

QUESTIONNAIRE FOR ENVIRONMENTAL APPRAISAL
***(FOR HOTELS/BEACH RESORTS AND OTHER PROJECTS
LOCATED IN CRZ EXCEPT PORTS & HARBOURS)***

Note 1 : All information given in the form of annexures should be part of this file itself. Annexures as separate files will not be accepted.

Note2 : Please enter x in appropriate box where answer is Yes/No

I. General Information

A. Name of the Project

1. Existing project/proposed project/
expansion project/modernization project :
2. If Existing/expansion/
modernization project, whether
environmental clearance
has been obtained :

Square Metres

B. Size. (Plinth Area)

C. Location

Village	Tehsil	District	State

D. Geographical Information

1. Survey no.

2. Latitude

3. Longitude

4. Elevation above Mean
Sea Level (Metres)

5. Total Area envisaged for
setting up of project (in ha.)

- 6. Nature of terrain
- 7. Nature of Soil (permeability)
- 8. Stability Status of the Coast ,i.e.

(i) Is it stable?	Yes	<input type="text"/>	No	<input type="text"/>
(ii) Is it accreeding?	Yes	<input type="text"/>	No	<input type="text"/>
(iii) Is it eroding?	Yes	<input type="text"/>	No	<input type="text"/>
(iv) Is it prone to flooding?	Yes	<input type="text"/>	No	<input type="text"/>

- 9. Nature of Coast, i.e.,

(i) Rocky	<input type="text"/>
(ii) Sandy	<input type="text"/>
(iii) Others (Please specify)	<input type="text"/>

II. Current land use of the proposed project site Area (in hectares)

A. Agricultural	
1. Irrigated	<input type="text"/>
2. Unirrigated	<input type="text"/>
B. Homestead	<input type="text"/>
C. Forest	<input type="text"/>
D. Notified Industrial Area/Estate	<input type="text"/>
E. Grazing	<input type="text"/>
F. Fallow	<input type="text"/>
G. Mangroves	<input type="text"/>
H. Orchards	<input type="text"/>
	<input type="text"/>

Hotels/Beach Resorts and Other Projects

- I. Sand dunes
- J. No development zone
- K. Marshes
- L. Others(Please specify)
- Total

III. Alternate sites considered from environmental consideration

- A. _____
- B. _____
- C. _____
- D. _____

IV. Reason for selecting the proposed site from environmental consideration.

V. Does the proposed project site conform to the stipulated land use as per the local land use plan ?

Yes No

VI. What is the categorization of the area (as per approved CZMP)?

CRZ-I CRZ-II CRZ-III
 CRZ-IV

VII. Does the proposed activity qualify under the category of permissible activity ?

Yes No

If yes, under what provision is it permitted ?

S.No.	Provision No.
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VIII. Does the proposed project site involve any breeding or nesting ground ?

Yes No

If yes, provide the following details:

- A. Name of the aquatic organism
- B. Type of habitat
- C. Period of year in which activity takes place

IX. Site preparation.

- A. Is the proposed site located in low-lying area ?

Yes No

- B. Level before filling (above MSL, in m)

- C. Level after filling (above MSL, in m)

- D. Details of fill material

Quantity of Fill Material required (in cu. m.)	Source

E. Does the site preparation require cutting of trees ?

Yes No

F. If yes, how many trees are proposed to be cut ?

1. Does it include any protected/endangered species (as per BSI list) ?

Yes No

2. If yes, provide detail.

G. Does the project involve construction on any sandy stretch ?

Yes No

If yes, please furnish detail.

H. Height (above MSL in m.)

I. Does the project involve extraction of sand, leveling or digging of sandy stretches within 500 mts of high tide line

Yes No

If yes, mention the activity involved and area.

1. Activity

2. Area (sq. metre)

J. Does the project involve any land reclamation ?

Yes No

If yes, pl. provide the following details.

