GIZ-SUPPORTED INTEGRATED SUSTAINABLE URBAN TRANSPORT SYSTEMS FOR SMART CITIES (SMART-SUT)

PROJECT BACKGROUND

Ministry of Housing and Urban Affairs (MoHUA) and Deutsche Gesellschaft fuer Internationale Zusammenarbeit (GIZ) GmbH are jointly implementing the technical cooperation project "Integrated Sustainable Urban Transport Systems for Smart Cities (Smart-SUT)". The project works with the three Smart Cities of Bhubaneshwar, Coimbatore, and Kochi and respective state governments Odisha, Tamil Nadu, and Kerala to promote low carbon mobility planning, and to plan and implement sustainable urban transport projects in the fields of public transport, non-motorised transport and modal integration.

PROJECT OBJECTIVE AND COMPONENTS

Indian cities improve the planning processes and the implementation of sustainable and integrated urban transport systems and solutions. Project components:

1. Support partner institutions in city-wide planning and projects/measures
2. Development and implementation of customized capacity development measures and institutionalising them in local training institutions
3. Enhance peer-to-peer learning, knowledge exchange, and support in state-wide campaigns on sustainable urban transport
4. Support the state departments in policy-oriented research, development of replication mechanisms and data management strategies

PROJECT DETAILS

Technical cooperation project commissioned by German Ministry for Economic Cooperation and Development (BMZ) under the German Climate Technology Initiative

Project volume and duration: 9 million Euros and August 2017 - July 2021

Implementation agreement signed by MoHUA on 08.12.2017

Memorandum of Understandings (MoUs) signed with:

- Housing & Urban Development Department (H&UDD) and Bhubaneswar Development Authority (BDA) on 31.05.2018
- Commissionerate of Municipal Administration (CMA) and Coimbatore City Municipal Corporation (CCMC) on 01.08.2019

Project implementing partners

Odisha – H&UDD, BDA, Capital Region Urban Transport (CRUT), Bhubaneshwar Smart City Limited (BSCL), Bhubaneswar Municipal Corporation (BMC)

Tamil Nadu – Municipal Administration & Water Supply (MA&WS), CMA, CCMC, Transport Department, Transport Commissionerate, Coimbatore Smart City Limited (CSCL), Coimbatore Traffic Police, Tamil Nadu State Transport Corporation (TNSTC)

Kerala – Local Self Governance Department, Kochi Municipal Corporation, Transport Department, Cochin Smart Mission Ltd. (CSML), Kochi Metro Rail Ltd. (KMRL)

Components 1 and 2 are being implemented by consortium comprising of GFA-WRI India-Wuppertal Institute
BHUBANESHWAR
Low Carbon Mobility Plan (LCMP)

- Business as Usual (BAU), alternate scenario results and broad proposals presented to the city.
- City-wide campaigns including focus groups with special user groups of mobility, poster campaigns, press release announcing the LCMP in English and Odia dailies, etc. conducted.
- Recommendations for institutional strengthening to support the LCMP are being developed.
- Inputs linking LCMP to the Comprehensive Development Plan (landuse plan) to be finalised by December 2019.

Individual & organizational level capacity building for Capital Region Urban Transport (CRUT)

- Supporting CRUT to strengthen human and operational capacities. The long-term objective is to develop a framework for strengthening CRUT for managing and operating the public transport system in Bhubaneswar and surrounding cities in the metropolitan area.
- Supported CRUT to achieve its targeted ridership of 1 lakh riders in a day by 15 Oct 2019
- Supporting establishing of Key Performance Indicators (KPIs), reviewing reports produced by the IT systems, resolving IT related issues, capacity building on how to set-up stops, stop codes, cleaning up date, etc.
- Organising trainings and study tours to cities like to Bengaluru, Mysuru, Mumbai and Munich (Germany) to study different aspects of bus operations
- Developed a reference manual for city bus operations on tools and approaches being adopted by CRUT to streamline its organizational development, planning, scheduling and training activities.

