

### 24x7 Water Supply and Saint Inez Creek Rejuvenation

Country: INDIA City: PANAJI	Status: ON-GOING Application approved: 24 April 2018	Key Sector(s): 24/7 WATER SUPPLY, NON-REVENUE WATER REDUCTION, CREEK REJUVENATION AND YOUTH ENGAGEMENT
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PROPOSERS		Geography and Population
Imagine Panaji Smart City Development Ltd.  www.imaginepanaji.com	Mr. Swayan Chaudhuri, Managing Director & CEO 1 <sup>st</sup> Floor, Adil Shah Palace, Old Secretariat, Panaji – Goa 403001 Tel. +91 832 2220440	Area: 21 km <sup>2</sup> Metro area: 76 km <sup>2</sup> Population: 40,0000 Population of the metro area: 115,000
<b>Central State Partner</b> Ministry of Urban Development, Government of India	<b>Other Partners</b> Government of Goa	

**KEY CITY DEVELOPMENT ISSUES**

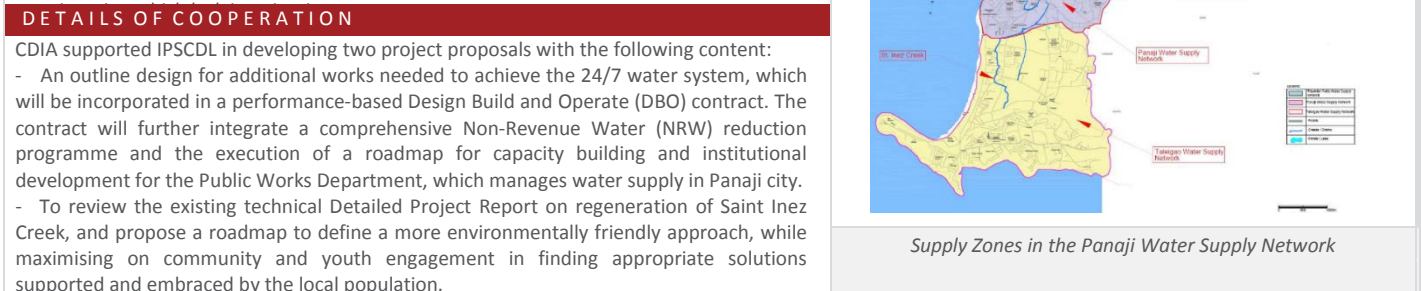
The City of Panaji was selected to be included in the Smart Cities Mission in 2016 with Imagine Panaji Smart City Development Ltd. being created as the Special Purpose Vehicle. Despite having a reasonable supply of good quality water, the city residents still only receive between one and seven hours of water supply per days depending on their location. The vision of the city includes the transformation to a fully operational and modern 24/7 system, which can be considered as a showcase example for both India and the region.

The Saint Inez creek is a tidal water body which winds its way through the centre of Panaji. In former times the water was clean and was used by city residents for recreation. However, it has fallen into a state of decline (poorly designed highway widening project at the mouth of the creek, wastewater discharges, siltation at certain locations and vegetation). A report titled “Hydraulic and Environmental Regeneration of Santa Inez Creek” has been developed, but the solutions presented are hard “concrete-based”

**DETAILS OF COOPERATION**

CDIA supported IPSCDL in developing two project proposals with the following content:

- An outline design for additional works needed to achieve the 24/7 water system, which will be incorporated in a performance-based Design Build and Operate (DBO) contract. The contract will further integrate a comprehensive Non-Revenue Water (NRW) reduction programme and the execution of a roadmap for capacity building and institutional development for the Public Works Department, which manages water supply in Panaji city.
- To review the existing technical Detailed Project Report on regeneration of Saint Inez Creek, and propose a roadmap to define a more environmentally friendly approach, while maximising on community and youth engagement in finding appropriate solutions supported and embraced by the local population.



**EXPECTED DEVELOPMENTAL IMPACTS**

The proposed project will lead to the provision of water on a 24/7 basis throughout the CCP which itself will lead to significant social development benefits including: Household coping costs will be reduced as the need to store and re-pump water is removed; Water quality will improve by eliminating the dangers of intermittent supply with consequent improvements in public health; The provision of 24/7 water, if accompanied by appropriate public information programs, will result in an improved public appreciation of the service and a greater willingness to pay higher tariff. The rejuvenation of the Saint Inez Creek will improve the ability of the city’s infrastructure to cope with climate change impacts, specifically by enhancing features as permeability, microclimate regulation and biodiversity and ecosystem functions. Furthermore, the proposed interventions will lead to greater social awareness and education and commercial development of the targeted area will positively impact social aspects of city life.

Bridge 7, to be redesigned

Plan sketch of creek short-cut

<b>PROJECT PERIOD</b>	September 2018 – April 2019	<b>EXPECTED INVESTMENT FOLLOW UP</b>	
<b>CDIA SUPPORT</b>	US\$ 600,000	Est. infrastructure investment value	US\$ 20 million
<b>CITY CONTRIBUTION</b>	US\$ 120,000 (in kind)	Potential sources of financing	
		State Government	