1. Activity for which land to be reclaimed

2. Area of land to be reclaimed (ha)

K. Does the project involve any dredging ?

Yes No

If yes, provide details (capital/maintenance,
Extent of dredging, disposal of dredged material etc)

L. Is any sand proposed to be removed from sand dunes?

Yes No

M. Whether there will be any change in the drainage pattern after the proposed activity ?

Yes No

If yes, what are the changes ?

N. Does the project involve cutting/clearing of mangroves ?

Yes No

If yes, give detail

Area (ha)

Species

Existing health

O. Whether there will be any ingress of saline water into ground/surface water/soil due to project ?

Yes No

X. Please indicate area earmarked for each of the following (in Square meters)

S.No.		0-200 mt	200-500 mt	Beyond 500 mt
1	Area of all buildings			
2	Courts			
3	Playground			
4	Swimming pool			
5	Lawns			
6	Amusement park			
7	Landscaping			
8	Approach Road			
9	Tree plantation			
10	Waste water treatment			
11	Solid waste disposal			
12	Others (Please specify)			
TOTAL				

XI. Project Details.

A. Total Area of the plot (in square metres)

1. Area within 200 mts of HTL

- 2. Area between 200-500 mts of HTL
- 3. Area beyond 500 mts of HTL

B. Width of the plot along the coastline (in metres)

C. Width of access road to the beach through the property
on either side of the Hotel/Beach Resort left for public access (in metres)

1. Left side

2. Right side

D. If the width of the plot along the coast is more than 500 metres , whether additional public access to the beach has been provided through the property ?

Yes No

If yes,

1. Width of public access road (in metres)

2. Area of public access road (in metres)

3. Distance along the coastline between two public
access roads to the beach(in metres)

E. Details of Buildings to be constructed (layout to be provided)

No. of buildings	Area of each building (Sq.metres)	Distance from HTL (metres)	Height of each building (metres)

F. Floor space index / Floor space area. In metres

1. Ground coverage between 200-500 metres
of HTL

2. Coverage of first floor

3. Total floor area (1+2)

4. 50% of plot area within 200 metres of HTL

5. Plot area between 200-500 metres of HTL

6. Total (4+5)

7. Floor space index (3/6)

G. Is it proposed to construct any basement ?

Yes No

If yes,

1. Depth of Basement (meters)

2. Area of basement (Sq. meters)

3. Activity/Purpose

4. Maximum Ground water Table (metres)

5. Has the approval of Ground Water Board been obtained? Yes No

H. Whether construction would be consistent with the surrounding landscape and local architecture ?

Yes No

If no, reason for adopting different architectural style may be specified.

I. Number of rooms to be constructed

1. Ground floor

2. First floor

XII. Details of the location:

	Sea*	Other Water bodies Rivers/creek/lake etc*. (Please specify)
Distance of seaward boundary of the plot (in m)		
Distance of seaward boundary of construction (in m.)		

* From high tide line

XIII. Surroundings.

A. Whether there are any structures existing within 1 km of the periphery along shore of the proposed site ?

Yes No

B. If yes, please provide details along with a layout plan:

1. Distance of each structure from the boundary of the

proposed site

2. Distance of each structure from the HTL

3. CRZ classification as per approved CZMP

XIV. Whether any of the following exist within 7 km. of the periphery of the project site. If so, please indicate aerial distance and the name of the site.

