



## Vision 2035 and beyond: providing water and sanitation services in Kathmandu Valley

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# 20 Years Strategic Development Master Plan (2015-2035) of Kathmandu Valley

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## VISION

To establish Kathmandu Valley as a Livable City by enhancing the interdependence of Nature, Society and Culture

## MISSION

To establish Kathmandu Valley as a **Safe, Clean, Organized, Prosperous and Elegant** National Capital



# Kathmandu Valley Development Authority

## Key Functions

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### 1. Role of Planner

- Prepare an integrated development plan of Kathmandu Valley as a single environmental unit

### 2. Role of Developer

- Integrated development plan implementation
- Guided land development/land integration
- Public land conservation

### 3. Regulatory, Controlling and Prohibitory Role

- Road widening
- Planning Permit
- Apartment
- Group Housing
- Land development
- Preparation of standards and norms and regulatory function

### 4. Coordinating Role

- Coordinate different agencies for the overall development of Kathmandu Valley





# Water Supply and Sanitation in Strategic Development Plan

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- ❑ Desirable condition: 100% access to water supply (100 lpcd in urban areas)
- ❑ Key objectives are to:
  - Expedite water supply projects
  - Strengthen water supply systems

## **Waste water treatment**

- ❑ Desirable condition: wastewater treatment provision
- ❑ Key objectives are to:
  - Coordinate in development of wastewater treatment system
  - Promote water treatment in institutional buildings







# Solid Waste Management in the Plan

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- ❑ Desirable condition: 100% household waste collection (10 ppha)
- ❑ Key objectives are to:
  - Provision of landfill site
  - Promote integrated solid waste management
  - Manage medical waste
  - Manage e-waste
  - Debris/construction waste management
  - Promote community-based waste management
- ❑ Several actions have been designed to implement meet the objectives and achieve the desired condition





# Development initiatives at Glance





# Dhobikhola Corridor Development Project

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# Road Widening

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Chandragiri Matatirtha\_APF Road (Upper right image)

Bouthali chowk to Satungal (Lower right image)

Bansbari\_ Mahankal Road (Lower Left Image)







# Road Widening

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Kandaghari bajrangi chowk to manmohan chowk Road (Upper right image)

Maitighar Tinkune road(Lower right image)

Maitighar Tinkune Road (Lower Left Image)







# Road Widening

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Chunikhel to Pukucha , budhanilkantha  
Road (Upper right image)

Shankharapur to karki gaon road(Lower  
right image)

Jorpati to Attarkhel Road (Lower Left  
Image)





