

KANH & SARASWATI RIVERFRONT DEVELOPMENT







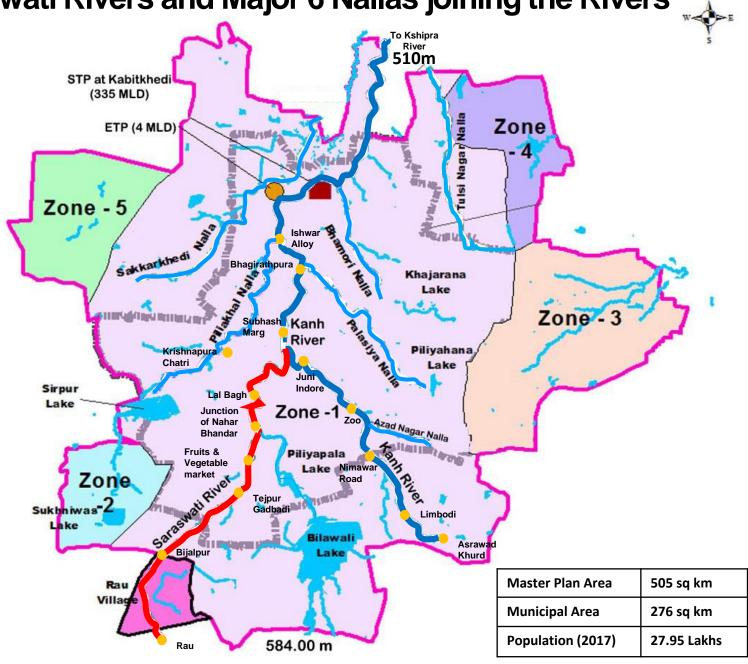
Kanh & Saraswati Rivers and Major 6 Nallas joining the Rivers

RIVERS IN CITY AREA

- Kanh River-27 km (Asarawad Khurd-Kshipra)
- 2. Sarswati River-12 km (Machla Ki Pahadi-Rau talab-Sanjay setu)

MAIN NALLAS

- 1. Bhamori Nalla- 9.05 km (Khajrana talab-Kabitkhedi)
- 2. Palasia Nalla- 8.32 km (Pipliyahana talab-Bhagirathapura)
- 3. Piliakhal Nalla- 11.30 km (Sirpur talab-hatipura)
- 4. Azad Nagar- 2.6 km (Virat Nagar-Madina Nagar)
- 5. Tulsi Nagar- 7.25 km (Scheme no. 134-Mangliya)
- 6. Sakkarkhedi Nalla- 11.73 km (Bijasan-Sakkarkhedi)



ACTION PLAN

- Trapping of Sewage outfalls in order to eliminate municipal sewers flowing into rivers
- Decentralized Wastewater Treatment Plants along the Rivers
- Removal of Encroachments along river banks
- Cleaning of Rivers from settled sludge / mud and municipal solid waste
- Plantation along river sides in outer areas
- Riverfront Development (Pilot Project) for 4 km

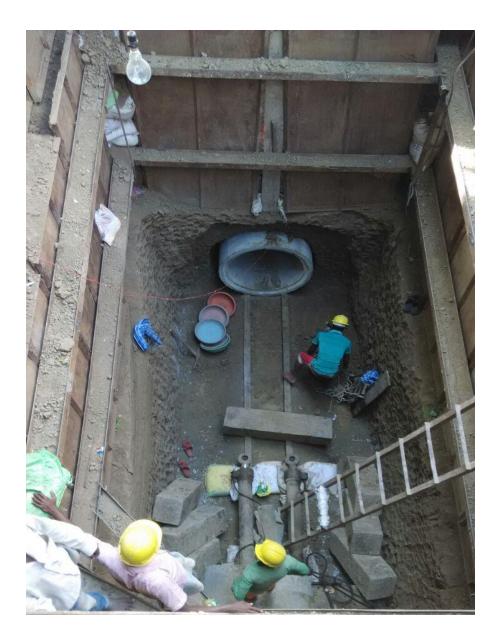
Laying of Sewer-lines by Trenchless Technology along River Banks for Trapping of Sewage flowing into the Rivers

