

Mars Planning & Engineering Services Pvt. Ltd.

URBAN PLANNING PROJECTS



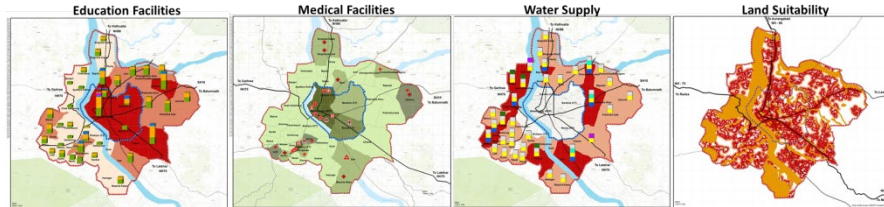
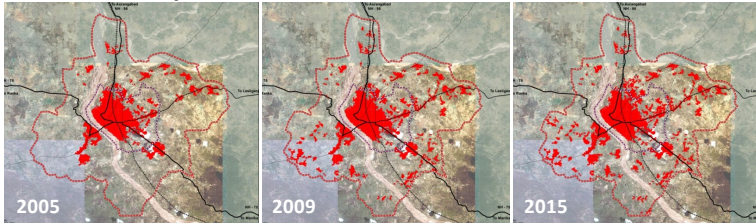


URBAN PLANNING PROJECTS

- ↳ **Master Plan of 18 Towns of Jharkhand**
- ↳ **Development Plan of Shimla Planning Area, 2041**
- ↳ **Master Plan for Smart Industrial Park at Khoraj, 2040**
- ↳ **Master Plan of Mussoorie Dehradun Development Area, 2041**
- ↳ **YEIDA Master Plan, 2041**
- ↳ **Town Planning Scheme for PMRDA**

Master Plan of 18 Towns of Jharkhand

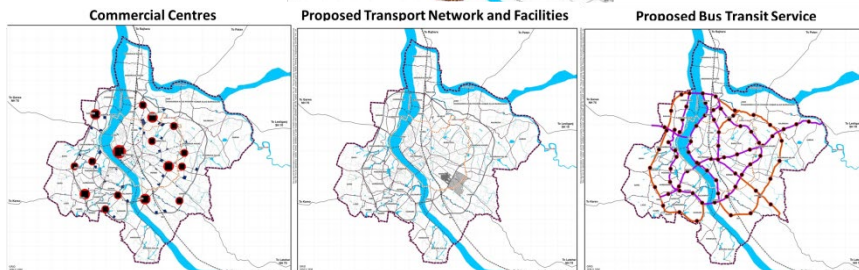
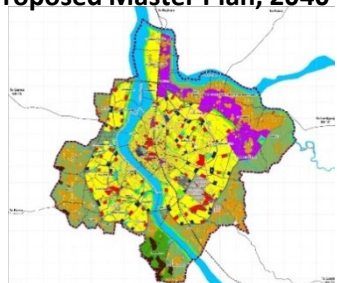
Spatial Growth Pattern of the Town



