

70 Years of India-Japan Relations:
Taking Stock of Economic Ties and Looking Ahead

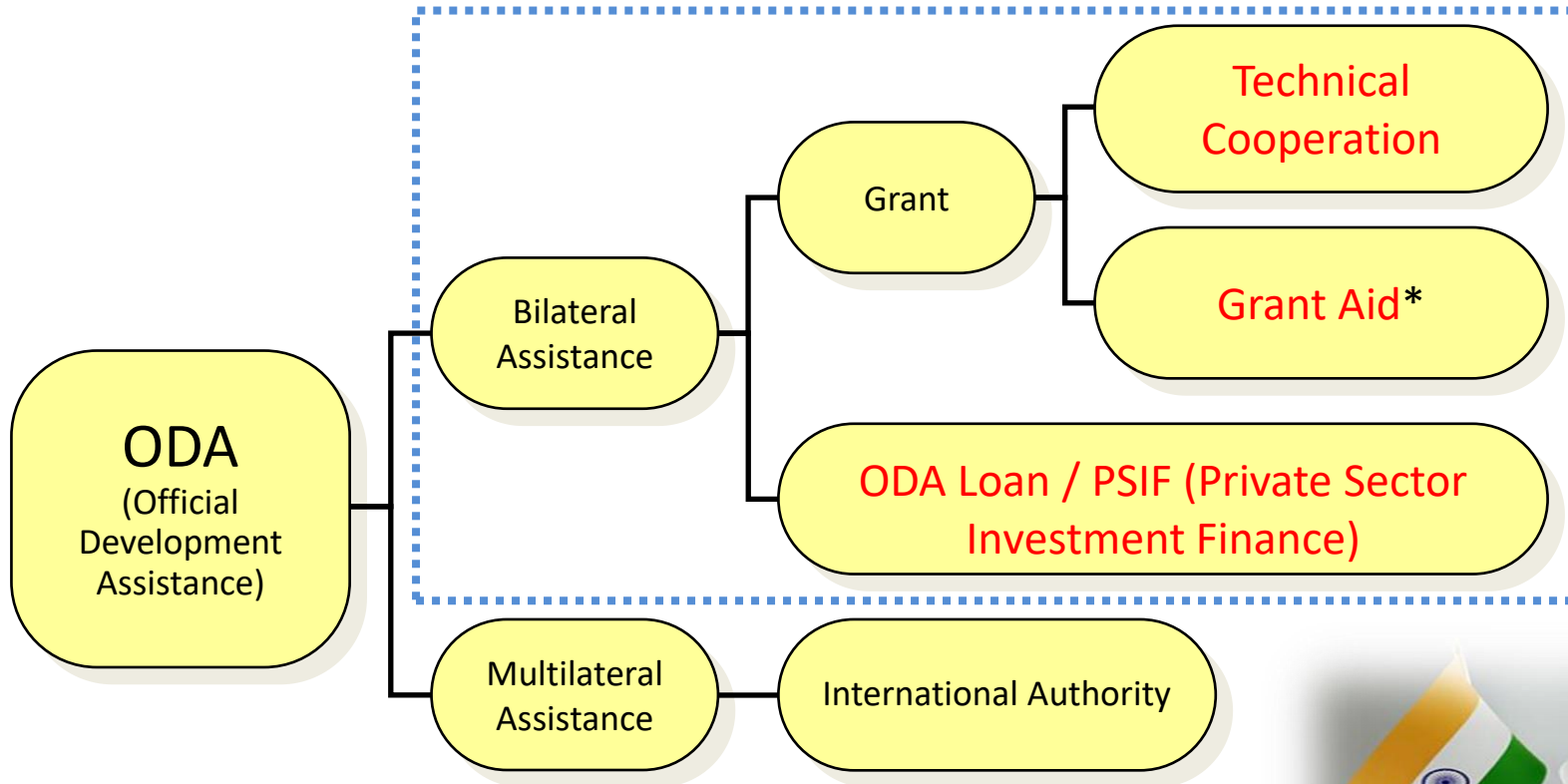
Japan's ODA to India

May 9, 2023

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Chief Representative, India Office
Japan International Cooperation Agency (JICA)

What is “JICA”?

