

Operations and Activities in **INDIA**





Manufacturing



Energy



Water & Sanitation



Forestry & Agriculture



Education & Health



CONTENTS

- 1 Foreword
- 2 JICA & Official Development Assistance
- 3 JICA & India
- 4 Japanese Assistance to India: Timeline
- 5 Ongoing JICA Projects
- 6 JICA's Cooperation Snapshot: Transport Sector
- 7 JICA's Cooperation Snapshot: Water & Sanitation Sector
- 8 JICA's Cooperation Snapshot: Energy Sector
- 9 JICA's Cooperation Snapshot: Forestry & Agriculture Sector
- 10 Transport
- 11 Water & Sanitation
- **12** Energy
- **13** Forestry
- **14** Agriculture
- 15 Human Resource Development
- 16 Health
- 17 Knowledge Co-Creation Programs
- 18 Volunteers
- 19 JICA Partnership Program



Photo courtesy: Mika Tanimoto

FOREWORD

Strengthening the cooperation between India & Japan





Takema Sakamoto
Chief Representative | JICA India Office

It is a privilege to be the Chief Representative of India office of the Japan International Cooperation Agency (JICA).

India is one of the most rapidly advancing countries in the world, and is expected to have the highest population in some years. Very evidently India's potential as an economic powerhouse is immense, and is definitely a country which has a bearing on the stability and prosperity of the world at large.

Another aspect to be taken cognizance of is that poverty rate in India is still high, and development needs are huge.

I sincerely would like to utilize my tenure experiences and lessons from the high growth period of Japan and from the legacy of JICA's operations in India and in other countries. Japan and India have been long time friends. I definitely see, both countries' relationship getting closer in future.

For India to achieve sustainable overall economic development, it is imperative that improvement of infrastructure such as railways, roads, power and water/sanitation are taken up on priority. Further, the manufacturing sector, which plays a pivotal role in economic growth and job creation, requires a greater

impetus, and an enabling environment would facilitate a steady flow of investments.

In addition, both the Government of India and JICA are giving a fillip to inclusive development, wherein local communities actively partake of the process of and fruits of development, with due importance to environmental and social considerations. Cross sectoral issues, such as gender equity and equality, global warming and full utilization of Information & Communications Technology, are required to be addressed as well.

JICA, as the biggest bilateral donor of India, has been actively supporting economic growth, poverty reduction and environment conservation in India, through various forms of assistance including technical cooperation, concessional loan provision, grant finance provision, dispatching volunteers and partnership with the private sector. JICA has facilitated development across sectors, including in transport infrastructure, water and sanitation facilities, power availability, forest resource management, agricultural productivity, healthcare facilities and education facilities, among others.

To take further such robust foundations, JICA would continue to work with the people of India in their quest for sustainable development.

2 JICA & Official Development Assistance

A bridge linking Japan with developing countries



Orissa Forestry Sector Development Project



Delhi Mass Rapid Transport System Project *Photo courtesy: Shinichi Kuno*

About JICA

JICA is an independent administrative institution under the Government of Japan, established with the aim of promoting international cooperation. JICA works as a bridge between Japan and developing countries, and provides assistance in forms of loan, grant and technical cooperation in an integrated manner so that the developing countries can strengthen their capacities.

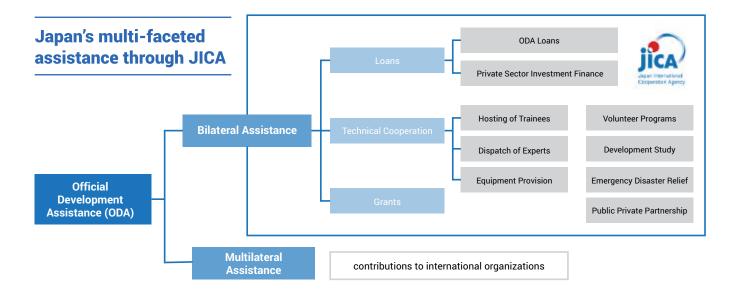
JICA's vision: inclusive & dynamic development

"Inclusive development" represents an approach to development that encourages all people to recognize the development issues they themselves face, participate in addressing them, and enjoy the fruits of such endeavours. The role of JICA is to effectively provide backing for this process.

"Dynamic development" refers to the creation of self-reinforcing virtuous cycles of mid- to long-term economic growth and poverty reduction in a constantly changing environment of developing countries where a variety of issues arise simultaneously and get entangled with each other. JICA will provide creative, highly effective support toward this end, at times moving swiftly and at times acting from the longer-term perspective as the situation calls for.

What is Official Development Assistance?

Official Development Assistance, ODA, is undertaken by governments or government agencies to promote economic development and welfare in developing countries. Since 1954, Japan has been providing financial and technical assistance through ODA, and the features of Japanese ODA have been promotion of self-help, sustainable economic growth and human security in developing countries.





Uttar Pradesh Participatory Forest Management and Poverty Alleviation Project



Hyderabad Outer Ring Road Project

ODA Loan

ODA loans support developing countries above a certain income level by providing low-interest, long-term and concessional funds to finance their development efforts. ODA loans are used for large-scale infrastructure and other forms of development that require substantial funds. ODA loans, which require repayment, promote efficient use of the borrowed funds and appropriate supervision of the project they finance, thereby underpinning developing countries' ownership in the development process.

Grant Aid

Grant aid is the provision of funds to developing countries without the obligation for repayment. Grant

aid is used for development of social and economic infrastructure for basic human needs, such as for primary and secondary education, health and medical care, the environment and other areas.

Technical Cooperation

For human resources development and formulation of administrative systems of developing countries, technical cooperation is extended. It involves dispatch of experts, provision of necessary equipment and training of personnel from developing countries in Japan and other countries. Cooperation plans can be tailored to address a broad range of issues.

3 JICA & INDIA

Japan's partnership with India for nearly 60 years

Japan's ODA to India started in 1958, when a concessionary ODA loan of 18 billion Japanese Yen was extended to supplement the implementation of the 2nd Five-Year Plan, at the request of the then Prime Minister, Jawaharlal Nehru. India was then the first recipient in the world of Japanese ODA loan. Since then, over 4,000 billion Japanese Yen in ODA loans have been committed for development across various sectors.

Technical Cooperation with India started in 1966. One of the early instances was establishment of Indo-Japanese Agricultural Extension Centres across the country, in which the Japanese method of paddy

cultivation was introduced and model farms were set up to contribute towards achieving food self-sufficiency in India. Since then, over 7,100 Indian personnel have participated in training courses in Japan and over 6,200 Japanese experts have come to India to offer their expertise.

Grant aid has also covered various areas in India including construction of hospitals and health facilities, and providing equipment for educational institutions.

Today, JICA is the world's largest bilateral aid agency and India is its largest development partner.