Concept Plans



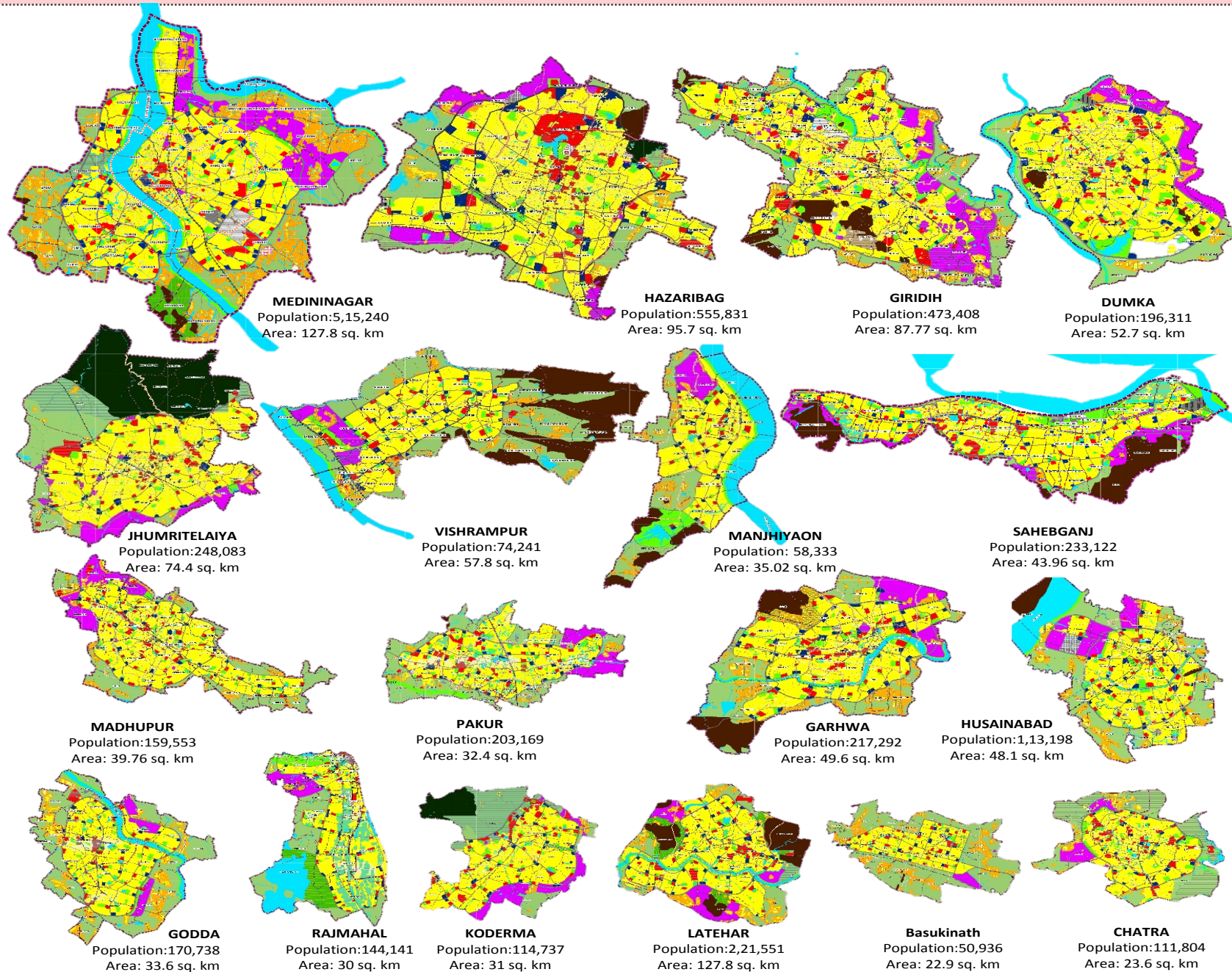
Proposed Master Plan, 2040



Assignment name: GIS based Master Plan & Zonal Development Plan for 18 towns of Jharkhand (2040)	Country: India
Location within country: Jharkhand	Professional staff provided by your firm: Urban Planners, Rural Planning Experts, Geographers, GIS Specialists and Architects
Name of the client: Urban Development Department, Government of Jharkhand	No. of staff: 5 (4 Senior & 4 Junior)
Address: Dhurwa, Ranchi	
Start date (month/year): 2015	Duration of assignment (months): 18
Completion date (month/year): Ongoing	Approx. value of the services provided by the firm under the contract (in current US\$): ---
Name of consultants: MaRS Planning & Engineering Services Pvt. Ltd., Ahmedabad	No. of professional staff-months provided by associated consultants: 120
Name of senior professional staff of the firm involved & functions performed:	
Prof. Utpal Sharma – Advisor, Team Leader Amit Mistry – Senior Urban Planner	Nirav Makwana – Senior Urban Planner
Narrative description of Project: The specific objectives of the project were to: <ul style="list-style-type: none"> • Prepare a master plan along with development control regulations for the identified town/s using GIS platform • Prepare zonal development plan for the identified town/s using GIS platform 	
List of Towns: Cluster-A: Medininagar, Manjhiyaon, Vishrampur, Husainabad, Garhwa, Latehar, Hazaribag&Chatra Cluster-B: Giridih, Jhumritelaiya, Madhupur, Sahibganj, Dumka, Rajmahal, Basukinath, Godda, Pakur&Koderma.	
Description of actual services provided by staff within the assignment: The scope for the assignment included: <ul style="list-style-type: none"> • Site analysis / review and preparing base map • Preparing concept plan & alternatives • Preparing land use plan • Preparing infrastructure plan & estimates • Formulating development control regulations 	

Master Plan of 18 Towns of Jharkhand

Proposed Master Plan of all 18 Towns of Jharkhand, 2040



Development Plan of Shimla Planning Area, 2041

Built form

Slope Analysis

Forest and land cover

Existing Land use

Ribbon Development

Countermagnet of Shimla

TOD

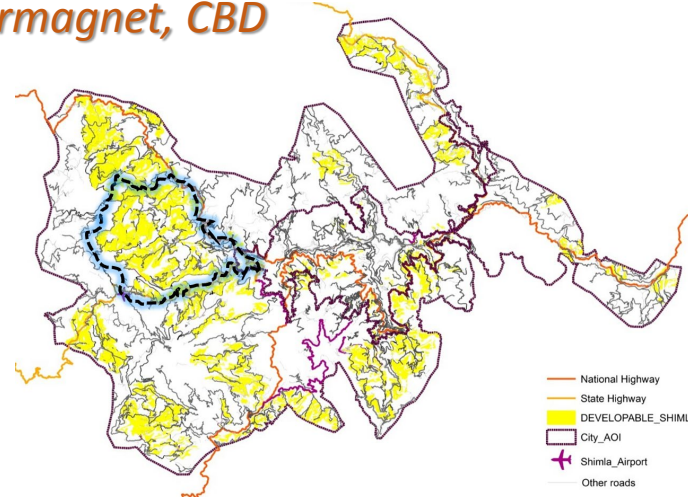
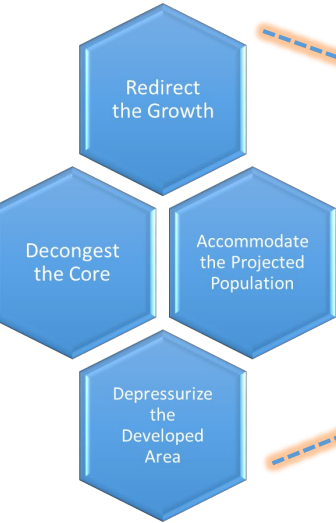
Ropeway network

Pedestrian Mobility

Assignment name: GIS Based Development Plan Formulation For Amrut City Shimla And Its Surrounding Areas In Himachal Pradesh Under Amurt Scheme	Country: India
Location within country: Shimla	Professional staff provided by your firm: Urban Planners, Rural Planning Experts, Geographers, GIS Specialists and Architects
Name of the client: Town and Country Planning Department, Himachal Pradesh	No. of staff: 5 (4 Senior & 4 Junior)
Address: Dhurwa, Ranchi	
Start date (month/year): 2015	Duration of assignment (months): 18
Completion date (month/year): Ongoing	Approx. value of the services provided by the firm under the contract (in current US\$): ---
Name of consultants: MaRS Planning & Engineering Services Pvt. Ltd., Ahmedabad	No. of professional staff-months provided by associated consultants: 120
Name of senior professional staff of the firm involved & functions performed:	
Prof. Utpal Sharma – Advisor, Team Leader	
Ankita Sharma– Senior Urban Planner	Nirav Makwana – Senior Urban Planner
Narrative description of Project: The specific objectives of the project were to:	
<ul style="list-style-type: none"> To develop common digital geo-referenced base maps and land use maps using Geographical Information System (GIS) and Master Plan Formulation for AMRUT Cities. 	
Description of actual services provided by staff within the assignment:	
The scope for the assignment included:	
<ul style="list-style-type: none"> Site analysis / review and preparing base map Preparing concept plan & alternatives Preparing land use plan Preparing infrastructure plan & estimates Formulating development control regulations 	

