Situated in Valley


State Capital

ONLY CLASS - I CITY IN MANIPUR

91% Literacy rate

Land of Loktak Lake

Power House of Sports

Land of Women markets

Migratory Birds
CITY’S PROFILE

GROWTH

160% INCREASE IN AREA

1956

1966

1972

2001

IMC AREA FEATURES

Population: 54288

Population: 414288

Population: 54288

IMC AREA

ABCD AREA

Legend

- IMC BOUNDARY
- ABCD BOUNDARY
- RIVER
- BUILDING FOOTPRINT
- CANAL
- POND
- SCRUB
- CULTIVATION LAND
- PARK
- ROAD
- PUBLIC BUILDINGS
- STADIUM

TOTAL POPULATION - 268243

IMC POPULATION

51% MALE

49% FEMALE

LITERACY

87% MALE

95% FEMALE

AGE RATIO

- 0-14
- 15-34
- 35-60
- 60 AND ABOVE

INCREASE IN AREA

49%

51%
The New Cachar Road (NH-53) is connecting Imphal with the Cachar District of Assam at the west and is meeting NH-39 at the City Centre.

Imphal has an International airport that provides flights to various cities of the country. International fights are yet to commence.

At present the Nearest railway main station is at Dimapur, Nagaland, about 230 km away from Imphal and another at Silchar nearly 250 km away. A proposal to connect Imphal city with Railway line is under execution.

Residential 70%
Commercial 2%
Public-semi Public -17%
Roads 10%
Industrial 2%
Parks 3%
PEOPLE PARTICIPATION

Public Consultation Strategies

INFORM

INVOLVE

EMPOWER

CONSULT

COLLABORATE

E-Platform
SWOT ANALYSIS

Imphal city’s strengths lie in its land, people, and history.

**Topography**
- Valley area - relatively flat and supports growth and development.

**Suitable Climatic Conditions**
- Climatic conditions favorable for humans and development. Moderate weather supported by low level of pollution is salubrious and increases productivity of local people.

**History**
- Imphal houses the ruins of the Palace of Kangla, the royal seat of the erstwhile Kingdom of Manipur. Since history is key to the future, Imphal has potential to grow as a sustainable city.

**Culture and tradition**
- Strong cultural and traditional values in people. The state has a Cultural Policy of its own and a Cultural University. The women enjoy equal status and opportunities.

**Sports Power house**
- The state has a policy for development of Sports and has a Sports Academy. World Class sport infrastructures such as Khuman Lampak Sports Complex etc.

**Educational hub of the region**
- Medical institutions, Central Government University, along with other national level institutions make the city an educational hub.

**Connectivity**
- International Airport. NH-2, NH-53, NH-102 & NH-150 through the city is also known as Trans-Asian Highway and connects to Myanmar and other South East countries.
SWOT ANALYSIS

Imphal city’s weaknesses are mainly due to lack of modern infrastructures

**Railway**
- Absence of rail connectivity also causes major hurdle in transfer of heavy goods and equipment by increasing transportation cost.

**Poor infrastructure**
- Existing water supply network is outdated beyond its design period, thereby causing 40-50% of water loss. Inadequate sewerage network facilities.

**Weak economic base**
- Most of the people are engaged in service sector. Absence of industry in the city and its nearby area is leading to rise in unemployment and encouraging insurgency.

**Public Transportation**
- At present the city has no public transportation system for its people. People commute on auto-rickshaws on shared basis which ply on fixed routes and add to the traffic congestion in the city.

**Negative Image**
- Outsiders tend to see the city as having serious law & order problems, as well as being inhospitable.
Imphal’s opportunities lies in tourism, sports, IT, and culture & heritage.

**Immense Tourism Potential**
- Imphal has various tourism sites within the city such as Kangla fort, Bir Tikendrajit park etc. with good road connectivity. If exploited in a planned manner, tourism can boost the economy of city and will also

**Sports Hub**
- Government of India has decided to set up a Sport University in the state. This will encourage and support the budding sports talents. Imphal can become the hub sports for the North East Region.