OPERATIONS IN INDIA: FY 2014-15

ODA LOAN



COMMITMENT

121 billion Japanese Yen

(approx. Rs 6,400 crore, second largest among recipient countries)

From FY 2011/12 to 2013/14, annual commitment on an average was 309 billion Japanese Yen (approx. Rs 16,300 crore)



DISBURSEMENT

162 billion Japanese Yen

(approx. Rs 8,500 crore largest among recipient countries)



NO. OF ONGOING PROJECTS

69

GRANT AID



1.49 billion Japanese Yen (approx Rs. 78 crore)

No. of ongoing projects: 1

TECHNICAL COOPERATION



3.77 billion Japanese Yen

(approx Rs 198 crore, the largest ever annual assistance)



282 Indians visited Japan



792 Japanese experts dispatched to India (6th highest among recipient countries)

CITIZEN PARTICIPATION



Japanese Volunteers: 17,

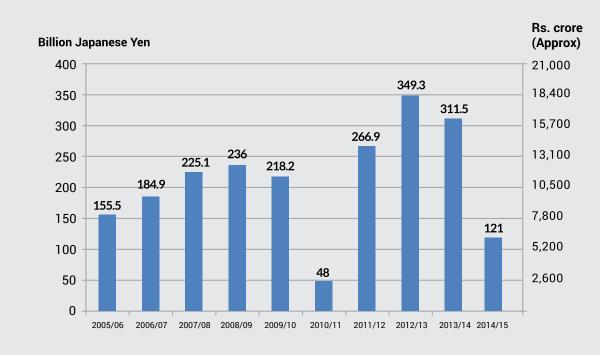
for Japanese language education, nursing instructor, community development



Japanese NGO activities: Working with Indian Partner. 4

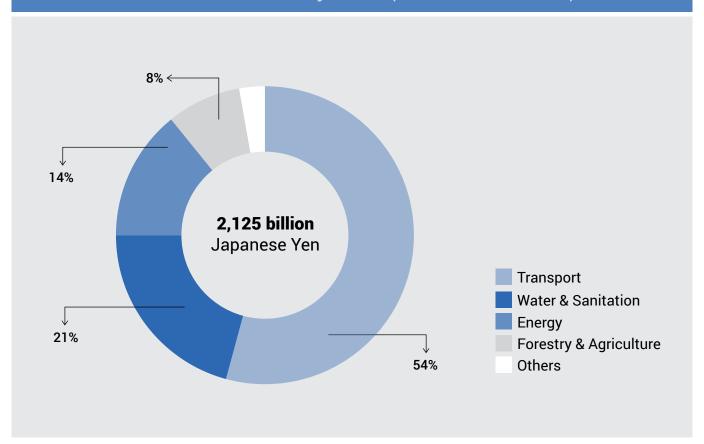
JICA's Assistance

Trends in ODA Loan Commitment for the Past 10 Years (FY 2005/06 - 2014/15)



^{*}The great East Japan Earthquake occured in FY2010/11.

Trends in ODA Loan Commitment by Sector (FY 2005/06 - 2014/15)



^{*}Currency rate JPY 1.9/INR is applied for the sake of explanation.

JAPANESE ASSISTANCE TO INDIA: TIMELINE

1958

First ODA loan to India to supplement implementation of 2nd 5-Year Plan.

1966

First Technical Cooperation to India, for paddy cultivation. First Japan Overseas Cooperation Volunteers to India.

1981

First loan to agriculture sector, for fertilizer project at Hazira, Gujarat.

1982

First loan to transport sector, for Bombay suburban railways modernization.

1988

First assistance (grant aid) to education sector, for upgrading broadcast equipment at Indira Gandhi National Open University (IGNOU), Delhi.

First loan for energy savings, in Micro, Small & Medium Enterprises (MSMEs). Seven loan commitments made subsequently to continue this assistance until 2019.

First loan for irrigation, for 71 km Canal development at Upper Kolab, Odisha.



First loan to Yamuna Action

1992

Plan (YAP), for sewage treatment capacity augmentation. Two loan commitments made subsequently to continue this assistance until 2017.

1995

First assistance (grant aid) to health sector, for improving medical equipment at Karawati Saran Children's Hospital, Delhi.

1997

First loan to Delhi Metro. 13 loan commitments made subsequently for development of 306 km of this metro.



First loan for Ganga Action Plan at Varanasi.



Photo Courtesy: Shinichi Kuno

2006

Loan for rural electrification in Andhra Pradesh, Telangana, Madhya Pradesh & Maharashtra.

First loan to Bangalore Metro. Two loan commitments made subsequently for development of 60 km of this metro.

Resumption of Japan Overseas Cooperation Volunteers program.



1991

Emergency loan to mitigate economic crisis.

First loan to forestry sector, for afforestation along Indira Gandhi Canal, Rajasthan.

First assistance (Technical Cooperation) for silk-farming, in Karnataka, Tamil Nadu, Andhra Pradesh & Telangana. The assistance continued till 2015.



2007

Start of Technical Cooperation for Visionary Leaders For Manufacturing (VLFM) project, to strengthen Indian manufacturing sector.

2008

First loan to Chennai Metro. Three loan commitments made subsequently for development of 46 km of this metro.

First loan to Kolkata East West Metro, A loan commitment made subsequently for development of 27 km of this metro.

Loan for reducing dependence on fluorosis causing groundwater in Tamil Nadu.



2009



First loan for dedicated railway freight corridor between Delhi & Mumbai. Three loan commitments made subsequently for development of 1,500 km of this corridor.

2011

First loan for development of renewable energy sources.

A loan commitment made subsequently to continue this assistance until 2020.

2013

Loan for innovative Tamil Nadu Investment Promotion Program to improve investment climate in Tamil Nadu.

Start of study for Intelligent Transport System in Bengaluru & Mysore. Expansion of VLFM to Champions for Societal Manufacturing (CSM) project.



2014

Loan & Technical Cooperation for development of Indian Institute of Technology Hyderabad.

Loan for development of Mumbai Metro Line III.

2015

Completion of feasibility study, jointly with the Government of India, for high speed railway system between Mumbai & Ahmedabad.

Preparation of Master Plan for Chennai-Bengaluru Industrial Corridor.





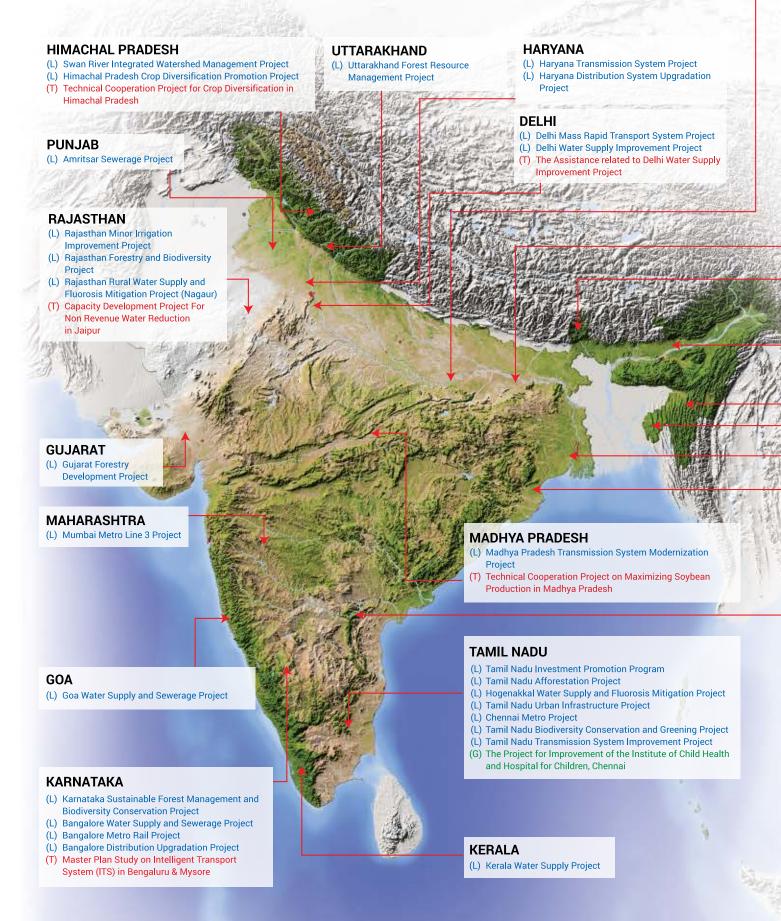
ODA Loans of **4,244 billion Japanese Yen** (approx. Rs 220,000 crore) have been extended to India since **1958.**

