

# Urban Rejuvenation and Transformation

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Today, I will propose...

1. **Advanced Technology for User-Friendly Services**
2. **Regional Development Perspective**
3. **Transformation to enforce Public & Private  
Partnership**

**For Urban Rejuvenation and Transformation**

# What is JICA?

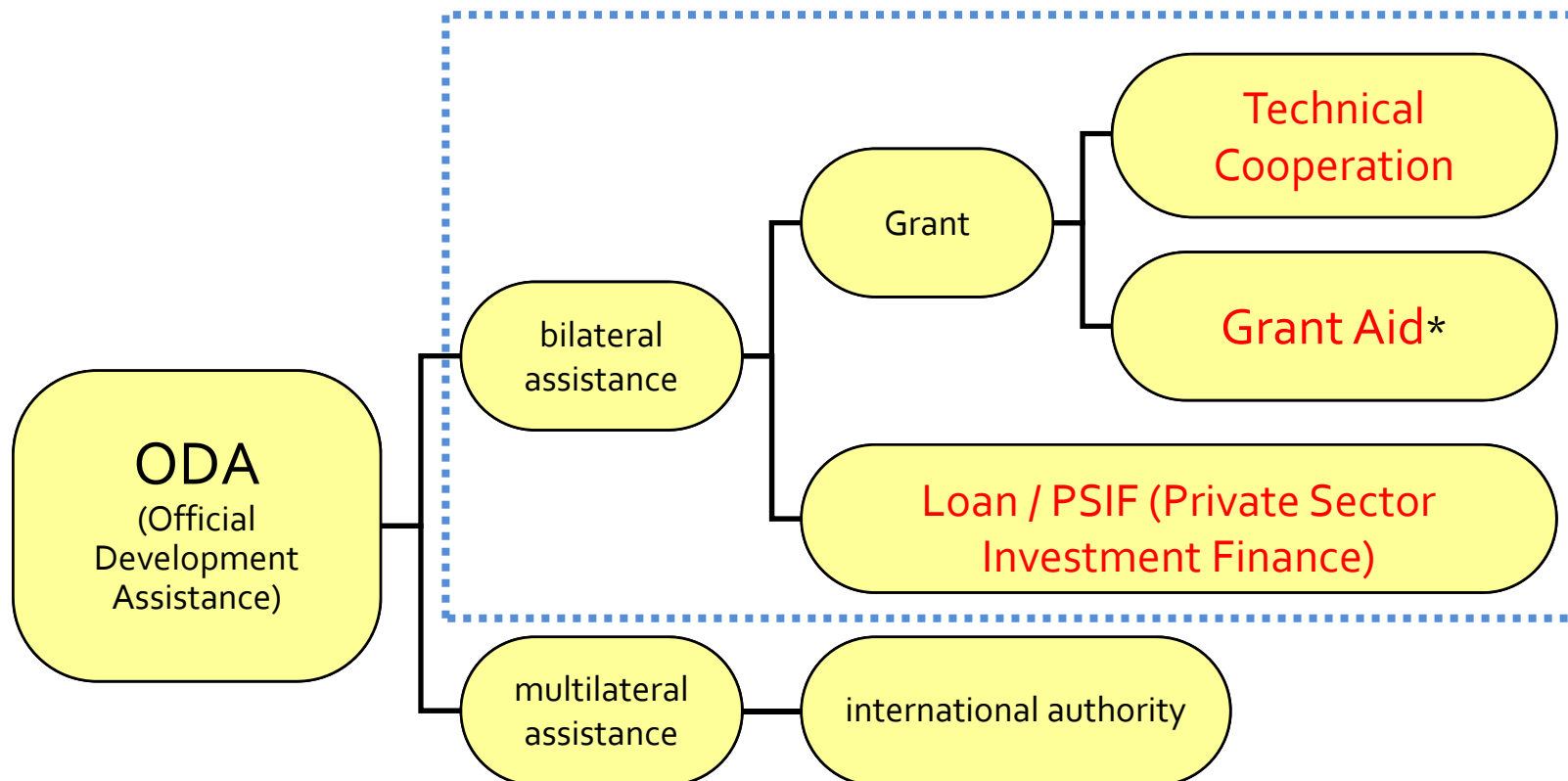
*~JICA's assistance in India~*



# What is "JICA"?

- ✓ JICA provides loan, grant aid and technical cooperation under Japanese ODA
- ✓ JICA is the world's largest bilateral development agency
- ✓ India is the largest and the oldest partner for JICA

## Japan's Official Development Assistance (ODA)



\* A part of grant aids are provided by Ministry of Foreign Affairs.



