

QUESTIONNAIRE FOR ENVIRONMENTAL APPRAISAL
(FOR ROAD/HIGHWAY PROJECTS)

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 :

B. Length (in kilo metres)

C. Location

Stretch of the Road/Alignment	Village	Tehsil	District	State

D. Geographical information

1. Latitude From To
2. Longitude From To
3. G.T. Sheet No. (Survey of India Map No.).
4. Elevation above Mean Sea Level (metres)

	Min.	Max.
5. Total Area proposed for the Project (in ha.)		<input style="width: 100px; height: 20px;" type="text"/>
6. Nature of Terrain		
7. Nature of Soil (Clayey, Sandy, silty, loam etc)		<input style="width: 150px; height: 25px;" type="text"/>
8. Permeability along the route in various Sections		<input style="width: 150px; height: 25px;" type="text"/>

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

A. Agricultural	<input style="width: 100px; height: 25px;" type="text"/>
1. Irrigated	<input style="width: 100px; height: 25px;" type="text"/>
2. Unirrigated	<input style="width: 100px; height: 25px;" type="text"/>
B. Homestead	<input style="width: 100px; height: 25px;" type="text"/>
C. Forest	<input style="width: 100px; height: 25px;" type="text"/>
D. Notified Industrial Area/Estate	<input style="width: 100px; height: 25px;" type="text"/>
E. Grazing	<input style="width: 100px; height: 25px;" type="text"/>
F. Fallow	<input style="width: 100px; height: 25px;" type="text"/>
G. Mangroves	<input style="width: 100px; height: 25px;" type="text"/>
H. Orchards	<input style="width: 100px; height: 25px;" type="text"/>
I. Sand dunes	<input style="width: 100px; height: 25px;" type="text"/>
J. No development zone	<input style="width: 100px; height: 25px;" type="text"/>
K. Marshes	<input style="width: 100px; height: 25px;" type="text"/>
L. National Park/Sanctuary	<input style="width: 100px; height: 25px;" type="text"/>

Total

III. Alternate Routes/Alignments considered

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

IV. Reason for selecting the proposed Route/Alignment:

V. Land use plan

- A. Does the proposed project conform to the approved land use all along the route/alignment? (To be certified by the concerned Department of State Government).

Yes

No

- B. If not, clearly indicated, which of the stretches are not as per approved land use.

- C. Does it conform to the Regional Development Plan?

Yes

No

VI. Site Preparation

- A. Is the proposed route/alignment 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 required

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

E. Gradient details

F. Would the above filling result in complete/partial filling of water Bodies ?

G. Does the site involve stripping?

Yes

No

If yes, provide the following details:

1. Size of the area to be stripped.
2. Location
3. Soil type
4. Volume and quantity of earth to be removed
5. Location of dump site
6. Proposal for utilisation of removed topsoil.

H. Does it involve cutting?

Yes

No

If yes, please furnish the following details:

1. Size of the area to be cut.
2. Depth of cut
3. Location
4. Soil type
5. Volume and quantity of earth and other material to be removed

6. Location of dump site.

I. Does it involve tunneling?

Yes

No.

If yes, please furnish the following details:

1. Lithology
2. Geological structural fraction
3. Diameter (meters.)
4. Length (kilometer.)
5. Location

J. Does the site preparation require cutting of trees?

Yes

No

If yes, please furnish the following details:

1. How many trees are proposed to be cut?

2. Species of the above trees

3. Are there any protected/endangered species?

Yes

No.

If yes, provide details

VII. In case the route/alignment falls totally or partially in the CRZ area

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

CRZ-I

CRZ-II

CRZ-III

CRZ-IV

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

Yes No

C. If yes, under what provision is it permitted?

Sl. No.	Provision No.