**IT sector**
- State’s first SEZ is coming up in the city. This SEZ in IT sector is expected to boost the IT sector in the region along with strengthening economy and generating employment opportunity.

**Health Infrastructure**
- Imphal has the potential to become the centre of Health Infrastructure for nearby states as well as Medical Tourism from Myanmar.

**Cultural City**
- With its unique culture and heritage, Imphal can develop into a cultural city.
SWOT Analysis is a technique for understanding Strengths and Weaknesses, and for identifying both the Opportunities and the Threats of the Imphal Municipal Area.

**Threats**

**Unplanned and Haphazard Development**
- Existing water supply network is beyond its design period, thereby causing 40-50% of water loss through leakages. Inadequate sewerage network.

**Non-Conformance to Regulations**
- Urban planning and land use regulation are not followed in several cases and this has an adverse affect on the environment.

**Enhanced Traffic Congestion and Pollution**
- At present the city has no public transportation system for its people. Rise in numbers of cars and shared auto-rickshaws add to the traffic congestion in the city and increase the level of air and noise pollution.
STRATEGIC PLAN - New Urbanism in Action

CITY PROFILE
- Migration
- Strategic location
- Informal settlement
- Leapfrog development
- Natural resources
- World heritage
- E-governance

SWOT ANALYSIS
- Regional economy
- Sustainable finance
- Multi-hazard risks
- Digital divide
- Urban history
- Social equity
- Leakage of tourist traffic

CITIZEN ENGAGEMENT
- Good governance
- Smart waste management
- Cycle tracks
- Parking, Public transportation
- Affordable housing
- Wifi
- Solar energy utilization

5 INTEGRATED STRATEGIC PILLARS

MOBILITY
- SD 1. Intra City Connectivity
- SD 2. Encourage Role of NMT
- SD 3. Urban Traffic Management

INFRASTRUCTURE
- SD 4. Provision of Physical Infrastructure
- SD 5. Improvement of Social Infrastructure
- SD 6. Future Proofing

TOURISM & CULTURE
- SD 7. Identification of Tourist Resources
- SD 8. Tourism Infrastructure
- SD 9. Regional & Economic Linkage

GOVERNANCE
- SD 10. E-Governance
- SD 11. Fiscal Sustainability

TECHNOLOGY
- SD 12. Building the future
- SD 13. Sports Hub

12 STRATEGIC DIRECTIONS

30 CITY GOALS
- G01: Hierarchy of Roads
- G02: Concept of Bypass & Ring Roads
- G03: Multi Modal Transportation System
- G04: Multi Level Car Parking
- G05: Dedicated Road Network for NMT
- G06: Last Mile Connectivity
- G07: Intelligent Transportation System
- G08: Improvement of Nodes and Junctions
- G09: Waste Water Management & Drainage
- G10: Inclusive Education & Skill Based Education
- G11: Improvement in Health Services
- G12: Develop Sports Infrastructures
- G13: Rain Water Harvesting System
- G14: Disaster Management System
- G15: Pollution Control
- G16: Built Resources
- G17: Cultural Resources
- G18: Hospitality Industry
- G19: Tourist Friendly Streetscape
- G20: Regional Tourist Circuit & Infrastructure
- G21: Participatory Decision Making
- G22: Single Window System
- G23: PPP Model
- G24: GIS based Property Management System
- G25: Incentives & Subsidies for Private Investors
- G26: Wifi Hot-spots
- G27: CCTV Monitoring for Safety & Security
- G28: Smart Card
- G29: City Information Management System
- G30: Integrated Asset Management System
ROLE OF VARIOUS STAKEHOLDERS

STAKEHOLDERS
- Community Welfare Association
- Market Association/Commercial Condominium
- Prominent Citizens
- Non-governmental Organizations (NGO)
- Other Related Asso/Insts

IMPLEMENTING AGENCIES
- Imphal Municipal Corporation
- Planning and Development Authority
- City transport services Ltd.
- PPP Partner/Vendor
- Parastatal Agencies

