



DEPARTMENT FOR PROMOTION OF
INDUSTRY AND INTERNAL TRADE
MINISTRY OF COMMERCE & INDUSTRY
GOVERNMENT OF INDIA



PM
GatiShakti
National Master Plan for
Multi-Modal connectivity

**“PM GatiShakti National
Master Plan for Multimodal
Connectivity Transforming
Infrastructure Development in
the Country”**

**By Ms. Sumita Dawra, Special
Secretary, DPIIT**

16th January, 2024

Introduction

- ❖ Hon'ble Prime Minister Shri Narendra Modi's vision is to make India a developed Nation by **2047**.
- ❖ With GDP of **USD 32.8 trillion economy** by 2047; green logistics & sustainable and **resilient infrastructure** as a critical growth driver
- ❖ Capital investment outlay increased **by 37% to INR 10 lakh Crore** (~USD 121 bn) in Union Budget 2023-24.
- ❖ To bring synergy and synchronization in planning infrastructure, Hon'ble Prime Minister launched the **PM GatiShakti National Master Plan** on 13th October, 2021.
- ❖ To complement the PM GatiShakti NMP, and to facilitate improvement in logistics services the **National Logistics Policy (NLP)** was launched on 17th Sept. 2022 by Hon'ble PM.
- ❖ Other digital initiatives include **Unified Logistics Interface Platform (ULIP), Logistics Data Bank (LDB)** etc., for cost and time-effective project planning and implementation.



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“We consider **infrastructure development** as the driving force of the economy; India will achieve the target of becoming a developed nation by **2047** by following this path.”

Vision

*PM GatiShakti is a **transformative** approach to **integrated planning** of **multimodal** infrastructure, last mile connectivity, reducing logistics costs, and ensuring the **seamless** movement of **people** and **goods**.*

PM GatiShakti – Concept

Approach

- **Whole of the Government Approach** for **integrated and holistic planning**
- **Multimodal connectivity** to various economic zones
- **Improving logistics efficiency**

GIS Based Platform

National Master Plan (NMP)

- 585+ data layers of 43 Central Ministries/ Departments integrated
- 50+ planning tools

State Master Plan (SMP)

- 872+ data layers of 36 States/UTs integrated.

Institutional Mechanism

At Central and State/UT Level

Empowered Group of Secretaries (EGoS)

Network Planning Group (NPG)

Technical Support Unit (TSU)

What's new? Revolutionizing the Planning Process

“ Replacing subjective decision-making with objective data-based decision ”

Technology-Driven
Planning

Detailed Project Report
(DPR) Preparation
Expedited

PM
GatiShakti
National Master Plan for
Multi-Modal connectivity

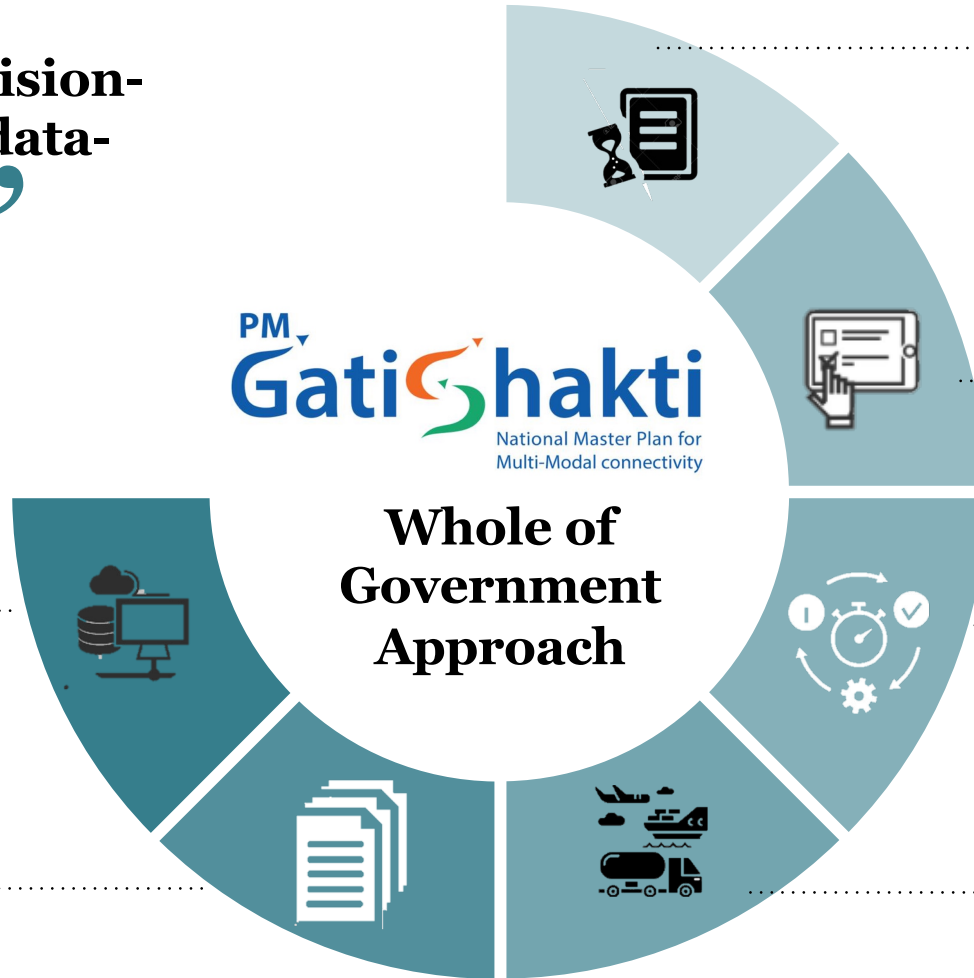
Whole of
Government
Approach

Optimized Planning

Digital surveys for
possible alignments

Faster and Cost-
Efficient
Implementation

Infrastructure
Gaps Planning



Adoption of PM GatiShakti in Infrastructure Planning (1/2)



M/o Railways

- Construction of new rail lines increased from **4 km** per day to **12 km per day** in 2023;
- Number of Final Location Survey (FLS) increased from **57 in FY '21** to **449 in FY '22**.