# India is JICA's Largest Partner in the World

Loan

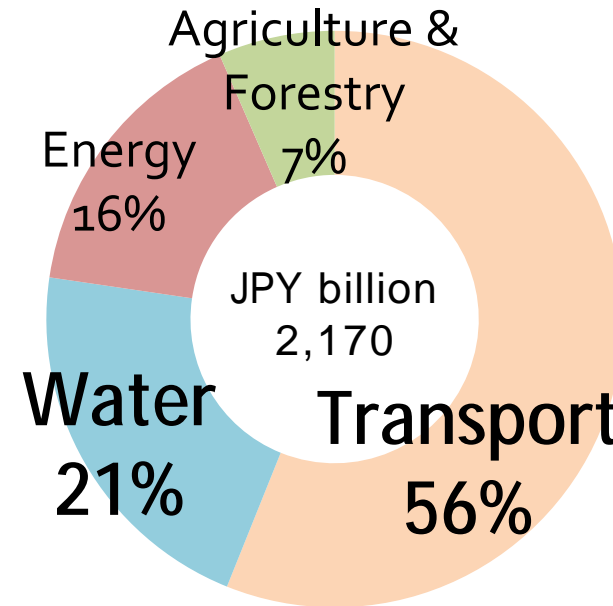
## Operational Results in FY2013/14:

Commitment: 311.5 billion JPY  
(equivalent to Rs. 16,000 crore)  
Disbursement: 145.4 billion JPY  
(equivalent to Rs. 7,500 crore)

## Total Commitment:

4,164 billion JPY  
(equivalent to Rs. 2.2 trillion)

## Major Sector (FY2003/04-2013/14)



### Grant Aid

One on-going project  
in health sector in  
Chennai

### Technical Cooperation

· Results in FY 2013/14  
3.5 billion JPY (Rs 200 Crore)

Over 200 Japanese experts to India  
Over 650 government officials in Japan

### Citizen Partnership / Public-Private Partnership

- Japanese Volunteers
- Japanese NGO activities
- Partnerships with Private-Sector Activities

# Towards sustainable development

Sustainable Development

Economical Development

Private Sector Participation

Investment Environment  
Improvement

Inclusive  
Development

- (1) Infrastructure development
- (2) Policy/institutional improvement
- (3) Human resource development



## (1) Infrastructure Development

- ODA Loan for mega-infrastructure projects, such as trunk road, port, power station, water treatment plant
- Small scale infrastructure projects through the Investment Promotion Program Loan
- Financial support for PPP/private infrastructure development projects (in case Japanese private investor is involved)
- Technical/financial support for more efficient infrastructure operation, such as improvement of port operation and introduction of ITS



## (2) Policy / institutional improvement

- Suggestion & support for regulatory / institutional improvement based on opinions from private sectors on the ground
- Promoting through dispatching JICA experts
- Collaboration with relevant authorities such as DIPP, ASSOCHAM, CII, FICCI, EoJ, JETRO, JCCIs





## (3) Human Resource Development

- Provide training for government officials and engineers to acquire knowledge and skills through sharing Japanese technologies and experience in various fields
- Support to foster leaders and managers of Indian manufacturing industry



## JICA's basic policy

JICA's support is always in line with government's initiative.

- Alignment of policy ("Make in India", "Skill India", and other important policies)

JICA is promoting private sector and community participation for sustainable development.

→ JICA appreciates voices from private sector

- “In this cloudy global horizon, India is a bright spot.”  
(March, 2015, IMF)
- The World fastest growing country (WB, June 2015)
- The Asian fastest growing country (ADB, July 2015)
- Indian economy an ‘exception’, the fastest growing major economy (OECD, Sep 2015)
- by 2022, the population of India will be the World Biggest country (UN, 2015)

→ Development Challenges, even in urban area, are also growing

e.g. Transportation, WatSan, Solid Waste, Energy

# 1. Advanced Technology

For

**User-Friendly Services**

To realize comfortable city



# 1-1. JICA's Assistance in Urban Transport

## Development of Urban Road in Large Metropolitan Cities

### Hyderabad Outer Ring Road

Construction of outer ring road in Hyderabad for smooth transportation in / around the city



