



## ASSESSMENT CUM COMPARISON

### ENVIRONMENT IMPACT ASSESSMENT AND CUMULATIVE IMPACT ASSESSMENT

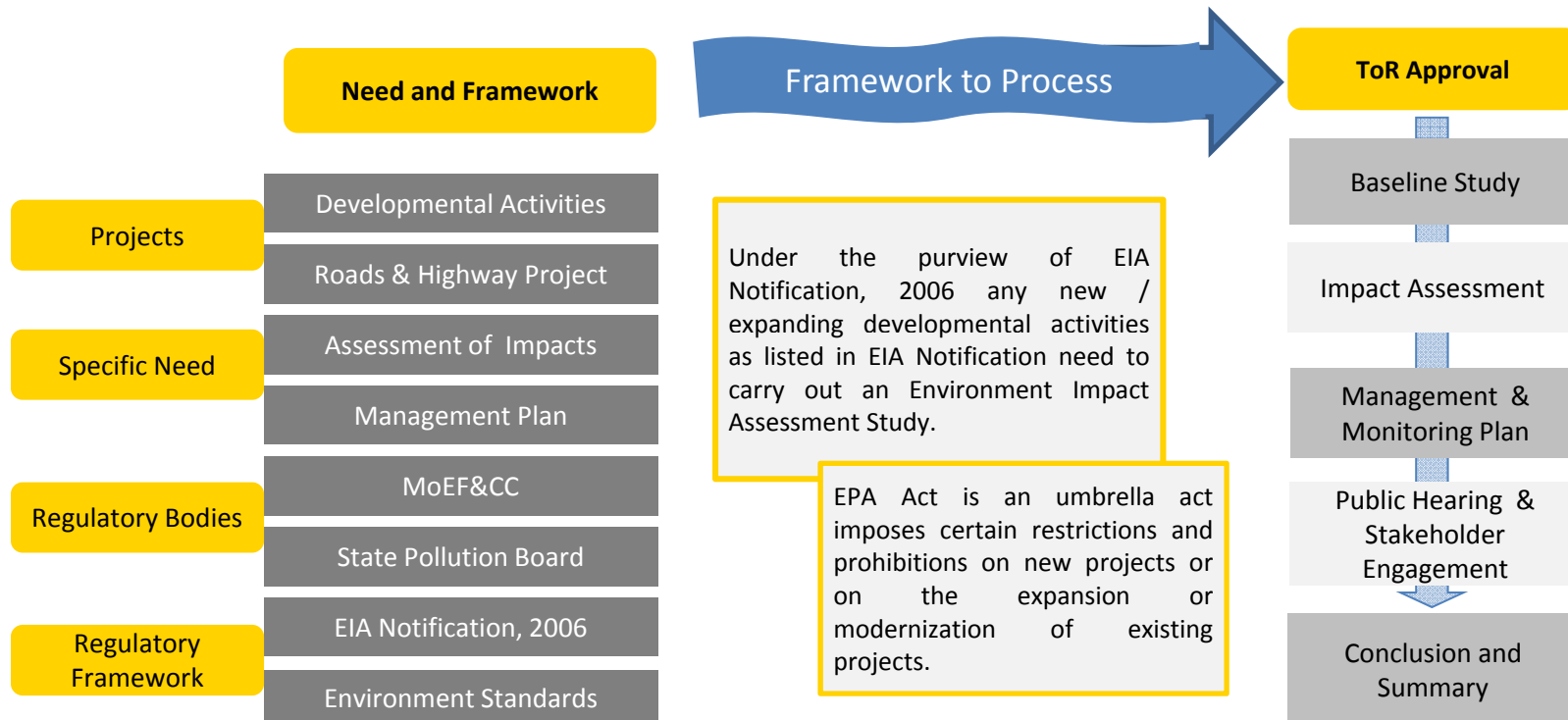
A CASE STUDY ROADS & HIGHWAY PROJECT

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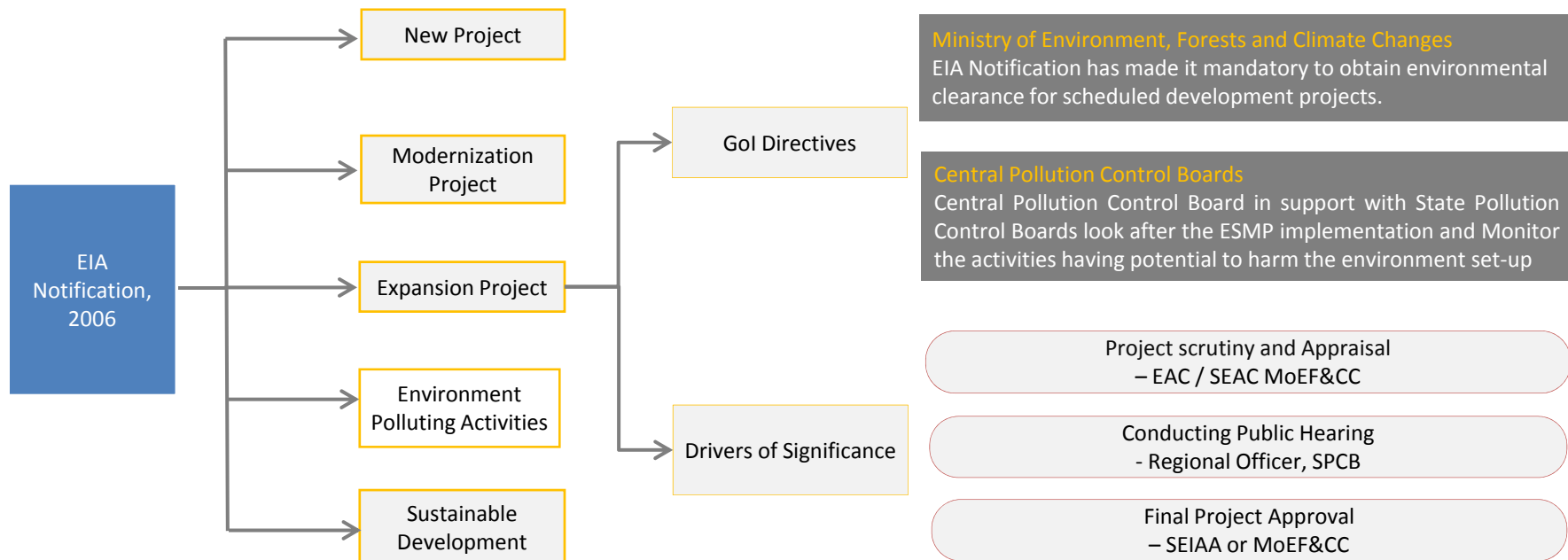
# ENVIRONMENT IMPACT ASSESSMENT

## An Introduction



# Significant Drivers EIA Framework Execution

Ministry of Environment, Forests & Climate Change is the regulatory body looking after EIA Framework in India.