27000 km

Length of Rail Infrastructure Projects Planned on NMP

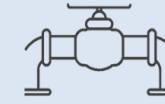


M/o Road Transport & Highways

- **Pre-alignment** preparation now in **15 days**, earlier it used to take as much as **6 months**

8891 km

Length of Road Infrastructure Projects Planned on NMP



M/o Petroleum & Natural Gas

- **Electronic Detailed Report Survey (e-DRS) : 46** DRS reports generated digitally in 24 hours, compared to 6-9 months earlier
- Alignment of **5 pipelines** for the **North-East Gas Grid (NEGG)**– **distance saved** (42 km), **cost reduction** (INR 169 crores, i.e., USD 20 Mn).

924 kms

Length of Pipeline Projects Planned on NMP

Adoption of PM GatiShakti -Infrastructure Ministries / Departments (2/2)

Telecom

✓ **26,000 villages** identified for **4G saturation**.

✓ Mapping of street furniture for installing 5G infra/chips (**5G rollout**).

New & Renewable Energy

✓ Planning of **Green Energy Corridor (13GW)** from Ladakh (J&K) to Kaithal (Haryana).

Power

✓ Preliminary route alignment of 765kV **Double Circuit line (350 kms)** planned in Rajasthan

- Avoiding forest, wildlife sanctuaries thus saving time and cost

✓ Integrated planning of **Multi Modal terminals** (Jal Marg Vikas Project) at Haldia; LPG Terminal at South Oil Jetty at Paradip Port, etc.

Port Shipping & Waterways

✓ **Modal shift** being facilitated to Waterways by 10% - 20% by 2030.

Adoption of PM GatiShakti – Social Sector Ministries / Depts

Education School, Literacy

- ✓ Identification of prominent **industries** in districts to impart **district-specific skill** course by schools
- ✓ **PM Shri Schools** have been mapped to identify other schools nearby to **anchor** other schools nearby.

Health Family & Welfare

- ✓ Identification of **internet shadow areas** for the effective functioning of **telemedicine services** in difficult and **distant terrain**

Housing & Urban Affairs

- ✓ **City logistics plan** to **decongest** urban areas and enhancing **first and last-mile connectivity** for key **economic hubs**

Skill Devt & Entrepreneurship

- ✓ Identification of **New training institutes** (GAP analyser tool) near **industrial/economic areas**

Drinking water & sanitation

- ✓ **Query-based Gap** Analyzer tool to identify **unserved areas** near water resource points

PM GatiShakti - International Outreach

- Showcasing **PMGS approach** to global audience :
 - **ADB's Seminar** in Manilla (10+ countries participated) [Jun 2023].
 - **G20 & B20** events [Aug 2023].
 - Address to **Arab League of Nations** in Sushma Swaraj Institute of Foreign Service [Aug 2023].
 - **ADB's Regional Conference** in Georgia (30+ countries participated) [Sept 2023].
 - Meeting with **07 Indian Missions** (Bhutan, Bangladesh, Myanmar, Sri Lanka, Nepal, Maldives, Mauritius) [Sept 2023].
 - Meetings with Govt of **Nepal** [July 2023]; In-Smart **Bangladesh** Conference held at Dhaka [Nov 2023].
 - Visit of **senior-level Delegation** from **Nepal** to improve understanding of PMGS [Oct 2023].
 - UNESCAP's **Asia-Pacific Business Forum** in Hong Kong [Nov 2023].

Outcomes: Sustainable Infra development through PM GatiShakti

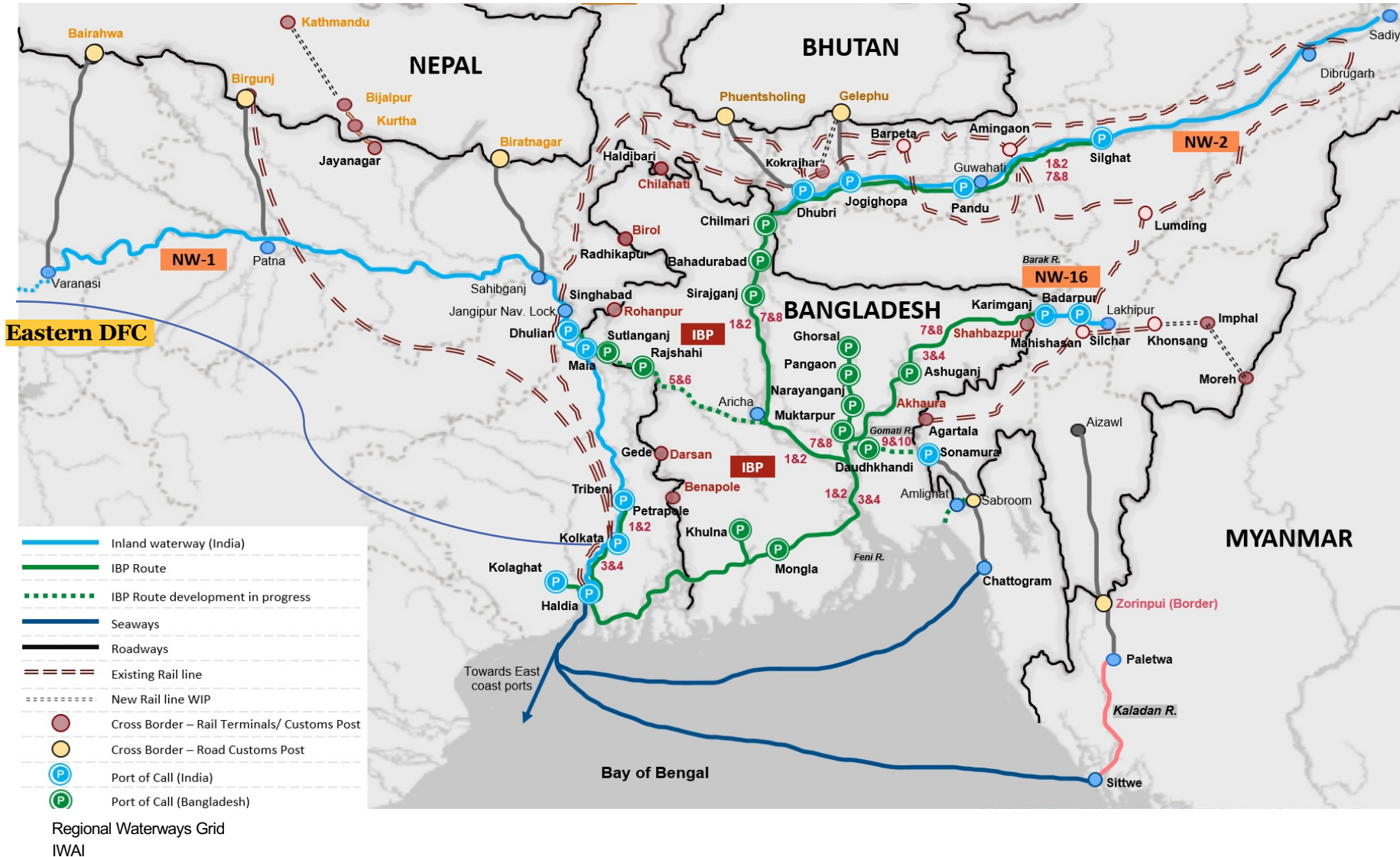
- ❖ **Data driven**, informed decision making.
- ❖ Promoting **multimodal connectivity**;
- ❖ Avoiding **duplication** of infrastructure creation and promoting **capacity sharing**;
- ❖ Minimizing **disruption to natural resources**;
- ❖ Optimum alignment – **reducing distances**, saving time, cost and carbon footprint;
- ❖ GIS-data based platform leading to **Paper less integrated planning**;
- ❖ **Synchronization** and **convergence** of information and resources on a single platform for holistic planning;
- ❖ Reducing **critical last & first mile gaps**.