Sewerage Works in progress (Convergence with IMC / JNNURM Funding)

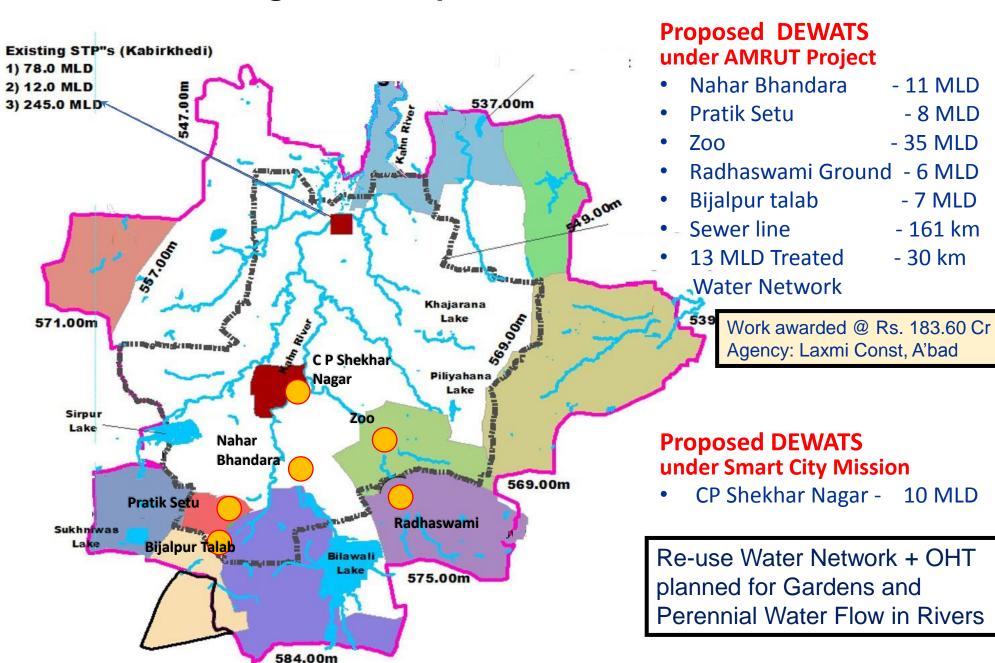
- Trapping sewers outfalls of Kanh & Saraswati Rivers and 6 Nallas
 - Total Length 74.5 Km
 - Sanctioned Amount Rs. 162.95 Cr
- Sewer Line Laid
 - Length 35 Km
 - Amount Spent Rs. 74 Cr

Sewerage Works Awarded (Convergence with AMRUT)

- Trapping sewers outfalls 3 Nallas and Laying of Sewerlines in Uncovered Areas
 - Total Length 114 Km
 - Sanctioned Amount Rs. 89.75 Cr
 - Agency: M/s N P Patel, Ahmedabad



Location of Existing STP & Proposed Decentralized STPs

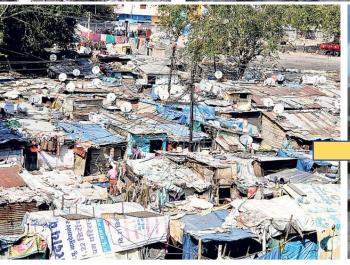


Clearance of Encroachments along River Banks











- More than 1300 slums rehabilitated from CP Shekhar Nagar to BSUP Housing Project.
- More than 300 slums rehabilitated from Shankar Bag, Tejpur Gadbadi, New Prakash Nagar, Chandrabhaga and other areas to BSUP Housing Project.