D. In case the road passes through a flood plain of a river, please furnish:

1. Detailed micro-drainage
2. Flood passages
3. Flood periodicity in the area

E. Does the proposed project involve construction on any sandy stretch?

Yes No

If yes, please furnish detail

F. Height (above MSL in metres.)

G. 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. Stretch

2. Area (sq. metre)

H. Does the project involve any dredging?

Yes No

If yes, please provide the following details (capital/maintenance):

Extent of dredging, disposal of dredged material etc)

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

Yes No

J. Does the project involve cutting/destroying of mangroves?

Yes No

If yes, give detail

1. Area

2. Species

3. Existing health

VIII. Details of the location:

	Sea	Other Water Bodies River/Creek/Lake ,etc (Please specify)
Distance of seaward boundary from the edge of the alignment (in m.)		
Distance of seaward boundary of		

construction (in m.)		
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IX. 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
- D. Independent report of biohabitat study may be furnished.

X. Does the project have any adverse effect on biodiversity?

If so, details of flora and fauna so affected:

XI. Does the project involve any land reclamation?

Yes No

If yes, please provide the following details

- A. Activity for which land to be reclaimed
- B. Area of land to be reclaimed (Hectares)

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

Yes No

If yes, what are the changes?

A. What is the maximum extent

B. Is any additional area to be flooded

XIII. Does the proposed alignment/route involve migratory path of animals?

Yes No

If yes, please provide the following:

- A. Name of fauna
- B. Habitat
- C. Period of the year in which activity take place

XIV. Project Details (A summary of project proposal shall be enclosed).

A. Length of New alignment proposed (kms)

B. Width of the new alignment (metres)

C. Length of existing alignment proposed to be Strengthened/widened (kilometers.)

D. Width of the existing alignment (metres)

E. Width of the existing alignment after widening (metres)

F. Total length of the alignment (kilometres)

G. No. of Bridges Major

Minor

H. Length of Bridges (metres)

I. Width of Bridges (metres)

J.	No.of Culverts	<input type="text"/>
K.	Length of Culverts (metres)	<input type="text"/>
L.	Number and distance (metres) between underpasses	<input type="text"/>
M.	No.of intersections	<input type="text"/>
N.	Length of Intersection (metres)	<input type="text"/>
O.	No. of Railway crossings	<input type="text"/>
P.	Length of Railway crossings (metres)	<input type="text"/>
Q.	No.of Villages through which Alignment passes through	<input type="text"/>
R.	Population of the villages	<input type="text"/>

XV. Raw material required during construction

S.No	Item	Quantity (Tonnes)	Mode of Transport	Source
1	Bluemetal			
2	Bricks			
3	Sand			
4	Cement			
5	Bitumen			
6	Diesel			
7	Others(Please specify)			

XVI. Water required during construction:

A. Water Requirements (cu.m./day)

S.No	Purpose	Average Demand	Peak Demand	Source	Type Treated/ Untreated/Fresh/ Recycled	Remarks
1	Road making					
2	Dust Suppression					
3	Drinking					
4	Others (Please specify)					
TOTAL						

B. Source of Raw Water Supply (Net)

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

XVII. Whether there will be any ingress of saline water into ground water due to project?

Yes No

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

S.No	Item	Name	Aerial Distance (in km)
1	National Park		
2	Marine Park		
3	Sanctuary/Tiger Reserve/Elephant Reserve/Turtle westing 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		

XIX. 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 (Locations should be so selected to represent the varying geographical locations and sensitive receptors)

S.No	Stretch of the road	Date, Time & Location	Concentration as monitored (in ug/m ³) SPM, SO ₂ , NO _X , CO	Permissible Standard (As per SPCB guidelines)	Remarks (Name of the instrument and sensitivity)