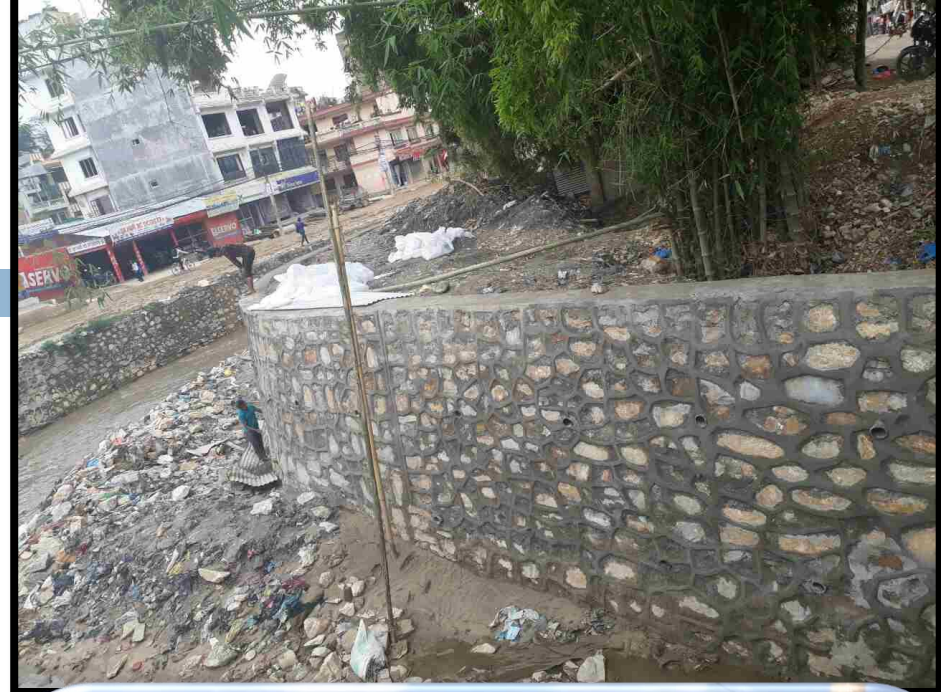


# River corridor

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Mahadev Khola Corridor

Chalnakhel site





# Master Plan of Chandeshwori Temple



**Area: 16 ropani**

**Chandeshwori Temple area**

PROPOSED MASTER PLAN  
OF  
CHANDESHWORI TEMPLE COMPLEX





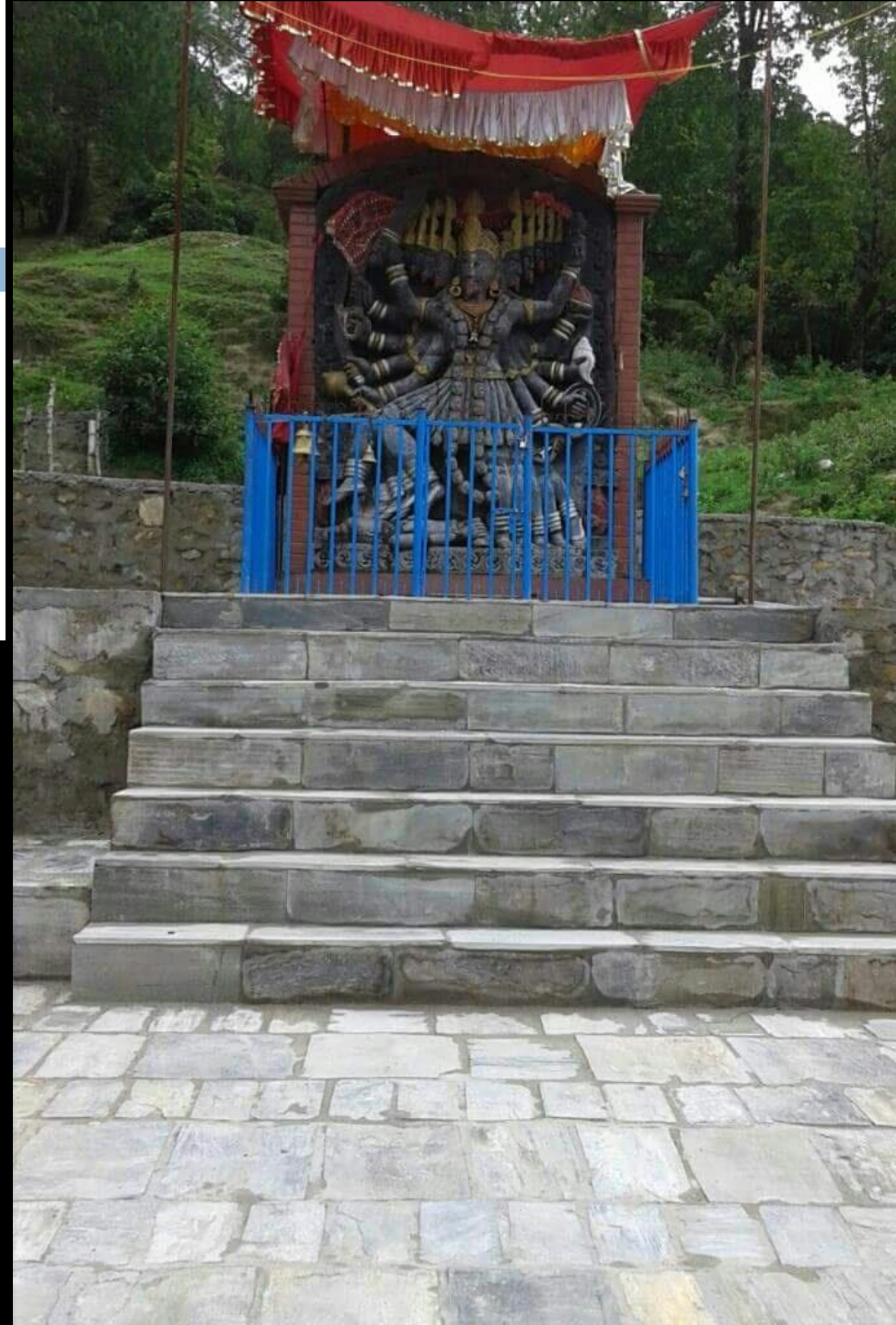


# Public Land Conservation

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Chandeshwori site (Upper right image)

Kamleshwor Mahadev Temple, Syuchatar site (Lower Left Image)