Resilient Supply Chains and Smart Logistics

- India has huge potential to establish itself as a **major player in the global supply chain** eco system.
- Active involvement in GVCs and resilient supply chain crucial for achieving **its \$2 trillion export goal by 2030**
- Government's pro-active approach aimed at strengthening **partnerships** for resilient and sustainable supply chains, including:
 - ✓ **G20 Delhi declaration** on global value chains
 - ✓ Supply chain cooperation arrangements under Supply Chain Resilience Initiative (**SCRI**) 2021,
 - ✓ Indo-Pacific Economic Framework for Prosperity (**IPEF**) and
 - ✓ South Asia Sub-Regional Economic Cooperation (**SASEC**)
- **Strengthening investment flows and manufacturing, supply chain network** in the country, through:
 - ✓ PLI, Make In India, PMGS, Bharatmala, Sagarmala, etc.
 - ✓ **Port-led development, infrastructure** as a **facilitator of trade**.
 - ✓ **Technology** for efficient logistics ecosystem - **domestic innovations** like GST, ULIP, Logistics Data Bank, Digital Twin, and AI in logistics;
 - ✓ **Demand driven planning** on PMGS,
 - ✓ Liberalisation of FDI regime, Free trade Agreements, etc.

Some Examples of Usage of PM
GatiShakti NMP in Project Planning

Strengthening Regional Connectivity using PM GatiShakti



RWG involves **development of waterways based multi-modal connectivity** with the regional countries (namely Bangladesh, Nepal, Bhutan, and Myanmar).

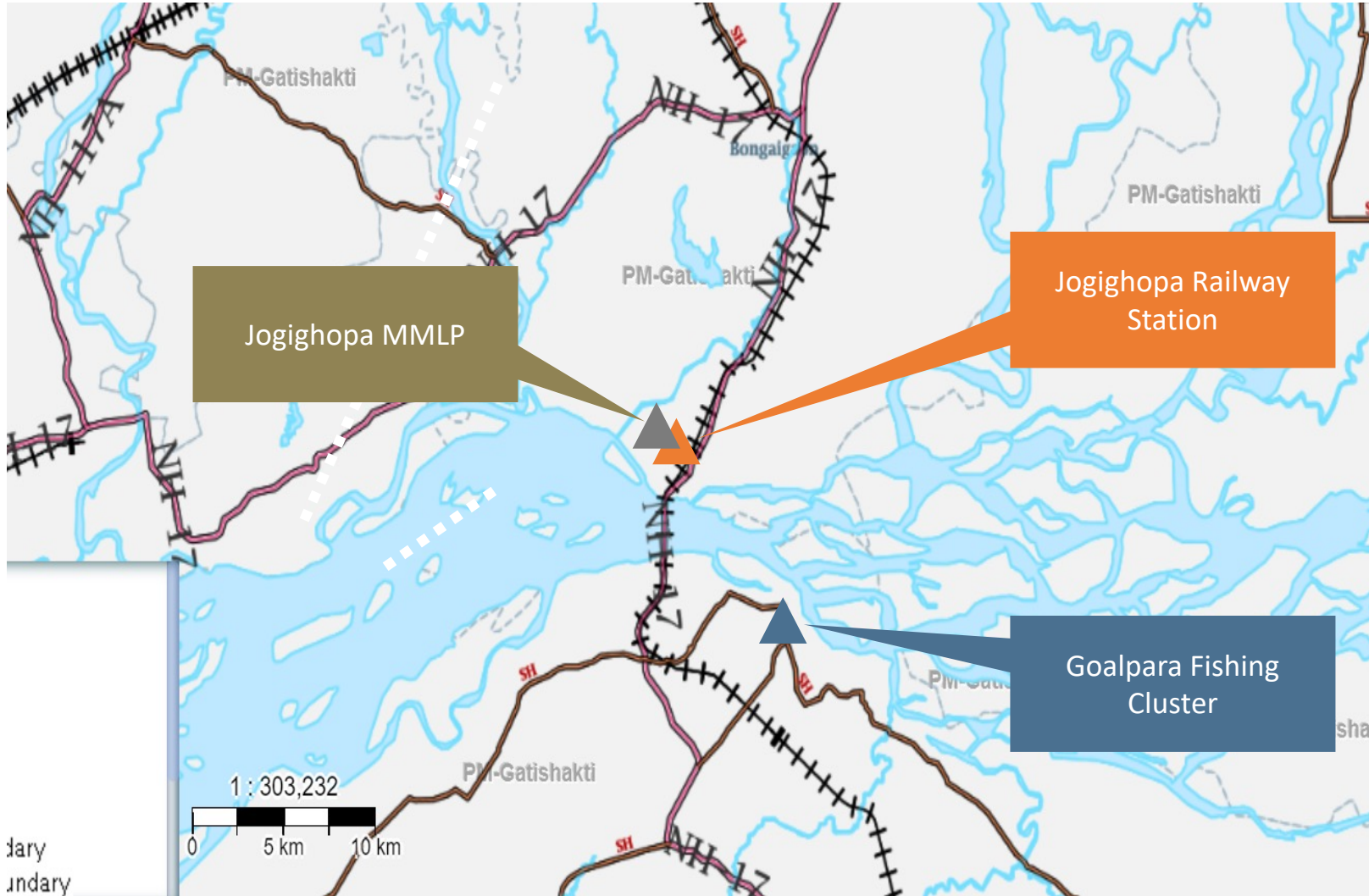


Focus is on enhancing economic activity in the region by:

- Boost economic and transport **corridors**
- Overall **regional development**
- Plugging **last & first mile gaps** to connect all economic centres and social sector institutions.