XX. Solid Waste

A. Solid Waste generated during Road Construction (Tonnes/Day)

1. Top Soil

- 2. Overburden
 - 3. Others (Please specify)
- Total

B. Possible users of Solid Waste

C. Method of disposal of solid waste

Method		Quantity (TPM)	
1.	Landfill	<input style="width: 100%; height: 25px;" type="text"/>	
2.	Others(Please specify)	<input style="width: 100%; height: 25px;" type="text"/>	
3.	In case of landfill		
a)	Is solid suitable for landfill	Yes <input style="width: 100%; height: 25px;" type="text"/>	No <input style="width: 100%; height: 25px;" type="text"/>
b)	Dimensions	<input style="width: 100%; height: 25px;" type="text"/>	
c)	Life of landfill	<input style="width: 100%; height: 25px;" type="text"/>	
d)	Proposed precautionary and mitigation measures		
e)	Other alternative proposed along with details		

XXI. Noise level (dB)

S.No	Stretch of the Road (Locations Should be so selected to represent the varying geographical locations and sensitive receptors)	Noise before Construction	Noise after Construction	Abatement Measures
1				
2				
3				

**XXII. Projected Air Quality (taking into account the traffic projections on this road).
(SPM, SO₂, NO_X, CO in ug/m³)**

S.No	Pollutant	Before Constructions	After Construction
1	SPM		
2	SO ₂		
3	NO _X		
4	CO		

XXIII. Storage (of inflammable/explosive/hazardous/toxic substances)

S.No	Name	Consumption (in TPD)	Maximum Quantity at any point of time (tonnes)	Means of transportation
1	Bitumen			
2	Diesel			
3	Others (please specify)			

XXIV. Occupational Health

- A. What are the major occupation health and safety hazards anticipated including due to use of explosives, if any?
- B. What provisions have been made/proposed to be made to conform to health/safety requirements?
- C. Details of personal protective equipment provided/to be provided to the workers

XXV. Green Belt

- A. Total area of project (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.) along the alignment
- E. Trees planted and proposed

 - Nos.
 - 1. Planted
 - 2. Proposed
 - 3. List of species

- F. Proposal for maintenance of plantation

XXVI. Construction Phase

- A. Estimated duration of construction
- B. Number of persons to be employed for construction
 - 1. Peak
 - 2. Average
- C. Proposal for employment of local people.

- D. What provision has been made for the sanitation for the construction workers ?
- E. How the fuel (kerosene/wood, etc) requirement of labour force will be met to avoid cutting of trees from the adjoining areas.
- F. Measures for Health care with emphasis on protection from endemic diseases.

XXVII. Socio-economic profile

A. Human Settlement

	Aerial distance from the periphery of the site		
	Upto 500 m From the Periphery	500 m to 3000 m From the Periphery	3000 m to 7000 m From the periphery
Population			
Of which SC/ST			
Number of Houses			
Present Occupational Pattern			

B. Economic activity

S No.	Population	Occupation(Agriculture/Horticulture/Fishing/Tourism/Transport /construction)	Average Income per annum

XXVIII. Rehabilitation & Resettlement Plan including vocational training and other avenues of employment

A. Population to be displaced

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

B. Rehabilitation Plan for Ousteers

C. Site where the people are proposed to be resettled

D. Compensation package

E. Agency/Authority responsible for their resettlement.

XXIX. Does it involve displacement of ethnic minority

Yes No

If yes, please furnish details

S.No	Name of the community	Number of Males	Number of Females	Total

A. Please specify any special measures for their rehabilitation.

XXX. 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

B. Protection of Forest/National Park./Sanctuary/Mangroves

1. Agricultural land
2. Grazing land
3. Top soil
4. Natural resources
5. Sand dunes and mudflats
6. Hill feature
7. Reclaiming borrow areas
8. Low-lying areas
9. Soil and slope stabilization
10. Preventing siltation
11. Archaeological and other Heritage sites

XXXI. 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	Green Belt		
5	Others (Please Specify)		
Total			

XXXII. 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

S.No	Summary/details of public hearing Issues raised	Recommendation of panel	Response of Project Proponents
1			
2			
3			
4.			

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.