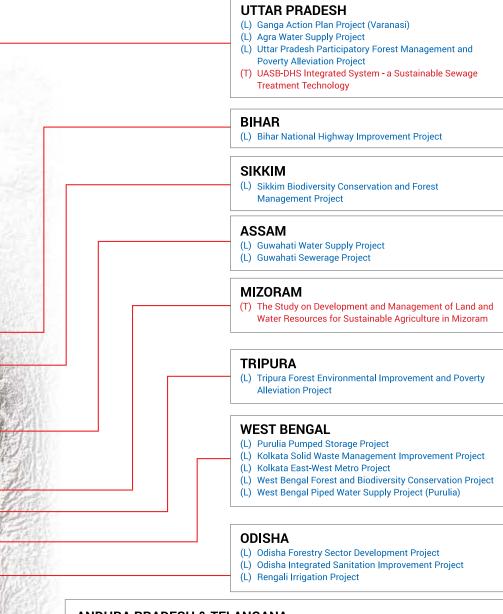
The timeline represents a cross-section of projects supported through Japanese assistance over the last 57 years, and accompanying photos have been taken at various stages of implementation of the projects.

For complete list of projects, please refer to the Projects in India booklet.

5 ONGOING JICA PROJECTS IN INDIA:

FY 2014-15





ANDHRA PRADESH & TELANGANA

- (L) Hussain Sagar Lake and Catchment Area Improvement Project
- (L) Transmission System Modernization and Strengthening Project in Hyderabad Metropolitan Area
- (L) Vishakhapatnam Port Expansion Project
- (L) Andhra Pradesh & Telangana Irrigation and Livelihood Improvement Project
- (L) Hyderabad Outer Ring Road Project
- (L) Andhra Pradesh & Telangana Rural High Voltage Distribution System Project
- (L) Campus Development Project of Indian Institute of Technology, Hyderabad
- (T) Campus Design Project for Indian Institute of Technology, Hyderabad through Academic Exchange and Interdisciplinary Collaboration
- (T) Project for Future Researchers at IIT Hyderabad to Enhance Network Development with Scholarship of Japan (FRIENDSHIP)

ACROSS VARIOUS PARTS OF INDIA

- (L) Capacity Development for Forest Management and Personnel Training Project
- (L) Micro, Small and Medium Enterprises Energy Saving Project (Phase 3)
- (L) New and Renewable Energy Development Project (Phase 2)
- (L) Yamuna Action Plan Project
- (T) Project for Information Network for Natural disaster Mitigation and Recovery (DISANET)
- (T) Advisor on Infrastructure Development and Investment Promotion
- (T) Institutional Development Project on the Supervision for Highway and Expressway Operation, Maintenance and Management
- (T) Project on Champions for Societal Manufacturing (CSM)
- (T) Joint Feasibility Study for Mumbai Ahmedabad High Speed Railway Corridor
- (T) Comprehensive Integrated Master Plan Study for Chennai Bengaluru Industrial Corridor
- (T) Energy Conservation Techniques for India





(G) Grant Aid

Snapshot of JICA's Cooperation in Transport Sector in India

MITIGATING VEHICULAR CONGESTION IN URBAN AREAS

Facilitating development of over 400 KM of METRO RAIL NETWORK

across Delhi, Mumbai, Bangalore, Chennai, Kolkata and Ahmedabad.



Delhi Metro has enabled

to remain off the roads in 2014, according to Central Road Research Institute (CRRI).

Facilitating construction of

M Hyderabad. of outer ring road at

Facilitating deployment of Intelligent Transport System (ITS) in Hyderabad & Bengaluru.

PROMOTING REGIONAL CONNECTIVITY

Facilitating development of

ROADS AND BRIDGES in various parts of India.

For instance,

Facilitated construction for

4-laning of 219 km

of National Highway 82 (NH 82) and National Highway 83 (NH 83) in Bihar.

Conducting Study for development of

ROADS, including

BRIDGES AND

TUNNELS in the North East.

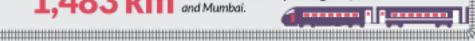
CONNECTING PORTS WITH INLAND AREAS

dillillings.

Facilitating development of

dedicated railway-freight corridor (Western DFC) over

between National Capital Region of Delhi and Mumbai.



The Western DFC is designed for train speeds of 100 km per hour

ENHANCING CAPACITY OF PORTS

[™]



Facilitating increase in

capacity and efficiency of cargo handling at the Vishakhapatnam & Chennai ports.

INDIAN RAILWAY'S VISION 2020 ENVISAGES DEVELOPMENT OF HIGH-SPEED CORRIDORS FOR SPEEDS UPTO 350 KMPH

Conducted joint feasibility study with

MINISTRY OF RAILWAYS.

Government of India for high-speed railway system between Mumbai and Ahmedabad.



Snapshot of JICA's Cooperation in Water & Sanitation Sector in India

CURRENT SITUATION



Intermittent water supply (Daily water supply in major cities ranges from 1 hour to 6 hours)



69% of sewerage is discharged to rivers and lakes without any treatment.



11.7 million people are at health risk due to fluoride-affected water.



More than 40% of non-revenue water loss exist in major cities.



Around 28% of sewer service reaches across India.



A mere 30 - 40% of operation and maintenance cost are recovered by utility bills.

WHAT IS JICA DOING



Approved 29 projects amounting to Rs. 30,000 crore

across Delhi, Agra, Varanasi, Pune, Amritsar, Bhubaneswer, Cuttack, Guwahati, Hyderabad, Bengaluru, Goa, Guwahati, Nagaur (Rajasthan), Purulia (West Bengal), Kerala & Tamil Nadu.



JICA projects are focusing on

- Infrastructure development
- Capacity development of water utilities
- Access of water & sanitation by urban poor
- Public awareness



Japanese advanced knowledge and experience are being utilized for water loss reduction in Delhi, Jaipur and Goa.



Fluorosis mitigation activities are carried out such as training to doctors and teachers, raising awareness among rural communities.



Enhancing operation and maintenance capacity and financial sustainability.



EXPECTED RESULTS BY JICA PROJECTS

30 million

People will receive water supply by JICA Projects 15 million

People will be benefitted by JICA sewerage Projects



Water supply is expected in parts of Delhi, Goa and Jaipur



Snapshot of JICA's Cooperation in Energy Sector in India



Facilitated construction of hydro and thermal power stations across India.

9.3 GW POWER GENERATION CAPACITY

4% of total generation capacity

ENHANCING TRANSMISSION & DISTRIBUTION (T&D) NETWORK



FACILITATED
ENHANCEMENT OF
TRANSMISSION/
DISTRIBUTION LINES &
SUB-STATIONS

SUB-STATIONS
across

Maharashtra,
Andhra Pradesh Telanga
Tamii Nadu,
Bangaiore,
Hyderabad and so on.

For instance, electricity supply in **Hyderabad** has increased to

16,329 GWh,

8,860 GWh

INCREASING
RENEWABLE ENERGY
GENERATION CAPACITY



Extended

60 BILLION

Japanese Yen (approx. Rs 3,100 crore)

since 2011

i

for

DEVELOPMENT OF RENEWABLE ENERGY SOURCES

through IREDA

(Indian Renewable Energy Development Agency)



FACILITATED DEVELOPMENT OF

SUBSTATIONS & ELECTRICITY DISTRIBUTION NETWORK

in rural Madhya Pradesh, Andhra Pradesh/ Telangana and Maharashtra. = For instance,

85%

households in eastern Madhya Pradesh

have access to electricity, from **37%** earlier.