Development Plan of Shimla Planning Area, 2041

Countermagnet, CBD



Activities in the CBD



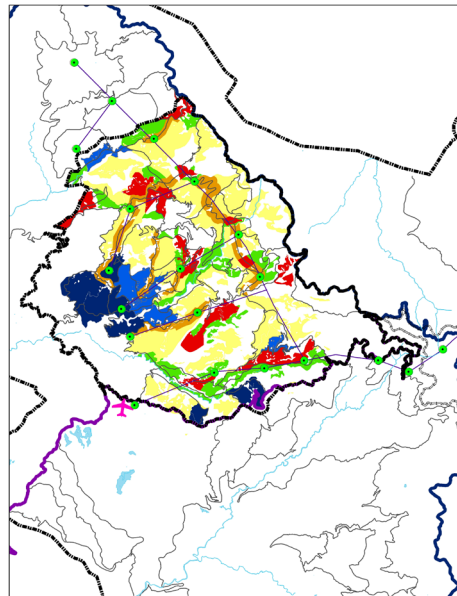
Mixed Use Streets



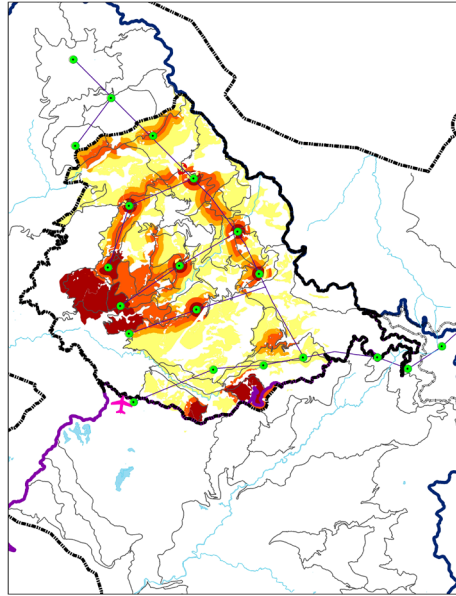
Active Recreational



Vibrant Commercial



Land use & Zoning



Density Distribution

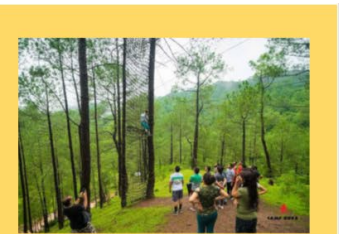
- 11 km. sq. area available for the development.
- Connected with SH- 16 and NH 205
- In proximity with the airport, less than 2 kms.
- Area falls under 2nd category of the slope i.e. < 25 degrees.
- New building bylaws could be proposed promoting high density and height compared to the core city.



Mixed Use Streets

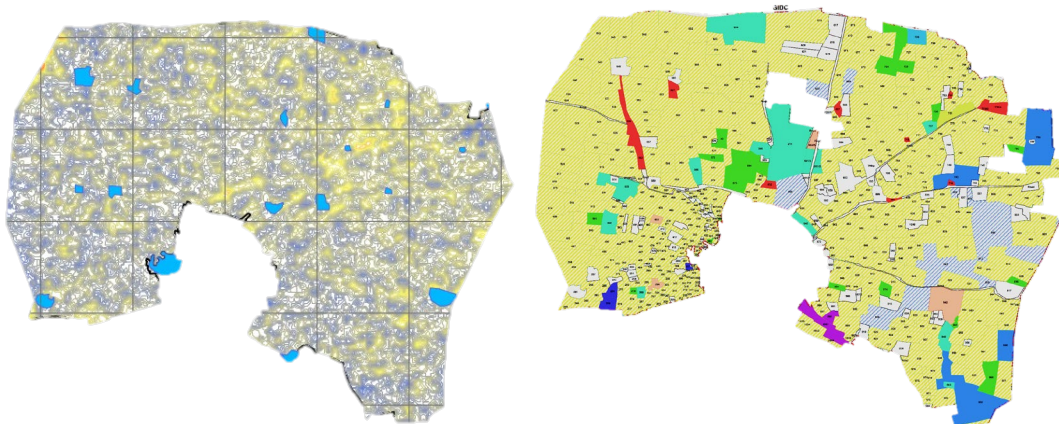
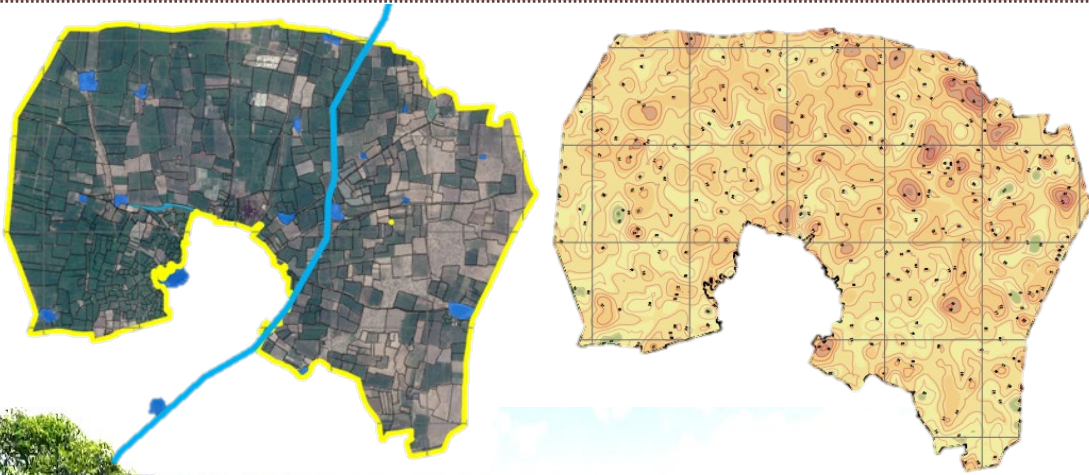


Active Recreational



Vibrant Commercial

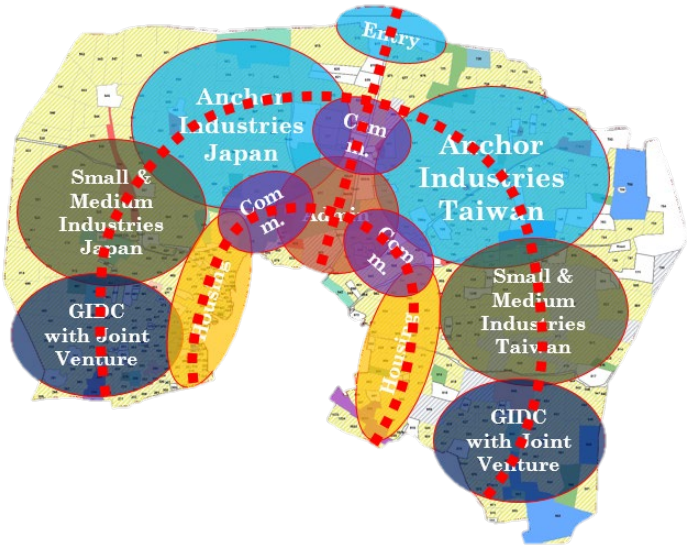
Master Plan for Smart Industrial Park at Khoraj, 2040