## Intelligent Transport System in Large Metropolitan Cities

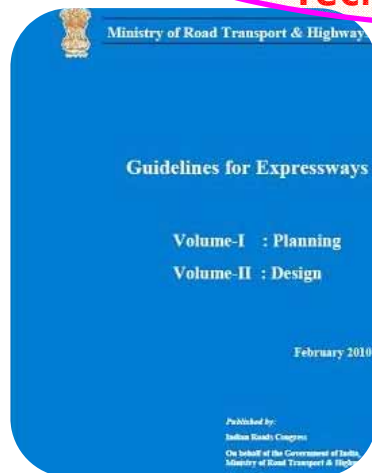
### ITS development for Hyderabad city

Technical assistance on ITS development by Japanese experts to Indian engineers from Hyderabad



## Financial Assistance & Technical Cooperation

### Technical Cooperation for Highways and Expressways



### Development of expressways

"Guidelines for Expressways" for operation and maintenance completed through technical cooperation by Japanese experts

## Metro in Delhi, Chennai, Bangalore, Kolkata, Mumbai...and more



### Delhi Mass Rapid Transport System

Construction of Delhi Metro totaling 300km in length

# 1-2. Hyderabad Outer Ring Road Project & ITS

## Objective

To construct new outer ring road for coping with the increase of road traffic demand and **to divert the non-destined traffic** in Hyderabad

Hyderabad Metropolitan Development Authority

Hyderabad Growth Corridor Limited (HGCL)

## <Technical Cooperation>

Japanese ITS experts assisting...

- Introduction plan of ITS
- Toll rate setting
- Manual for toll collection
- Bid document preparation
- Visit & Training in Japan
- Training on toll collection
- Operation Test of Toll Management and Electronic Toll Collection (ETC)

## <JICA Loan>

**JPY 83.9 billion (5,244 cr.) : TOTAL 71km**

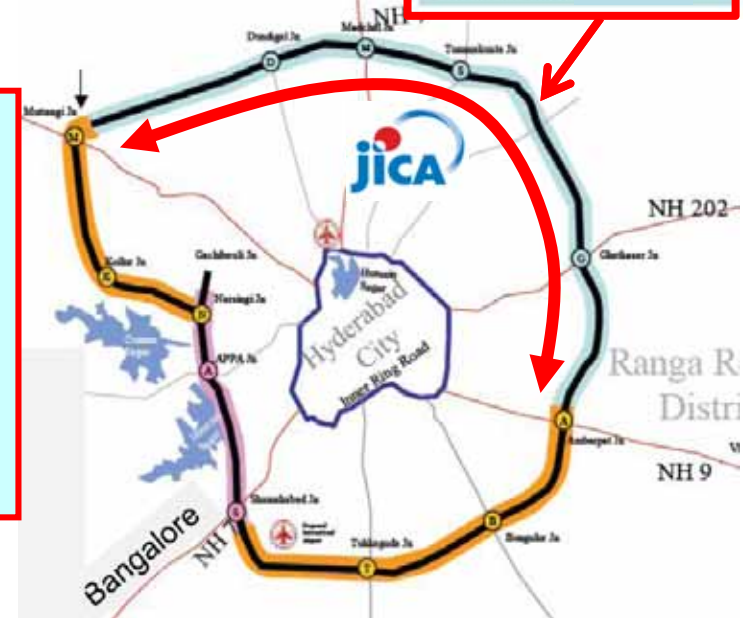
- JPY 41.9 billion (2,619 cr.) : Phase 1 38km
- JPY 42.0 billion (2,625 cr.) : Phase 2 33km

- 1) Construction of Outer Ring Road (ORR)
- 2) Construction of Radial Road
- 3) Implementation of ITS system on entire ORR \*

I: Government Funding(24km)