PROMOTING ENERGY SAVING



SINCE 2008

for deployment by

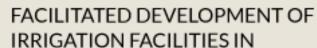
Micro, Small & Medium Enterprises of energy efficient systems for power, lighting and manufacturing, through

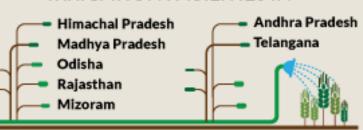
Small Industries Development Bank of India (SIDBI)



Snapshot of JICA's Cooperation in Agriculture, Irrigation & Forestry Sector

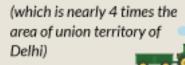
TO INCREASE IRRIGATION FACILITIES TO MITIGATE DEPENDENCE ON RAIN-FED AGRICULTURE





For instance.







TO INCREASE CROP PRODUCTION



Facilitated crop diversification in Himachal Pradesh



Enhancement of soybean production in Madhya Pradesh



Enhancement of silk production from bivoltine cocoons in Andhra Pradesh/ Telangana, Karnataka & Tamil Nadu. For instance,

Farmer income per acre of MULBERRY on which silkworms feed

Cultivation has increased





on an average in Andhra Pradesh/Telangna, Karnataka

& Tamil Nadu and handhlum and and and how the

MANAGE FOREST RESOURCES FOR SUSTAINABLE DEVELOPMENT

FACILITATING SUSTAINABLE FOREST RESOURCE MANAGEMENT ACROSS

in Rajasthan, Gujarat, Kerala, Tamil Nadu, Punjab, Karnataka, Haryana, Orissa, Tripura, Himachal Pradesh, Uttar Pradesh, Sikkim and West Bengal. For instance.



of non-timber forest produce such as

Aloe vera, bael and turmeric

will be achieved to enhance income of forest dependent communities

PROJECT FOR CAPACITY ENHANCEMENT FOR FOREST MANAGEMENT

under which training facilities have been refurbished/ newly built, training pedagogy developed and implemented, has received the National Award for 'Excellence in Training in State Forest Training Institutions'.



10 TRANSPORT



Sector Background & Challenges

Transport system in India, comprising roads, railways, ports and air services, is one of the largest in the world. However, efficiency of the transport system is low, in part because the average speed of movement through road, rail and coastal ships is lower than in developed economies. The 12th Five-Year Plan (2012-17) estimates investment of over Rs 56 lakh crore under the Plan for development of infrastructure capacity to support economic growth.

Figures at a Glance

2-wheeler & car ownership (per 1,000 people)



112 Year | 1994 **393 Year** | 2021 estimated



48 Year | 2021 estimat





Daily trips by various vehicles

Year 2001

92 million

Year 2012

216 million estimated



Railways

Average speed of freight trains 25 km per hour

(source: 12th Five-Year Plan, volume 2)

Government of India's Strategy

For urban transportation, the 12th Five-Year Plan recommends development of metro system in cities which have over 2 million population, among other determinants, as metro system is proving to be a successful mode of public transport. Additionally,



Chennai Metro Rail Project

the Plan recommends use of IT based applications to make public transport more efficient.

For railways, the 12th Five-Year Plan envisages development of dedicated freight corridors to enable higher freight carrying capacity of trains and faster movement of such trains. Furthermore, the Indian Railways' vision 2020 envisages development by year 2020 of at least four state-of-the-art high-speed corridors of 2,000 km on which trains would travel at speeds up to 350 km per hour.

For the North-East India, the 12th Five-Year Plan envisages development of connectivity within the region and of the region with the neighbouring countries, as a means of expanding economic activities and development in the region.

The Government of India has planned five 'industrial corridors' which would have state-of-the-art infrastructure, including high capacity transportation and logistics, to provide an impetus to industrialisation and planned urbanisation.

Overview of Japan's Assistance

Assist development of speedier, comfortable and safe transport system to facilitate sustained economic development.

ODA loans of 1,391 billion Japanese Yen, approx. Rs 73,000 crore, extended since 1982/83.

JICA's Assistance Strategy

JICA is supporting improvement of urban transport system through development of high-speed mass transportation (metros), feeder lines connecting the system (monorails, light railway transport, etc.), ring & radial roads and Intelligent Transport Systems (ITS).

JICA is supporting strengthening of arterial transport networks, including railways, roads, airports and ports, along the 'industrial corridors' between Delhi & Mumbai (Delhi Mumbai Industrial Corridor, DMIC) and between Chennai & Bengaluru (Chennai Bangalore Industrial Corridor, CBIC).

JICA is supporting improvement of transport infrastructure in North-East India, including roads, bridges and tunnels, for improved connectivity within the region and with adjoining countries.

Achievements



JICA facilitated development of Delhi Metro now enables 2.6 million passengers to commute on the system each day. Furthermore, Delhi Metro reduces green house gas emissions by 6.3 lakh tonnes annually, and has been certified by the United Nations to receive carbon credits which is the first in the world for a rail-based system.

JICA is facilitating development of Intelligent Transport System (ITS) in Hyderabad & Bengaluru.

JICA is facilitating development of dedicated freight corridor between Delhi & Mumbai, which would deploy automated signal and communication system and high-speed, high-capacity locomotives. JICA has conducted feasibility study, jointly with Indian Railways, for high-speed rail corridor between Mumbai & Ahmedabad

An Example of JICA's Assistance:



Delhi Metro

The economic growth is a stimulus in migration of people to metros like Delhi, in search of better opportunities. In turn Delhi's population has been increasing, from 16.8 million in 2011 to an estimated 23 million in 2021, with attendant increase in vehicles. This has led to decrease in vehicular speed and increase in traffic congestion and vehicular pollution.

As there is limited scope for enhancing capacity of existing road network, the local government proposed development of a multi-modal transport system which became the genesis for the Delhi Metro Rail Corporation.

For development of the Delhi Metro, JICA has extended ODA loan of 652 billion Japanese Yen (approx. Rs 38,300 crore) in phases. Under the first and the second phases of the Delhi Metro developed by 2011, 190 km serving 142 destinations in Delhi and neighbouring areas of Gurgaon, Noida, Ghaziabad and Faridabad were built. In the third phase to be developed by 2016, additional 116 km serving 76 destinations across Delhi and neighbouring areas would be added, majorly under JICA assistance.



Delhi Metro Rail Project



11 WATER & SANITATION

Sector Background & Challenges

As per 2011 census, about 70 percent of urban population is covered by individual water connections. However, water supply is inadequate, inconsistent and unequally distributed, and there is disparity in service level among regions. In urban areas, water supply is available between 37 to 298 litre per capita per day (lpcpd) for limited hours and metering for residential water connections is inadequate due to malfunctioning water meters, with the result that 70 percent of water leakages occur from consumer connections.

As per 2011 census, about 13 percent of urban households do not have access to any form of latrine facility and defecate in the open, and about 37 percent of urban households are connected with open drainage.

Figures at a Glance



1 to 6 hours a day

Water supplied by local municipal corporations in major cities

Source: Service level benchmark indicators. Ministry of Urban Development



40 to 50%

Non-revenue water, water lost in distribution system, in most cities Source: 12th Five-Year Plan, volume 1



72%

Sewage discharge not connected to any sewer network in India Source: Central Pollution Control Board, 2009



80%

Sewage not treated before disposal in Class I & Class II cities Source: Central Pollution Control Board, 2009



11.7 million

People at health risk due to fluoride affected water Source: National Program for Prevention and Control of Fluorosis, Ministry of Health & Family Welfare



Rs 2,180

per capita economic cost of inadequate sanitation

Source: 12th Five Year Plan, volume 2

Government of India's Strategy

The 12th Five-Year Plan (2012-17) indicates capital expenditure of Rs 99,187 crore for development of urban water supply, sewerage, solid waste management and storm water drains during the Plan period. The Plan aims at achieving 100 % water supply and sanitation in all urban areas of the country and eliminate open defecation. It also aims to increase provision of public toilets for floating populations, improved sewage collection, conveyance and treatment services. The 'Swachh Bharat Abhiyan' launched in 2014 seeks to eradicate manual scavenging and generate support for urban local bodies in designing, executing and operating waste disposal systems, among other initiatives, to achieve the mission of 'Clean India' by 2019.



