Regional Connectivity -Role of India and Japan-

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1. Importance of Regional Connectivity
Importance of Regional Connectivity

- Promotion of Regional Trade
- Development of Regional Economic Relationship
- Improvement of Market Accessibility
- Development of Political Integration
- Stabilization of Regional Peace

Regional Integration
2. JICA’s Approach for Connectivity
East-West and Southern Economic Corridors for ASEAN Connectivity

East-West Economic Corridor (Total 1,502km)

- Laem Chabang Port (Loan)
- Nam Ngum hydroelectric power plant (Loan/Grant)
- Nam Leuk hydroelectric power plant (Loan)
- Vientiane International Airport (Loan/Grant)
- Second Mekong Bridge (Loan)

Southern Economic Corridor (Total 904km)

- Lam Ta Khong Pumped Storage Power Plant (Loan)
- Pakse Bridge (Grant)
- Cambodia National Road No. 5 (Loan)
- Mekong Bridge (Kizuna Bridge) (Grant)
- Saigon East-West Highway (Loan)
- North-South Expressway (Loan)
- Neak Loening Bridge (Tsubasa Bridge) (Grant)
- Sihanoukville Port (Loan/Technical Cooperation)
- Sihanoukville Port Special Economic Zone (Loan)
- Cambodia National Road No. 1 (Grant)
- Can Tho Bridge (Loan)
- Tan Son Nhat International Airport (Loan)
- Phu My Thermal Power Plant (Loan)
- Can Tho Bridge (Loan)
- Cai Mep-Thi Vai Port (Loan)

To SOUTH ASIA

DAWEI

Myanmar

Vietnam

Thailand

Laos National Road No. 9 (Grant)

Hai Van Tunnel (Loan)

National Road No. 9 (Grant)

Second Mekong Bridge (Loan)

Hai Van Tunnel (Loan)

Da Nang

China

Bangkok

Phnom Penh

Cambodia

Cambodia National Road No. 1 (Grant)
ASEAN-JAPAN Strategic Partnership
Support for the Establishment of ASEAN Community

JICA is fully committed to support the establishment of ASEAN Community and the “Master Plan on ASEAN Connectivity,” which consists of physical, institutional, and people-to-people connectivity, as a vital process to realize ASEAN Community in year 2015.

**Physical Connectivity**
- Development of East-West and Southern Economic Corridors
- Development of Maritime ASEAN Economic Corridor

**Institutional Connectivity**
- Asia Cargo Highway
- International Standardization
- Intellectual Property Right

**People to People Connectivity**
- AUN/SEED-NET
- Japan Centers

**JICA’s Regional Operation Strategy on Southeast Asia**

**3 Pillars**

1. **Prioritizing Target Sector & Redressing Income Disparity**
   - Development of Intra-Regional Infrastructure & Urban Infrastructure
2. **Addressing Region’s Common Issues to Accelerate Growth**
   - Improvement of Business Environment
   - Safe and Secure Society
   - Human Resource Development & Networking
3. **Addressing Global Issues**
   - Climate Change Measures
   - Resources (Food, Water, Energy)
   - Assistance to New Donors & South-South Cooperation

JICA is one of the members of the “Japanese Task Force to support ASEAN Connectivity” which was established by Japanese Government and private sector.
JICA’s Major Connectivity Projects in the Indo-Pacific

**Africa**

1. **Northern Corridor**
   - Mombasa Port Development in Kenya (Loan)
   - Master Plan on Logistics in Northern Economic Corridor (Technical Cooperation)

2. **Nacala Corridor**
   - Nacala Port Development (Loan and Grant)

3. **Central Corridor**
   - Comprehensive Transport and Trade System Development Master Plan in the Tanzania (Technical Cooperation)

4. **West Africa Growth Ring**
   - The Corridor Development for West Africa Growth Ring Master Plan (Technical Cooperation)

**South Asia**

1. **Bay of Bengal Industrial Growth Belt (Big-B)**
   - Dhaka-Chittagong Railway Development (Loan)
   - Matarbari Ultra Super Critical Coal-Fired Power (Loan)

2. **Cross Boarder Projects in North East India and Bangladesh**
   - North East Road Network Connectivity Improvement (Loan)