- ✓ **JICA** is a **governmental agency** of Japan that coordinates official development assistance (ODA)

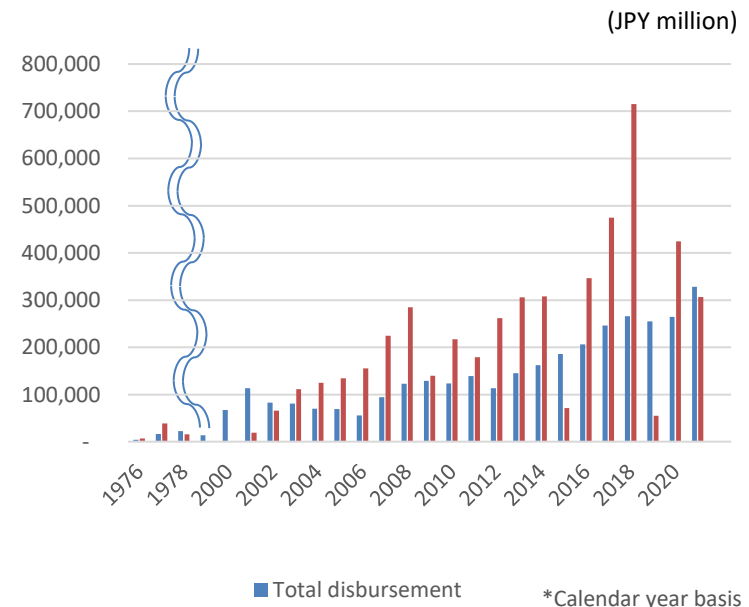


* Part of grant aid is provided by the Ministry of Foreign Affairs

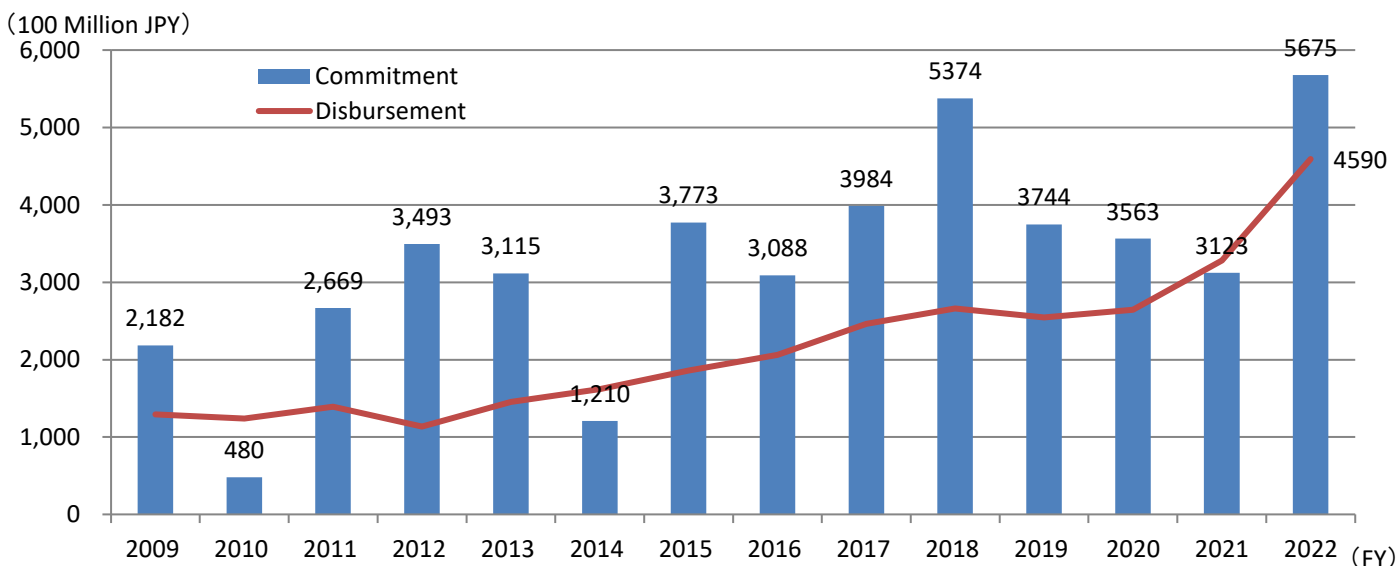
Growing Bilateral Ties, Growing Operations