Using PM GatiShakti approach, multimodal connectivity to growth centres and border points is being facilitated, thereby enhancing connectivity with regional partners.

Ministry of Road Transport & Highways: Under construction Multi-Modal Logistics Park (MMLP) in Jogighopa, Assam (1/3)







Project Details

- ~ **200 Acre land parcel** transferred to NHIDCL by APM¹
- ~**80 Acre land acquired separately** by NHIDCL for external connectivity
- Located close to Jogighopa Paper Mill area
- **Road connectivity :** Located at 4km from NH-17
- **Rail connectivity:** Jogighopa railway station at ~4km on Guwahati – Dhubri rail line
- Civil works are in progress





MORTH: Under construction Multi-Modal Logistics Park (MMLP) in Jogighopa (2/3)

Industrial goods passing through MMLP Jogighopa

Inward

- 1 Foodgrains 
- 2 FMCG & Household goods 
- 3 Ballast 
- 4 Automobiles 

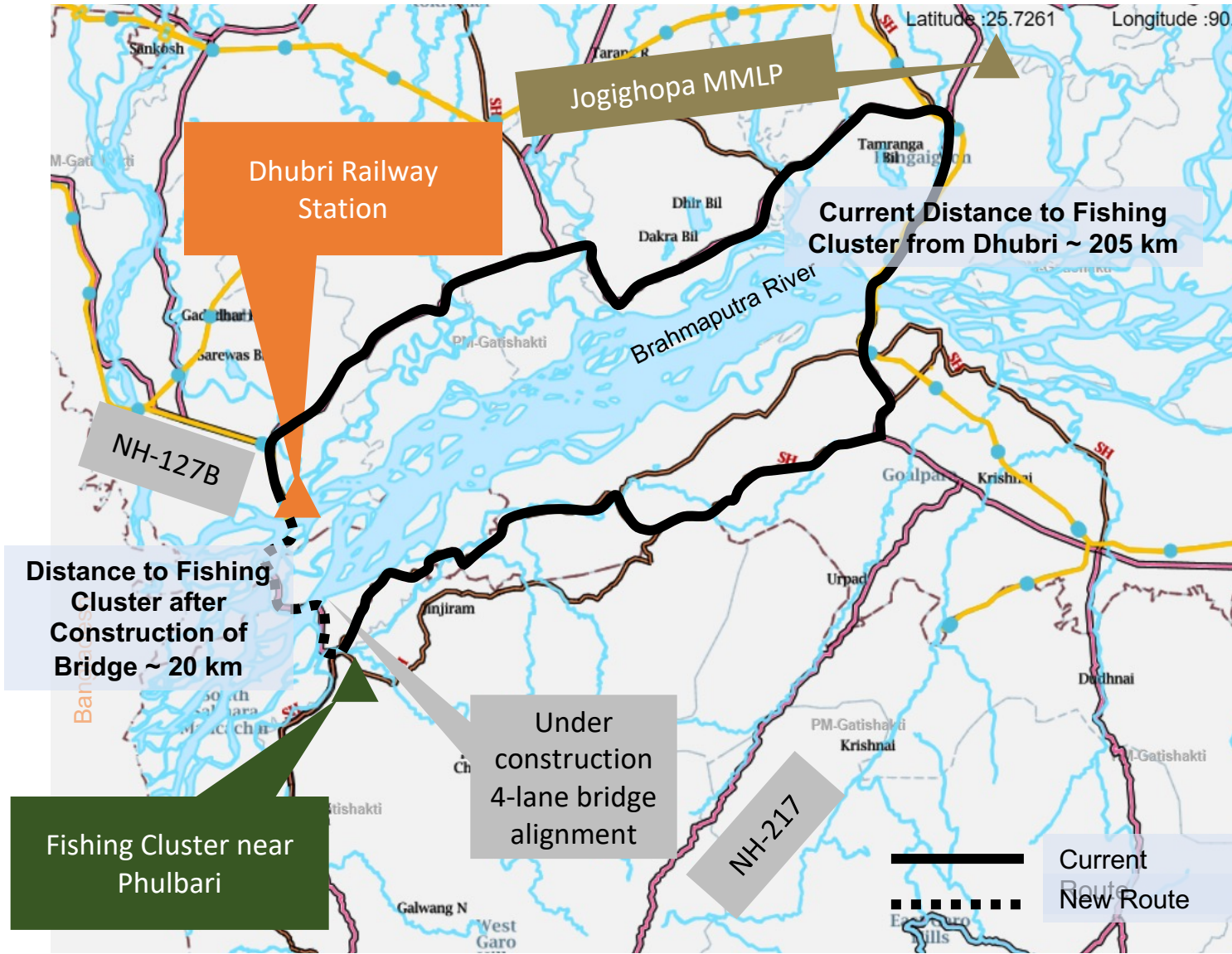
Outward

- 1 Tea 
- 2 Betel nut 
- 3 Cement 
- 4 Rubber 

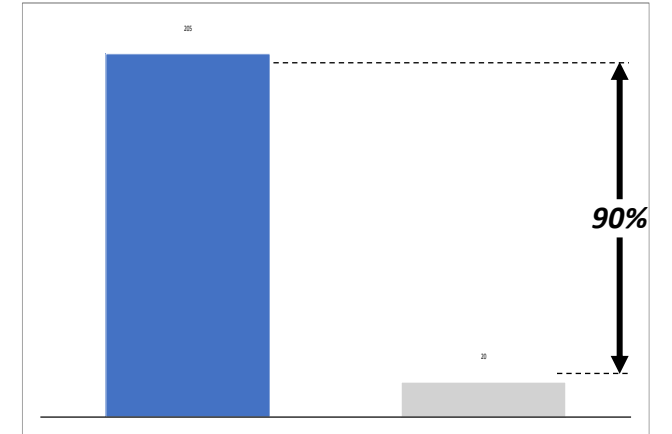
Proposed components in MMLP to cater to traffic demand

- 1 Business centre and trade finance assistance
- 2 Container yard
- 3 CFS and other Custom bonded services
- 4 Warehouses
- 5 Cold storages
- 6 IT linkage with port / customs / railways / end users
- 7 Other allied units like Admin building, Transporters offices etc.
- 8 Truck parking, Fuel pump, Workshop & Dhaba etc.