3. **Delhi-Mumbai Industrial Corridor (DMIC)**
   - Dedicated Freight Corridor (Loan)

4. **Chennai-Bengaluru Industrial Corridor (CBIC)**
   - Chennai Metro (Loan)
   - Bangalore Metro Rail (Loan)
   - Tamil Nadu Investment Promotion Program (Loan)

**ASEAN**

1. **East-West Economic Corridor**
   - 2nd Mekong International Bridge (Loan)
   - Hai Van Tunnel (Loan)
   - Da Nang Port (Loan)

2. **Southern Economic Corridor**
   - Cambodia National Road No. 5 (Loan)
   - Neak Loeng Bridge (Grant)
   - Cai Mep-Thi Vai Port (Loan)

3. **Maritime ASEAN Economic Corridor**
   - ASEAN RoRo Shipping Network
   - Maritime Safety (Loan, Grant, Technical Cooperation)

4. **Institutional connectivity for Economic Corridors**
   - Projects for E-Customs and National Single Window for Customs Modernization in Vietnam and Myanmar (Grant)
JICA’s activities for prosperity of the Indo-Pacific

- Trans-Maghrebin Corridor
- Nile Corridor
- West Africa Growth Ring
- Northern Corridor
- Central Corridor
- Nacala Corridor
- North-South Corridor
- Djibouti-Addis Ababa Corridor
- The Fourth Trans-African Highway
- Cross Border Project in North East India and Bangladesh
- Delhi-Mumbai Industrial Corridor (DMIC)
- Chennai-Bengaluru Industrial Corridor
- Bay of Bengal Industrial Growth Belt (Big-B)
- East-West Economic Corridor
- Southern Economic Corridor
- Maritime ASEAN Economic Corridor
INDIA:
“Two Industrial Corridors - DMIC and CBIC”

**Delhi Mumbai Industrial Corridor (DMIC)**
- The future commercial trunk line railway between Delhi and Mumbai, the “Dedicated Freight Corridor (DFC)” project has been financed by the Japanese Government. As a Japan–India joint regional development initiative, it will construct infrastructure in areas along the railway, including industrial parks, logistics bases, power plants, roads, ports, housing, and commercial facilities.
- In December 2006, during Prime Minister Singh’s visit to Japan, both leaders agreed to promote DMIC.
- In December 2011, during Prime Minister Noda’s visit to India, both leaders agreed on the launch of $9 billion financial facility.
- In November 2012, the Ministry of Economy, Trade and Industry (METI) and the Ministry of Commerce and Industry of India agreed on a list of prospective 19 projects, financing of USD 4.5 billion from Japan to India. Out of the aforesaid 19 projects, 7 projects were defined as candidate projects for JICA assistance.

**Chennai Bangalore Industrial Corridor (CBIC)**
- Regional and comprehensive development initiative in the area of Chennai–Bangalore, where many Japanese companies expand their business, mainly constructing infrastructure.
- Both Prime Ministers agreed that GOJ to extend financial and technical support to the preparation of India’s Comprehensive Integrated Master Plan of this region.
- In 2012, JICA conducted Preliminary Study and identified and selected 26 ODA Loan projects for infrastructure and 6 technical cooperation projects. In 2013, JICA initiated Master Plan study.
The Delhi-Mumbai Industrial Corridor (DMIC) is a major infrastructure project in India. The project includes various components such as:

- **Electric Traction System**: Transportation time reduced from 48-72 hours to 20 hours.
- **Double Stack Container Wagon**: Improved efficiency in container transportation.
- **Mumbai-Ahmedabad HSR**: High-Speed Rail connecting two major cities.
- **Gurgaon-Bawar MRTS Project**: Mass Rapid Transit System for the Gurgaon-Bawar area.
- **Treated water conveyance system from Okhla**: Water supply management.
- **Gujarat Smart grid Project**: Smart grid implementation for electrical needs.
- **Ahmedabad-Dholera Railway project**: Seamless connectivity between cities.
- **Recycled waste water to Dholera**: Water recycling project.
- **Water supply from Narmada**: Water supply from a major river source.
- **Railway between Dadri-Noida-Ghaziabad**: Additional railway lines for improved connectivity.