- Japan's 1st ODA loan was provided to India in 1958
- Steady support for India's economic & social development over 6 decades
 - ✓ 70-90's: commodity import, Power, Agriculture, national highways
 - ✓ 2000's - : + Urban infrastructure (transport, water), Environment Conservation
 - ✓ 2010's - : + Industrial corridor development(Delhi-Mumbai, Bengaluru-Chennai), Health
- **JICA : Largest bilateral donor to India / India : Largest partner of JICA since 2004**
- Cumulative commitment has reached JPY 7.4 trillion (app. Rs. 5.0 lakh crore)

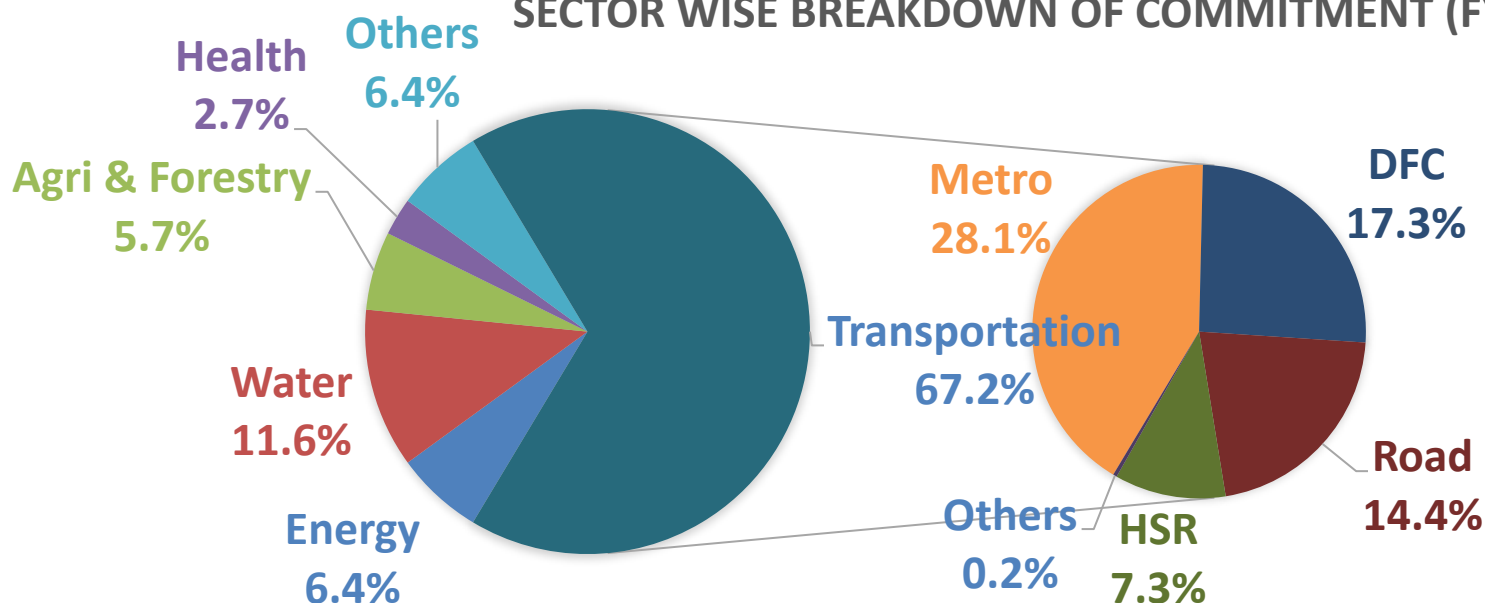
Loan Commitment and Disbursement Growth



Transition of overall loan operation in India

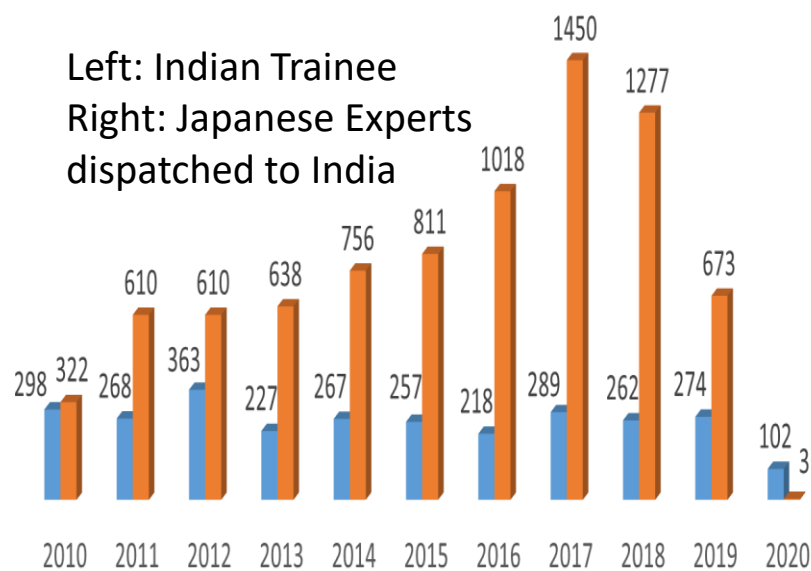


SECTOR WISE BREAKDOWN OF COMMITMENT (FY2012-2021)

