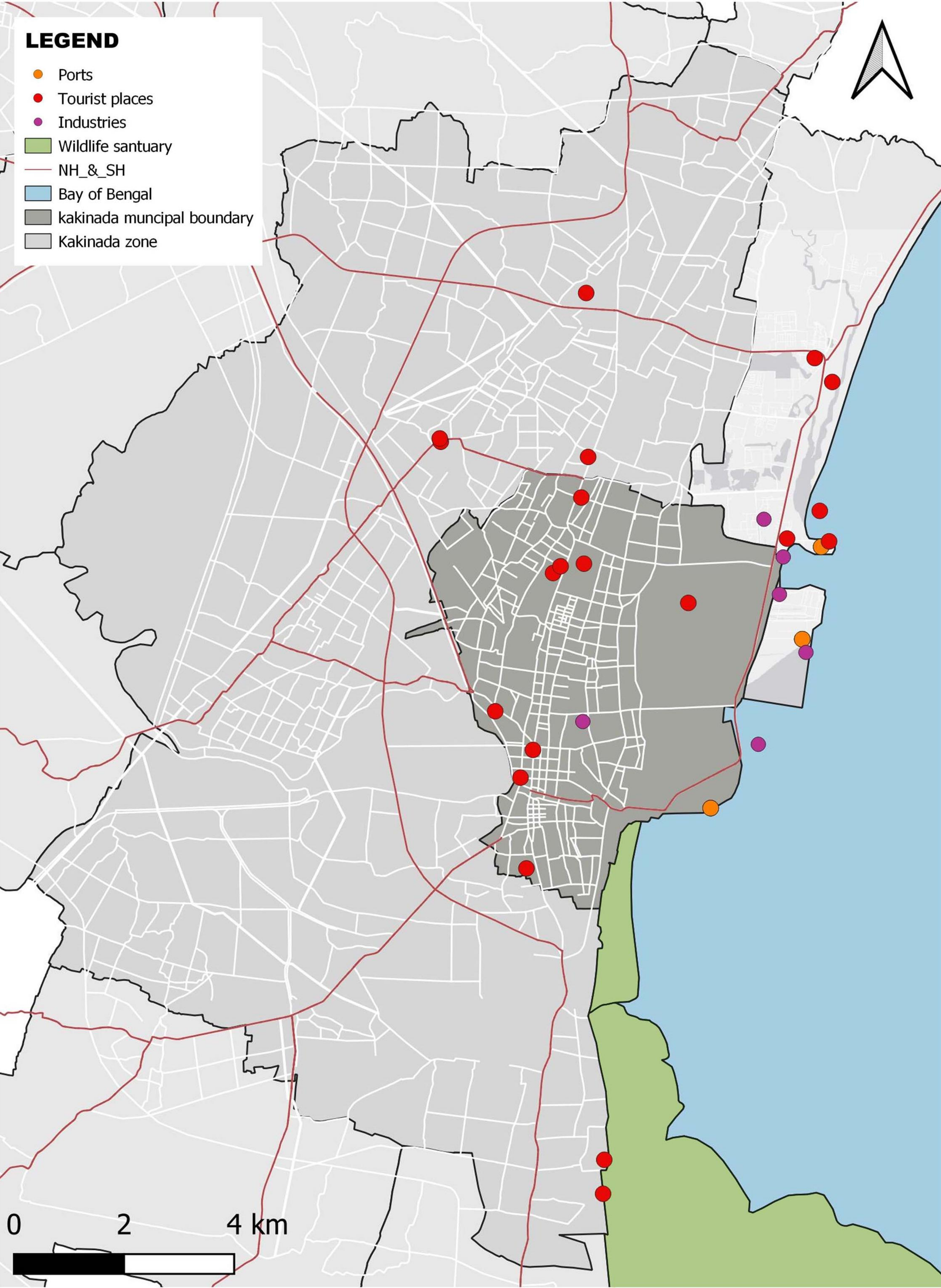


MAIN ECONOMY DRIVERS OF KAKINADA



Kakinada being a district headquarter offers variety of jobs to its citizens. Government sector jobs are predominant in the city, while it also offers industrial jobs, tourism, fishing etc.