The project also includes various transportation and infrastructure developments, such as ports, industrial corridors, and rail projects, aimed at enhancing connectivity and efficiency in transportation and utilities.
INDIA: “Major Connectivity Projects in CBIC and surroundings”
12 December 2015, Prime Ministers summit held

Main Pillars:

1. Vision for a Deep, Broad-based and Action-oriented Partnership
2. Vision for Peace and Stability
3. Investing in the Future
   - Ambitious vision for accelerating inclusive development in India, by transforming the infrastructure and manufacturing sectors
   - 3.5 trillion Yen of investment and financing in 5 years
   - ODA Loans for the Road Network Connectivity in North-East States

Japan and India Vision 2025 Special Strategic and Global Partnership (extracted)
5. The two Prime Ministers underlined their determination to expand cooperation with other partners, to enhance connectivity in the Indo-Pacific region. Japan and India will work to strengthen regional economic and security forums and coordinate their actions to tackle global challenges including the reform of the United Nations, climate change as well as terrorism.
12. Seeking the synergy between India's "Act East" policy and Japan's "Partnership for Quality Infrastructure", the two Prime Ministers decided to develop and strengthen reliable, sustainable and resilient infrastructures that augment connectivity within India and between India and other countries in the region.
INDIA:

“Road Network Improvement in North-East States”

Joint Statement on Japan and India Vision 2025; Special Strategic and Global Partnership (12 Dec. 2015)

“Prime Minister Abe expressed Japan's intention to provide ODA loans for the improvement of road network connectivity in northeastern states of India, the peripheral ring road surrounding Bengaluru, and the horticulture irrigation in Jharkhand.”

Phase 1: JPY 125,544 mil (Total Project Cost)

Tura-Dalu (51.5km, NH-51) Connecting to Bangladesh Border

Aizawl–Tuipang (350.7km, NH-54) Connecting to Kaladan Multi Modal Transportation Corridor

Darjeeling (NH-55) Grant Assistance for Slope Protection (Candidate)

Shillong – Dawki (80km, NH-40) Incl. Dawki Bridge (Candidate)

Map Source: MDONER (web)
BANGLADESH: “BIG-B” (BIG-B: Bay of Bengal Industrial Growth Belt)

2014 – 2017/18 (4/5 Years)
600 Billion JPY ODA Loans

Power and Energy
Reliable Power for Industries

Transport
Regional Logistics Hub

Invest Promotion
Enabling Environment
SOUTH ASIA:
Cross Border Road Network Development

Asian Highway No. 1

Share of Trade Volume (2014)

Benapole Others

Import Export

Cross Border Road Improvement Project (JICA)
North East Connectivity Improvement Project (JICA)
Western Bangladesh Bridge Improvement Project (JICA)
Eastern Bangladesh Bridge Improvement Project (JICA)

Red JICA's Proposed Projects
Blue JICA's On-going/Completed Projects
Green Other Donors/Gov.'s Projects
Asian Highway
Border Crossing Point
International Airport
Port

Kathmandu
Nepal
Sindhuli Road (JICA)
Banglabanda Land Port (ADB)
Thimphu
Bhutan

Dhaka
Bihar

Jamuna Bridge (ADB-JICA-WB)
Padma Bridge (GOB)
Benapole Land Port (ADB)
Rupsha Bridge (JICA)

Kanchpur, Meghna and Gumti Bridge (JICA)
Dhaka Chittagong Expressway (ADB(PPP))

Regional Transport Connectivity Project (WB)

Chittagong
Chittagong Outer Ring Road (JICA)
Chittagong Airport (JICA)
Matabari Power Plant (JICA)

Kolkata
India

Mandalay
Myanmar

Cox's Bazar

Sittwe

Mawlamyine

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3. Possible Cooperation area in Regional Connectivity
Possible Cooperation area in Regional Connectivity

- Development of Industrial Corridor Concept
  - Master Plan
- Development of Transport Infrastructure
  - Road and Railway Connectivity
  - Maritime and Civil Aviation
  - Custom: One Stop Border Posts
- Promotion of Regional Power Supply
  - Generation using energy source with comparative advantage
  - Transmission and distribution to meet energy demand and reduce loss

- MAKE IN INDIA
- REGIONAL INTEGRATION
Thank you for your attention!