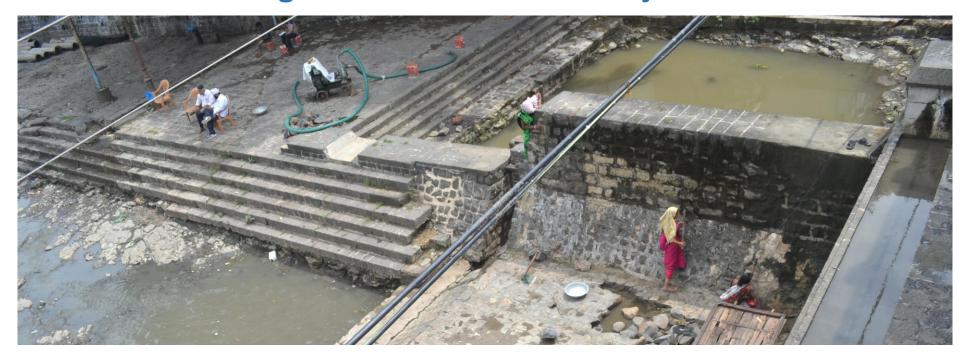
Desilting of River Bed / Ghat Rejuvenation







Desilting of River Bed / Ghat Rejuvenation



- More than 9 Poclain and Other Machines are deployed for 10-12 hours per day and spending more than Rs. 2 Lakh / day for desilting / desludging.
- Around 2.5 km river length is completed in last 3 months by spending around Rs. 2 Crore.
- Total amount required for the complete river cleaning is estimated as Rs. 200 Crore.

Clearance of Dumped Wastes supported by Effective Implementation of Door-to-Door Collection System









Plantation with Fencing on both sides of the Rivers







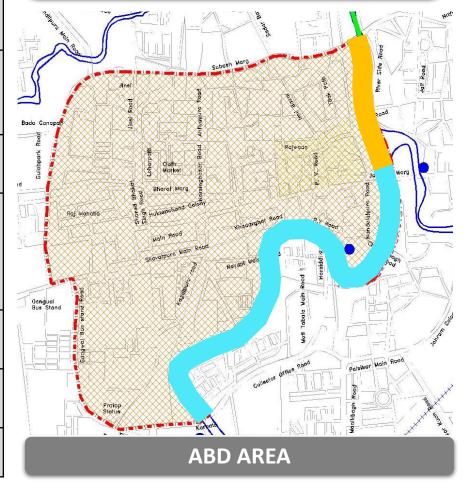


Location: MR-10

RIVERFRONT DEVELOPMENT IN SMART CITY PROJECT

SECTION	Cost (Rs. Crore)	STATUS	AGENCY
Subhash Marg Bridge	3.57	Work in	Vijay Pratap
to MG Road Bridge		Progress	Sharma
MG Road Bridge to	21.32	Work in	S K Sodani
Jawahar Marg Bridge	21.02	Progress	o it oodaiii
Jawahar Marg Bridge		Bids	
to Chandrabhaga	17.58	Received	
Bridge			
Chandrabhaga Bridge	4.36	Work in	Sanjay Vyas
to Harsiddhi Bridge (I)	1.00	Progress	Carriay vyao
Harsiddhi Bridge (I) to			
Harsiddhi Bridge (II)	7.37	DPR	
Harsiddhi Bridge (II)		Prepared	
to Gangour Bridge			
Gangour Bridge to	8.26	DPR	
Jairam Bridge		Prepared	
Jairam Bridge to Lal	10.81	DPR	
Bagh Bridge		Prepared	
TOTAL	73.27		

TOTAL STRETCH IN ABD AREA = 3.9 Km
SARASWATI RIVER - 3.4 Km
KANH RIVER - 0.5 Km



SCOPE & OBJECTIVES

- > Create city-level green recreational space along the river which will strengthen the green & blue harmony and will revitalize the riverfront.
- ➤ Develop formal parks with terracing and attractive landscaping, seating areas, kids' play areas with support facilities like parking, toilet block, etc.
- Rehabilitate existing informal fruits & vegetable shops to an on-site formal market and existing slums to a well-equipped affordable housing project.
- > Proper lining of river banks and dredging of river bed to improve water flow.
- > Facilitate construction of Master Plan Road to ease traffic movement.
- Establish decentralized sewage treatment plant to prevent sewage flow into the river and improve water quality