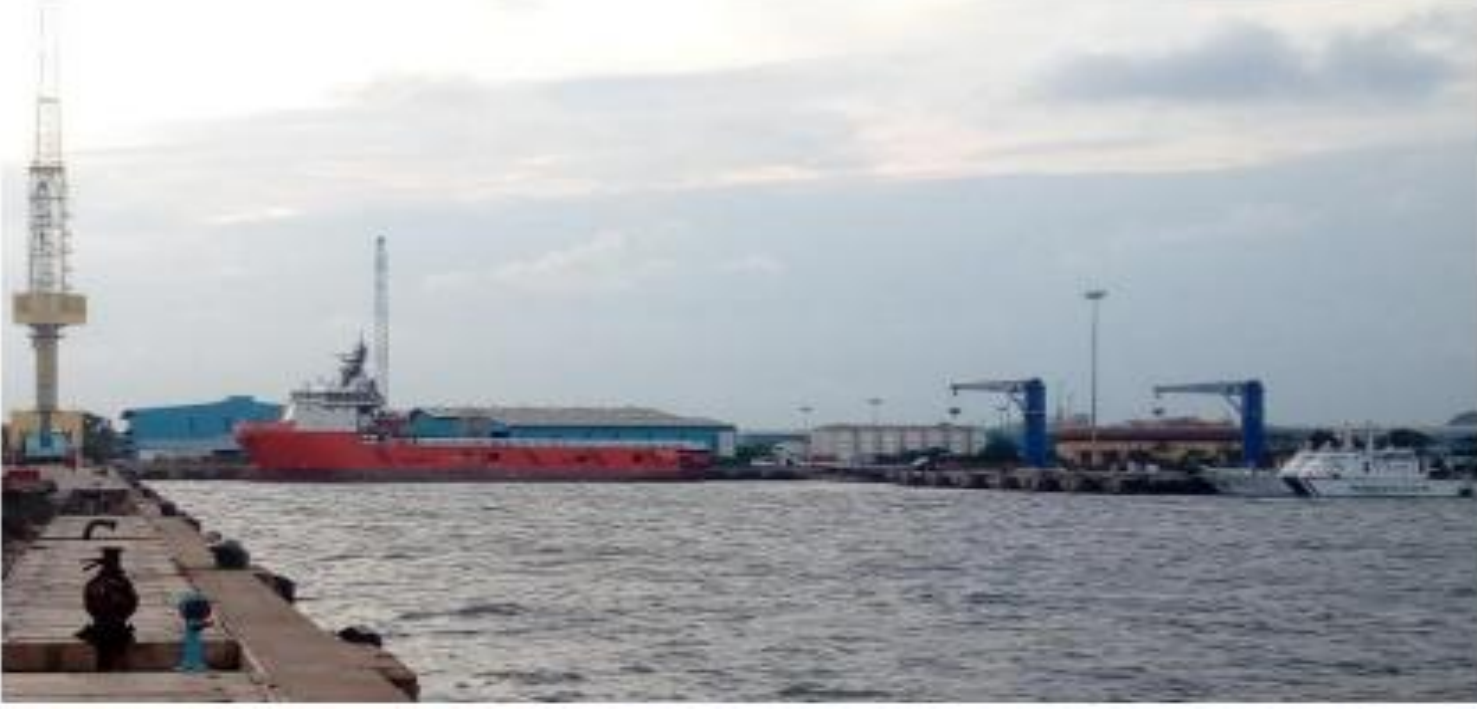
INDUSTRIES

- Major fertilizer industries are located in proximity of Kakinada port area. In addition, there are Industrial Parks, Several automobile and iron/steel ancillary industries.
- Kakinada is base for Oil and Natural Gas Corporation (ONGC) eastern offshore asset. Reliance industries has established a major Onshore Gas Terminal.



PORTS

- There are two operating ports. One is deep-water port and anchorage port.
- The deep-water port is the main gateway for rich agriculture belt of East Godavari, West Godavari and Krishna districts of Andhra Pradesh. The anchorage port operated by Department of Ports, GoAP.



TOURISM

- The tourism sector in and around Kakinada is primarily a religious tourism and nature tourism. Places like Kakinada beach, Corringa WLS, and several temples/churches are major tourist attractions.