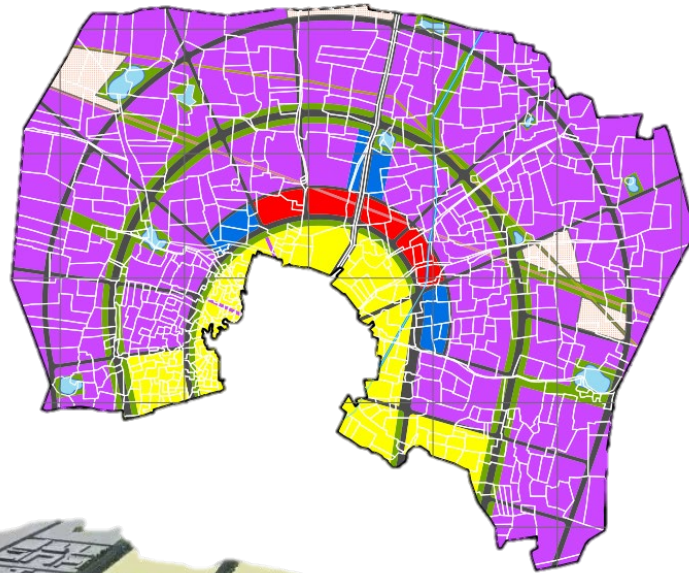
Assignment name: Preparation of Master Plan for Smart Industrial Park in GIDC Sanand III	Country: India
Location within country: Sanand, Ahmedabad Gujarat	Professional staff provided by your firm: Urban Planners, Rural Planning Experts, Geographers, GIS Specialists and Architects
Name of the client: Gujarat Industrial Development Corporation (GIDC)	No. of staff: 8 (4 Senior & 4 Junior)
Address: Gandhinagar, Gujarat	
Start date (month/year): 2017, November	Duration of assignment (months) : 36
Completion date (month/year): 2019	Approx. value of the services provided by the firm under the contract (in current US\$): ---
Name of associated consultants, if any: MaRS Planning & Engineering Services Pvt. Ltd., Ahmedabad	No. of professional staff-months provided by associated consultants : 120
Name of senior professional staff of the firm involved & functions performed: Prof. Utpal Sharma – Advisor, Team Leader Nirav Makwana – Senior Urban Planner	
Narrative description of Project: The overall objective of the proposed professional services for the GIDC Industrial Estate, Vapi is to assess planning gaps in the existing industrial estate and develop a Industrial Area Master Plan for greening of the industrial estate and ensuring its sustainability.	
Description of actual services provided by staff within the assignment: The scope for the assignment included: <ul style="list-style-type: none"> • Review of all information relating to the existing site conditions • site analysis identifying issues, opportunities and constraints • Preparing land use plan • provide sustainable expansion of urban infrastructure facilities 	

Master Plan for Smart Industrial Park at Khoraj, 2040

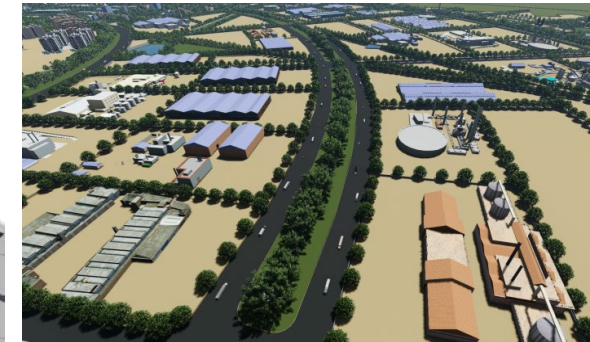
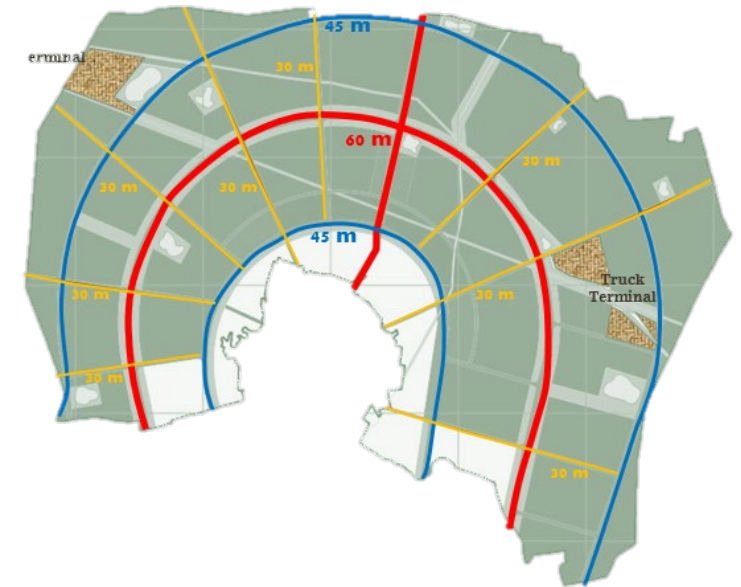
Concept Plan



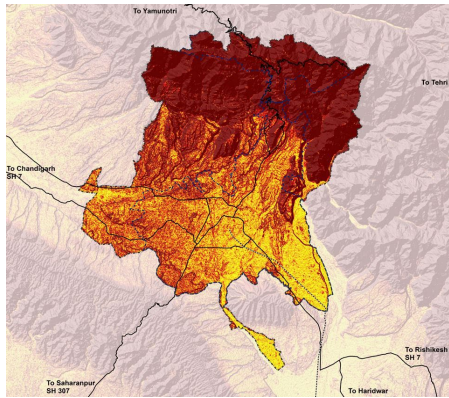
Proposed Master Plan



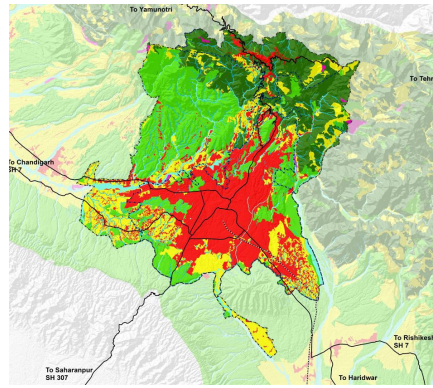
Proposed Road network



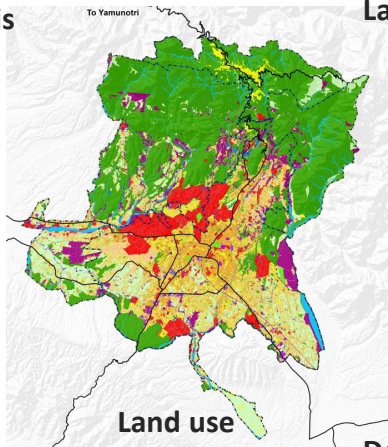
Development Plan of Dehradun Mussoorie Development Area, 2041