INTER-DEPARTMENTAL COORDINATION
- Technical head of all ULBs
- Executive head of all ULBs
- Collector as chairman & Municipal Commission -er as convener
- Executive head of all Government -nt and para-statal agencies
- Technical head of all para-statal agencies for imphal

PROJECT PLANNING AND DEVELOPMENT

SPECIAL PURPOSE VEHICLE (SPV)

PROJECT IMPLEMENTATION, SUPERVISION AND MONITORING

PROJECT OPERATION, MAINTENANCE & MANAGEMENT

MANAGEMENT AGENCIES
- Imphal Municipal Corporation
- Planning & Development Authority
- PPP Partner/Vendor
- Parastatal Agencies

ADVISORY COMMITTEE
- Hon. Member Of Parliament (MP)
- Hon. Members Of Legislative Assembly (MLA)
- Hon. Mayor As Convener
- I-M-C Members
- Councilors Of Wards Under ABD
### Vision Statement

The vision for the city includes bridging of the infrastructure gap in the following sectors:

- Art and Cultural Heritage
- Tourism
- Sports
- Transit city

### Strategy and City Vision

<table>
<thead>
<tr>
<th>S.N</th>
<th>Smart City Feature</th>
<th>Scenario 1</th>
<th>Scenario 2</th>
<th>Scenario 3</th>
<th>Scenario 4</th>
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<tbody>
<tr>
<td>1.</td>
<td>Citizen participation</td>
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<td>2.</td>
<td>Identity and culture</td>
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<td>3.</td>
<td>Economy and development</td>
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<td>Health</td>
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<td>Mixed use</td>
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<td>Compactness</td>
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<td>Public open space</td>
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<td>Housing and inclusiveness</td>
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<td>Transport</td>
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<td>Walk ability</td>
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<td>IT connectivity</td>
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<td>ICT-enabled government services</td>
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<td>Energy supply</td>
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<td>Water supply</td>
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<td>Water management</td>
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<td>18.</td>
<td>Waste water management</td>
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<td>Air quality</td>
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<td>Energy efficiency</td>
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<td>Underground electric wiring</td>
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<td>Sanitation</td>
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<td>Waste management</td>
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<td>24.</td>
<td>Safety and security</td>
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**Vision**: To develop the area into a **GREEN, VIBRANT, SAFE COMMUNITY** space for all

**Intra City Connectivity**
- Encourage Role of **NMT**
- **Urban Traffic Management**
  - Provision of
  - **Physical Infrastructure**
    - Improvement of
  - **Social Infrastructure**
  - **Future Proofing**
    - Regional &
    - **Economic Linkage**
  - **HERITAGE**
    - **E-Governance**
    - **Fiscal Sustainability**
    - Building the **FUTURE**

**HERITAGE**

- **Identification of Tourist Resources**
  - Sustainability of the city depends on its culture and identity, therefore retention of culture and image building of the city is critical.
    - Conservation of built and natural heritage
    - Heritage circuit / walk.
    - Creation of cultural hub.
  - Redevelopment and retrofitting of the old areas and relocation of the unwanted use from the core to the periphery.
    - Retrofitting of DM college campus
    - Relocation of the Govt. offices & quarters to the periphery.
  - **Mall Road & Junction Improvement**
    - A mall road development with improved junctions for safer pedestrian friendly movement
  - **River Front Development**
    - Development of Imphal and Nambul river front to conserve environment and improve livability
**EF-1**

**Kangla Fort Rejuvenation Program**
- Conservation and up gradation of 230 acres of Kangla Fort Area into a prime destination for all - local & tourists.

**EF-2**

**Retrofitting of the old areas.**
- **DM college campus**
  - Redevelopment of 133 acres of the D.M. College Campus into an Institutional space providing of hubs of student activity with dedicated precincts integrated with surrounding area.
  - **Vendor market** as a commercial hub with production centre and shops empowering the women folk with improved working conditions.
  - **Relocation of govt. offices/quarters/schools** from the core to the periphery.