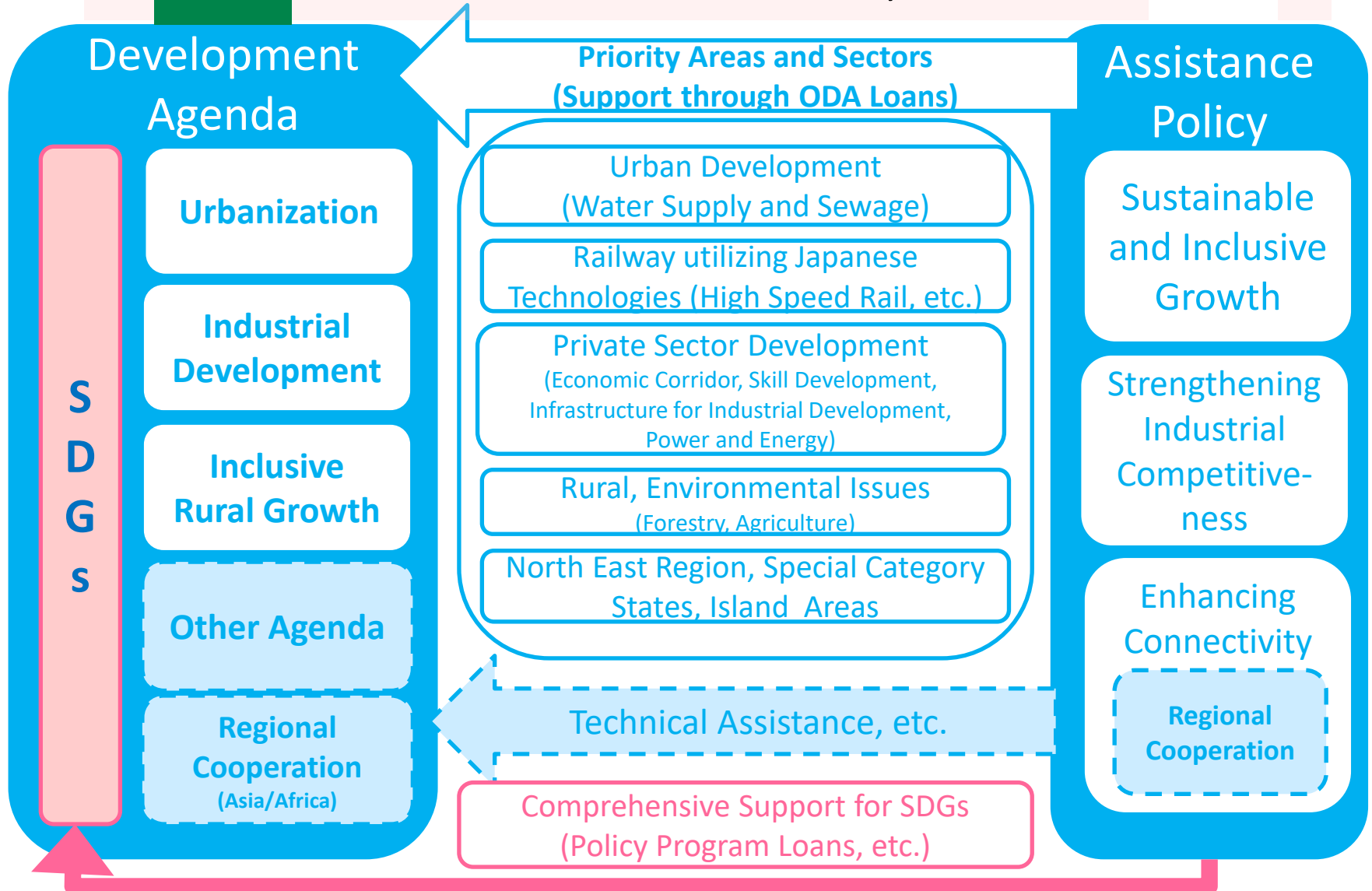


Technical cooperation for **“capacity development”** includes the training of Indian officials and the dispatch of JICA experts.

Total Number of (until FY 2020)	Number
Trainees from India	over 8,400 persons
Japanese Experts / Survey teams	over 11,500 persons
Japan Oversea Cooperation Volunteers	over 200 persons



Possible Contribution by JICA



- **Urban transport infrastructure**
 - ✓ Metro
 - ✓ Mumbai trans harbour link
- **Industrial corridor development** (Mumbai-Ahamedabad High Speed Rail)
- **Human resource development** (IIT Hyderabad)
- **Cooperation in North East India**

JICA's Cooperation for Metro Projects

JICA is supporting metro projects in 6 major cities in India

Ahmedabad Metro

- JICA funded Length: 38 km
- Cumulative Loan Amount: JPY 96.4 Billion (about Rs. 6,426 crore)
- Completion Year: 2022 (Partially operating)
- Under Construction

Delhi Metro

- JICA funded Length: 323km
- Cumulative Loan Amount: JPY 825.2 Billion (about Rs. 55,012 crore: Phase 1-4)
- Completion Year: 2021 (Phase-3)
- Phase-4 under construction



Mumbai Metro

- JICA funded Length: 34 km
- Cumulative Loan Amount: JPY 210.9 Billion (about Rs. 1,406 crore)
- Completion Year: 2023
- Under Construction