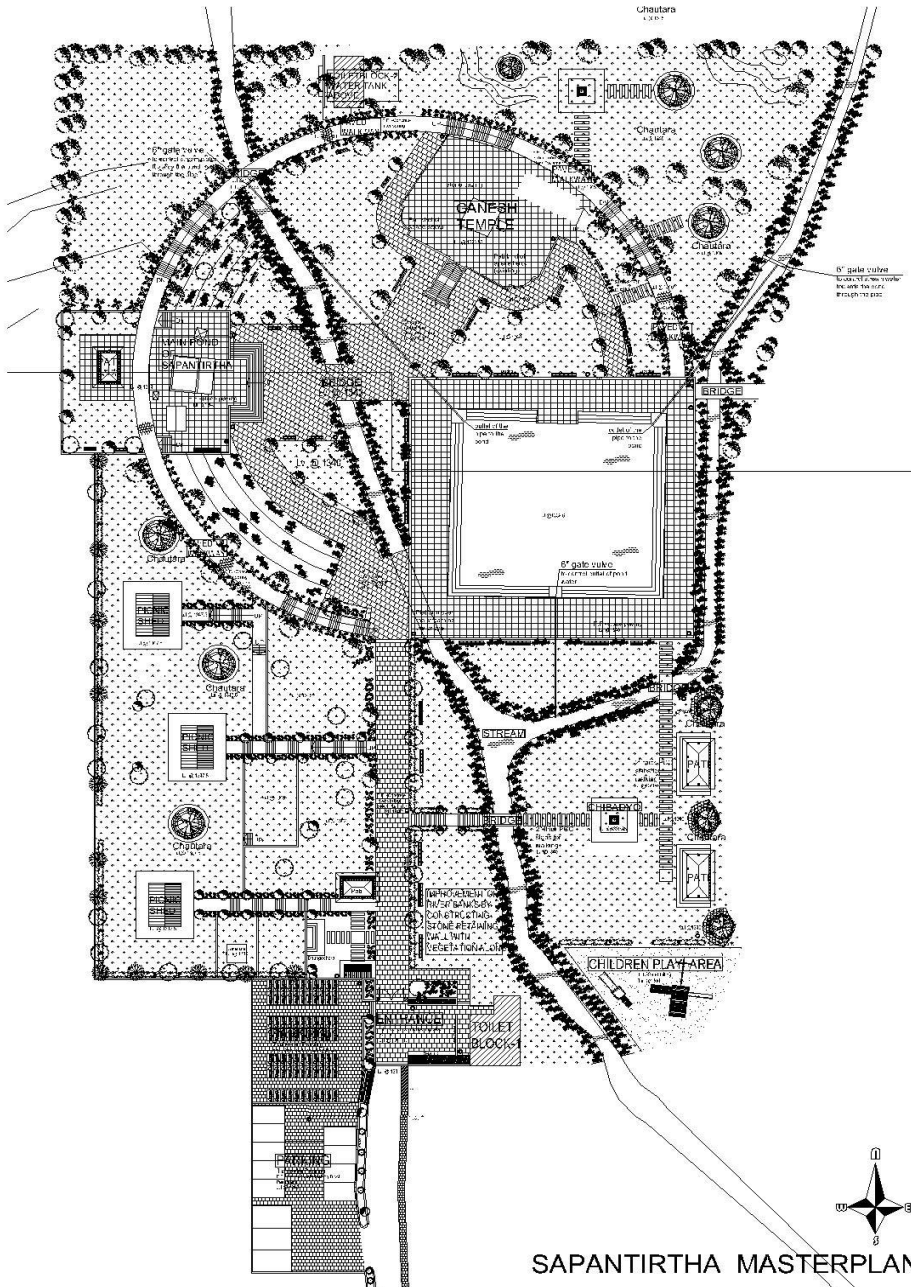




# Master Plan of Sapantirtha Temple

Area: 21 ropani

Sapantirtha Temple area



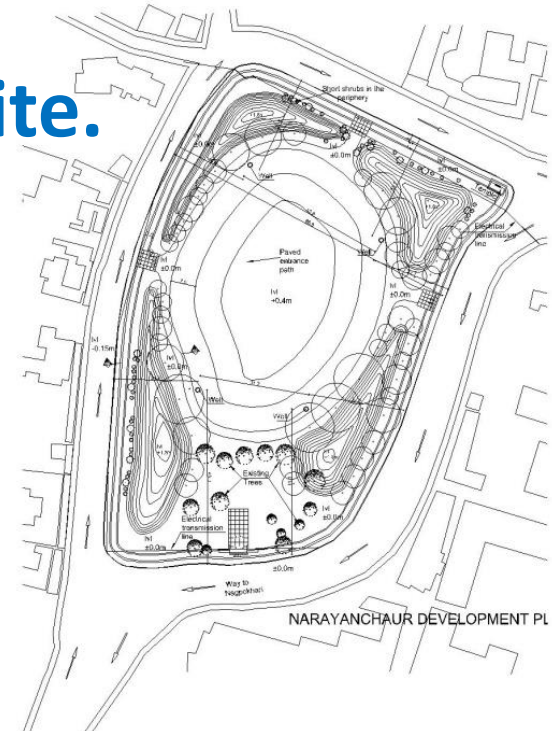




## Naxal: Narayan Chaur Garden Conservation



# Narayan Chaur: Disaster Management Park: Collecting site.







# Public Land Conservation, Disaster Management Park

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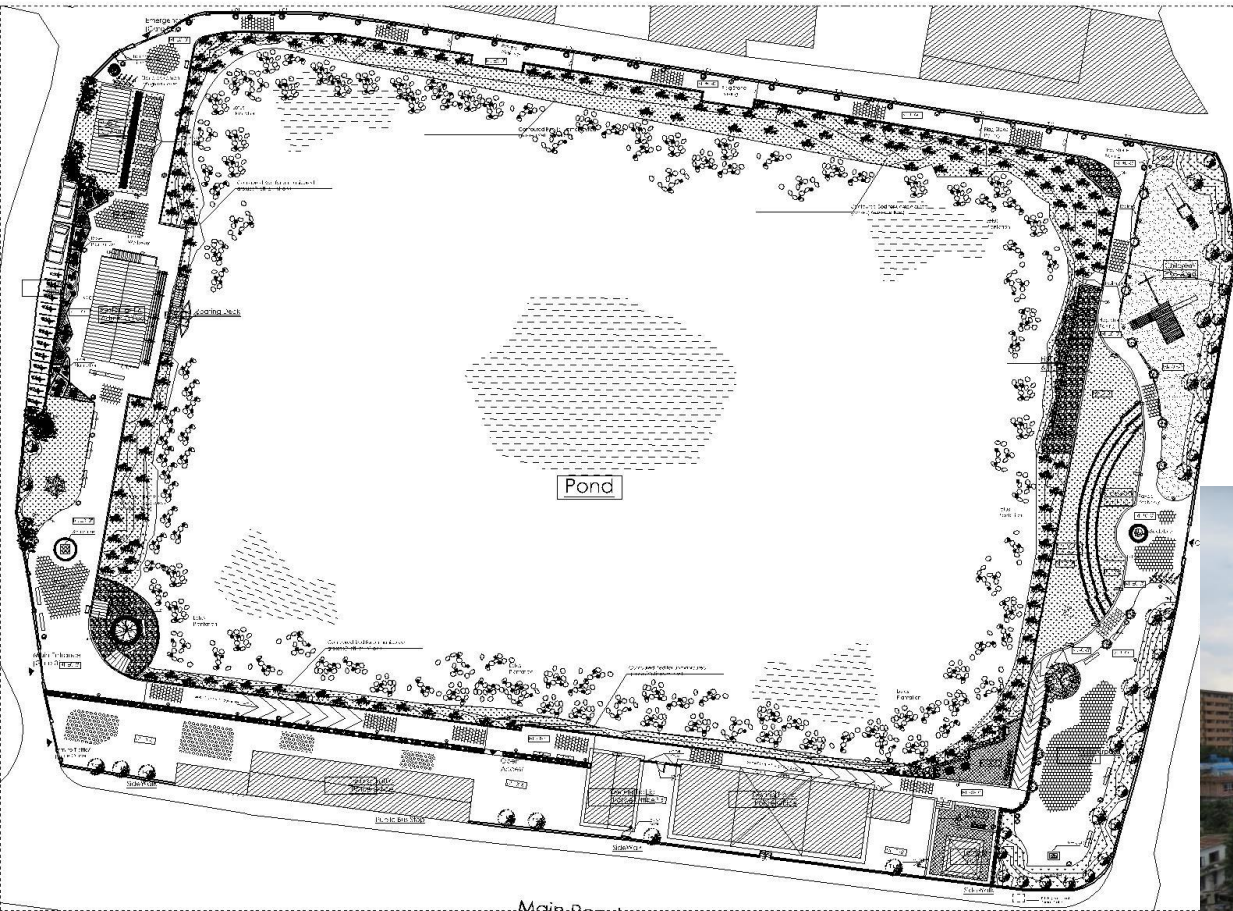


Picture Taken on 2074/04/05

Narayan chaur, Naxal

# Master Plan of Kamalpokhari (pond)

Area: 21 ropani: 1 hectares



Kamalpokhari







# Public Land Conservation



Picture Taken on 2074/04/05

Kamal Pokhari





# New town Development Area (Satellite city Concept.)



**KATHMANDU VALLEY'S 1 LAKH ROPANIES NEW URBAN EXPANSION AREA  
APPROVED DATED 2074 /01/ 24 BY PHYSICAL DEVELOPMENT COMMITTEE OF KVDA.**