ECONOMIC INDICATOR



per capita income in Rs.(2004-2005)
→ 37712



urban poverty ratio(% of urban population)
→ 4.64

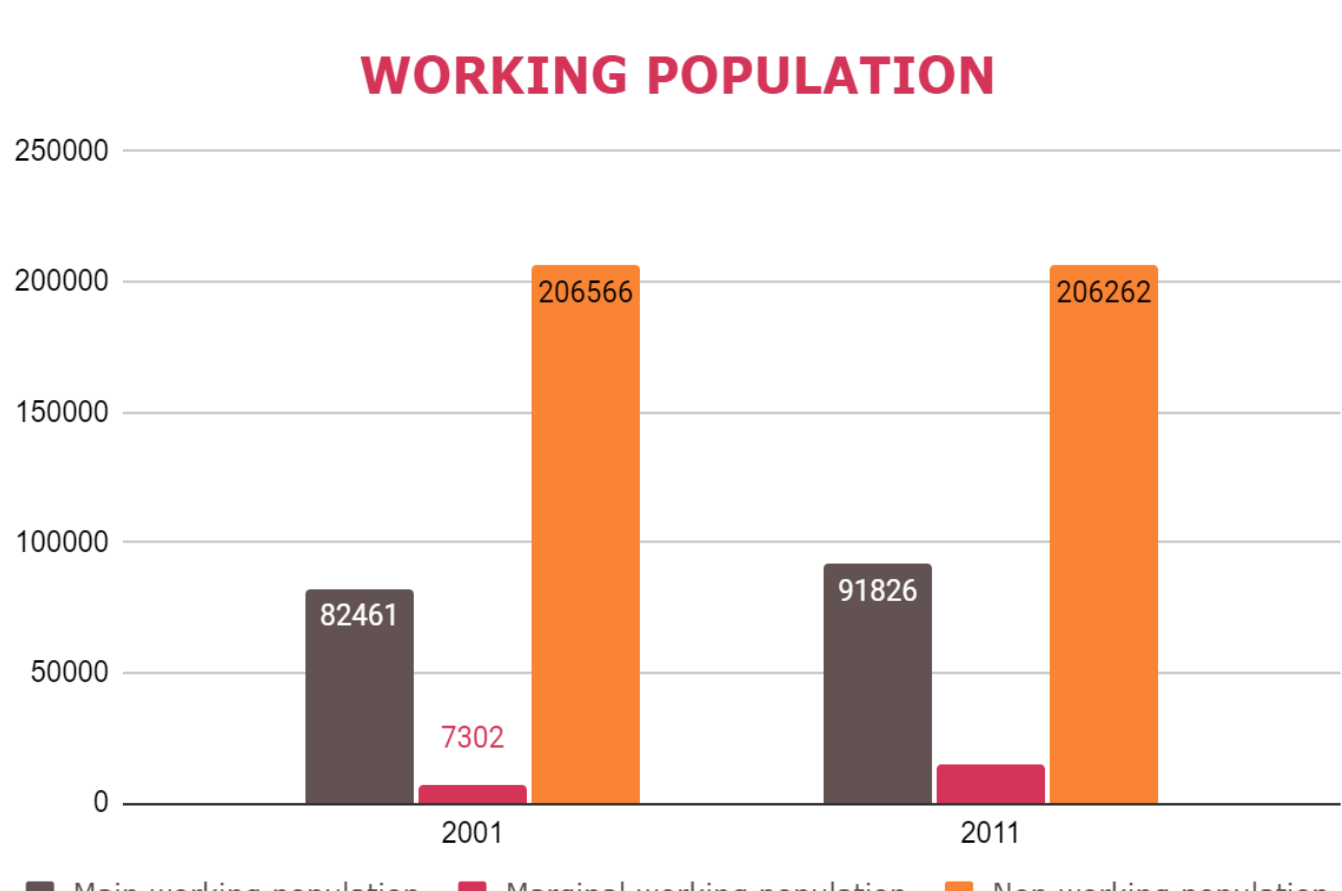
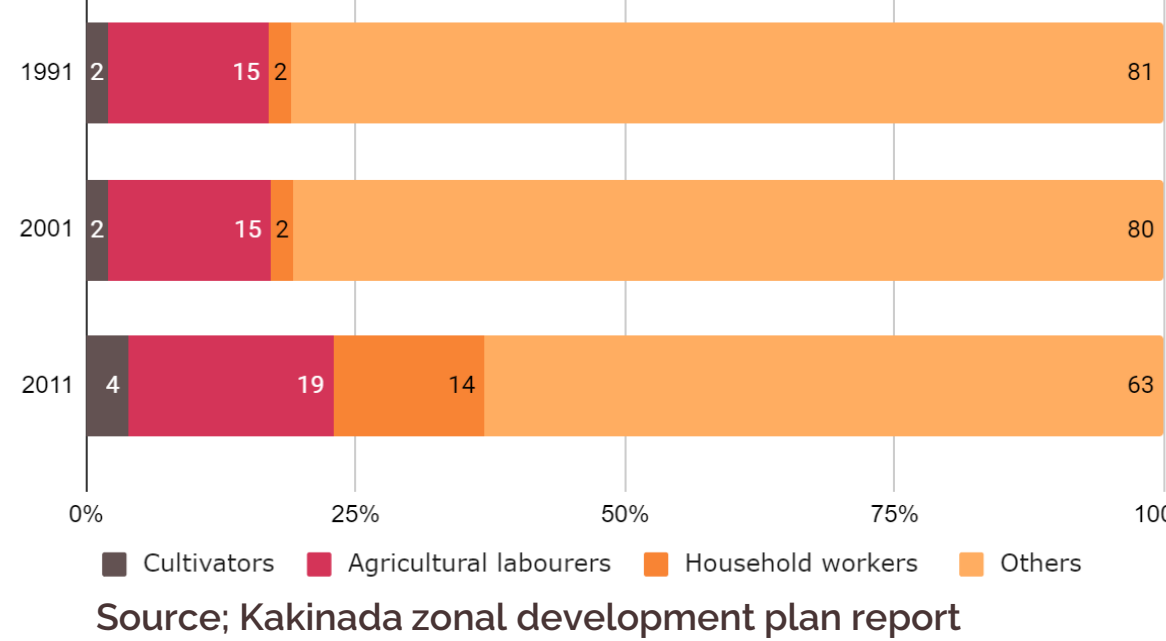