# Pro and Cons Environment Impact Assessment

## A general briefing for Need of Cumulative EIA

### Pros

Tool for assessment of Project Specific Impact Assessment

Project specific management plan development

Stakeholder Engagement in terms of Public Hearing and Consultation

### Cons

Limited for Project Specific Impacts

Not discussed about complexity of other project impact

Public Hearing is normally for the specific project only

## Pro and Cons Environment Impact Assessment

### Major Clearances Involved for Roads & Highway Projects

Wildlife Clearance or NOC

Forest Clearance or NOC

CRZ Clearance

Borrow Area Identification and NOC

Forest Right Acts

Land Acquisition

Public Hearing

Environmental Clearance

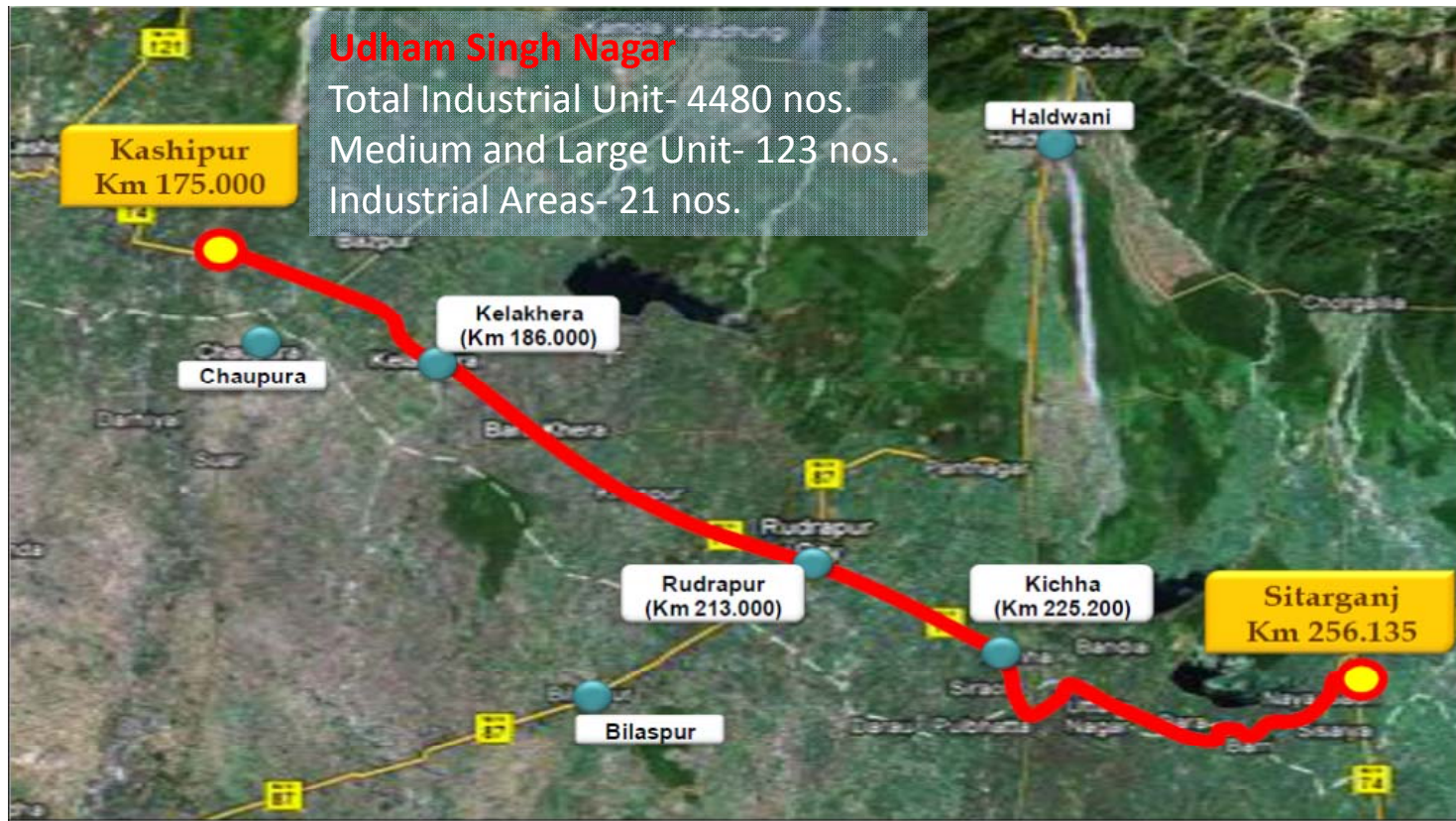
ROB/ RUB Clearance

Highway Crossing

Utility Shifting

## Case Study

### Kashipur-Sitarganj Section (NH-74), Uttarakhand and Uttar Pradesh



## Case Study

### Kashipur-Sitarganj Section (NH-74), Uttarakhand and Uttar Pradesh

#### Salient Features

- ▶ Project- Expansion / Upgradation of existing 2 lane stretch of NH-74 to 4 lane with paved shoulder
- ▶ Category of the Project- A
- ▶ Total Stretch- 77.200 km (175.00 to 256.900 km)
- ▶ Project Villages- 58 Nos.
- ▶ Project Districts- 3 nos. (Udham Singh Nagar, Rampur and Bareilly)
- ▶ Project State- 2 Nos. (Uttarakhand and Uttar Pradesh)

#### Major Impacts Assessed

- ▶ Ecological Impacts
  - Forest Area Diversion- About 39 ha
  - Tree Felling- 9834 nos.
- ▶ Social Impacts
  - Land Acquisition- 174.50 ha
  - Affected Structure- 454
- ▶ Air Pollution due to Construction Activities
- ▶ Water Pollution due to Run-off



## Case Study

### Kashipur-Sitarganj Section (NH-74), Uttarakhand and Uttar Pradesh

#### Existing Legislative Framework

Category A	Category B
<ul style="list-style-type: none"><li>i) New National High ways; and</li><li>ii) Expansion of National High ways greater than 100 km involving additional right of way or land acquisition greater than 40m on existing alignment and 60 m on re-alignment or by-passes</li></ul>	<ul style="list-style-type: none"><li>i) All New State Highway Projects;</li><li>ii) State Highway expansion projects in hilly terrain (above 1000 m AMSL) and or ecologically sensitive areas.</li></ul>