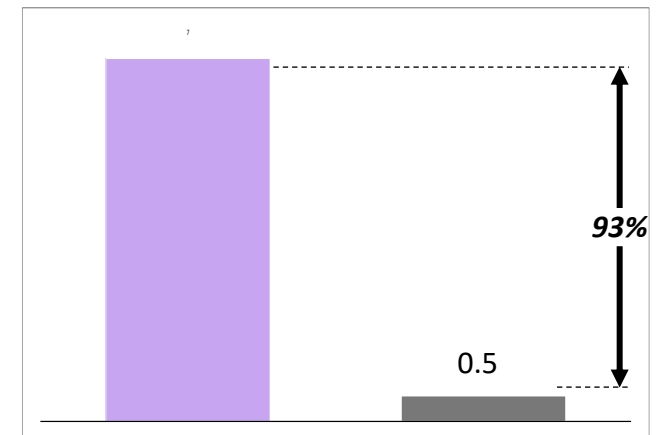
MORTH: Under construction Multi-Modal Logistics Park (MMLP) in Jogighopa - Construction 4-lane Bridge across River Brahmaputra (3/3)



Distance Reduction (in km)



Time Reduction (in hours)



MNRE- Green Energy Corridor Phase-II: Inter-State Transmission System for 13 GW Renewable Energy Projects in Ladakh

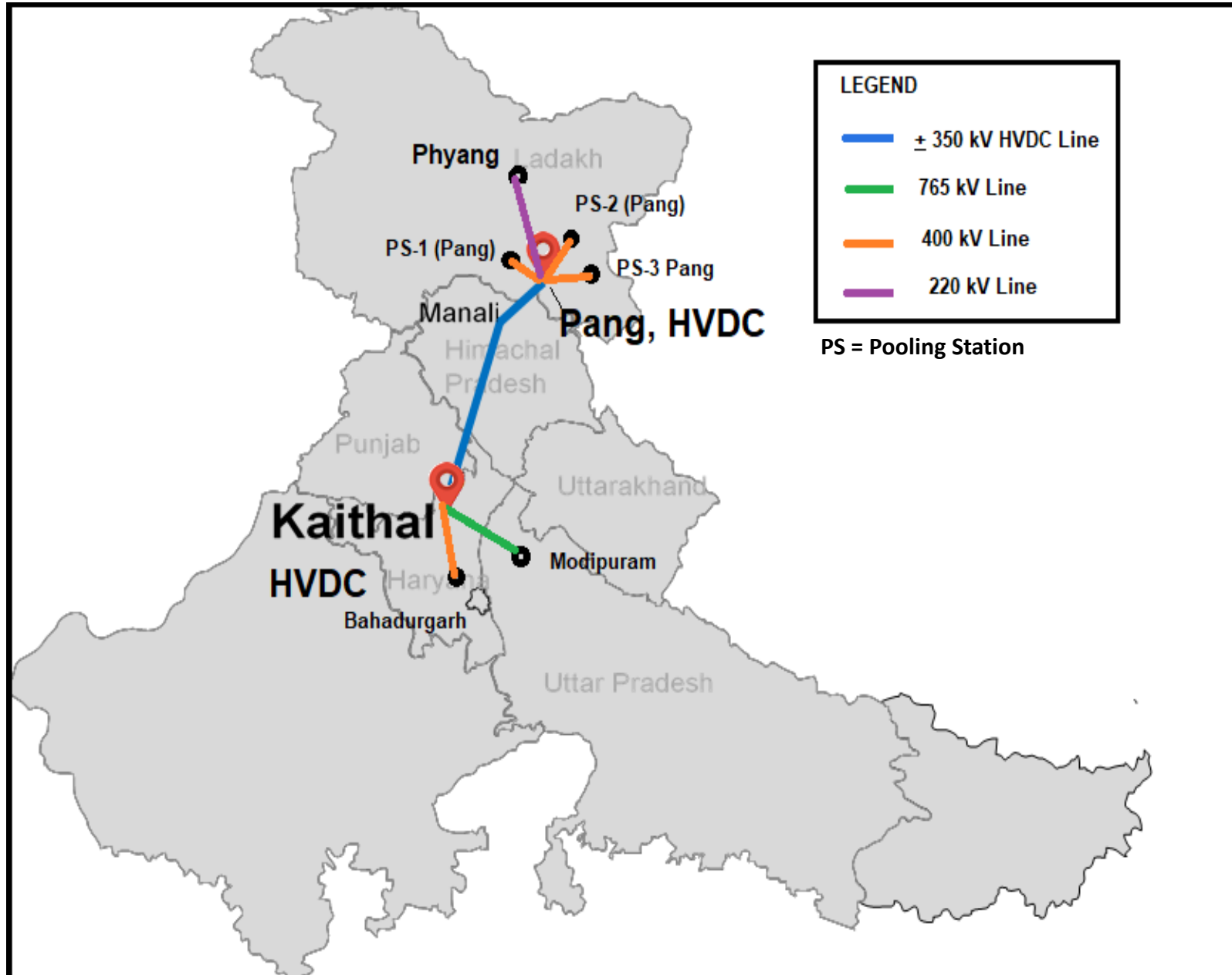


The Cabinet Committee on Economic Affairs (CCEA) chaired by Prime Minister Narendra Modi Wednesday approved Green Energy Corridor Phase-II – Inter-State Transmission System for 13 gigawatt renewable energy project in Ladakh