S.No.	Name	Aerial Distance (in km)
1	National Park	
2	Marine Park	
3	Sanctuary/Tiger Reserve/Elephant Reserve/ Turtle Nesting Ground	
4	Core Zone of Biosphere Reserve	
5	Reserved Forest	
6	Wildlife Habitat	
7	Habitat of endangered/exotic species	
8	Coral Reef	
9	Mangroves	
10	Lakes/Reservoirs/Dams	
11	Breeding Site	
12	Nesting Site	

XV. Transportation system

Type

Transportation System Road Rail Airport

- A. Existing
- B. After the proposed activity
- C. Whether existing network is adequate

Yes No

D. If not, provide details of alternative proposal

XVI. Raw material transportation to the site , (Quantity in tonnes per day)

A. During construction

S.No.	Item	Quantity	Mode of Transportation
1	Brick		
2	Sand		
3	Steel		
4	Others (Please Specify)		

B. After construction

	No of trips/day	Mode
Material	<input type="text"/>	<input type="text"/>
Manpower	<input type="text"/>	<input type="text"/>

XVII. Whether the area is affected by cyclone

Yes

No

If yes provide

- A. Maximum wind speed reached
- B. Frequency of cyclone
- C. Distance affected from high tide line

XVIII. Ambient Air Quality (for RPM,SPM, SO₂, NO_x, CO)

Procedures adopted should be as per guidelines of CPCB and should cover one full season excluding monsoon.

Date, Time & Location	Concentration as monitored (in g/cu.m.) SPM,SO ₂ ,Nox,CO	Permissible Standard(As per SPCB guidelines)	Remarks (Name of the instrument and sensitivity)

XIX. Water Requirements (cum./day)

Purpose	Avg. Demand	Peak Demand	Source	Type Treated / untreated/Fresh/Recycled	Remarks
A) <u>Project Area</u> 1. Washing 2. Dust suppression 3. Drinking 4. Green Belt 5. Fire Service 6. Others (Pl. Specify)					

B) <u>Township Area</u>					
1. Green Belt					
2. Drinking					
3. Other(Please Specify)					
TOTAL					

XX. Source of Raw Water Supply (Net)

S.No.	Source	Cu.m./hr	Cu.m./day
1	Sea		
2	River		
3	Groundwater		
4	Rain water harvesting		
5	Municipal water supply		
6	Others (Pl. specify)		

XXI. In case of groundwater from Dug wells in the CRZ area

A. No. of wells(existing) within	No.	Yield (kl/day)
1. 0-200 metres	<input type="text"/>	<input type="text"/>
2. 200-500 metres	<input type="text"/>	<input type="text"/>
B. New wells (proposed) within		
a) 0-200 metres	<input type="text"/>	<input type="text"/>
b) 200-500 metres	<input type="text"/>	<input type="text"/>

XXII. Lean Season flow in case of surface water (cum./sec)

XXIII. Groundwater

A. Recharge Rate (cubic meters)

B. Withdrawal rate (cubic meters)

Groundwater Table:

A. Pre monsoon (metres BGL)

B. Post monsoon (meters BGL)

XXIV. Competing Users of the Water Source

S.No.	Usage	Present Consumption (cu.m/day)		Addition Proposed as per local plan		Total	
		Surface	Ground	Surface	Ground	Surface	Ground
1	Irrigation						
2	Industry						
3	Drinking						
4	Others (Please specify)						
Total							

XXV. Physico chemical analysis of Raw Water at intake point

XXVI. Physico chemical analysis of treated water to be used in the Project/Township (Envisaged Standards).

XXVII. Waste Water Management

A. Waste water and /or sewage treatment plan

B. Composition/characteristics of discharge before and after treatment

Item	Characteristics	
	Before	After

C. Daily discharge (cu.m./day) from different sources

1. Toilet/sewage	<input type="text"/>
2. kitchen	<input type="text"/>
3. Workshop	<input type="text"/>
4. Other	<input type="text"/>
Total	<input type="text"/>

D. Quantity of water recycled

1. (in %)	<input type="text"/>
2. (in cu.m./day)	<input type="text"/>

E. Details of recycling mechanism

1. During monsoon season
2. Other than monsoon season

F. Mode of final discharge/disposal

S.No.	Mode	Length (in m.)	Quantity(in cu.m./day)
1	Open Channel		
2	Pipeline		
3	Others (Please specify)		