COMPONENTS

- Riverbed dredging and lining
- Promenade development
- Landscaping / Garden development
- Recreational Spaces and Children's play areas
- Redevelopment of vegetable & fruit market
- Public conveniences (parking, toilets, etc.)
- DP Road 24 m wide & Bridge
- Integration of existing temples, Ashram etc.
- Illumination & Signages
- STP-10 MLD







CHALLENGES/DIFFICULTIES ENCOUNTERED

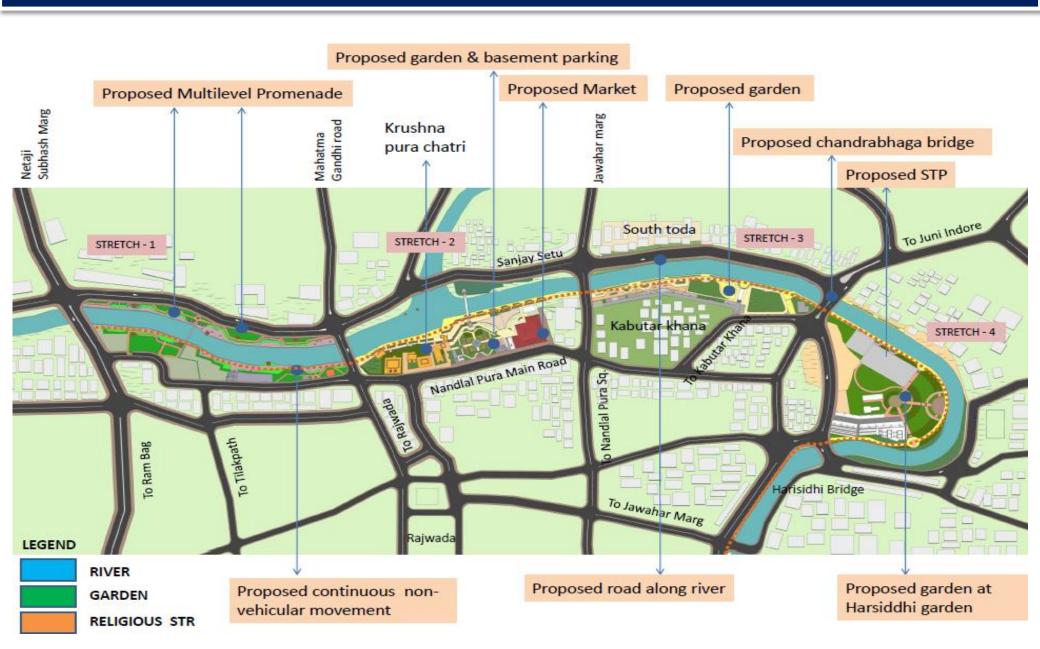
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PROJECT BENEFITS / IMPACTS

- Clearance of encroachment
- Cleaning of water and riverbed
- Ground water recharge
- Creation of city-level recreational space

- Efficient rainwater discharge
- Reduction in BOD of River water
- Environmental improvement
- Visual improvement of the areas

PHASE 1 (MASTER PLAN)