UPSCALING CITIES

- Odisha – Bhubaneswar Metropolitan Area including Cuttack and Puri (to be decided)
- Tamil Nadu – Madurai and Salem (agreed with CMA)
- Kerala – Thiruvananthapuram (to be decided)

Status as on October 2019

MOHUA

- Developing a capacity building framework for urban transport in cities
- Developing framework for implementing Mobility as a Service (MaaS) for sustainable urban transport in Indian cities
- Assessment of training needs for electric buses, developing and conducting training of trainers (ToT) of the identified modules
- Knowledge partner for Urban Mobility India (UMI) conference (2018 and 2019)
- National and international exposure visits for peer-to-peer learning for cities and transport agencies
- Study on experiences and user perception on Public Bike Sharing (PBS) systems in selected five cities

ONGOING/PROPOSED ACTIVITIES

- City-wide parking policy and management strategy is being developed
- Based on our review of BDA’s Street Design Guidelines, design and pilot in a selected road
KOCHI

Integrated Planning Document for transportation projects in Fort Kochi – Mattancherry

A planning document that looks at integration of various modes, way finding measures, an NMT network and promotion of public transport and NMT is being prepared.

Launching of shared e-autos in Kochi:

• A detailed scoping study for a pilot of 20-40 e-autos with lithium-ion batteries in Kochi, including options for a viable business model, demand analysis, vehicle and battery type, cost estimates, supporting infrastructure etc. is being prepared.

• The pilot is intended to lead to upscaling to other parts of the city

Improving institutional capacities to plan and implement sustainable mobility projects in Kochi

A detailed institutional assessment is being initiated to understand the existing strengths and weaknesses of the various actors and organizations in the city and state level, in the mobility ecosystem. Based on the analyses, one or two key agencies at the city level will be taken up to support capacity development at various levels.

Other ongoing/proposed projects in Kerala and Thiruvananthapuram

• State-wide Campaign for Safer Public Transport for Women of Kerala to build awareness among local citizens of Kerala state regarding safety of women in public transport.

• Initiated a study on women and transport in Kerala – to understand the existing policies, institutional framework, guidelines, and the standard operating procedures with respect to women and proposing recommendations to enable safe and secure travel for women in public transport.

• Initiated route rationalization and city bus service improvement study for Trivandrum to promote restructuring in public transport as well as measures that make its use more attractive

• Support in the development of a comprehensive Electric Mobility Plan for Thiruvananthapuram to prepare the city for successful introduction and faster adoption of EVs. This will also help in developing a model template for wider applicability to other cities.

Redesign of the arterial road named ‘Sahodaran Ayyappan’ and its extension ‘Church Landing Road’

The primary objective of the project is to redesign the above as model roads, with high quality safe footpaths with utility ducts, streetlights, landscaping and creating public spaces, access to metro and buses, junction improvement, signage, street furniture, traffic calming elements etc. for encouraging more pedestrian movements.
NMT network plan:
Draft plan developed based on the methodology for a city-wide non-motorised transport (NMT) network plan developed and approved by city partners. Final network plan to be completed by November 2019

- Plan focuses on the improvement of cycling and pedestrian facilities at three scales: (i) city-wide cycling and pedestrian friendly roads (290 kms), (ii) core area cycling plan (90 kms), and (iii) improvement of pedestrian hotspots (29 nos.)

- Proposed cost of the NMT plan is about INR 1700 crores with an implementation period of 15 years.

- Tactical urbanism projects and pre-feasibility for 2 locations in the city for NMT improvement is being taken up.

Other ongoing/proposed projects:
- Support Tamil Nadu State Transport Corporation (TNSTC) in the preparation of route rationalisation plan for Coimbatore city to improve the city bus planning and operations and planning for e-buses. Capacity development on planning and operations of buses and e-buses is an integral part of this activity.

- Initiated a city-wide junction improvement plan and capacity building of engineers and planners

- An organizational assessment will be taken up to understand the strengths and weaknesses of the existing actors important for urban mobility in the city and capacity development measures will be developed to support them for better planning and project implementation.

- Road safety action plan for Coimbatore district, road safety audits on selected roads (up to five nos.) which has most fatalities and investigate reasons for accidents and propose measures. Trainings on road safety for engineers, planners, and traffic police on road safety

- Strategise and conduct city/district-wide campaign on road safety, safe schools, and road safety education

- Support in the preparation of a detailed project report (DPR) from the NMT plan to improve NMT facilities.