G. Point of final discharge :

S.No.	Final Point (please specify the location)	Quantity discharged (in cum.)/day
1	Agricultural land	
2	Fallow Land	
3	Forest Land	
4	Green Belt	
5	River	
6	Lake	
7	Estuary	
8	Sea	
Total		

H. Lean season flow rate in case of
river/stream/creek (cumecs)

I. Downstream users of water (cusecs/cumecs)

1. Domestic

2. Irrigation

3. Fisheries

4. Others (Please specify)

Total

J. Analysis of river water 100 metres upstream of discharge point and 100 metres downstream of discharge point and details of aquatic life in case of discharge into water bodies.

XXVIII. Solid Waste

A. Details

S.No.	Source	Qty (TPM)	Form	Composition
1	Raw Water treatment			
2	ETP			
3	Others			

B. What are the possibilities of recovery and recycling of wastes?

C. Possible users of Solid Waste.

D. Method of disposal of solid waste

Method

Qty (TPM)

E. Landfill

F. Incineration

G. Other (pl. specify)

H. In case of landfill

1. Is solid suitable for landfill

Yes

No

2. Dimensions

3. Life of landfill (years)

4. Proposed precautionary and mitigation measures

I. In case of incineration:

Details of incinerator

1. Size

2. Capacity

3. Fuel

J. Likely composition and quantum of emissions

S.No.	Components	Quantity (in cu.m/hr)

K. Frequency of incineration/annum

L. Others alternative proposed along with details

XXIX. Noise level (dB)

A. Source

B. Level at Source (db)

C. Level at project boundary (dB)

D. Abatement measures

XXX. Fuel/Energy Requirements

A. Total Power Requirement (MW)

S.No.		Project	Other(please specify)
	Present (in existing)		
	Proposed		
	Total		

B. Source of Power (MW)

S.No.		SEB/Grid	Captive power plant	DG Sets
1	Present			
2	Proposed			
	Total			

C. Details of Fuel used

S.No	Fuel	Daily Consumption (TPD)		Calorific value (Kcals/kg)	% Ash	% Sulphur
		Existing	Proposed			
1	Naphtha					
2	HSD					
3	LSHS					
4	Furnace Oil					
5	Coal					
6	Lignite					
7	Other (Please specify)					

XXXI. Occupational Health

- A. What are the major occupational health and safety hazards anticipated
- B. What provisions have been made/propose to be made to conform to health/safety requirements.
- C. Details of personal protective equipment provided/to be provided to the workers

XXXII. Green Belt

- A. Total area of project / township (in ha.)
- B. Area already afforested (for existing projects), in ha.
- C. Area proposed to be afforested (in ha.)
- D. Width of green belt (minimum, in m.)

E. Trees planted & proposed	Nos.	Survival Rate	Species
Planted	<input type="text"/>	<input type="text"/>	
Proposed	<input type="text"/>		
Major species	<input type="text"/>		

XXXIII. Construction Phase

- A. Estimated duration of construction
- B. Number of persons to be employed for construction
- a) Peak
- b) Average
- C. What provision has been made for the sewage treatment for the construction workers?
- D. How the fuel (kerosene/wood, etc.) requirement of labour force will be met to avoid cutting of trees from the adjoining areas
- E. Measure for Health care with emphasis on protection from endemic diseases.

XXXIV. Socio economic profile

A. Human Settlement

S.No.		Aerial distance from the periphery of the site		
		Upto 500m from periphery	500m to 3000 m from the periphery	3000m to 7000m from the periphery
1.	Population			
2.	Number of Houses			
3.	Present Occupational Pattern			

B. Economic activity

S. No.	Population	Occupation (Agriculture/horticulture/ fishing/ tourism/transport/ construction)	Average Income per annum

XXXV. Rehabilitation & Resettlement plan

A. Population to be displaced

S.No.	Name of Village	Population		
		Land oustees only	Homestead Ousteers only	Land and Homestead Ousteers
1				
2				
3				

