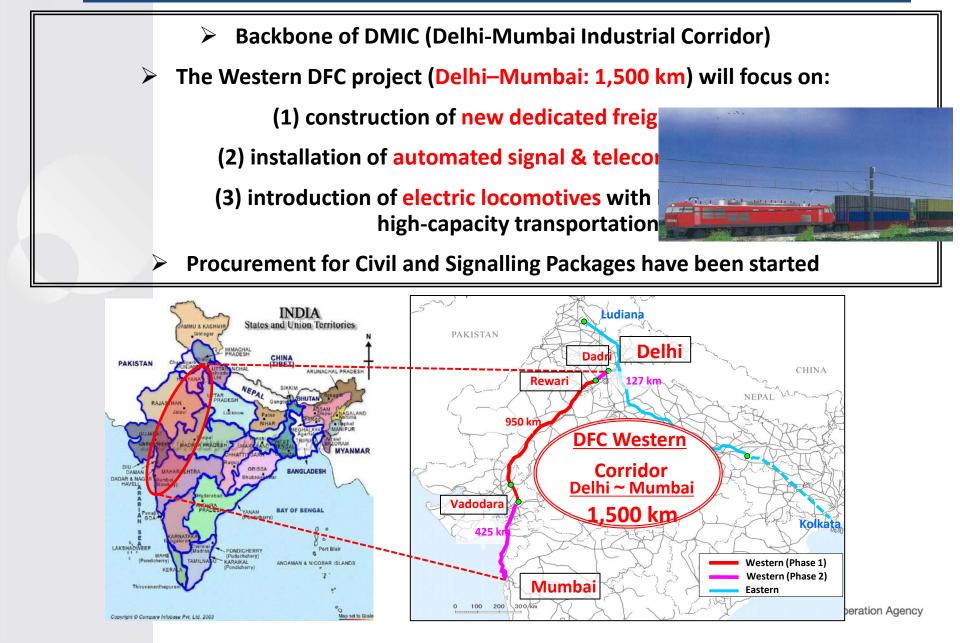


Western Dedicated Freight Corridor project

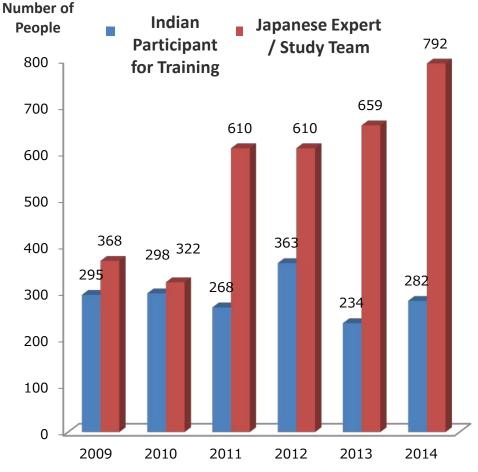


Achievements in India (Technical Cooperation)

Commitment Amount (FY)

Number of People

Exchange(FY)



Japan International Cooperation Agency



Implications of JICA Good Practices in India for other Emerging Countries

- Toward Win-Win Relationship -

ESRI International Conference 30 October 2015

Katsuo Matsumoto Deputy Director General, South Asia Department Japan International Cooperation Agency



OUTLINE

1. Quality Infrastructure

(Delhi Metro and Purulia Pumped Storage Station) - JAPAN Brand with Competitive Lifecycle Cost

2. Corridor Approach

- (DMIC and CBIC)
- From Planning to Implementation
- 3. Alignment with "Make in India" (Investment Promotion Program)

- Involvement of Private Sector / Investors



Implications of JICA Good Practices in India For other Emerging Countries

1. Quality Infrastructure (reliable, sustainable and resilient)

- Massive demand for Infrastructure
- Key driver for direct investment & economic development
- Life-cycle Cost Saving backs country economy in a long run

2. Corridor Approach

- Suitable allotment of resources: royal road for development
- \succ Project prioritization at the level of semi-region (corridor)

3. Alignment with "Make in India"

- Policy promotion and easing regulations
- Delivering real private sector's voices to Government
- Timely input and support when required (urgent small infra.)
- Manufacturing Sectory \uparrow = Employment \uparrow = Consumption \uparrow = Boost in economy个 Japan International Cooperation Agency

1-1 Quality Infra: Delhi Mass Rapid Transport System Project

[Background]

- Sharp increase in the population of urban Delhi 9.42 M in 1991 → 16.75 M in 2011
- Deterioration of environmental damage and traffic congestion due to an increased number of automobiles.

Number of registered cars in Delhi: 1.83 M in 1990 → 6.93 M in 2011

[Project summary]

The project consists of the construction of a rapid transport system (public works, electric / telecommunication / signal works, etc.) and the procurement of vehicles.

- Phase 1 (65 km) from October 1998 to November 2006.
- Phase 2 (125 km) from April 2006 to August 2011.
- Phase 3 (116 km) from June 2011 to April 2016.

[Result]

- 2.5 million people use the metro every day (cf. 3 million people use underground railways per day in London).
- The system has contributed to decreasing the number of vehicles by 120,000.
- "Regenerative brake system", introduced to metro as <u>Japanese company's energy-efficient technology</u> is expected to reduce CO2 emission by 22 million tons (total reduction between 2002 and 2032), which was registered in the United Nations <u>as the world's first CDM project in the railway sector.</u>





1-2 Quality Infra: Purulia Pumped Storage Project

[Background]

 Constant power shortage Since 1998, about 11% to 13% of the peak-hour supply capacity; about 6% to 8% of the annual supply



Necessity for well-balanced composition of electrical source
Under the power structure where thermal power generation exceeded 90% of the total, it was necessary to eliminate the peak-hour supply-demand gap by developing a pumped storage hydropower by the use of nighttime surplus power supplied from thermal power plants.

[Project summary]

In the Purulia district 300 km to the northwest of Kolkata City in the Province of West Bengal, the peak-hour power supply capacity is improved by the construction of a pumped storage power plant with an output of <u>900 MW (225 MW × 4 generating units)</u> and electric transmission and substation facilities for the plant.

[Result]

- The pumped storage power plant with four generating units of 225 MW is still the largest in India.
- The plant has been operating without any serious trouble since the beginning of operation in 2008.

jica_

2-1 Corridor Approach : Industrial Corridors under Development (DMIC & CBIC)