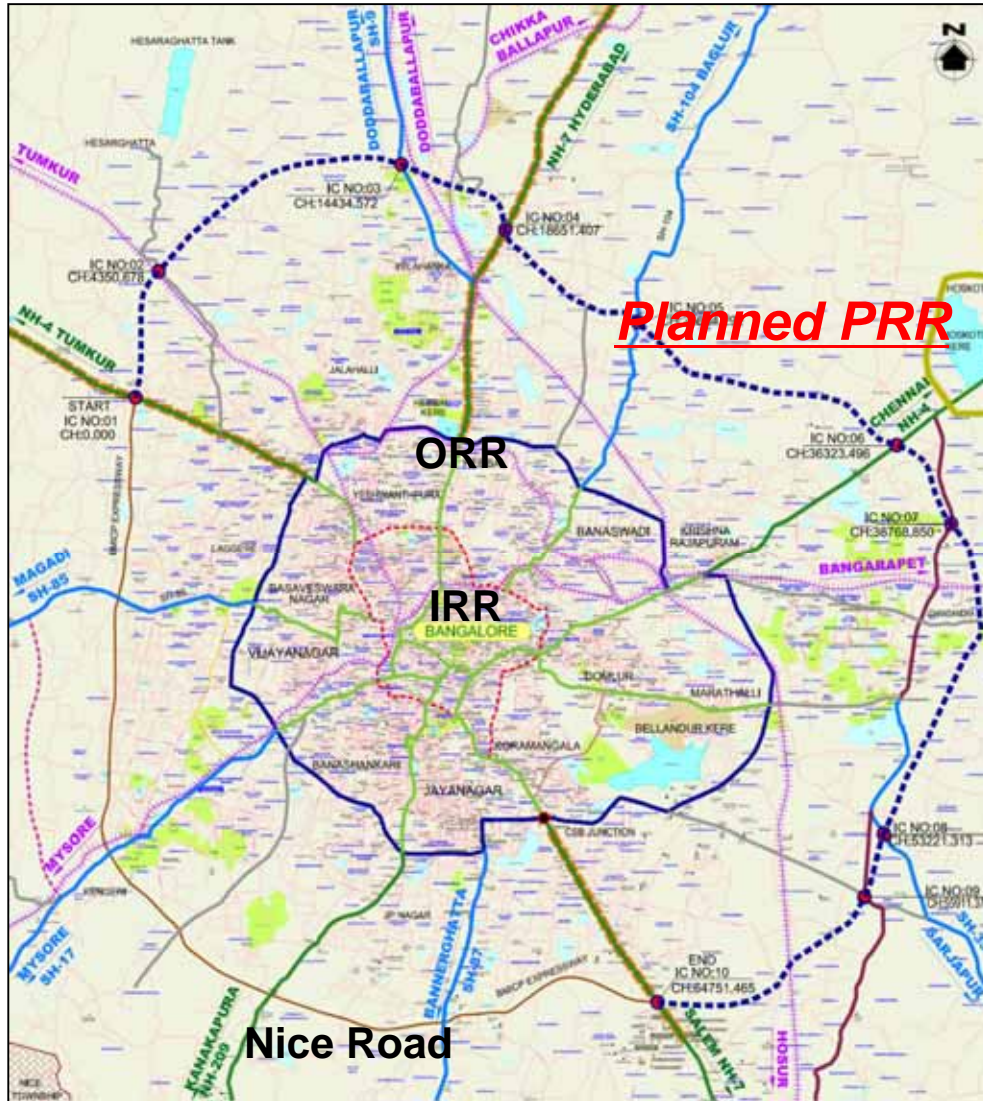
IIA: BOT Annuity (62km)

IIB:JICA Loan (71km)



\* Highway Traffic Management System (HTMS) + Toll Management System (TMS)

# 1-3. Master Plan for ITS in Bengaluru and Mysore



## ● Peripheral Ring Road (PRR)

Under Consideration for JICA Loan

## ● Bangalore Metropolitan Area

Various Transport Issues

## ● Mysore

Historical City with many tourists

**Thus, consideration of**

**ITS on PRR**

Highway Traffic Management System (HTMS), Toll Management System (TMS)

**City ITS in Bangalore**

ITS to facilitate economic activities and improve business environment

**ITS in Mysore**

ITS to encourage tourism and enhance environment preservation

~It's not a mere tangible infrastructure development~

1. Improvement of Traffic Congestion



2. First Railway Project under Clean Development Mechanism (CDM)

3. Timely Completion

4. Realization of stable Operation

5. Emphasis on Safety Measures







# 1-5. Support to India's urban Railway Sector

JICA is supporting metro projects in major cities in India by ODA Loan



## Delhi Metro

- ✓ Total Length: 293km
- ✓ Project Cost: 1,384 Billion JPY
- ✓ Loan Amount: 718 Billion JPY
- ✓ Completion Year: 2016



## Mumbai Metro

- ✓ Total Length: 33 km
- ✓ Project Cost: 347 Billion JPY
- ✓ Loan Amount: 188 Billion JPY
- ✓ Completion Year: 2019



## Kolkata Metro

- ✓ Total Length: 14 km
- ✓ Project Cost: 140 Billion JPY
- ✓ Loan Amount: 82 Billion JPY
- ✓ Completion Year: 2016



