharge
    - present restrictions on drawal, available yield, quality of water (physical, chemical, biological)
    - surface water location, source and yield,
    - present use (for agriculture, human consumption, industry, etc.)
  - ii.Ambient air quality levels (standard parameters including noise)
  - iii. Minerals: type, location, quantum(estimated)
  - iv.Energy:
    - consumption pattern for hydrocarbons,
    - gas, electricity and any other non-conventional energy source

- Details of new construction
  - Plot coverage, height, FSI (permissible/proposed)
  - Building materials for construction
  - (may cover the quantities, source, processes involved, special attributes such as life cycle costs, efforts towards greening the supply chain)
  
- Details of public utilities required for the project during:
  - (may be indicated separately for construction & operation phases)
    - i. Water supply:
      - a. Source of water supply and quantities to be drawn.
      - b. Type of treatment, if any.
      - c. Continuous/Intermittent supply
      - d. Storage capacity in Kiloleters
  
    - ii. Sewage, Collection, Treatment & Disposal
      - a. Mode of collection of domestic effluent
        - Surface drains
        - Underground
        - System and capacity
  
      - b. Mode of treatment
        - Septic tank and filters (capacity)
        - Biological treatment capacity & other details
  
      - b. Mode of disposal
        - Soakpits / Disposal to local sewer / water bodies(specify)
        - Use for cultivation
  
- iv. Solid Wastes:
  - estimated quantity of each types of solid waste:
  - Mode of collection and disposal:
  - Recycling to be instituted, if any:
  
- v. Power System:
  - Sources of power and supply capacity
  - Distribution System
  - Alternate supply for essential services

-DG Set: Type of fuel used and capacity

- Impact of the new development on the surrounding areas
  1. Traffic management at peak hours
  2. Provision of service roads
  3. Buffer zone planned, if so, details
  4. Activities likely to come up in the surrounding areas from the project during construction & operation phases
  5. Agencies and the measures proposed to regulate unplanned developments like slums, shops, etc.
  
- State briefly impacts predicted on the quality and quantity of natural resources from the proposed new development:
  - Air quality
  - Vegetation
  - Animal/Aquatic life
  - Surface/ Ground Water
  
- State briefly impacts predicted on the quality and quantity of manmade features from the proposed new development:
  - Transport Linkages:
    - a. Road
    - b. Rail
    - c. Water
    - d. Air
    - e. Others
  - Heritage areas/ecologically sensitive areas
  
- Landscaping /Tree Plantation
  - i. Numbers and types of trees to be planted inside & outside the plot:
    - a. Parks and gardens
    - b. Along roads and pedestrian movement
    - c. In public areas
  - ii. Other special features of proposed landscape design
  - iii. Likely impacts from proposed landscaping
  
- Any other relevant information of environmental significance-such as disabled-friendly design, flyash utilization, Greening of supply chain, heat islands/inversions/venturi effects, Timber-free construction, Green rating, energy efficiency for lighting & ventilation, Intelligent building, life cycle costs, measurable design impacts on human health, indoor environment related to occupational health etc.

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## CHECKLIST OF ENCLOSURES

1. Land purchase agreement
2. Building approvals from local authority
3. Landuse/Zoning particulars-relevant portions from the prevailing local Regulations
4. Landscape plans with proposed tree plantation
6. Rainwater harvesting plan
8. Sewage treatment plant-details with a writeup
9. Water balance statement
10. Cost estimates inclusive of land cost
11. Fire protection measures & approvals obtained
12. Public hearing report
13. Incorporation of points raised in public hearing
14. Approval of competent authorities in case of conversion of agricultural land, change of landuse, DC rules
15. Construction schedule (CPM/PERT chart)
16. Statement on the machinery & manpower during construction
17. Approval from special bodies (such as Urban Art Commission or heritage areas)
18. Approvals if applicable from ASI, Civil Aviation, ecologically sensitive areas, coastal development regulations,
19. Solid waste collection /disposal plan
20. Vehicle parking and management
21. Storm water drainage
22. Comprehensive listing of building materials for construction
23. Energy balance studies, if carried out
23. Executive summary of REIA
24. Rapid EIA of proposed project
25. Schedule-II Application Form for EC

*May be addressed to:*

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