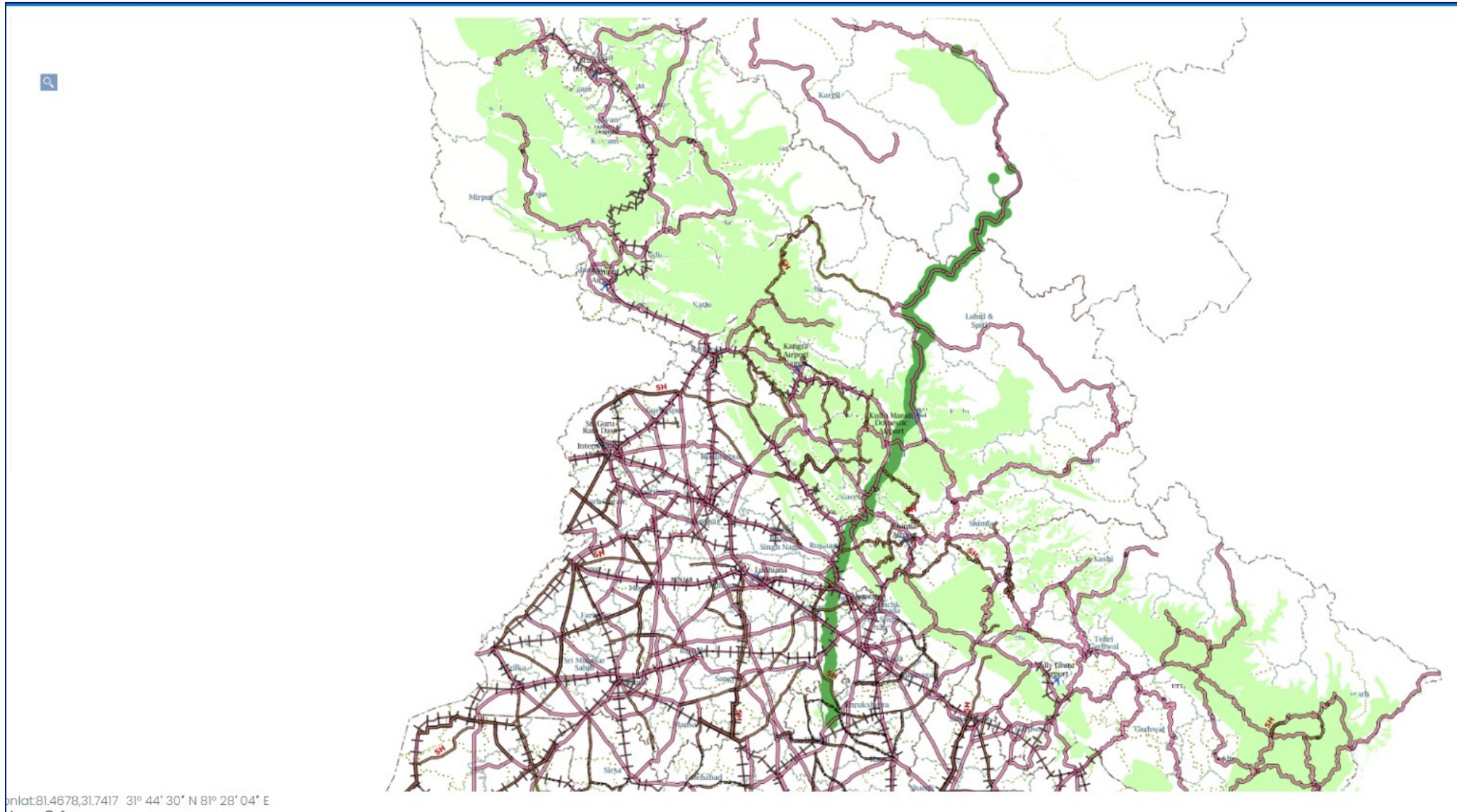
<https://www.livemint.com/news/india/cabinet-approves-rs-20-773-70-crore-for-13-gw-green-energy-corridor-project-in-ladakh-11697639781976.html>

15-Jan-24

Schematic Diagram



Snapshot from PM-Gati Shakti National Master Plan



lonlat:81.4678,31.7417 31° 44' 30" N 81° 28' 04" E

15-Jan-24








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Social Sector Planning using PM GatiShakti principles

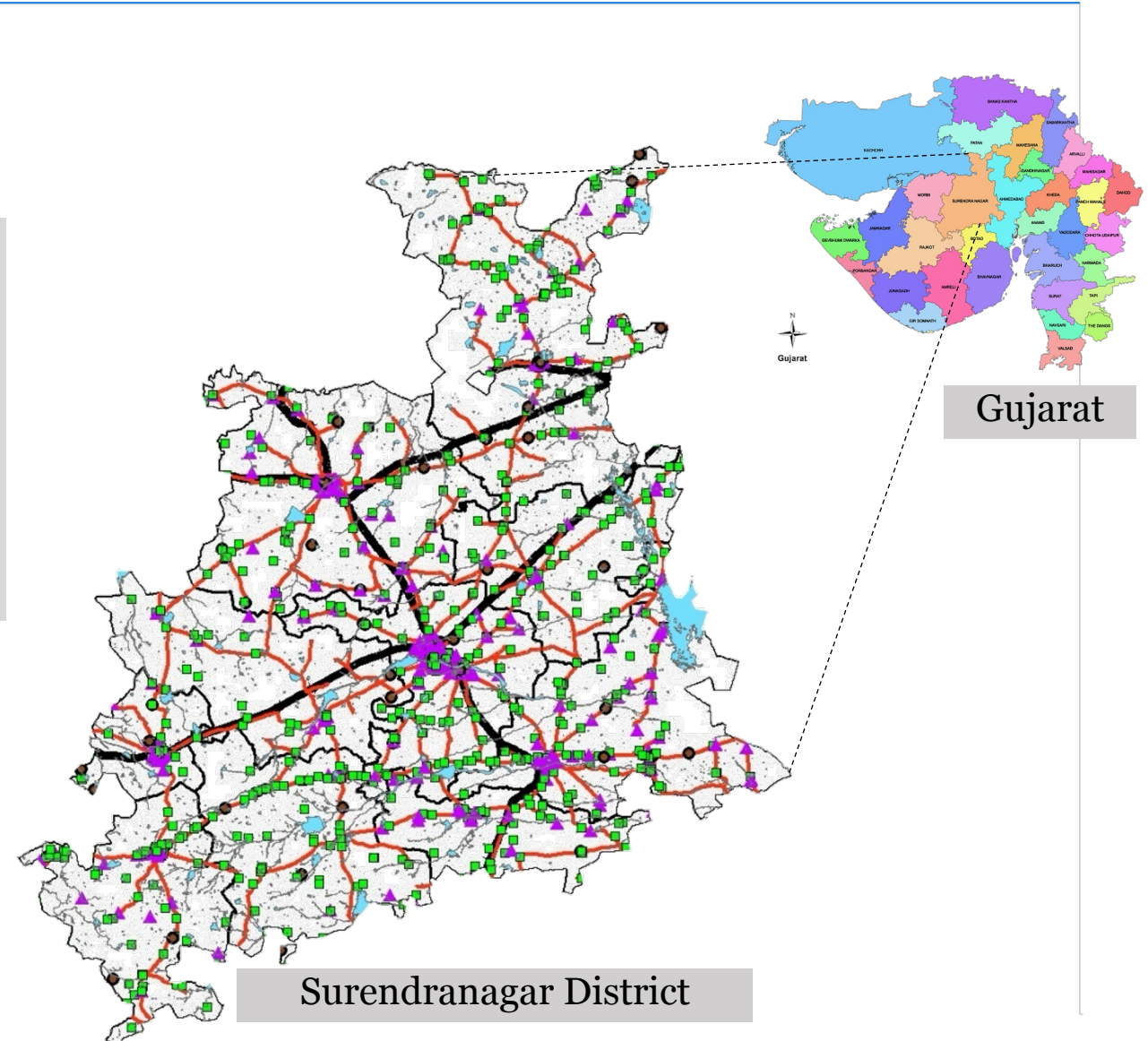
Gap Identification Tool – Anganwadi (1/2)