1:11,022

PREPARED BY : B. B. KHORHALI





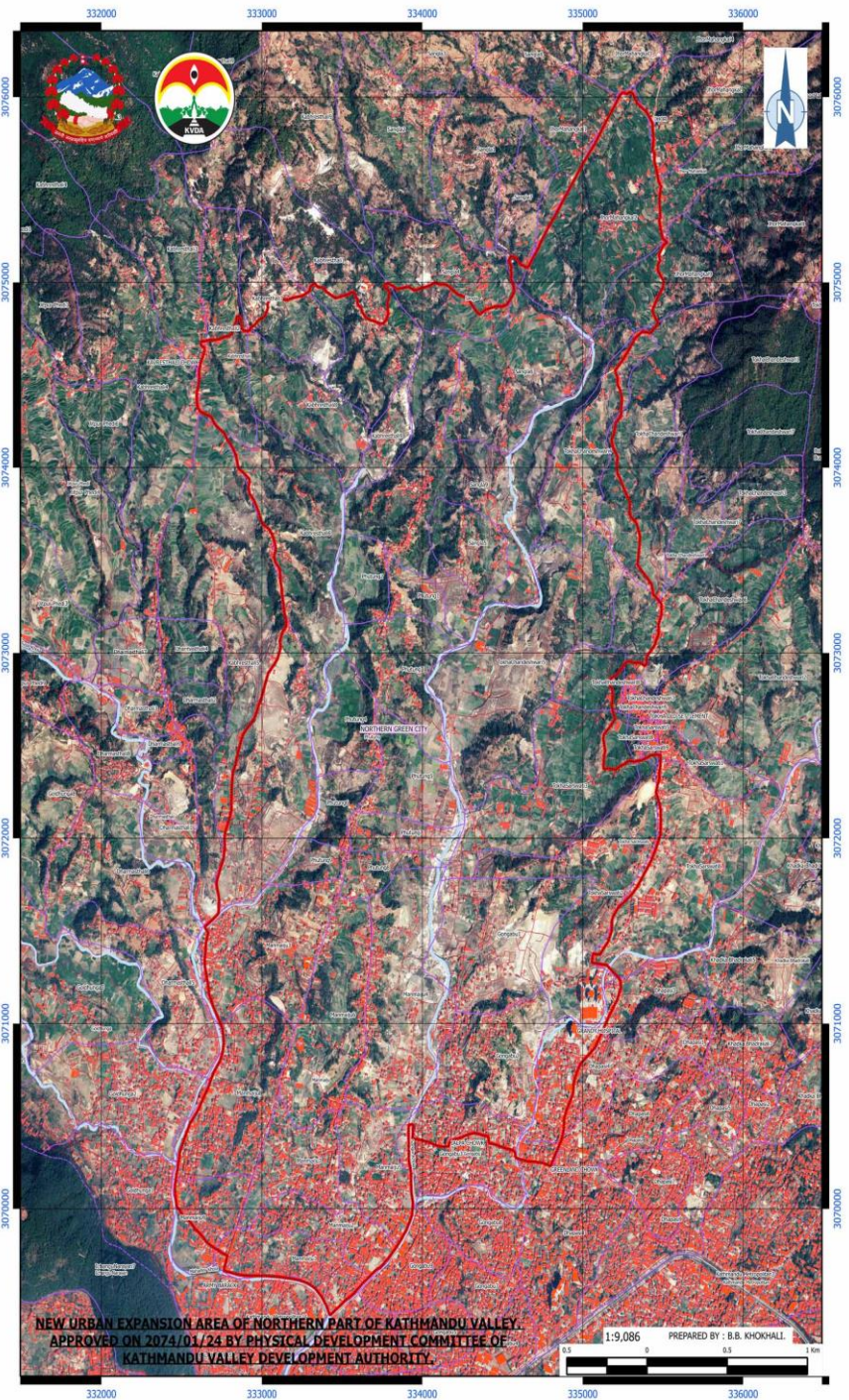