## Bangalore Metro

- ✓ Total Length: 42 km
- ✓ Project Cost: 307 Billion JPY
- ✓ Loan Amount: 65 Billion JPY
- ✓ Completion Year: 2015



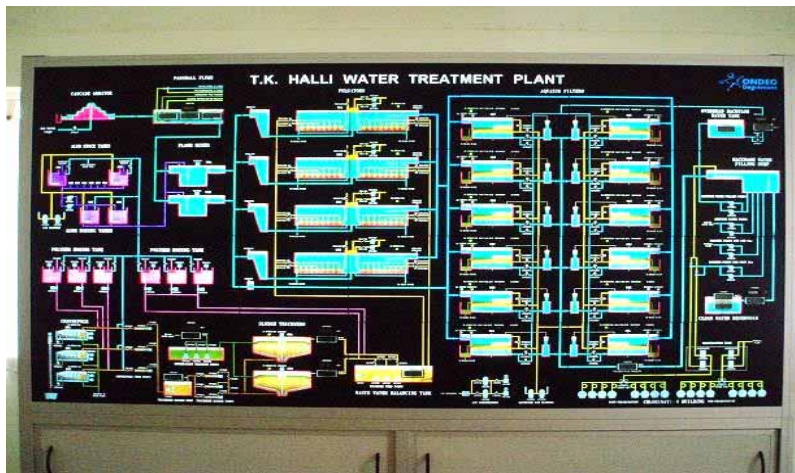
## Chennai Metro

- ✓ Total Length: 45 km
- ✓ Project Cost: 331 Billion JPY
- ✓ Loan Amount: 130 Billion JPY
- ✓ Completion Year: 2016

## 1-6. support for Urban Water Supply

### Introduce advanced technology for faster execution and efficient / effective operation of projects

- Non-revenue water reduction  
Install SCADA system in WTP/STP and Bulk & Flow meters for computation of water loss
- Targeting big cities  
Agra, Varanasi, Bengaluru, Hyderabad, Jaipur, Delhi...
- Rejuvenation of Yamuna and Ganga



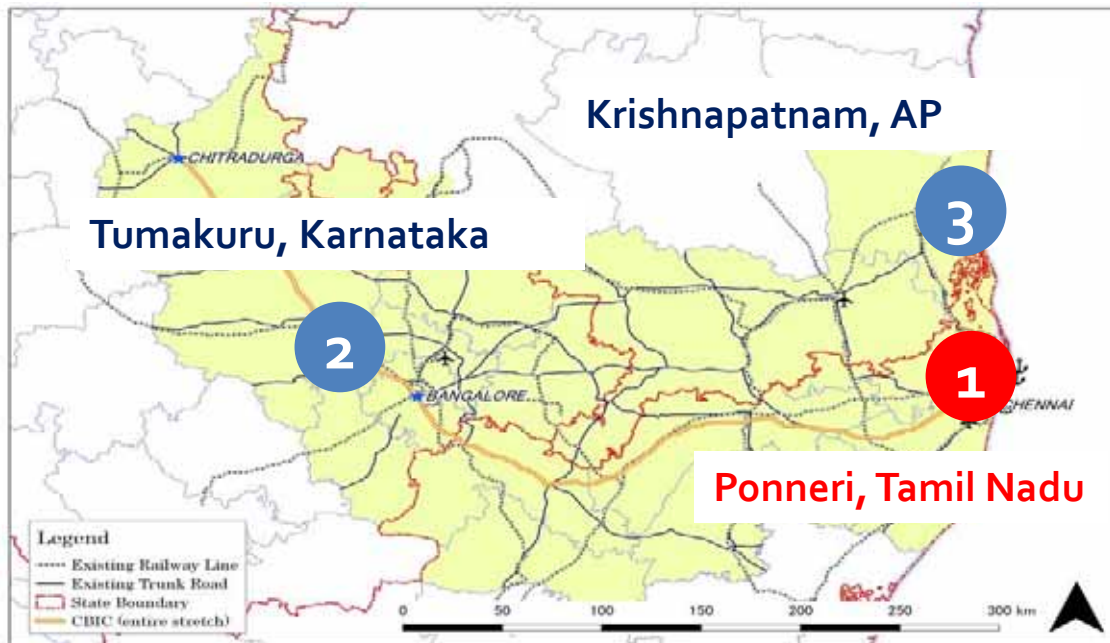
## 2. Regional Development Perspective

To create / rejuvenate cities with  
new roles in the Region

CBIC Master Plan was finalized in June 2015.