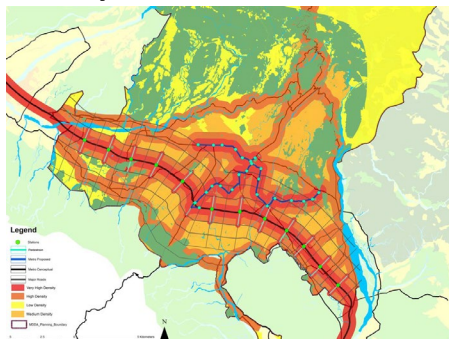
Slope Analysis



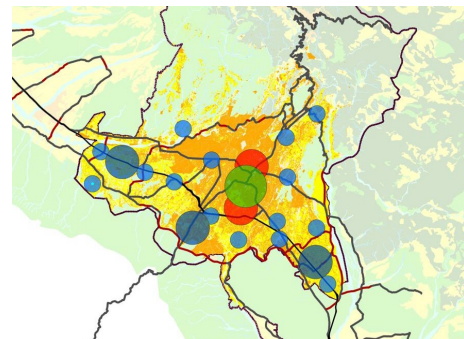
Land cover



Land use



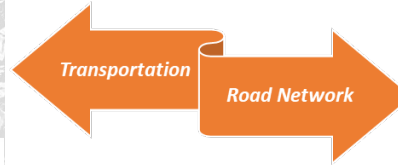
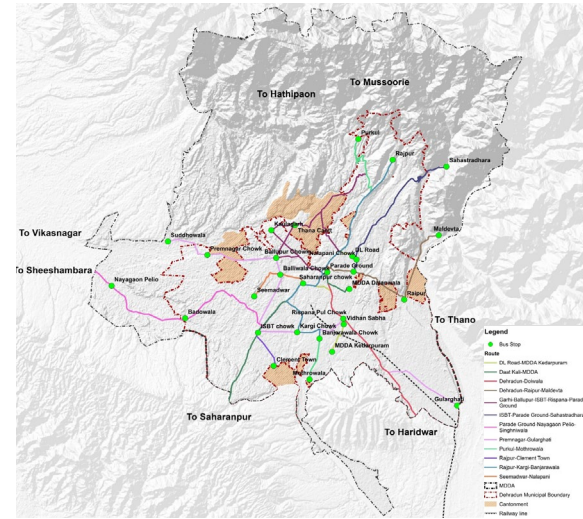
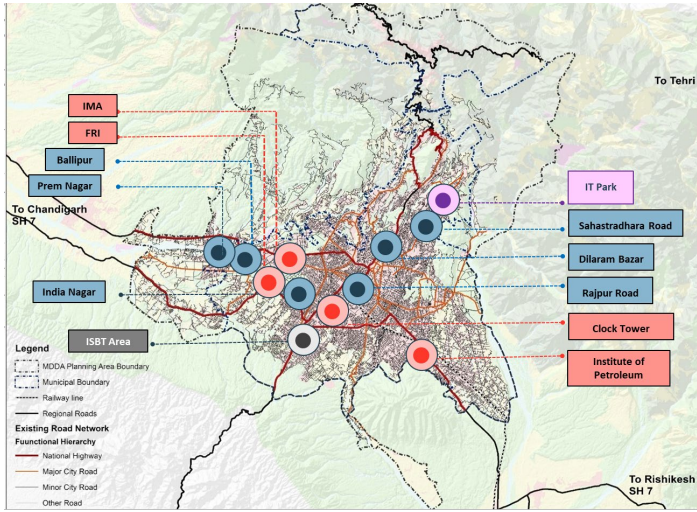
Density Distribution



Development Centres

Assignment name: GIS Based Development Plan Formulation and Zonal Development Plan, 2040	Country: India
Location within country: Shimla	Professional staff provided by your firm: Urban Planners, Rural Planning Experts, Geographers, GIS Specialists and Architects
Name of the client: Mussoorie Dehradun Development Authority, Uttarakhand	No. of staff: 5 (4 Senior & 4 Junior)
Address: Dhurwa, Ranchi	
Start date (month/year): 2015	Duration of assignment (months): 18
Completion date (month/year): Ongoing	Approx. value of the services provided by the firm under the contract (in current US\$): ---
Name of consultants,: MaRS Planning & Engineering Services Pvt. Ltd., Ahmedabad	No. of professional staff-months provided by associated consultants: 120
Name of senior professional staff of the firm involved & functions performed:	
Prof. Utpal Sharma – Advisor, Team Leader Ankita Sharma– Senior Urban Planner Nirav Makwana – Senior Urban Planner	
Narrative description of Project: The specific objectives of the project were to: <ul style="list-style-type: none"> To develop common digital geo-referenced base maps and land use maps using Geographical Information System (GIS) and Master Plan Formulation for AMRUT Cities. 	
Description of actual services provided by staff within the assignment: The scope for the assignment included: <ul style="list-style-type: none"> Site analysis / review and preparing base map Preparing concept plan & alternatives Preparing land use plan Preparing infrastructure plan & estimates Formulating development control regulations 	

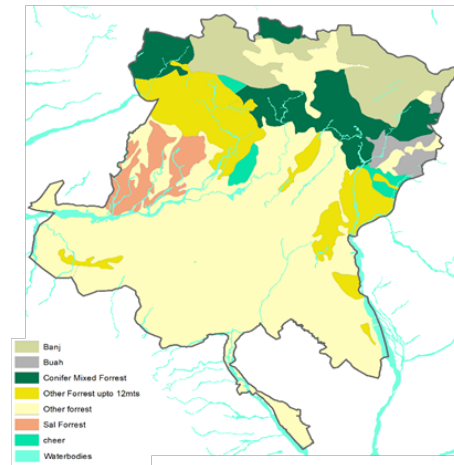
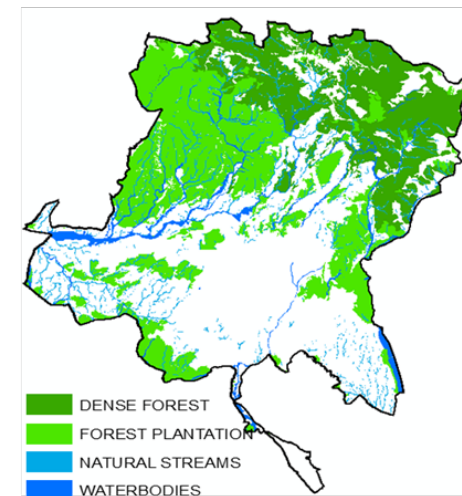
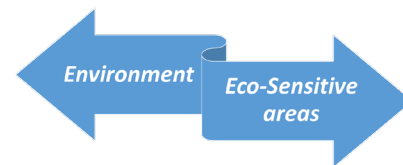
Development Plan of Dehradun Mussoorie Development Area, 2041



