







DEVELOPING VIABLE TECHNICAL SOLUTIONS FOR PLANNING A LOW EMISSION ZONE (LEZ) AT LINGARAJ TEMPLE AREA (EKAMRAKSHETRA HERITAGE ZONE) IN BHUBANESHWAR



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Design, bid process management and implementation in 8 Smart Cities

- 1. Jabalpur
- 2. Ujjain,
- 3. Kochi
- 4. Trivandrum
- 5. Tumkuru
- 6. Shillong
- 7. Kavaratti
- 8. Gwalior

Niti Ayog - Air Connectivity for Islands of Lakshadweep (2017), Airport at Minicoy











Multi modal integration -Preparation of DPR for Development of the Phase II of Vyttila Mobility Hub Kochi Kerala

Feasibility study of privatization of ISBT Sarai Kale Khan

OBJECTIVE

Preparation of a detailed plan for **EkamraKshetra Low Emission Zones (LEZ)** to improve the **URBAN AIR QUALITY**







- Areas/zones having potential in cities for developing as LEZs
- 'EkamraKshetra' heritage zone (houses the famous Lingaraj Temple) is proposed to be developed as a LEZ by OPSCB (4.5sq.km)



BACKGROUND

- India globally ranks 5th Air pollution
- Jan 2019 MoEFCC launched NCAP to tackle increasing air pollution
- 132 **non-attainment cities** under National Clean Air Programme (NCAP)
- Non-Attainment City one that does not fulfil the national ambient air quality requirements based on data from 2011 to 2015
- 7 nonattainment cities in Odisha.
- Comprehensive Action Plan (CAP) for Clean Air for Non -Attainment Cities of Odisha prepared
- Low Emission Zones, Urban Vehicle Access Regulation Schemes, Zero Emissions Zones (ZEZs), Congestion charging zones
- Presently more than 250 LEZs across the globe*

Odisha State Pollution Control Board, proposed LEZ for Ekamra shetra

nternational





Source: various case studies

considered the first LEZ project.

LONDON & BERLIN CASE STUDIES - KEY TAKEAWAYS

Where LEZs have been implemented successfully there the existing polices and laws supported implementation of stringent measures proposed.



Restricted entry zones



Reduce parking in the zone and penalty on vehicles parked in No Parking zone & for idling.



Congestion charging for all/polluting vehicles.

7 am - 10 pm



Cities with Implemented and Planned Zero-Emission & Variants Globally* (Status July 2021)

London, United Kingdom Oxford, United Kingdom City of London, United Kingdom London Boroughs of Hackney and Islington, United Kingdom Paris, France Bergen, Norway Oslo, Norway Copenhagen, Denmark Amsterdam, Netherlands Berlin, Germany 30-40 Dutch cities Rotterdam, Netherlands

Luoyang, China Foshan, China Shenzhen, China

—Kevadia, India

- Currently, there are two near-ZEZs and two ZEZ-Fs implemented. These include the near-ZEZ in the London Boroughs of Hackney and Islington, the near-ZEZ pilot in the City of London, the ZEZ-F in Rotterdam, and the ZEZ-F pilot in Shenzhen.
- All of these are small in scale and the affected areas range from one street to around 20 sq.km.

	Zero-emission zone	Near-zero- emission zone		Zero-emission zone for freight	Near-zero-emission zone for freight
Implemented	_		Implemented	•	-
Planned	•	_	Planned	•	

Kevadia plans to convert the area surrounding the 182meter-tall Statue of Unity to a ZEZ, locally referred to as Electric Vehicles-Only Area, in a phased manner. The scheme was announced on June 6, 2021, by the Statue of Unity Area Development and Tourism Governance Authority.

*Zero-emission zones grant unrestricted access to battery electric vehicles (BEVs) and fuel cell electric vehicles (FCEVs) only. In addition to BEVs and FCEVs, near-zero-emission zones grant unrestricted access to plug-in hybrid electric vehicles (PHEVs). Zones for freight are defined in different ways, with affected vehicles ranging from urban delivery vehicles to medium- and heavy-duty trucks. Affected areas of zones range from a few streets to an entire city.

Source: International Council on Clean Transportation (ICCT), August 2021



KEY CONSIDERATIONS FOR DEVELOPING LEZ IN BHUBANESWAR



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