**EF-3**

**Since the city lacks open interactive spaces, development of running green is critical.**
- Amalgamation of heritage green into city greens due to relocation of offices.
- Road side green belts.
- City level contiguous greens
AREA BASED DEVELOPMENT

**EF-4**
**Solar Energy Utilization**
- Regulation – compulsory installation on existing public structures for solar power generation: DM college campus.
- Solar powered energy efficient street lighting: Kangla Fort

**EF-5**
**Creation of mall road**
- Pedestrian high end shopping street.
- Performance venues.
- City square and development of plaza.

**EF-6**
**Parking**
- Multi-level car parking
- Variable pricing for parking.
- Parking guidance mobile app.

**EF-7**
**Junction improvements**
- Signals
- Re-design
### Other area based development initiatives

#### Rain water harvesting
- Auditing to ensure all new buildings above 300 sq.mt incorporate R.W.H.
- Financial support, to encourage the system.
- Regulations for incorporating the system in the existing buildings within 5 yrs.

#### Adequate water supply including waste water management.
- 24x7 water supply – upgradation of pipelines.
- Waste water treatment – treatment plants
- Water storage towers
- Firefighting preparedness

#### Zero carbon city
- E- Transportation
- Display board – pollution
- Pollution check mandatory

#### Public participation
- APP for Smartphone.
- Web portal
- Encourage PPP

#### Public toilets
- Paid toilets at public places.

#### Healthcare
- Ambulance service
- District hospitals
- Primary health centre
- Mobile clinics/ dispensaries

#### Sewage and sewerage
- No open defecation city
- All sewerage to be piped underground.
- Provision of Sewage treatment plants - pan city.
- Recycled water to be used for firefighting and release into surrounding water bodies for rejuvenation of water resources.

#### Garbage Disposal
- Encouraging reduce, reuse and recycle.
- Waste segregation
- Sanitary landfills and incinerators.

#### IT connectivity
- Wi-Fi hotspots
- Mobile apps

#### Empowering government
- Single window system
- Fine and e-challan
AREA BASED DEVELOPMENT

AREA PROFILE
Imphal city has identified an area of **541 acre** for retrofitting and redevelopment. The area identified for area based development comprises of Core city under wards 24 & 25, Kangla fort and DM college campus.

The area houses signature buildings and landmarks in the city, hence the development of this area would help in “Image Building of the city”.

The area based development aims at developing this area as-
1. A well connected and accessible area with defined hierarchy of streets and public spaces.
2. A model of environmental friendly development that can be replicated in other parts of the city.
3. A model for achieving sustainable balance between built and natural environment since this area houses a river, a heritage precinct and parcels of urban built form.
4. A tourist destination with supported infrastructure to enhance social and economic well-being.
Interventions under VISION PLAN

1. New Legislation for protection
   - Delineation of Heritage zones of Imphal and programs for area based development

2. Identification of cultural corridors & proposal of Sustainable mobility
   - Integrated heritage management plan for Kangla

3. Proposing a Cultural Hub in Imphal (in Co-ordination with other visions & programs)
- Sustainable commodification of heritage for tourism

- Tourist Amenities Designated walkways

- Adaptive reuse of heritage structures
  - (Programs to be borrowed from other visions)

- Smart Heritage Walks

- Sound and light show

- Regeneration plans for vulnerable intangible heritage resources and developing mechanism for monitoring & proposing an interpretation center showcasing Manipur's intangible heritage legacy
10. Proposing IT based ticketing and feedback system for significant heritage areas

11. Stakeholders involvement - capacity building

12. Proposing a Cultural Hub in Imphal (in Coordination with other visions & programs)

13. Universal access (Barrier free)

14. Rejuvenation of Rivers & significant open areas

15. Rejuvenation of historic water structures
PROPOSAL OF MALL ROADS

Shops

Convivial

Safe & Secure

Pedestrian Friendly

Street furniture

Kiosks

Landscaped

Vibrant
PROPOSAL OF MALL ROADS

Proposing beautifully landscaped sitting areas along the road in the main market to avoid congestion

Proposing roadside gazebos, canopies for shaded sitting areas and view points

Proposing open/semi-open food kiosks with wi-fi hotspot facility for the local crowd and visitors
PROPOSAL OF CULTURAL CENTRES