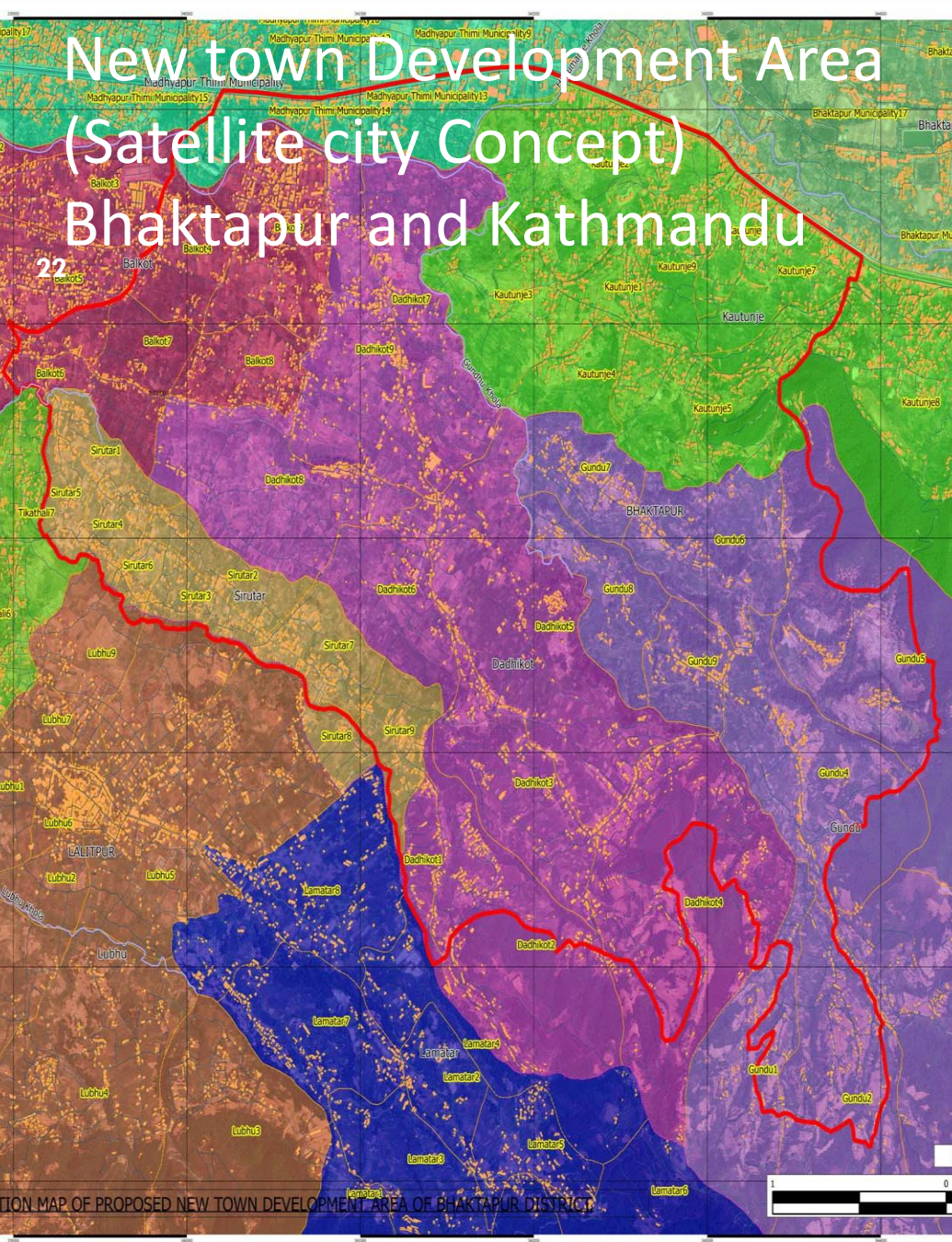
# New town development area.