Capacity Development Project for Non-Revenue Water Reduction in Goa

Overview of Japan's Assistance

Assist development of water supply and sanitation facilities for improved living environment and economic development.

ODA loans of 512 billion Japanese Yen, approx. Rs 27,000 crore, extended since 1991/92.

JICA's Assistance Strategy

JICA is supporting the development of water supply and sewerage treatment infrastructure for residential, commercial and industrial areas, together with introduction of volumetric based tariff system, metering system, improved billing, efficient tariff collection, non-revenue water reduction activities, promotion of water saving practices and promotion of recycle/reuse of wastewater.

JICA is supporting water supply and sewerage infrastructure improvement in rural areas facing serious health issues such as fluoride and arsenic contamination in groundwater.

Achievements



30 million people will receive water supply from JICA supported projects. 15 million people will benefit from JICA supported sewerage projects. 24x7 water supply is expected in parts of Delhi, Goa and Jaipur through JICA supported projects.

JICA supported rural water supply project in Krishnagiri & Dahrmapuri districts of Tamil Nadu, which has led to marked reduction in fluorosis among children there.

An Example of JICA's Assistance:



Bangalore Water Supply and Sewerage Project (Phase 1&2)

JICA has extended 98,807 million Japanese Yen (approx. Rs 5,200 crore) in ODA loan to provide for stable water supply and sewerage services in Bengaluru.

Under the project water supply facilities are being enhanced through development of water treatment plant of 770 million litres per day (MLD) capacity, reservoirs, pumping stations, water transmission pipelines and improved distribution network. Sewerage facilities are being enhanced through development of sewer lines, pumping stations and sewage treatment plants of 703 MLD combined capacity. A Supervisory Control and Data Acquisition (SCADA) system for remote monitoring and control of equipment is also being installed.

JICA's assistance will facilitate increase in water supply to 1,310 MLD from 540 MLD earlier, reduction in non-revenue water to 16% from 36% earlier and increase in sewage treatment capacity to 1,111 MLD from 408 MLD earlier.



Okhla Sewage Treatment Plant under Yamuna Action Plan

12 | ENERGY



Sector Background & Challenges

Resulting from its rapid economic growth, electricity consumption in India has been increasing by 7% each year in the last 10 years. India's main challenges in the energy sector include increasing energy supply, enhancing energy efficiency, diversifying energy resource and mitigating regional difference in energy availability. In addition, grid stability is required to be addressed as sources of new and renewable energy increase. Under the Government of India's 12th Five-Year Plan (2012-17) 88,537 MW in power generation capacity addition is targeted.

Figures at a Glance



281,423 MW

Installed Capacity (as of November 2015)

Coal: **61%**; Gas: **8%**; Hydro: **15%**; Nuclear: **2%**; Renewable: **13%**



Demand-supply gap: 3 MW

- 1.4% in energy supply: supply 84,602 MU; demand: 85,823 MU
- 1.4% in peak demand:
- 1.4% in peak demand: supply 136,298 MW; demand: 138,267 MW (in October 2015)

1,010 kWh: Electricity consumption per capita (in FY 2014-15)

21.5%: T&D losses (in 2013-14)

97.4%: Rural areas electrified (as of November 2015)

Source: Central Electricity Authority

Government of India's Strategy

The Government of India's mission is 24x7 power for all by 2019. To achieve this mission, the Government of India is targeting doubling of coal production to 100 crore tonnes per year by 2020, increasing power generation by 50% by 2020, increasing renewable energy generation capacity 5 times to 175,000 MW by 2022 and increasing energy savings to 10% of current consumption. Additionally, the Transmission and Distribution (T&D) losses could reduce to the global benchmark of 7% by 2047, in the scenario of India moving aggressively towards energy independence and energy security, as per NITI Aayog estimates.

Overview of Japan's Assistance

Assist development of stable electricity supply to facilitate economic growth well into the future.

ODA loans of 1,474 billion Japanese Yen, approx. Rs 77,500 crore, extended since 1958/59.



New & Renewable Energy Development Project

JICA's Assistance Strategy

JICA's assistance to develop stable electricity supply is substantially dedicated towards enhancing energy availability through deployment of state-of-theart energy efficient technologies for power plants, transmission systems and distribution networks.

At present, about 77% of the electricity consumed in India is generated through thermal power plants. JICA is facilitating more efficient usage of coal and improving energy efficiency by reducing transmission and distribution loss. JICA is enhancing diversification of energy generation, including renewable energy such as solar and wind, which will also serve to lower greenhouse gas emissions. Recently, further utilization of new and renewable energy caused grid stabilization issue, therefore JICA is facilitating installation of grid stabilization technologies as well.

Among the measures to improve energy efficiency, JICA has been supporting energy efficiency among Micro, Small & Medium Enterprises (MSMEs), through ODA loans and Technical Cooperation to Small Industries Development Bank of India (SIDBI).

Achievements



JICA supported projects have contributed about 9.3 GW to India's total installed capacity of about 261 GW.



Haryana Distribution System Upgradation Project



Bakreswar Thermal Power Project, West Bengal

An example of JICA's Assistance:



Andhra Pradesh & Telangana Rural High Voltage Distribution System Project

JICA has extended 18,590 million Japanese Yen (about Rs 1,100 crore) in ODA loan to facilitate reliable power supply for agriculture in Andhra Pradesh & Telangana, across 16 rural districts there.

In Andhra Pradesh & Telangana, agriculture consumes about one-third of the power supplied, essentially to operate over 2.7 million irrigation pumps. The power is being supplied using Low Voltage Distribution System (LVDS) comprising high-capacity transformers, which tended to cause pilferage and distribution losses. In addition, there have been voltage fluctuations causing damage to the irrigation pumps, which hinders farm work and burdens farmers with pump repair costs. Converting LVDS to HVDS (High Voltage Distribution System) through JICA's assistance is leading to stabilization of power supply, and in turn agricultural production there.

Under the project over 69,000 km of high voltage Direct Current lines and over 195,000 low-capacity transformer units are being installed. The project is being executed by Central, Northern and Southern Power Distribution Companies of Andhra Pradesh Limited, and is scheduled for completion by early 2017.

13 FORESTRY

Sector Background & Challenges

The livelihood of most inhabitants in rural and tribal areas is dependent directly or indirectly upon forest resources. They largely live off the land, putting undue pressure on the natural forests around them. This has led to degradation of forests and depletion of forest resources across the country.

Figures at a Glance



24.16%

Forest & tree cover in India
(India State of Forest Report 2015)



30.6%

Forest cover globally (FAO 2015 fact sheet)



7,044 million tonnes

Carbon stock in India's forests
(India State of Forest Report 2015)



2,500 million to 3,000 million tonnes of carbon stock

India's Intended Nationally Determined Contributions (INDC)



36%

Cattle depending partially or completely on forest for sustenance



200 million

15% of India's population using wood as fuel (India State of Forest Report 2011)

Government of India's Strategy

The vision of 12th Five-Year Plan (2012-17) on the sector is to 'manage environment, forests, wildlife

and challenges due to climate change for faster and equitable growth, where ecological security for sustainability and inclusiveness is restored, equity in access to all environmental goods and eco-system service is assured through institutionalization of people's participation'.