Kolkata Metro

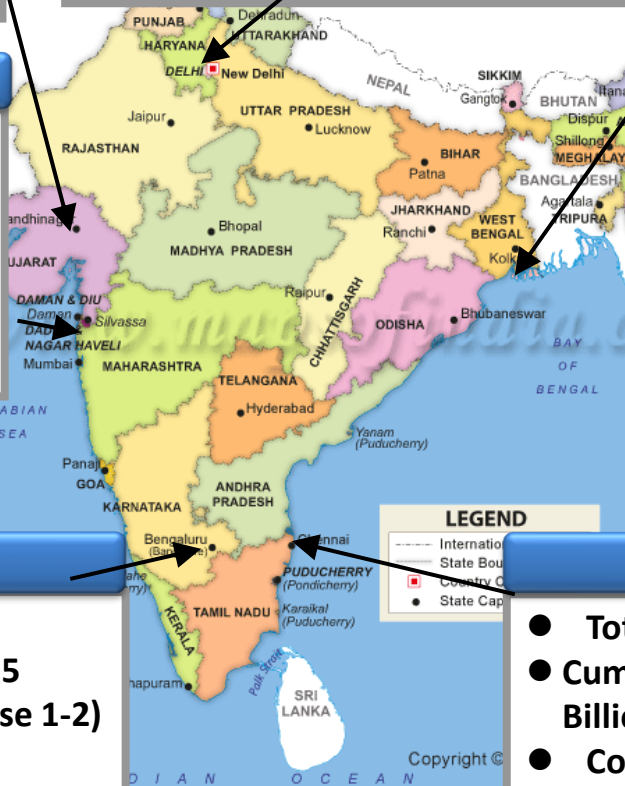
- Total Length: 16 km
- Cumulative Loan Amount: JPY 64.8 Billion (about Rs. 4,322 crore)
- Completion Year: 2022 (Partially operating)
- Under construction

Bangalore Metro

- JICA funded Length: 113 km
- Cumulative Loan Amount: JPY 64.5 Billion (about Rs. 4,302 crore: Phase 1-2)
- Completion Year: 2017
- Phase-2 under construction

Chennai Metro

- Total Length: 161 km
- Cumulative Loan Amount: JPY 372.1 Billion (about Rs. 24,812 crore)
- Completion Year: 2027
- Phase-1 under construction



Social Transformation through Metro Projects

DMRC and JICA efforts towards women empowerment and clean energy usage

Women Empowerment

DMRC has introduced “Women-only car” to every Delhi metro lines since 2010 so that women can commute to workplace with comfortable environment. Moreover, every cars are installed with security cameras and emergency system. Also, many women of security guards and officers are assigned in main stations. DMRC also improves workplace for women by providing, for example, children leave, children daycare service, committee for settling complaint from women.



Picture of Women-only car

Clean Energy Usage

DMRC is the first metro railway in the world which got carbon credits under the Clean Development Mechanism (CDM). The Delhi Metro adopted Japanese technology, regenerative breaking system that permits the motors to act as electric power generators when the brakes are applied.

Japan International Cooperation Agency



Mumbai Trans Harbour Link (MTHL)



MTHL will be...

- **India's biggest sea link.**
- India's first sea bridge to use Orthotropic Steel Deck (OSD) Box Girder, which is completely made of steel with 30 % less weight compared to conventional concrete decks, and thus allows **less number of pillars in the middle.**
- **Environment-friendly bridge** with no stayed cables to protect migratory birds like pink flamingos.

Mumbai Trans Harbour Link

Total Project cost: JPY 317,501 million (I & II total)

Loan amount: JPY 211,704 million (I & II total)

L/A Signing: Tranche I - March 31, 2017

Tranche II - March 27, 2020

Project period: March 2017 – September 2024

*** commencement of service: Late 2023**

Project outline: Construction of 22km of 6-lane bridge that connects Mumbai with Navi Mumbai to improve connectivity in Mumbai Metropolitan Region. Travel time between Sewri and Chirle will be shortened to 16 mins from current 61 mins.