## Case Study

### Kashipur-Sitarganj Section (NH-74), Uttarakhand and Uttar Pradesh

#### Existing Legislative Framework

No Scoping	No Public Hearing
<ul style="list-style-type: none"><li>(i) All New Highway projects in border States</li><li>(ii) All Highway expansion projects</li></ul>	<ul style="list-style-type: none"><li>(i) Expansion of Roads and Highways which do not involve any further acquisition of land.</li><li>(ii) All linear projects such as Highways, pipelines, etc., in border States.</li></ul>

## Case Study

### Kashipur-Sitarganj Section (NH-74), Uttarakhand and Uttar Pradesh

#### Limitation and Further Scope

- ▶ EIA Report was prepared considering Project Related Impact Only
- ▶ Extent of the road improvement related Impact is limited to the close vicinity of the road only
- ▶ Udham Singh Nagar being an Industrial Region, Impact associated with other infrastructure development and Industrial Project was not the part of EIA Scope
- ▶ EIA Suggest the mitigation measures for Road Run-off but keep silent on run-off from other urban areas located or proposed to be located along the road, which together become a large quantity of run-off to manage
- ▶ EIA Report doesn't discuss about ribbon development expected along the road, which will have major impact on all Environment Component including Ecology and Social

## Case Study

### Kashipur-Sitarganj Section (NH-74), Uttarakhand and Uttar Pradesh

#### Limitation and Further Scope

- ▶ Impacts can further be identified and detailed assessment can be made considering the impact of other developmental activities and road associated facilities like Borrow Areas, etc.
- ▶ Any infrastructure development comes with other associated Industrial Growth, therefore, there is a clear need of the cumulative impact assessment in place of old version of Environment Impact Assessment.
- ▶ The EIA Report should reflect the cumulative assessment including regional development and other associated facilities likely with any of the development project

# Thank You



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