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- ❑ Designed for new state's capital.
- ❑ Proposed population density is about 1 million.
- ❑ Proposed area: about 50 sq.km= 5000 hectares.
- ❑ Proposed area is Geologically suitable for urban expansion in kathmandu valley with reference to Risk Sensitive land use plan.
- ❑ Outer ring road passes this site in the middle which will be the trunk line to connect with other nodes in the valley.
- ❑ 100 million litres per day water demand in 1 new city.
- ❑ Significant numbers of waste water generated in this city which demands new modes of waste water disposal.
- ❑ Lots of Green area will be converted into Grey area.  
Maintaining their ratio in equitable manner is the biggest challenge.











# Integrated Land Development Projects

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1. Ichangu Narayan Land Development Project (LDP) (608 ropani)
2. Bagmatinagar LDP (1247 ropani)
3. Bagmatiphant LDP
4. Sainba Nakhkhudol LDP (282 ropani)
5. Velpa Hattiban LDP
6. Kameretar LDP (1486 ropani)
7. Dibyaswori LDP (461 ropani)
8. (Note: 508.92 sq.m = 1 ropani.
9. Approx 20 ropani = 1 hectares)







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## An Example of Dibyaswori Integrated LDP

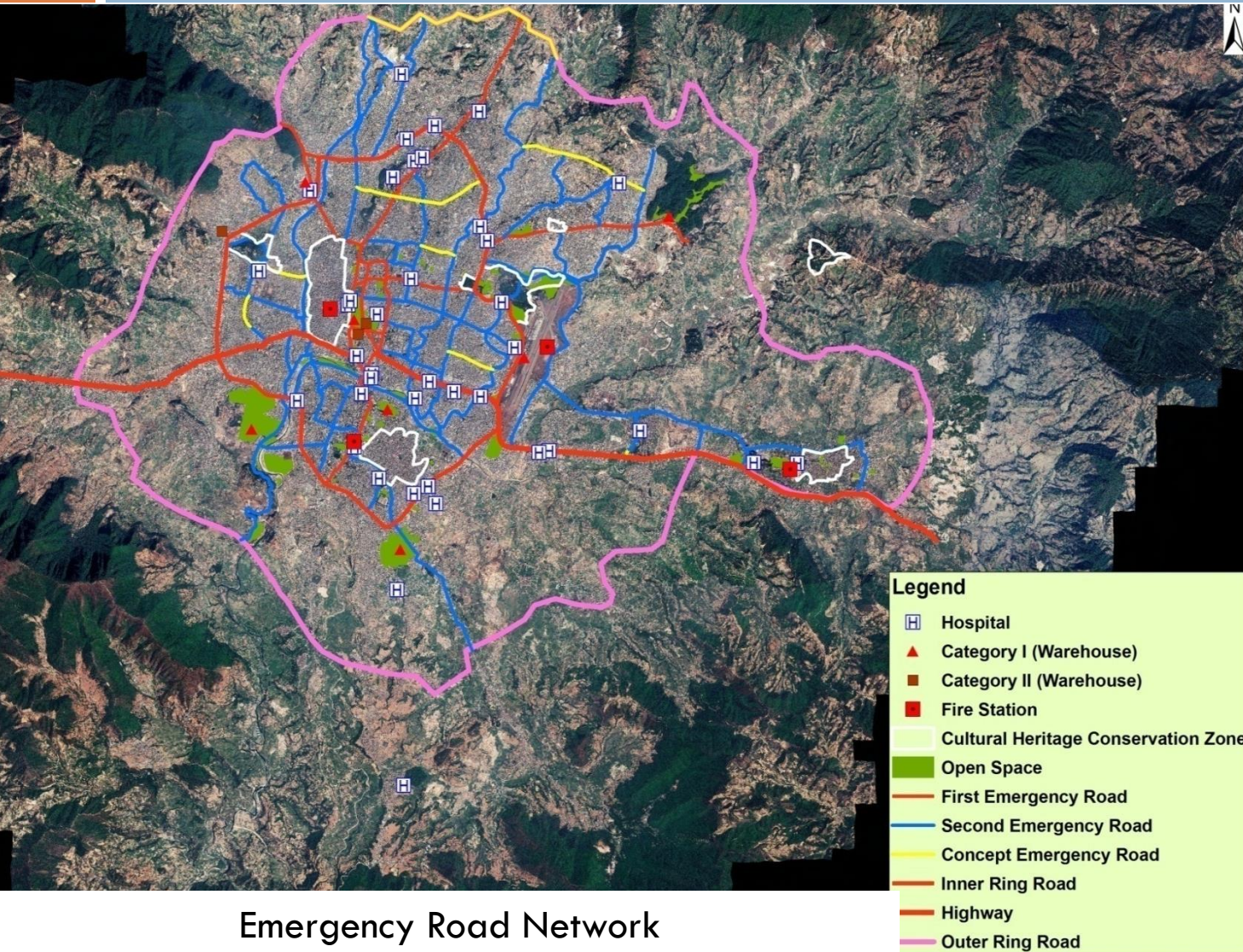






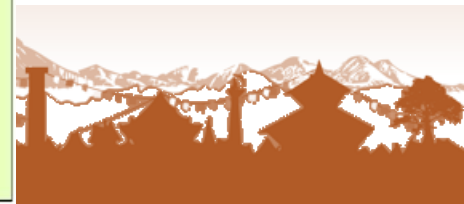
# Road Strengthening

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Emergency Road Network

Development and implementation of road transport system in new towns, settlements, commercial and economic centres