Mumbai-Ahmedabad High Speed Railway (MAHSR)



- Construction of India's first High-Speed Rail by using **the Japanese Bullet Train System**
- Connecting 508km of a section from Mumbai-Ahmedabad-Sabarmati with 12 stations
- Travel time between Mumbai and Ahmedabad will be **approx. 2 hours** with maximum operating speed of **320km/h**. (Maximum design speed is 350km/h)
- Technical assistance for capacity development in Operation & Maintenance is being provided.
- RD for Technical cooperation project for Station Area Development is signed on October 2022.



JICA's cooperation with IIT Hyderabad

- JICA's cooperation with IITH is based on the **commitment between the Prime Ministers** of the two countries in 2007.
- JICA has been cooperating with IITH by **providing comprehensive assistance** including ODA loan, technical cooperation projects, joint research projects and public-private partnership projects.



Campus Development (ODA loan)

Campus Development Project of Indian Institute of Technology, Hyderabad

- 23,035 million JPY (approx. INR 1,536 crore)** loan to upgrade IITH's education and research environment by constructing campus buildings and providing high-end research equipment.
- Out of the 19 types of buildings, **six buildings were designed by the Japanese design team through JICA's technical cooperation project** to symbolise the partnership between India and Japan.



JICA's cooperation with IIT Hyderabad

FRIENDSHIP project (Technical Cooperation) Jan. 2012 – Mar. 2020

1. **Scholarship programme for IITH graduates to study in Japanese universities**

136 graduates were granted to study in Japan

2. **Interaction between IITH and Japanese education institutions**

7 Joint research conducted and 271 faculties and researchers visited between Japan and India

3. **Interaction between IITH and Japanese industrial clusters**

13 MoU agreed between IITH and Japanese companies, and several interaction events were held



FRIENDSHIP phase 2 (Technical Cooperation) July. 2021 – Mar. 2026

Activities

1. Establishing Japan Desk at IITH
2. Academic collaboration between India and Japan
3. Research and technology development and industrial collaboration between India and Japan

Japan – India Act East Forum

Focus on North East India

- Located at a strategically and economically critical juncture between South Asia and Southeast Asia, North East India is the place where Japan’s “Free and Open Indo-Pacific” strategy and India’s “Act East” policy converge.
- The Forum was launched in December 2017 in order to further expand the cooperation and strengthen the ties between Japan and North East India, and that between Japan and India.
- With participation from both government’s high-level officials and stakeholders, the Forum is held on a regular basis. So far six meetings have been held.



6th Act East Form held on March 15, 2022

Total ODA: appx 399 billion yen
(appx: 2,850 million USD)

Sikkim

- Biodiversity Conservation and Forest Management

Assam

- Guwahati Water Supply
- Guwahati Sewage
- Road Network Connectivity Improvement (Phase5)
- Health System Strengthening



Assam/ Meghalaya

- Road Network Connectivity Improvement (Phase3)



Meghalaya

- Road Network Connectivity Improvement (Phase1/ Phase 2)
NH-51 (Tura – Dalu)/NH-40 (Shillong – Dawki)
- Umiam-Umtru Stage-III Hydroelectric Power Station
- Forest Management and Livelihoods Improvement



Tripura

- Forest Management
- Road Network Connectivity (Phase4/ Phase 6)
NH-208 (Kailashahar– Khawai- Sabroom)