Overview of Japan's Assistance

Assist forest resource management and livelihood improvement of forest dependent communities.

ODA loans of 225 billion Japanese Yen, approx. Rs 11,800 crore, extended since 1991/92.

JICA's Assistance Strategy

JICA's assistance is directed at striking equilibrium between afforestation and sustained livelihood improvement of the local communities through Joint Forest Management (JFM). JICA's assistance also provides for biodiversity conservation, institutional capacity building of forest departments, soil and water conservation measures, research and extension and involvement of NGOs.



Integrated Natural Resources Management & Poverty Reduction Project in Haryana

JICA promotes use of technology, such as Geographic Information System (GIS) & Management Information System (MIS) for planning and real-time monitoring; linking of Self-Help Groups (SHGs) directly to markets; Carbon Financing and Reducing Emissions from Deforestation & Forest Degradation (REDD+) mechanism.

JICA's assistance started in 1991 when JFM was in the stage of evolution. Projects supported by JICA then focused on afforestation, soil and water conservation, training, extension, and procurement of equipment. In 2000, a study was instituted by JICA to review the 'Forestry Sector Policy Issues' wherein the then ongoing projects were examined in terms of design, implementation, effectiveness and sustainability. The findings were discussed with concerned agencies and the Ministry of Environment and Forests, Government of India, and the recommendations were incorporated in future projects.

Projects from 2002 have aimed at equilibrium between afforestation and sustainable livelihood improvement of the local communities through JFM, under which sustainable poverty alleviation and socio economic development activities have been undertaken. Going forward, projects will include technology based planning and monitoring, and REDD+ initiatives.

Additionally, JICA is facilitating capacity development of the frontline staff at Directorate of Forest Education (DFE) & Central Academy for State Forest Service (CASFOS), Dehradun, in collaboration with the Ministry of Environment, Forest & Climate Change.

Achievements



Plantation/regeneration activities under JICA supported projects have covered more than 2 million hectares (which is nearly half the area of Haryana state), across 13 states, namely Gujarat, Haryana, Himachal Pradesh, Karnataka, Orissa, Punjab, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttarakhand, Uttar Pradesh and West Bengal, and another 0.5 million hectares are expected to be covered in next 5 years.

Over 16,000 JFM committees and 24,000 SHGs have been formed under JICA projects.

JICA assisted project for 'Capacity Development for Forest Management and Personnel Training' has received the National Award for Excellence in Training at the inaugural National Symposium on Excellence in Training (NSET).

An Example of JICA's Assistance:



Tripura Forest Environment Improvement and Poverty Alleviation Project

In Tripura, a high proportion of local communities rely on forests for livelihood. To regenerate degraded forests and improve livelihood opportunities, Government of Tripura's Department of Forest and JICA have partnered in 2007 to initiate the Tripura Forest Environment Improvement and Poverty Alleviation Project. The project is being implemented through 463 Joint Forest Management Committees (JFMC) and Eco-Development Committees (ECDs), whose members are drawn from over 36,000 local forest dependent families.

Under the project, 53,187 hectares have been afforested and 8,523 hectares has been brought under agroforestry. Over 2,445 check-dams of different configurations have also been laid for soil and water conservation. The check-dams have facilitated creation of 1,326 hectares of water area, which has led also to fishery potential of 1,700,000 kg.

In addition, plantation of broom-grass, black cardamom and gandhaki have been done. In 2014-15, 500,000 kg of broom-grass was harnessed, equivalent to Rs 336 lakhs. Skills enhancement has also been provided, in handloom and embroidery related to bamboo, to over 480 local community members.



Orissa Forestry Development Project

14 AGRICULTURE



Sector Background & Challenges

In India, about 70% of the population lives in rural areas and 49% of the work force is employed in agriculture. Agriculture accounts for 14% of GDP, its annual employment growth rate is less than 1% and agricultural productivity varies across India. The Government of India is targeting 4% growth in agriculture sector during the 12th Five-Year Plan (2012-17), to improve agricultural production and livelihood opportunities in rural areas.

Figures at a Glance



328 million hectares

Geographical area of India



140 million hectares

Net sown area



65 million hectares

Net irrigated area (46% of net sown area is irrigated, 54% is rainfed)



Rs 162,000 crore

Net investment (gross capital formation) in agriculture & allied sectors in 2012-13

Source: Ministry of Agriculture, 2014-15 annual report

Government of India's Strategy

The government policy lays emphasis on improving the economic viability of farming as well as protection and improvement of land, water, biodiversity and genetic resources. A wide array of programs have been initiated and supported by various ministries covering all the facets of agriculture including agriculture production,

farm inputs and management, agriculture credit, postharvest management and value addition, agriculture research and extension, and watershed development. Among the programs is the National Food Security Mission to enhance the production of rice, wheat and pulses, and allocation of Rs 50,000 crore over 5 years for development of irrigation facilities.

Overview of Japan's Assistance

Assist enhancement of agricultural productivity and livelihood improvement in rural areas.

ODA loans of 253 billion Japanese Yen, approx. Rs 13,300 crore, extended since 1981/82.



Project for Maximization of Soybean Production in Madhya Pradesh

JICA's Assistance Strategy

JICA is focussing on strengthening the Indian agriculture system, through irrigation system enhancement, crop diversification and strengthening market linkages, which are essential in improving agricultural productivity and rural livelihoods.

JICA has long been extending assistance to irrigation

projects across India, and capacity development of 'Water Users Association' (WUA) as part of the assistance ensures the sustainability of irrigation facilities. JICA's assistance in developing improved cultivation technologies has been facilitating agricultural productivity enhancement in rain-fed areas.



Rajasthan Minor Irrigation Improvement Project

Achievements



JICA's assistance for irrigation has led to increase in irrigated area by 570,027 hectares across 7 states.

Technical Cooperation from JICA has led to maximization of soybean output in Madhya Pradesh through improvement in soil management, sowing, germination and farm machinery, among others.

Technical Cooperation from JICA has led to improved quality of silkworm cocoons produced in southern India.



Swan River Integrated Watershed Management Project

An Example of JICA's Assistance:



Himachal Pradesh Crop Diversification Promotion Project

In Himachal Pradesh, over 70% of the working population is engaged in farming. However, 80% of the farmers are small landholders with 1.2 hectares (ha) or less in landholding, resulting in self-subsistence crop cultivation, and only 18% of the cultivated land of 583,000 ha in the state is under irrigation due to steep topography.

With the aim of securing food self-sufficiency for small farmers and improving livelihood through crop-diversification, the 'Himachal Pradesh Crop Diversification Promotion' project was started by Department of Agriculture, Government of Himachal Pradesh with support from JICA. JICA has extended for the project technical cooperation and an ODA loan of 5,001 million Japanese Yen (approx. Rs 280 crore) synergistically to maximize outcomes.

The ODA loan has facilitated development of agricultural infrastructure such as irrigation facilities, roads to access farms and post-harvest facilities, and Technical Cooperation has facilitated 'capacity building' through dispatch of experts from Japan to provide training on vegetable cultivation, processing and marketing to agricultural extension officers and farmers under the project.



Himachal Pradesh Crop Diversification Promotion Project

15 HUMAN RESOURCE DEVELOPMENT

Sector Background & Challenges

Development of human resource should be nurtured to the pace and scale of population increase in India, to maintain and accelerate economic growth in industrial and commercial fields. In addition to providing contemporary education and skills for the youth for enhanced career opportunities, there is an increasing need for developing higher education institutions in the areas of science and technology to address needs of the industrial sector and society, through technical innovation. Capacity development of senior and middle managers in the manufacturing sector is also needed for accelerating growth of this sector, which has remained flat for several decades at around 15% of Gross Domestic Product (GDP).