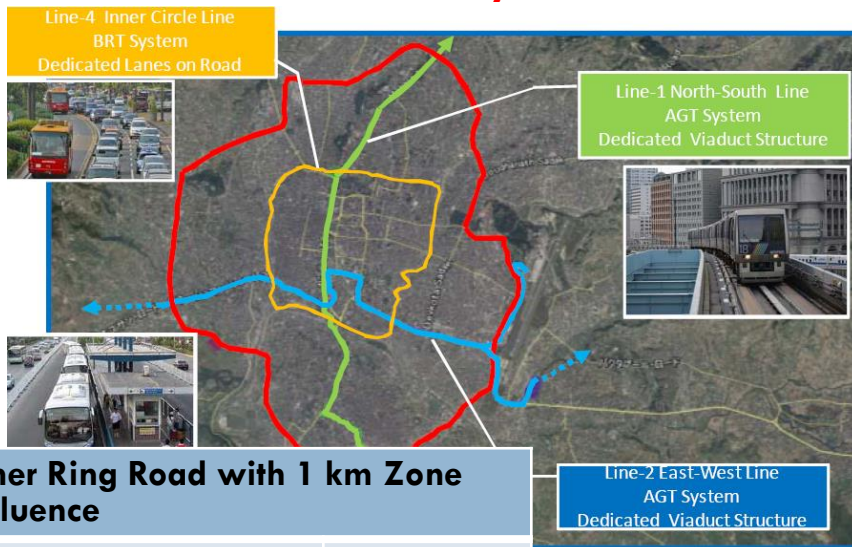




# Programmes in coordination with other Agencies

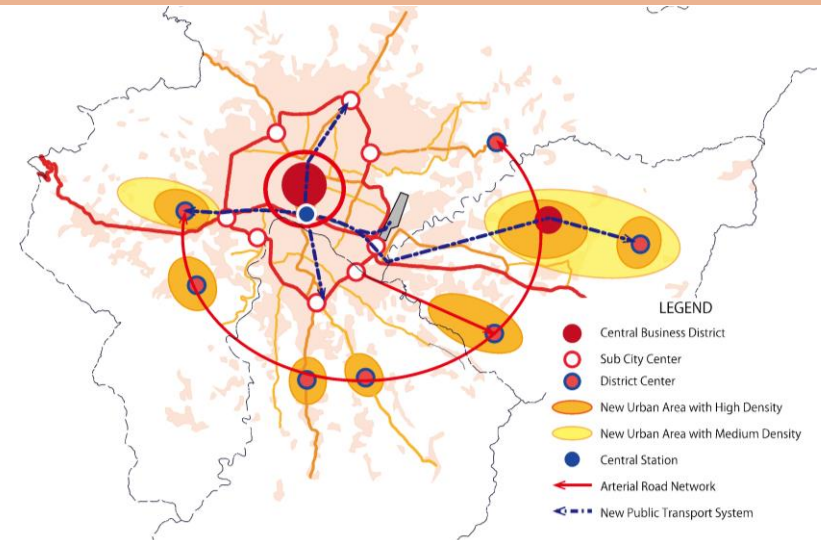
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- **“Kathmandu Valley Urban Transport Improvement Project” with support from JICA**
- **“Kathmandu Valley Resilient Plan” with support from JICA**



Inner Ring Road with 1 km Zone Influence	
Total Population	1,002,055
Total No. of wards	43
Kathmandu	34
Lalitpur	9
Electoral Constituency	10
Kathmandu	8
Lalitpur	2

## Integration of Risk Sensitive Land Use Plan and Kathmandu Urban Transport Master Plan



## New Urban Structure: Earthquake Resilient Green Satellite Cities







# Programmes in coordination ...

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- **“Project for Assessment of Earthquake Disaster Risk for the Kathmandu Valley in Nepal” with support from JICA**

## Objectives:

- To make an assessment of the earthquake risk of the valley by using different scenario
- To develop the disaster management plan (DM) for concrete and effective promotion on disaster risk reduction in the future.

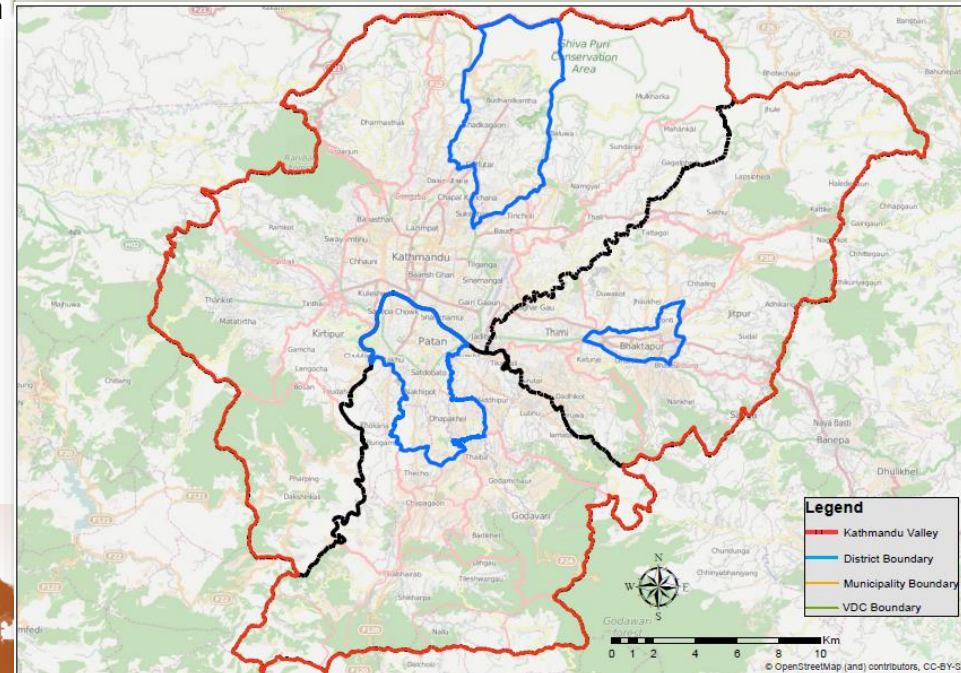
## Outputs :

- Seismic Hazard Analysis
- Seismic Risk Assessment
- Disaster Management Plan
- BBB Reconstruction Plan for 3 Pilot Municipalities
- Standard Operation Procedures for 3 Pilot Municipalities

## Hazard and Risk Analysis : Kathmandu Valley

### Pilot Activities:

**Three Pilot Municipalities: Lalitpur Sub-metropolitan City, Bhaktapur and**







# Glimpse of KVDA Building under construction

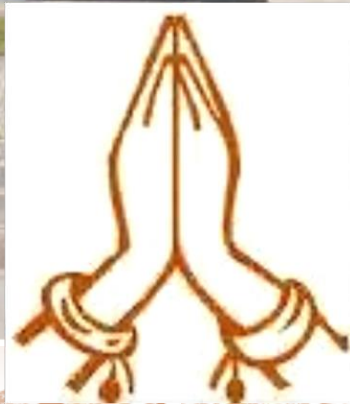
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**THANK YOU**