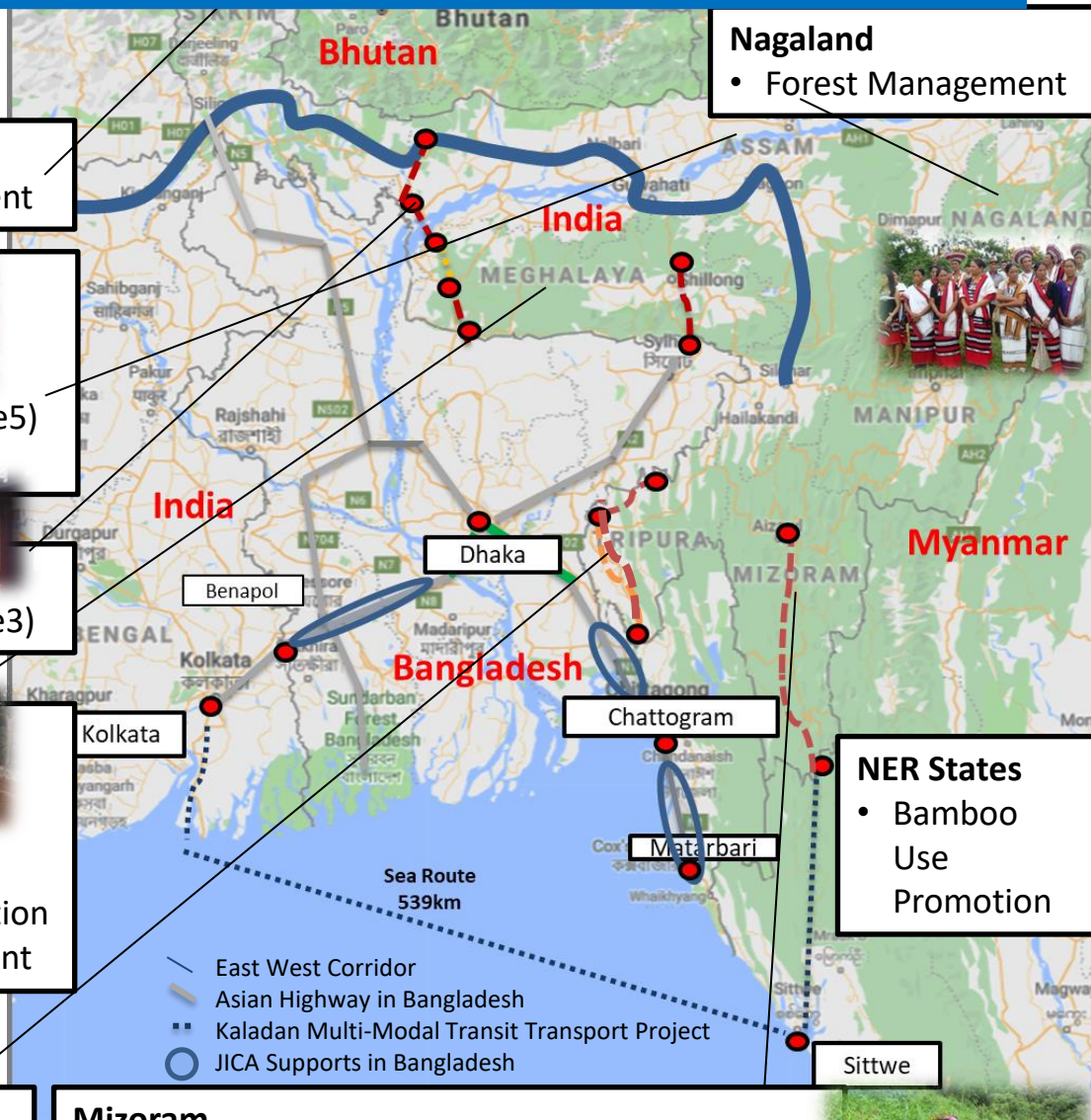
Mizoram

- Road Network Connectivity (Phase1/ Phase 2)
NH-54 (Aizawl – Tuipang)
- Agriculture & Irrigation (Technical Cooperation)



Nagaland

- Forest Management



The way forward

- beyond ODA -

- **Invest & Trade facilitation** to strengthen bilateral economic ties and international value chains
- Technology and knowledge exchange under **common challenges** (climate change, etc)
- **People-to-people exchange** involving job market
- From aid to real **partnership**

Thank you