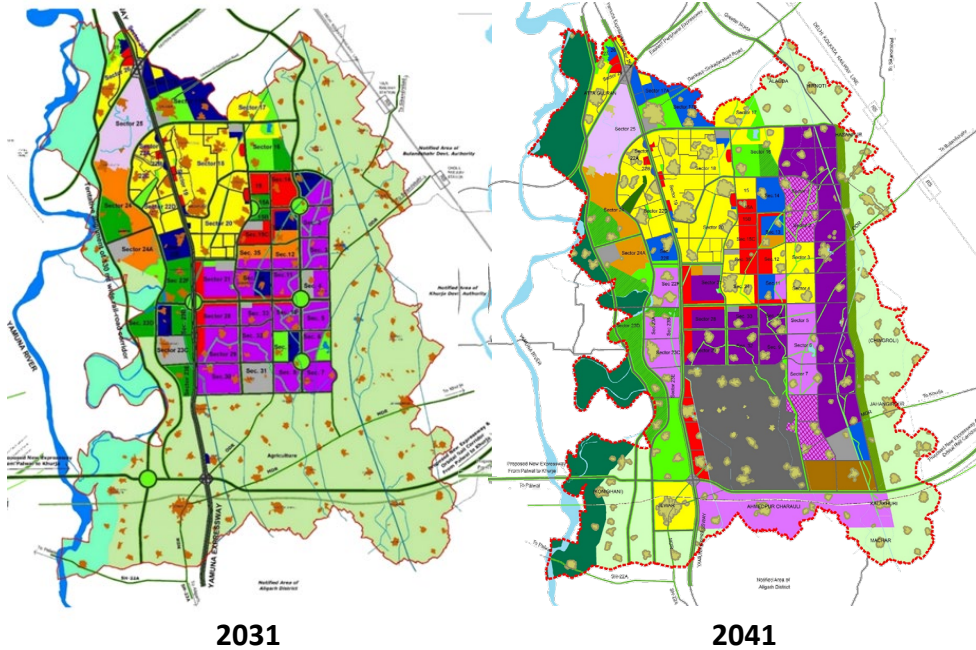
Decongest the CBD area by

- Developing smaller nodes & shifting key activities.
- Redistributing trips destined to inner city.
- The development of a multi nodal transit concept will allow the city to grow in all the directions.
- A three tier public transport system is proposed based on the density pattern of the city.

- Stands out to be of great interest in terms of Botany, with suitable climatic conditions for both tropical and temperate vegetation.
- The valley houses trees of Sal, Chid, Devdar and mixture of subtropical pine, Tropical Deciduous pine, Deciphereduous pine and Tropical Lachnar.



YEIDA Master Plan, 2041



By 2041

17.26 Lakhs
(12,00,700 + 5,25,667)



By 2041
Household Size-4

68.9 Lakhs
For the entire YEIDA Region

Assignment name: Master Plan 2041 for Yamuna Expressway Industrial Development Authority (Phase – 1)	Country: India
Location within country: Noida	Professional staff provided by your firm: Urban Planners, GIS Experts, Socio – Economic Experts, Transport Planner, Geographer, Architect and Engineer
Name of the client: Yamuna Expressway Industrial Development Authority	No. of staff: 5 (5 Senior & 5 Junior)
Address: 32, Block A, Ansal Golf Links 1, Noida, Uttar Pradesh 201309	
Start date (month/year): 02/2021	Duration of assignment (months): 12 months
Completion date (month/year): Ongoing	Approx. value of the services provided by the firm under the contract (INR): Rs. 1,75,00,000
Name of consultants: MaRS Planning & Engineering Services Pvt. Ltd., Ahmedabad	No. of professional staff-months provided by associated consultants: 120
Name of senior professional staff of the firm involved & functions performed:	
Prof. Utpal Sharma – Advisor, Team Leader Mr. Sudheendra Bajpai – Transportation Expert Ankita Sharma – Senior Urban Planner	Mr. Kaushik Rajpal – Urban Planning Expert Mr. Nirav Makwana – Project Manager Ms. Anindita Ishore – Senior Urban Planner
Narrative description of Project: Major Scope of Work: <ul style="list-style-type: none"> Review and updating of approved Master Plan 2021/2031 for Yamuna Expressway Industrial Development Authority in GIS format for 2041 Preparation of YEIDA Master Plan 2041 for YEIDA in GIS format Airport City Side Development/ Smart City Development (Pre-Feasibility Report) 	
Description of actual services provided by staff within the assignment: The scope for the assignment included: <ul style="list-style-type: none"> Site analysis / review and preparation of Base Map & Existing Land Use Map Preparation of concept plan & alternatives Preparation of Draft Master Plan along with Zoning Regulations Proposal for Special Area Development such as: Olympic City, Expo City Phasing for development 	

YEIDA Master Plan, 2041



Salient Features of Master Plan 2041



To create an appropriate urban form for the **greenfield city**

1



Adequate space for **airport city side development**

2



Balanced regional development and conformity with regional plan

3



High containment ratio to control traffic demand within the city

4



Sustainable development of the core city and other surrounding towns

5



Flexibility in landuse to respond to dynamic and evolving market conditions

6



Prioritization of affordable housing for **industrial workers**

7



Integration of **public transport system** through **MetroNeo**, buses, cycle track, pedestrian Street & IPT

8



"Image of the City:" City level CBD with **world-class infrastructure** along with iconic pedestrian promenade

9



Facilities and movement of **heavy industrial traffic** through **peripheral road**