The report consists of Comprehensive Regional Perspective Plan (Part A) & Node Development Plan (Part B).

- Part A is development vision, integrated strategy & infrastructure plan for entire CBIC corridor.
- Part B is vision, land plan and infrastructure plan for 3 selected industrial nodes.



- ◆ Target Period :  
20 years (2014-2033)
- ◆ Target Area :  
Corridor between Chennai-Bengaluru-Chitradurga (560 km)
- ◆ Selected Nodes :  
Ponneri, Tamil Nadu,  
Tumakuru, Karnataka &  
Krishnapatnam, Andhra Pradesh

## 2-2 Strategic framework for CBIC

Long term vision of the corridor

Development as “a globally competitive manufacturing hub”  
that promotes sustainable development

### Principle Themes

- Thrust to economic growth
- Global competitiveness
- Employment creation
- Prioritising sustainable development
- Thrust to manufacturing



### Target Outcome

- 12% economical Area GDP growth
- Boost exports and value addition in key sectors
- Job creation of 22 million skilled workers
- Industrial development with less emissions
- 25% contribution from manufacturing sector to GDP

### 3. Transformation to enforce Public & Private Partnership Commitment from public side and Agreed Policy Framework to support stable implementation



## 3-1 Ex. Tamil Nadu Investment Promotion Program

### ◆ Program Description :

- To further improve the investment climate through strengthening the policy framework and enhancing the quality of urban infrastructure mainly of roads, power, waterworks, sewerage, and other infrastructure facilities thereby attempting to increase foreign direct investments in the state.

- **Government of Tamil Nadu and JICA monitor progress of action plans** in the agreed policy matrix. Based on achievement, JICA disburses the loan amount by dividing into three tranches (corresponding to each fiscal year action plan).

### ◆ Loan Amount and Disbursement :

- JPY 13 billion  
(7 billion for 1st tranche and 3 billion for 2nd & 3rd tranche)

### ◆ Program Duration :

- 3 years (FY2012/13 - 2014/15)

### ◆ Achievement :

- A comprehensive action plan for ease of doing business has been elaborated.
- Development of industry related infrastructure (road, water supply, sub-station) has been accelerated.



110kV Substation at OneHub  
Chennai Industrial Park



Access Road to Kamarajar Port

## (A) Policies integrated in TNIPP

Infrastructure Project Coordination and Prioritization
Investment Application Process
System Integration for Investors
Promotion of business environment for MSMEs
Human Resource Development
Land Pooling System
Master Planning/Land-Use Conversion

## (B) Prioritized small infrastructure project





## 3-2. Skill Development Expert (Under TNIPP)

### ◆ Project Description :

- 1) to contribute to accommodate urgent needs of skilled labour generation in manufacturing sector of Tamil Nadu by providing training programs
- 2) to cross the bridge between private companies with state authorities on skill development, so as to develop and implement demand-based training program

### ◆ Background :

- Though TNIPP monitoring and discussion, the government of Tamil Nadu expressed its vigorous strategy to expand skill development program, as a response to continuous request from industries and a solution against high unemployment rate.
- JICA is preparing Japanese expert team dispatch from September 2015, based on the result of JICA preliminary survey conducted in 2014

### ◆ Project Period :

September 2015 – October 2016 (14 months)

### ◆ Expert Field :

- 1) Training Management & Networking,
- 2) Welding, and
- 3) Machining



## 3-3. The Project on Improvement of Chennai Port Operation (under TNIPP)

### ◆ Project Description :

Technical support to improve operation of Chennai Port and other associated port facilities for reduction of transit time and efficient cargo transaction. Project components are (1) improvement of port operation, (2) introduction of ICT system, and (3) establishment of Port Plan.

### ◆ Background :

- Chennai port is one of the most important cargo gateway in CBIC region, and enhancement of its efficient operation is a key for promoting manufacturing in CBIC region.
- Foreign investors (incl. Japanese) request to improve of port operation such as reduction of lead time (e.g. 3 days within port out of total 4.5 days transportation period from cargo arrival to Bengaluru)

### ◆ Project Period :

July 2014 – June 2016 (24 months)

### ◆ Achievement :

Processing time at port gate is decreased by 50%.

Number of queuing trailers outside the port is decreased by 70%.



Queue of Waiting Trailers

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Thank you