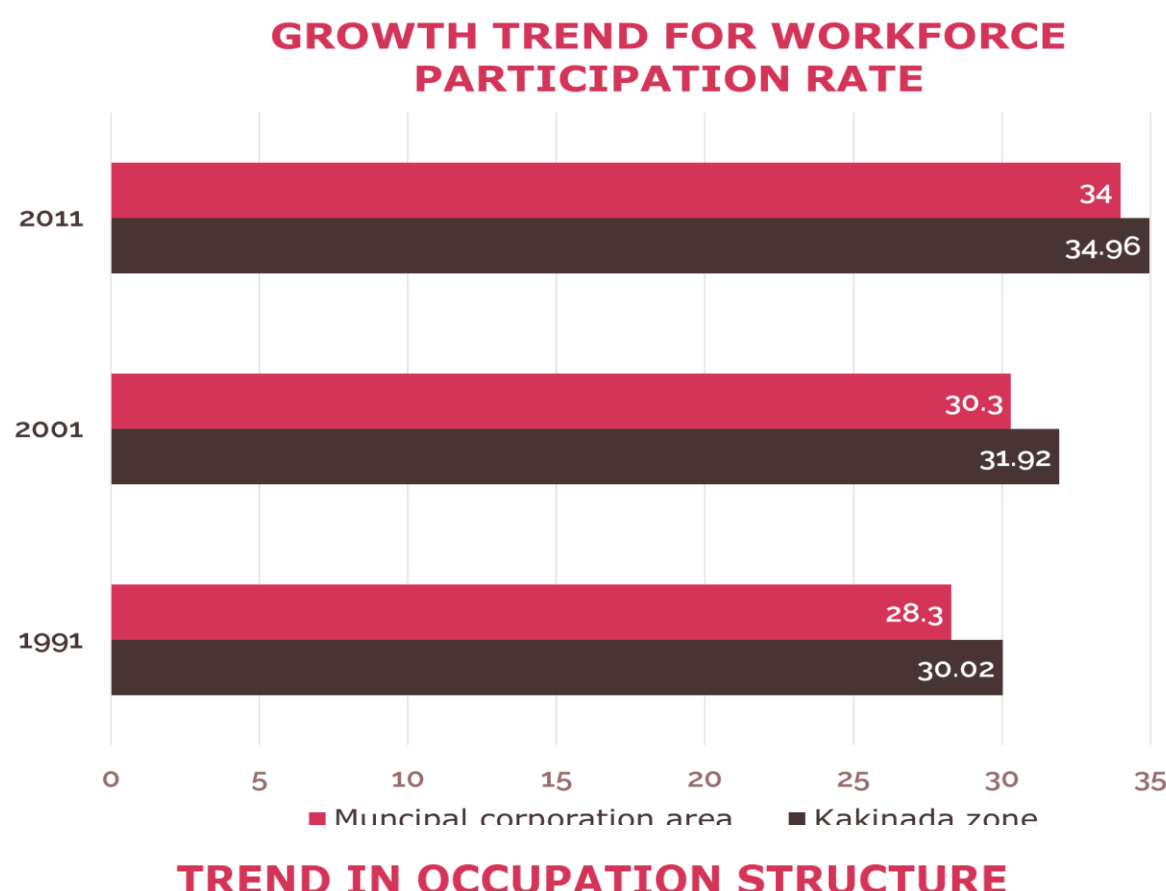
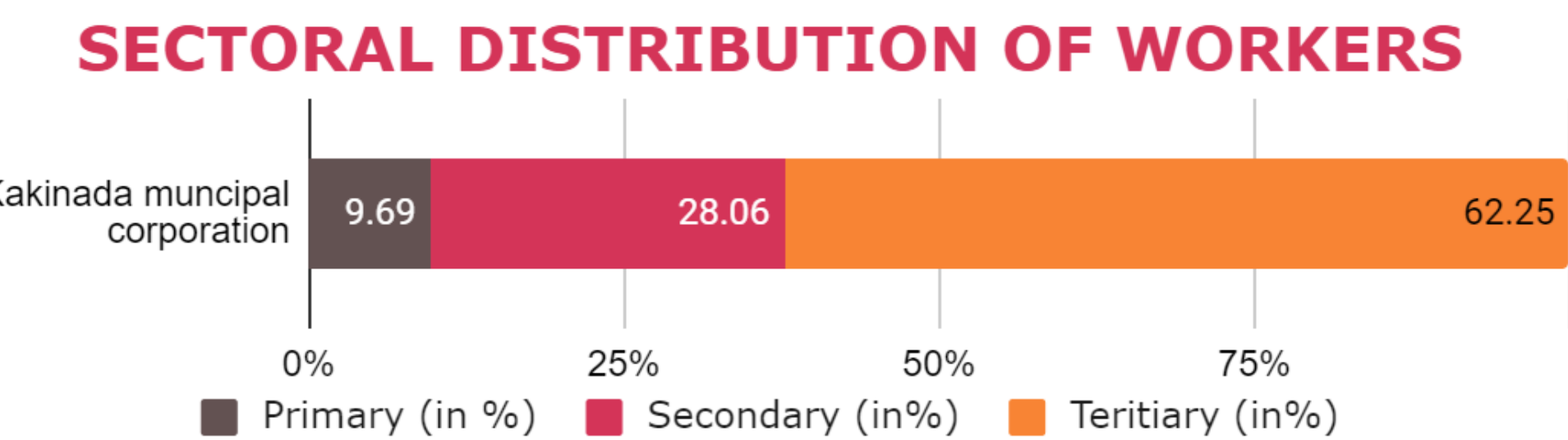
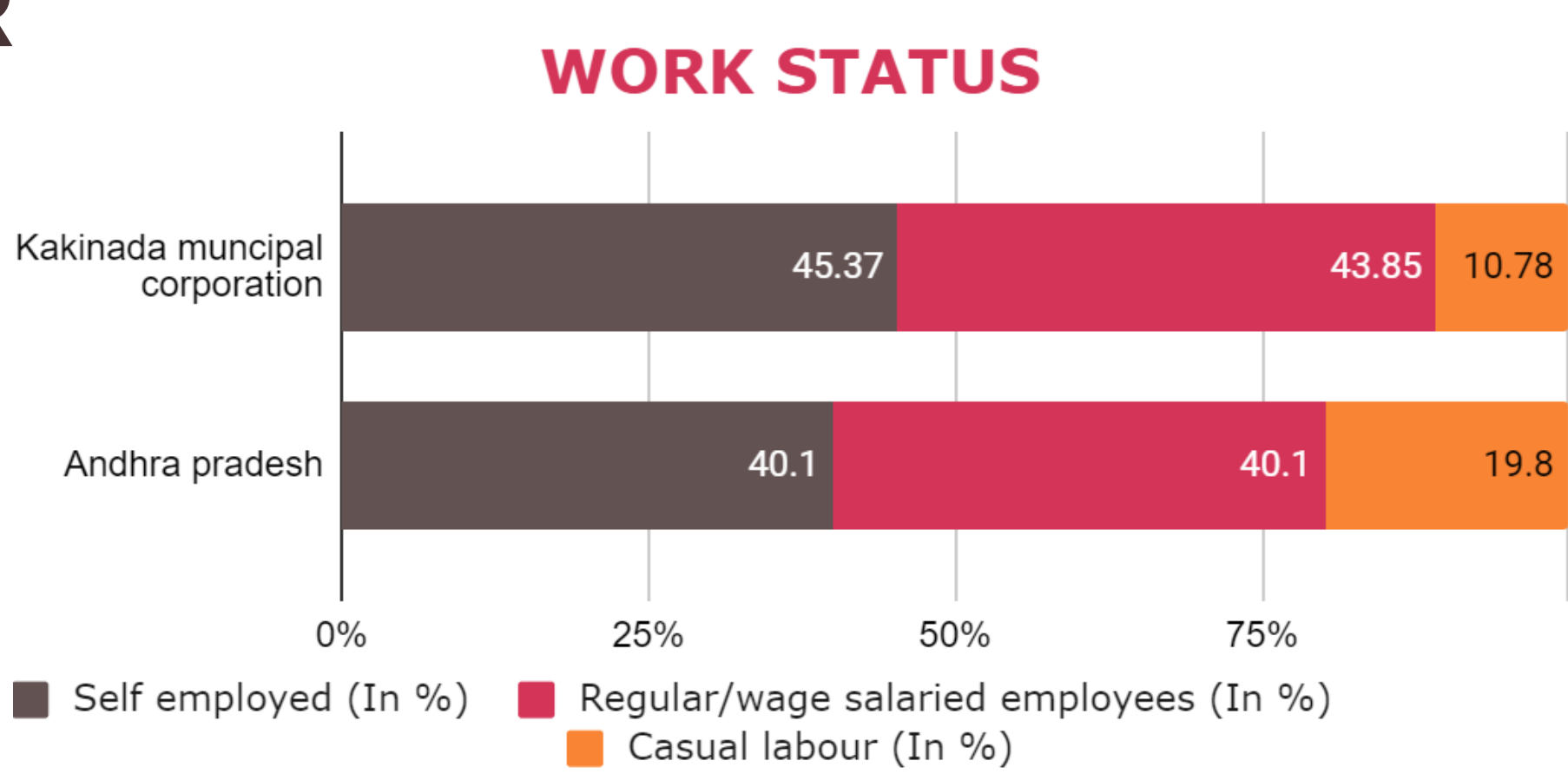