Site suitability for construction of new Anganwadi Centres (AWCs)

- PMGS-NMP used for **site suitability** for AWCs.
- **POSHAN** tracker integrated with PMGS-NMP
- Location identified based on dynamic attributes (nutritional status, population, nearby AWCs, etc.)

	District Boundary
	Road network
	River/Water body
	Railway
	Settlement
	Own
	Rented

District	Surendranagar
Population (2011)	15,37,671
Existing Anganwadi	1,348
Own	822
Rented	460
School Rooms & Community Hall	66
Required Aanganwaadi (based on population criteria of 800)	1,922
GAP	574

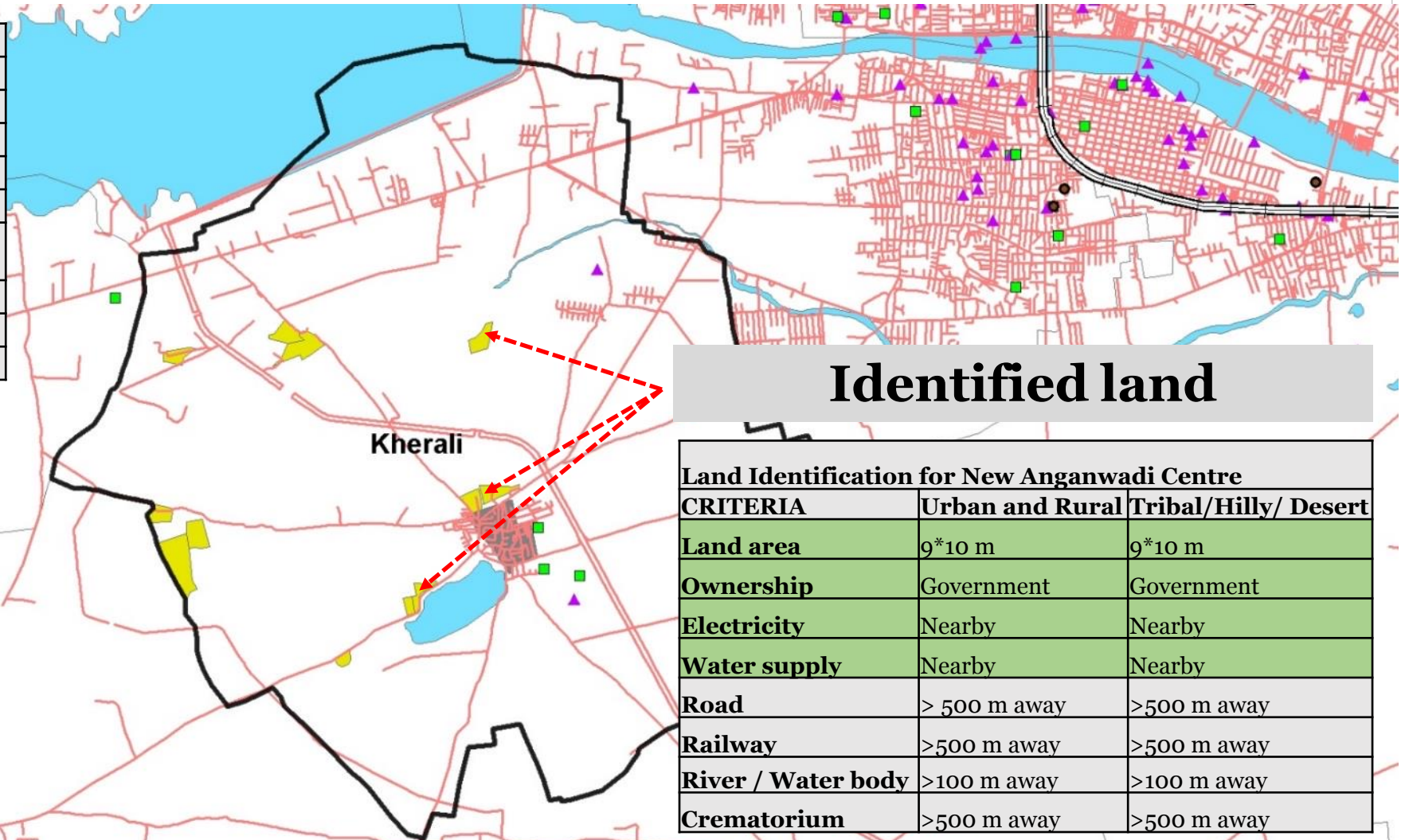


Gap Identification Tool –Anganwadi (2/2)

Identification of Land for AWCs

District	Surendranagar
Taluka	Wadhwan
Village	Kherali
Population (2011)	4,696
Male	2,415
Female	2,281
Existing Anganwadi	5
Own	3
Rented	2
Gap	1

	<u>Taluka Boundary</u>
	<u>Village Boundary</u>
	<u>Road Network</u>
	<u>River/Water body</u>
	<u>Identified Govt. Land</u>
	<u>Railway</u>
	<u>Settlement</u>
	<u>Own</u>
	<u>Rented</u>



Identified land

Land Identification for New Anganwadi Centre		
CRITERIA	Urban and Rural	Tribal/Hilly/ Desert
Land area	9*10 m	9*10 m
Ownership	Government	Government
Electricity	Nearby	Nearby
Water supply	Nearby	Nearby
Road	> 500 m away	>500 m away
Railway	>500 m away	>500 m away
River / Water body	>100 m away	>100 m away
Crematorium	>500 m away	>500 m away

Village : Kherali | Taluka : Wadhvan | District: Surendranagar

UP: PAHUNCH Tool

Tool to Assess Habitations Unserved & Needing Intermediate & Senior Secondary

Nearest School from unserved village view on Map

- All the information related to schools can be found on one click.
- This idea will help in making a robust system.
- Each and every information related to unserved villages and building a new school will be available in a seamless fashion.