Dance
Music

Cultural Centres

Cultural programmes being organized in an outdoor theatre in the embrace of nature

Fine classical Manipuri dance and other cultural events can be organized in outdoor theatres

Cultural Melting Point
Haats
Theatres
HandiCrafts
Art
Museum
A Cultural haat or cultural centre is proposed as a tourist magnet, showcasing local handicrafts and cultural art forms providing a glimpse of local way of life and traditions. This can be managed by the women’s groups.
AREA BASED DEVELOPMENT: ROAD GEOMETRY & JUNCTION IMPROVEMENT

- SIGNALS
- RE-DESIGN

A
B
C
D
E

National highway
Major road
Mall road
Ring cum bypass road
Junction
Proposal for -no storage, direct to grid system with smart metering to residential houses /public buildings with incentivized installation of PVC solar panels.
PAN CITY PROPOSAL - MOBILITY

INTELLIGENT TRAFFIC MANAGEMENT SYSTEM

Solution Components of Smart Mobility for Imphal City

- 4 LED Boards
- Bus Driver Console
- LCD/LED TV Display
- Data center/interface via 3G/4G
- Surveillance Camera
- GPS/RFD/SPRS, CAN, RS 232 & 485, USB, WiFi
- Audio Announcements
- Emergency calling & panic button
- Vehicle tracking & monitoring

Emergency Incident Alert & Response Management System for Imphal city

- Press Panic button in Mobile app
- Press Panic button in several locations
- Call-to-server team for service
- CCTV and RDD to detect user

Emergency Incident Alert & Response Management System for Imphal City

- Incident happened
- Central command center
- Central traffic lights managed
- Traffic volume analysis and profiling
- Incident management
- Incident reporting
- Vehicle sensors to detect violations and traffic analysis
- Vehicle counting and profiling
- Number plate recognition and identification
- Pedestrian button to add to convenience of pedestrians

Integrated Parking Solution for Imphal City

- Parking fee to be paid by Mobile app or through Smart Card
- Display board to provide parking space availability
- CCTV & RDD to detect user

- User find parking space outside city
- Goods vehicle reach outside city parking lot
- Goods vehicle reach through non-motorized vehicles/mini vehicles to in-city destinations
- Parking Fee paid through Mobile App/Smart Card

Integrated Solutions of Smart Mobility for Imphal City

- Command & Control Center Management
- Fare Management through pre-paid smart card/buses
- Travel journey planner in Mobile App
- e-Challan for traffic rule violation
- Audio Visual Display at Bus stops/Bus Terminals
- Audio Visual Display inside Bus

Web based EARS System for Central Control Room and Mobile App for public & ERS Mobile team

Dispatch Emergency service vehicles with trained personnel
To create a hub that includes freight, ICD, intercity bus depot, truck terminal. It is proposed to be located near coming up railway station and the existing airport terminal.
FUTURE PROOFING IMPHAL

PROPOSALS:

- **Structural Stability  Earthquake Resistance**
  - Enforcement of Building bylaws for any new construction and retrofitting old construction for earthquake proofing also increasing the level of Disaster Preparedness

- **Energy Efficiency Initiative**
  - Reducing energy consumption and ensuring Sustainable Energy through programs such as SE4ALL, DELP for energy efficient lighting, Energy efficient water pumps and Solar water heaters. Introduce Sustainable Alternate Energy Initiatives

- **Solar City Programme**
  - Introducing Roof Top Solar project with 2MW Solar energy generation on existing public building Premises, 7MW on roof tops of new developments, 1MW on retrofitting of private building.

- **Urban Flooding- Early Warning System**
  - Installing Early Warning Sensors for better preparedness and to mitigate the impacts of flooding. Environmental status monitoring through Environmental Sensors

- **Incident and Disaster Management Plan**
  - Preparation and annual up-gradation of Integrated Disaster Management Plan for Smart District and neighborhood level. Organizing Mock Drills for capacity building of staff

Composite Vulnerability Map

- 35% of the city area are Flood Prone areas
- 100% of the city area are under Seismic Zone 5