10



Logistics facilities to cater to **industrial demand**

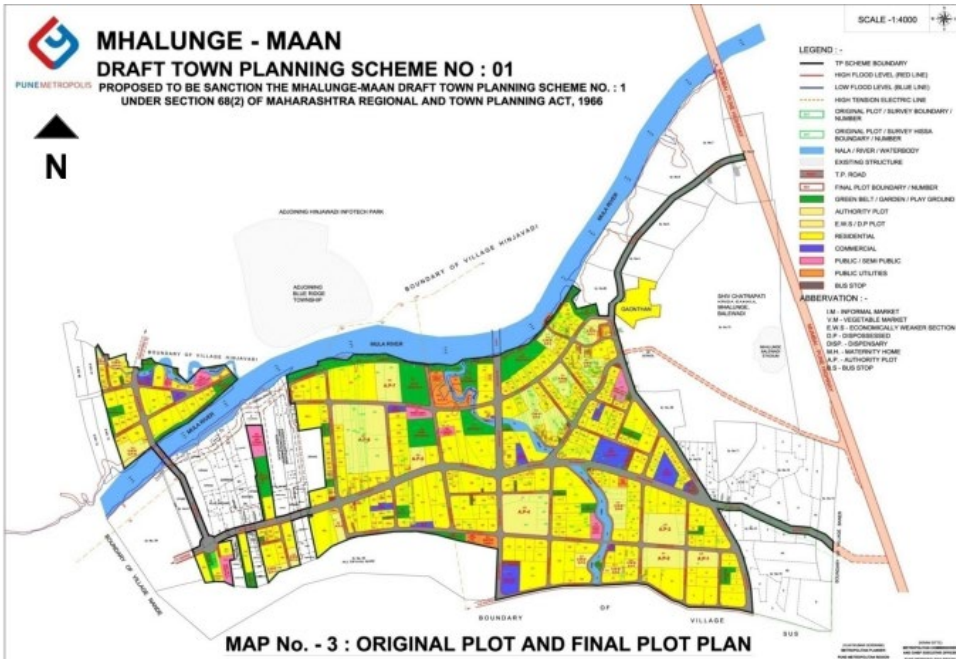
11



Integration of **existing villages & Green buffer** along Natural water bodies & Canals