It will help to determine that how much distance does a student has to walk to its nearest school and also suggest building a new school at a suitable place.

Health : Gap Identification tools for establishment of New Hospital

Analysis

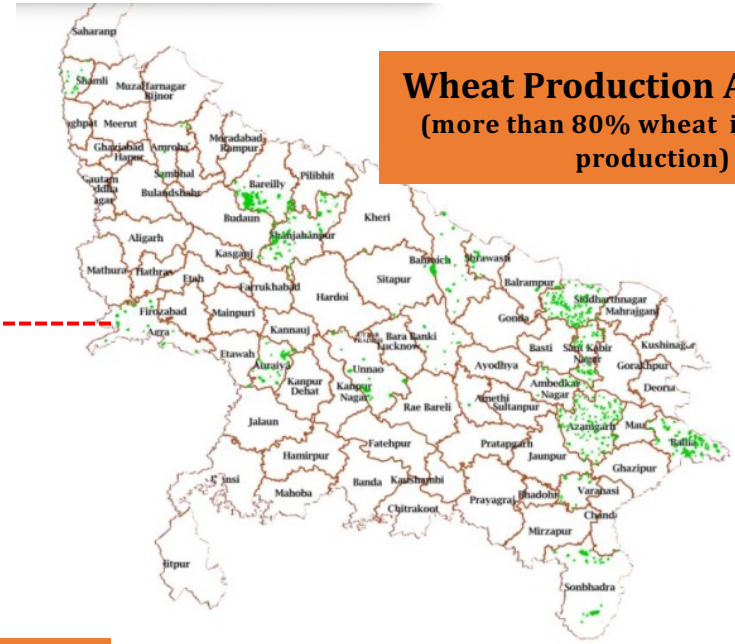
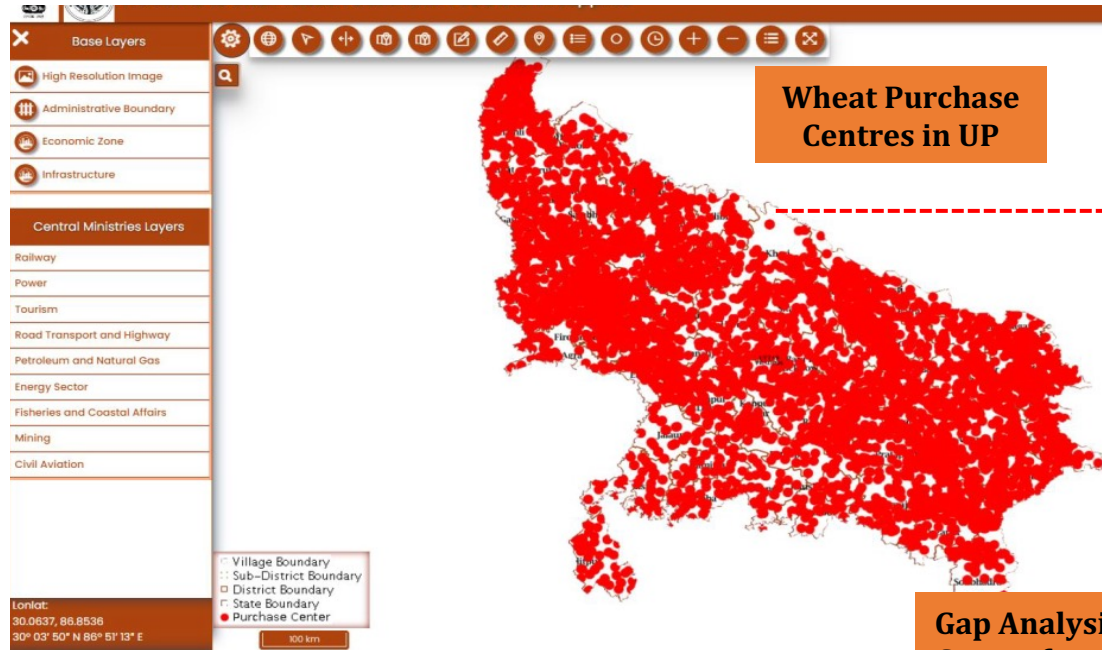
Lat: 27.0705475/5418914
 Village Population :
 District :Lucknow
 Village :Raipur Raja
 Total Population :1920.00
 Total Population Men :1027.00
 Total Population Women :893.00
 Distance from given point:

Layer Name	Distance (KM)	Name
National Highway	1.95	NH-30
MDR	14.63	MDR
AirPort	34.03	Chaudhary Charan Singh Airport
District Headquarter	24.63	Lucknow

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- With the help of query tools it can be determined that how many hospitals are available in a selected buffer area.
- As a result following decision points are shown:
 - ✓ Demographic Details
 - ✓ Road Infrastructure (NH, SH, MDR etc.)
 - ✓ Airport
 - ✓ Railways etc.

Food & Civil Supply Gap Analysis : Distance from Purchase Center from Wheat Production Area



Gap Analysis : Distance from Purchase Center from Wheat Production Area.

SrNo	Village	Purchase Center	Distance(Kms)	Address Of Purchase Center	Agency	Block	District	Division	Center Incharge	Post of Center Incharge	Mobile Number	View on Map
1	Bajhera	Laharpur mandi	30.54	Laharpur mandi i	FCS Marketing	LAHARPUR	Sitapur	Lucknow	RAM SWAROFA	AMO	9453464554	
2	Jamin Chandapar	Haraiya	1.79	Dinesh Kumar	FCS Marketing	HARAIYA	Azamgarh	Azamgarh	Dinesh Kumar	MARKETING INSPECTOR	9794105567	
3	Atry	maitha	27.08	Manda maitha	FCS Marketing		Kanpur Dehat	Kanpur	Aparna Awasthi	MARKETING INSPECTOR	8382074503	

Report



सत्यमेव जयते
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Ministry of Commerce and Industry
Government of India

Scan QR code to download the following:

- (i) Presentation on PM GatiShakti**
- (ii) Compendiums on best use cases of PM GatiShakti**
- (iii) A video showcased to G20 Delegates and industry leaders during the B20 Summit**



Thank you