Government of India's Strategy

The enrolment in higher educational institutes is 18.8% of potential students (Gross Enrolment Ratio (GER)), which is below the world average of 26%. The Government of India intends to improve the ratio up to 25.2% by 2017, by achieving additional enrolment of 10 million students. Additionally, the Government of India has the vision of imparting skills and knowledge which not only meet the challenges of global competition but also contribute to improving the quality of life of the community.



Project for the Visionary Leaders For Manufacturing Program

Overview of Japan's Assistance

Assist development of education facilities, and human resource for manufacturing.

31 billion Japanese Yen, approx. Rs 1,600 crore, (ODA Loan: 23 billion Japanese Yen, Grant Aid: 7.8 billion Japanese Yen) extended since 1988/89.



Campus Design Project of IITH

JICA's Assistance Strategy

JICA is focussing on development of facilities for higher education and development of human resource to propel the manufacturing sector in India.

JICA has been extending ODA loan and Technical Cooperation synergistically for development of Indian Institute of Technology, Hyderabad (IITH) as a hub of academic and industrial collaboration, with special reference to Japanese strength.

JICA has been supporting distance education through a series of grant aids to Indira Gandhi National Open University (IGNOU), which has facilitated enhanced quality of teaching-program production and its reach across India.

JICA's 'Visionary Leaders For Manufacturing (VLFM)' program implemented from 2007 to 2013 and succeeding 'Champions for Societal Manufacturing (CSM)' program has aimed at creating visionary leaders in the manufacturing sector in India.

Achievements



JICA's ODA loan for IITH is facilitating development of infrastructure including research centre complex, technology incubation park, sports centre complex, convention centre village, international guest house and procurement of research equipment; and technical cooperation with IITH is facilitating linkages between IITH and academic institutions and industrial clusters in Japan.

JICA's assistance to IGNOU has facilitated upgrade of equipment for satellite broadcasting, from standard definition to high definition. As satellite broadcasting forms integral part of IGNOU teaching, this is benefiting several thousand students across India.

An Example of JICA's Assistance:



Visionary Leaders For Manufacturing, VLFM, program

The VLFM program started in 2007 to disseminate the essence of Japanese manufacturing, which is driven by innovations, and establish an Indian way of management.

Under the VLFM program, innovative approaches to research and development, labour relations, continuous incremental improvements or 'kaizen', partnership with suppliers and addressing needs of the underprivileged profitably are propagated, and there is a course for graduates. To conduct the VLFM project, a unique partnership has been forged between the government, industry and academia through National Manufacturing Competitiveness Council (NMCC) and Ministry of Human Resource Development of the Government of India, JICA of the Government of Japan, Confederation of Indian Industry (CII), Indian Institute of Technology, Kanpur (IITK),

Indian Institute of Technology, Madras (IITM) and Indian Institute of Management, Calcutta (IIMC).

The VLFM project has led to a number of successes across development of new products, new markets, new business processes and new business models, and training of over 1,800 executives to serve as visionary leaders of Indian industry. The successes include development by Sona-Koyo of an electronic steering system for off-road vehicles like golf carts & tractors, and development by Godrej & Boyce of 'ChotuKool' portable refrigerator, which uses a thermochip rather than a traditional compressor and doesn't require constant electricity to operate.

Shoji Shiba, professor emeritus, Tsukuba University, Japan has formulated the structure and implementation of VLFM program. The Government of India conferred 'Padma Shri' award on him in 2012 for his contribution to transforming India's manufacturing sector to become globally competitive. In 2015, the Government of Japan conferred 'Grand Cordon of the Order of the Rising Sun' on Dr. Sarita Nagpal, Principal Advisor, CII, for her contribution to the VLFM program, thereby promoting cooperation and friendly relations between Japan and India.

From 2013, the VLFM program has been extended and enhanced to 'Champions for Societal Manufacturing' (CSM) program.



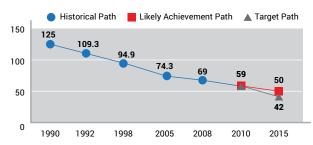
DISANET Research Project at IITH

16 | HEALTH

Sector Background & Challenges

Development assistance for healthcare is of paramount importance because it serves a humanitarian purpose and supports good health for citizens, which is the basis for economic and social development. The United Nations had set eight Millennium Development Goals (MDGs) in 2000 for their achievement by 2015, among which the health related MDGs were considered important in achieving all the eight MDGs. The MDGs have been expanded into Sustainable Development Goals (SDGs) which are targeted for achievement by 2030.

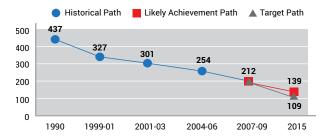
Figures at a glance



Maternal Mortality Ratio (per 100,000 live births)



Infant Mortality Rate (per 1,000 live births)



Under Five Mortality Rate (per 1,000)

	2011-12	Targeted by 2017
Public expenditure in	1.04%	1.87%
India on health	of GDP	of GDP

Source: Towards Achieving Millennium Development Goals India 2013, Social Statistics Division, Ministry of Statistics and Programme Implementation GOI; 12th Five Year Plan (FYP), volume 3 for Social Sectors

Government of India's Strategy

Since the 10th Five-Year Plan, India has identified the health sector as one of the priority areas to be addressed in order to achieve the MDGs. In the 12th Five-Year Plan (2012-2017), it is emphasized to reinforce public health service provision and to achieve Universal Health Coverage by 2020 in order to ensure that all people can use promotional, preventive, curative and rehabilitative health service as needed and at affordable cost.



Grant Agreement for the Project of Eradication of Poliomyelitis in India (through UNICEF).

Overview of Japan's Assistance

Provision of quality healthcare services: Reaching out to vulnerable population

17 billion Japanese Yen, approx. Rs 900 crore, extended since 1995/96.

JICA's Assistance Strategy

Given that India has a vast geographical area with a large population below the poverty line, JICA sees the following three areas as priorities: 1) Decrease infant mortality rate and maternal mortality rate, 2) Strengthen strategy for controlling infectious diseases, and 3) Improve access to health services for the underprivileged.

The major forms of JICA's assistance in health sector have been technical cooperation and grant aid.

JICA's grant aid focuses on improvement of medical facilities and technical cooperation focuses on enhancement of skills, knowledge and expertise of health sector personnel in various segments, from grass-roots health workers to researchers.

Achievements

JICA's financial support to UNICEF for Polio Eradication Program in high risk states started in 1996 and has succeeded in making India polio free. In March 2014, the World Health Organisation certified India 'polio-free' after three years of no new case being reported.

JICA has supported capacity building of Auxiliary Nurse Midwives (ANMs) in remote areas under the National Rural Health Mission (NRHM).



New building (perspective) for Institute of Child Health & Hospital for Children, Chennai.

JICA has assisted in the improvement of medical facilities at key tertiary care hospitals in major centres like Delhi, Mumbai, Chennai, Kolkata and Cuttack, which has significantly enhanced access to health services especially among the underprivileged and improved quality of health care.

An Example of JICA's Assistance:



Institute of Child Health and Hospital for Children (ICH), Chennai

ICH is a public tertiary-care hospital that provides services without charge, and currently caters to over 2,500 children from the region encompassing Tamil Nadu, Karnataka and Andhra Pradesh, daily in the Out-Patient Department (OPD). The institute and hospital are currently spread across different buildings and the number of patients it receives is increasing, straining medical care for patients and learning opportunity for students.