12

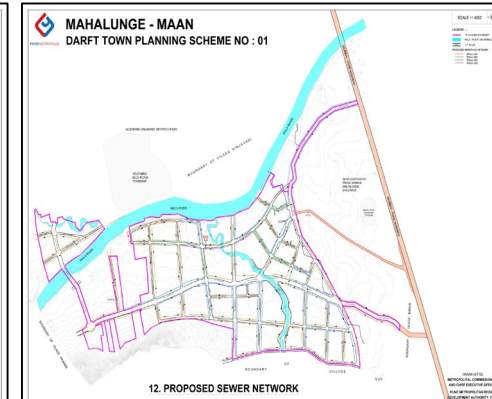
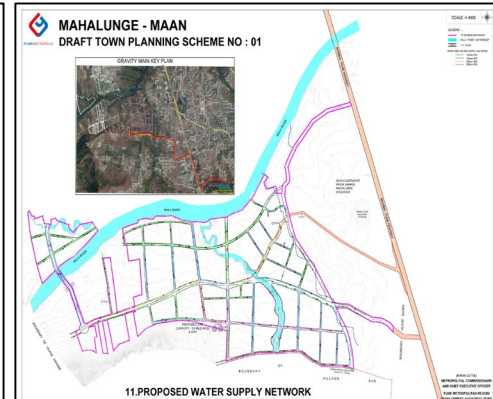
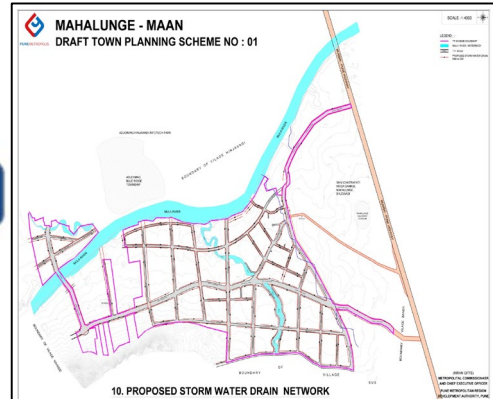
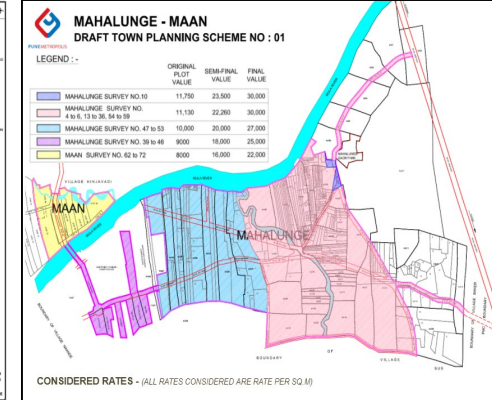
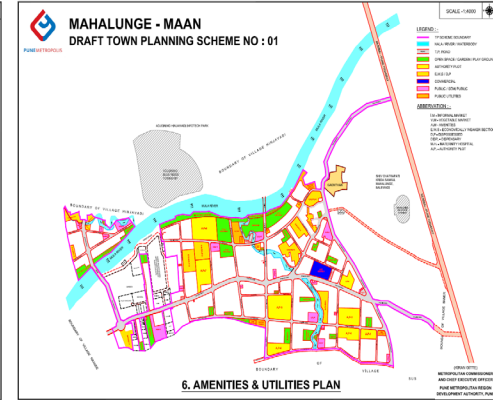
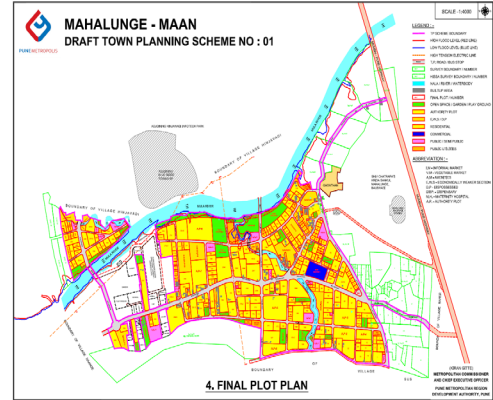
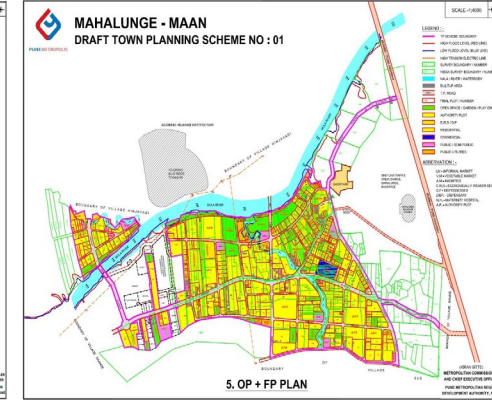
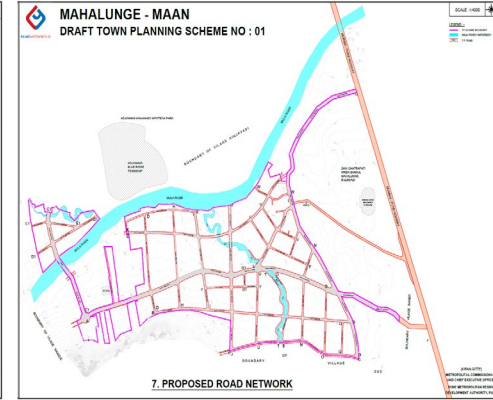
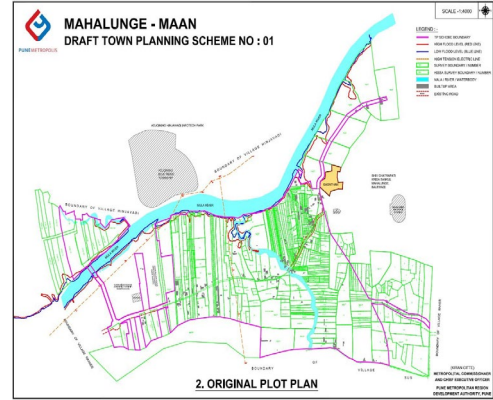
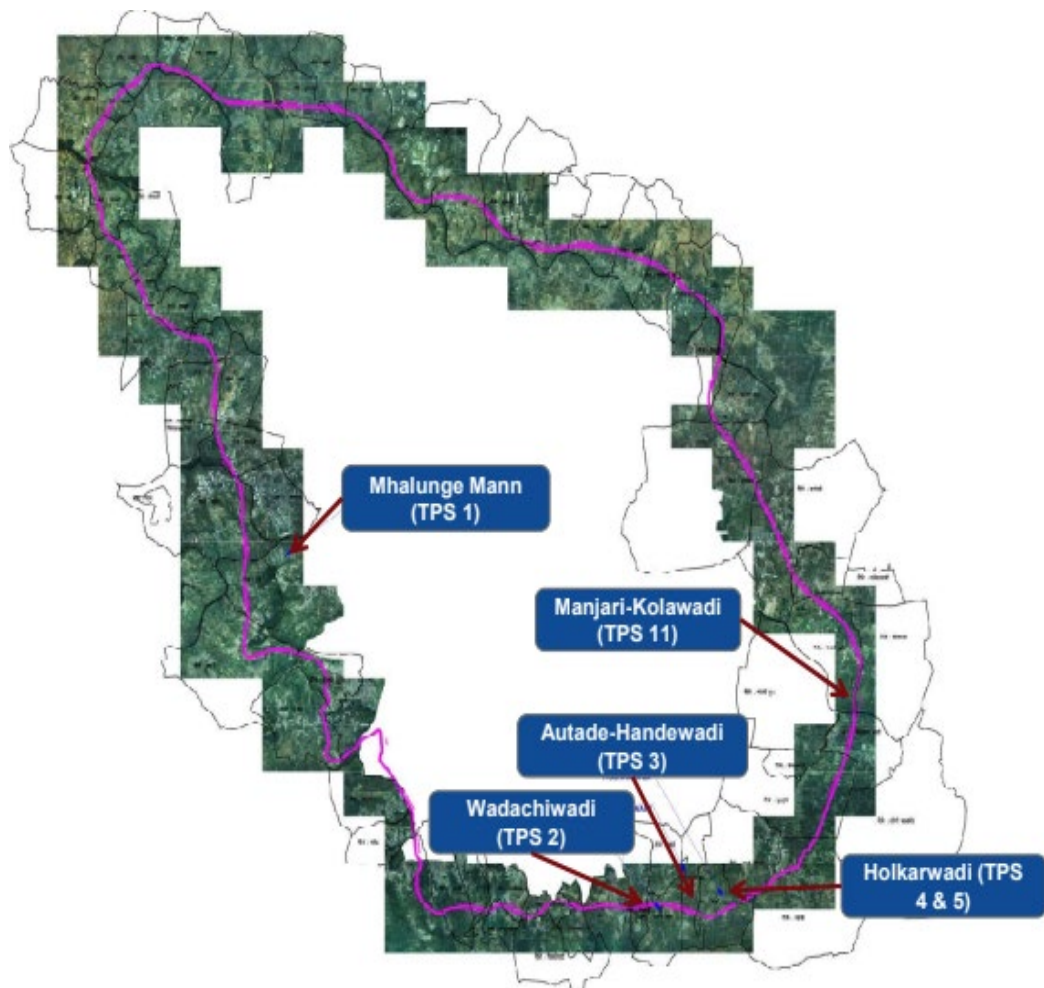
Town Planning Scheme for PMRDA Development Area



Assignment name: Preparation and implementation Town Planning Scheme/s (TPS) as per Maharashtra Regional and Town Planning Act 1966. (TP Schemes – 1, 2, 3, 4, 5, 11)	Country: India
Location within country: Pune	Professional staff provided by your firm: Urban Planners, Rural Planning Experts, Geographers, GIS Specialists, Architects, Engineers and surveyors
Name of the client: Pune Metropolitan Region Development Authority, Pune	No. of staff: 5 (4 Senior & 4 Junior)
Address: Pune	
Start date (month/year): 11/ 2017	Duration of assignment (months): 30
Completion date (month/year): 06/2020	Approx. value of the services provided by the firm under the contract (INR): Rs.1,59,36,000.00
Name of consultants: MaRS Planning & Engineering Services Pvt. Ltd., Ahmedabad	No. of professional staff-months provided by associated consultants: 180
Name of senior professional staff of the firm involved & functions performed:	
Prof. Utpal Sharma – Advisor, Team Leader Ankita Sharma – Senior Urban Planner Nirav Makwana – Senior Urban Planner	
Narrative description of Project: Preparation and implementation Town Planning Scheme/s (TPS) as per Maharashtra Regional and Town Planning Act 1966 In Pune Metropolitan Region Development Authority	
Description of actual services provided by staff within the assignment: The scope for the assignment included: <ul style="list-style-type: none"> • Site analysis / review and preparing base map • Preparing concept plan & alternatives • Preparation of DTPS up to Owner's Meeting • Publication of DTPS • Implementation 	

Town Planning Scheme for PMRDA Development Area

PMR & Ring Road





THANK YOU

MāRS[®]