

### Jalandhar Surface Water Supply System

Country: INDIA City: JALANDHAR	Status: COMPLETED Application approved: 16 Nov 2017	Key Sector(s): WATER SUPPLY
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#### PROPOSERS

Municipal Corporation Jalandhar	Dr. Basant Garg IAS Commissioner Municipal Corporation Jalandhar  Email: commissioner.mcj@gmail.com	<b>Geography and Population</b> Area: 110 km <sup>2</sup> Population: 873,000 Jalandhar is Punjab's third largest city. It is a major industrial centre specializing in the manufacture of sports equipment and is also home to numerous universities and colleges and serves as the district capital.
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<b>Central State Partner</b> Local Government Department, Government of Punjab.	<b>Other Partners</b>	
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#### KEY CITY DEVELOPMENT ISSUES

Water supply in Jalandhar is 100 per cent dependent on groundwater abstraction through a combination of municipality and private tube wells. The groundwater table is currently at a depth of 40 metres and is being lowered at a rate of approximately one metre per year. The Central Groundwater Board of India has declared the Jalandhar area a "dark zone" which means that the groundwater aquifer is already 85 per cent depleted and that continued abstraction is only permitted with a special license. It is clear that current abstraction volumes are far exceeding replenishment and that the situation will only get worse as the city grows and develops. Under these circumstances the only option for the city is to switch to surface water.

#### DETAILS OF COOPERATION

Although the only long-term sustainable choice of source is the perennial River Beas, located approximately 40 km to the north-west of the city, there are several factors which require in-depth analysis prior to proceeding including the meandering nature of the river and hence the difficulties associated with intake construction, the difficulties of constructing a pipeline to the proposed terminal reservoir in Jalandhar and social and environmental concerns with particular reference to the need to acquire land and the ongoing threat to the endangered Indus dolphins. The key outputs of the project include:

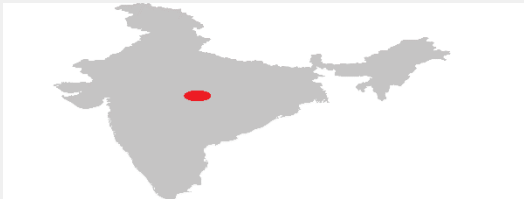
- An urban resilience strategy;
- The feasibility/preliminary engineering design of the water intake, pre-treatment facilities, raw water transmission main, water treatment plant, clear water transmission main, terminal reservoir, intra-city bulk water transfer mains and the associated ground level service reservoirs; and
- A road map for capacity building and institutional development of the Municipal Corporation Jalandhar divided into short, medium and long-term components.

#### EXPECTED DEVELOPMENTAL IMPACTS

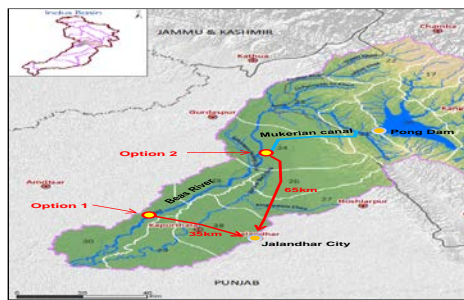
The project will benefit the entire population of Jalandhar as it will secure the future water supply to this economically important city in Punjab. Furthermore, the project is essential to avert an environmental disaster which is inevitable if the current long-term over-abstraction of groundwater continues. The project will significantly improve the city's urban resilience.

<b>PROJECT PERIOD</b>	Feb 2018 – Nov 2018	<b>EXPECTED INVESTMENT FOLLOW UP</b>	
<b>CDIA SUPPORT</b>	US\$ 650,000	Est. infrastructure investment value	US\$ 150 million

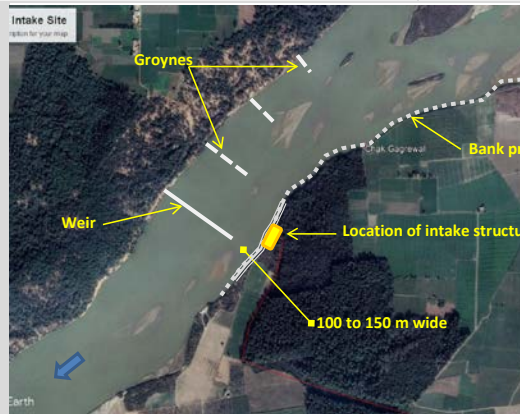
<b>CITY CONTRIBUTION</b>	US\$ 130,000 (in kind)	Potential sources of financing Asian Development Bank (ADB)	
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**Intervention Areas** Source of Maps: Wikipedia.org



Source Options



Intake Design