JICA is providing grant-aid of 1,495 million Japanese Yen (approx. Rs 88 crore) for improvement of the ICH, under which a new user-friendly OPD building is being constructed that will minimize movement of patients and medical personnel, the emergency department is being enhanced and the latest medical equipment are being procured.



Follow-up Cooperarion for Improvement of Medical Equipment at Karawati Saran Children's Hospital, Delhi.

KNOWLEDGE CO-CREATION PROGRAMS

MULTIFACETED GROWTH AND DEVELOPMENT

Knowledge Co-Creation contributes to human resource development utilizing Japan's technology, skills & knowledge.



Participants from various countries during a Knowledge Co-Creation Program.

JICA uses various forms of development assistance schemes to meet diverse needs of developing countries around the world. As one of the schemes, technical cooperation contributes to human resource development through utilizing Japan's technology, skills and knowledge. JICA's Knowledge Co-Creation programs are a form of technical cooperation that JICA carries out in Japan. Much of the knowledge accumulated in Japanese society can be understood only by visiting Japan.

An example of this is the unique way of forming social systems and organizational structures, the so-called "Japanese model". If "seeing is believing", then experiencing is understanding. By actually visiting Japan, people from developing countries come to a setting surrounded by Japanese society and its organizations, where they can discuss the circumstances in their home countries and develop an understanding of social conditions and values very different from their own.



Participant with a Trainer during a Knowledge Co-Creation Program.



Participants on a field-visit during a Knowledge Co-Creation Program.

This experience imparts valuable knowledge that could be obtained in no other way.

In addition to providing unique knowledge to personnel, this sort of technical cooperation stimulates people to make their own decisions, which is a crucial element for human resource development along with other assistance schemes. JICA's Knowledge Co-Creation programs are therefore a major component of Japan's international cooperation programs, receiving nearly 10,000 participants each year from all over the world. The majority of the participants are from governmental

or public organizations. However, there have also been participants from non-governmental organizations (NGOs) and private companies.

In terms of scale and available resources, there is no other program in the world that can compare to JICA's Knowledge Co-Creation programs, which have become one of the cornerstones of Japan's international cooperation.



Participants undergoing a Knowledge Co-Creation Program.



Trainers with a participant during a Knowledge Co-Creation Program.

JICA's Knowledge Co-Creation programs is a form of Technical Cooperation which entails visit to Japan.

VOLUNTEERS CREATING LASTING VALUES

Japan Overseas Cooperation Volunteer (**JOCV**) and Senior Volunteer (**SV**)

JICA's volunteer will advance international cooperation through the sharing of knowledge and experience, and work to build a more peaceful and prosperous world as a bridge between the people of India and Japan.



A JOCV visited a school to communicate with children.



Students who are learning Japanese with a JOCV.

JICA's volunteer programs, such as Japan Overseas Cooperation Volunteer (JOCV) and Senior Volunteer (SV), support a wide range of local activities by Japanese citizens who wish to cooperate in the economic and social development as well as the reconstruction of developing countries. Through these cooperation activities, participating volunteers can, not only contribute to the development of partner countries but also gain valuable experience in terms of international goodwill, mutual understanding and an expansion in their international perspectives. Widely recognized as a representative Japanese international cooperation program in the world, JICA's

volunteer activities have not only earned high acclaim from partner countries but are also receiving increased praise in Japan, where expectations for these programs are also rising.

JICA's volunteers have backgrounds, knowledge and experiences relating to requirements from organizations as well as strong desires to participate in cooperative activities. Also, they live and work together with communities, speak local languages, and carry out activities with an emphasis on raising self-reliant efforts while fostering mutual understanding. "Together with the local community"

Strength of JICA's Volunteers

- Being dispatched based on host countries' and organization's requests.
- Developing work plans with counterparts, reflecting their needs and interests.
- Having voluntary mind, technical skills and practical experiences.

is the motto of JICA's volunteer programs.

 Working together with local communities (grass-root activities).



Judo coach volunteer.



A nursing volunteer is teaching to future health workers.

JICA's volunteer programs in India

India is one of the first countries where the JOCV program started in 1966. From the commencement of the program until 1978, about 130 JOCVs were dispatched across India, mainly to assist in better living, basic human needs and industrial development in India, and more than 60 volunteers in the field of education, health, agriculture, community development and sports have been dispatched after the program resumed in 2006. Recognizing the importance of further promoting technical cooperation through people-to-people exchange, the JOCV program since 2014 has expanded to include other activities and the SV program.



A JOCV is teaching Japanese with an Indian teacher.

Comment from a counterpart of a JOCV

"Mr. YAMANAKA is working with us to organize groups of silk-raising farmers in Hindupur. He is a very active and energetic person. Also his attitude to his job is very positive. He is always assertively trying to communicate with the farmers to know more about them and speaking in Telugu language with sincerity. Therefore, he is trusted by them regardless of nationality. Moreover, he timely offers advice and helps organizing the farmers so that we can effectively hold a workshop to share the knowledge and know-how of the modernistic way in the sericulture industry which was introduced from Japan before. Actually, this is a very useful opportunity for all farmers and their better livings."

- Dr. Satyanarayana Raju, Scientist, Regional Sericultural Research Station, Central Silk Board, Anantapuramu, Andhra Pradesh



Silk-raising farmers who are supported by a JOCV.

JICA PARTNERSHIP PROGRAM

PARTNERS IN GROWTH AND SUCCESS

Partnership program was introduced in 2002 to support the implementation of projects formulated by Japanese NGOs, Japanese local governments, and Japanese universities.



Photo courtesy: Naoshi Terasaki



Photo courtesy: Naoshi Terasaki

Vocational education support project for the visually impaired in Dehradun, Uttarakhand and Ahemdabad, Gujrat

"Project for Vocational Education Support for the Visually Impaired"/Special Needs Education School for the Visually Impaired, University of Tsukuba

Recognizing the growing importance of civil societies in international cooperation, the JICA Partnership Program (JPP) was introduced in 2002. The program supports the implementation of projects formulated by Japanese NGOs, Japanese local governments and Japanese universities to utilize their accumulated knowledge and experience in activities for developing countries. JPP projects aim to meet the diverse needs

of developing countries and to strengthen collaboration between communities in both developing countries and Japan. In India, JPP was started in 2004 and various projects have been implemented in the field of Agriculture, Rural development, Health, Women's empowerment and Tourism to contribute towards social and economic development at the grassroots level.





Maternal and Child Health Project in Allahabad, Uttar Pradesh

"Improvement of Integrated Mother and Child Health by Collaboration between Government Health Staff and Rural Health Volunteers (VHV)"/ ASHA = Asian Sustainable Holistic Approach



Photo courtesy: TPAK

Women's Safety Net Project in Dehradun, Uttarakhand

"Prevention Programs against Gender-based Violence and Establishment of Safety Net in High-Poverty Rural Settlements"/Terra People ACT Kanagawa (TPAK)

Since 2014, the Japanese NGO Terra People ACT Kanagawa (TPAK) has been implementing the project for Women's safety in Dehradun. This project is to establish the safety net for women by improving awareness of gender-based violence prevention of the entire community.

Japanese NGOs, Japanese local governments and Japanese universities utilize their accumulated knowledge and experience in activities for developing countries.



JICA India Office

2nd Floor, Dr. Gopal Das Bhawan, 28 Barakhamba Road, New Delhi 110-001, India Tel: (91-11) 47685500 | Fax: (91-11) 47685555 www.jica.go.jp/english/index.html www.jica.go.jp/india/english/index.html