B. Rehabilitation Plan for oustees

C. Site where the people are proposed to be resettled
and the facilities to be provided at the new site

D. Compensation package

E. Agency/Authority responsible for their resettlement.

F. Approval/comments of competent authority

XXXVI. Pollution Control

A. Details of Pollution Control Measures/Environmental safeguards:

S.No.	Existing	Proposed to be Installed
1.	Air	
2.	Water	
3.	Noise	
4.	Solid Waste	

C. Protection of

1. Forest
2. Agricultural land
3. Grazing land
4. Top soil
5. Natural resources
6. Sand dune
7. Hill feature
8. Reclaiming borrow lists
9. Low lying list
10. Soil and slope stabilization

D. Preventing siltation

D. For Existing Units Only

1. Difficulties encountered in implementing pollution control measures.
2. Efficiency of each pollution control equipment/system installed.

S.No.	Name of the System Equipment	Design Efficiency %	Present Working efficiency %
1			
2			
3			

Proposed Units

S.No.	Name of the System Equipment	Design Efficiency %	Present Working efficiency %

XXXVII. Expenditure on Environmental Measures

- A. Capital cost of the project (as proposed to the funding agency/financial institutions

(Rs. Lakhs)

B. Cost of environmental protection measures (Rs. Lakhs)

S.No.		Recurring Cost per annum	Capital Cost
1	Pollution Control		
2	Pollution Monitoring		
3	Solid Waste Management		
4	Occupational Health		
5	Green Belt		
6	Others (Pl. Specify)		
Total			

XXXVIII. Public Hearing

A. Date of Advertisement:

B. Newspapers in which the advertisement appeared

C. Date of Hearing

D. Panel Present

E. List of Public present along with addresses and occupation

F. Summary/details of public hearing

Issues raised	Recommendation of panel	Response of Project Proponents

The data and information given in this Performa are true to the best of my knowledge and belief:

Date:

Signature of the Applicant with full name & address.

Place:

Given under the seal of organisation on behalf of whom the applicant is signing.

**LIST OF DOCUMENTS TO BE ATTACHED IN RESPECT OF PROJECTS FALLING
WITHIN COASTAL REGULATION ZONE**

S. No	Document to be attached
1	Location Map delineating LTL HTL, 200 metre line, 500 metre line, and extent of Coastal Regulation Zone as per Naval Hydrographer Chart / Chief Hydrographer demarcation duly certified by the competent authority
2	Topographic map of the site (1:2500 scale) indicating contours sand dunes and ecologically sensitive features.
3	Confirmation from the Department of Environment of the State Government/ Union Territory Administration indicating the classification of the area, their observation/ recommendation on the proposal and confirmation that the proposal is as per the approved Coastal Zone Management Plan
4	Topographic map covering 10 kilometres radius from the periphery of the site indicating mangroves, mudflats, nesting grounds for aquatic animals, migration path of turtles and other ecologically sensitive areas.
5	General Lay out of the site (1:2500 Scale) showing installations already developed, approach roads and other infrastructure facilities constructed/Planned for the project, location of dug wells, sand dunes, effluent treatment facilities/Septic tank, courts, Lawns, tree plantation, Swimming pool etc and their distance from High Tide Line.
6	Comments/observation of the Chief Wildlife Warden
7	Plan of the area showing existing structure within one kilometre
8	Plan /Elevation of the buildings proposed clearly demarcating the access road to the public on either side of the proposed construction if it is a beach resort/ hotel in accordance with the provisions of the guidelines given in CRZ notification.
9	Approval of Electricity connection and certificate of supply of electricity
10	Lay out of green belt clearly indicating the width on all side's trees, lawns, bushes etc.
11	Approval of Tourism Department
12	No objection certificate from the State Pollution Control Board
13	No objection certificate from the State Ground water Board
14	A certificate from water supplies authority regarding its availability in case water from other sources is to be obtained.