SUBHASH MARG BRIDGE TO MG ROAD BRIDGE



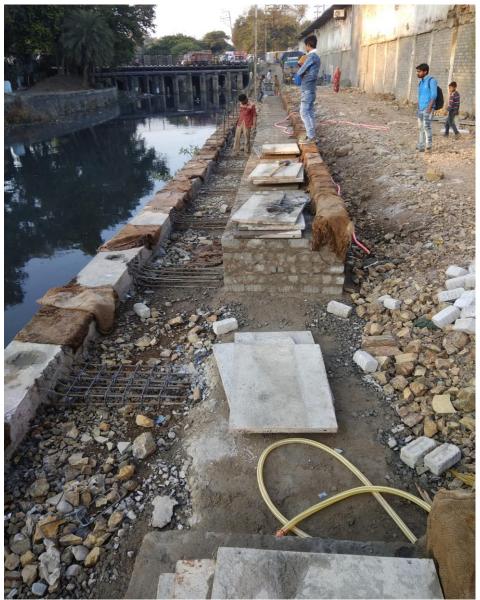


PRESENT VIEW

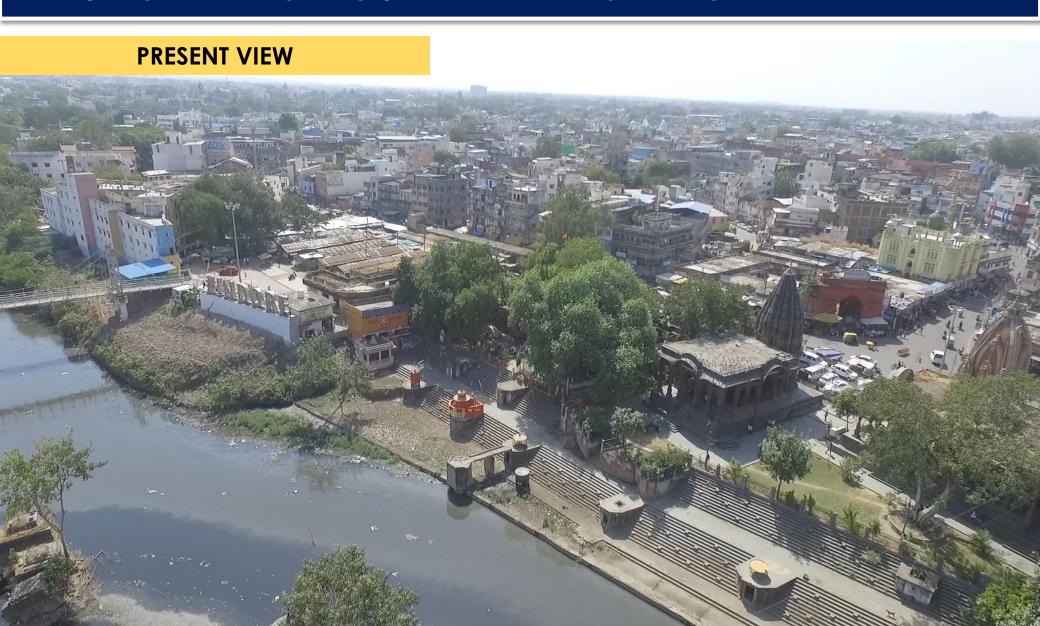
PROPOSED VIEW

SUBHASH MARG BRIDGE TO MG ROAD BRIDGE

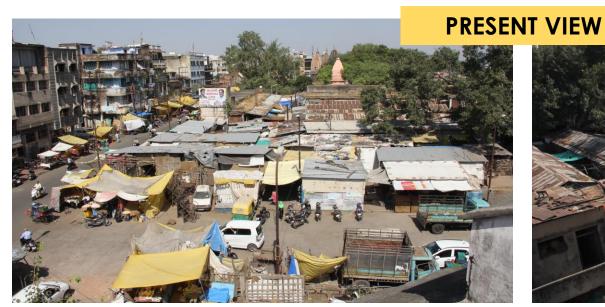




MG ROAD BRIDGE TO JAWAHAR MARG BRIDGE



MG ROAD BRIDGE TO JAWAHAR MARG BRIDGE







CHANDRABHAGA BRIDGE TO HARSIDDHI BRIDGE



CHANDRABHAGA **B**RIDGE **T**O **H**ARSIDDHI **B**RIDGE







Political Guidance / Support for the Rejuvenation of Rivers







Thank you