urban unemployment rate(2011-2012)
→ 4.94



work participation rate(2011-2012)
→ 37.07

Source: Kakinada smart city profile



- Total working population = main working population + marginal working population
- IN 2001 – 82461+7302 = 89763
- IN 2011 – 91826+14450 = 106276

INFLUENCIAL PROJECTS THAT LED TO ECONOMIC DEVELOPMENT

PROJECT	THEME	FOCUS SECTOR	IMPACT AREA	INFLUENCE
VCIC	Covers 800 km of Andhra Pradesh coastline – stimulates economic activity by increasing connectivity.	Chemical & Petro-chemical, Metallurgy, Textiles, Food processing, Pharmaceutical, Automobiles & Electronics	Kakinada Node: Kakinada port cluster and Rajahmundry airport are focus areas.	Industrial output expected to rise \$295 billion USD through VCIC
SAGARMAL A	Port led development.	Coastal community development, Port connectivity, Port Modernization & Industrialization.	Kakinada Port	Potential to boost India's GDP by 2% and Food processing cluster proposed at Kakinada improves economy.
VK-PCPIR	One of the five Petroleum, Chemical, Petrochemical Investment Regions (PCPIRs) planned to be promoted in India	Petro-chemical, Food processing & Power generation	Kakinada zone – covers 23% in VK-PCPIR zone	Catalyst to position Andhra as largest Petrochemical Hub of India
SEZS	The goal of Kakinada SEZ is to attract foreign investment	industries like oil refineries, power plants, garments and machinery deep-water port for importing and exporting petroleum, biotech, agricultural and other products	located about 15 KM North of Kakinada deep water port in East Godavari District	The Kakinada special economic zone (KSEZ) will soon have an exclusive Rs 2,000-crore deep-water port for importing and exporting petroleum, biotech, agricultural and other products.

SLUMS IN KMC REGION

Nearly 38% of total urban population live in the slums. A total 101 slum pockets were identify in the KMC

PARAMETERS	STATISTICS
Population ULB 2011	312253
HH 2011	82603
No of slums	101
Notified slums	67
Non- notified slums	34
Slum population	118789
Notified slum population	78228
Slum HH	25921
Share of slum population in the urban area	38%

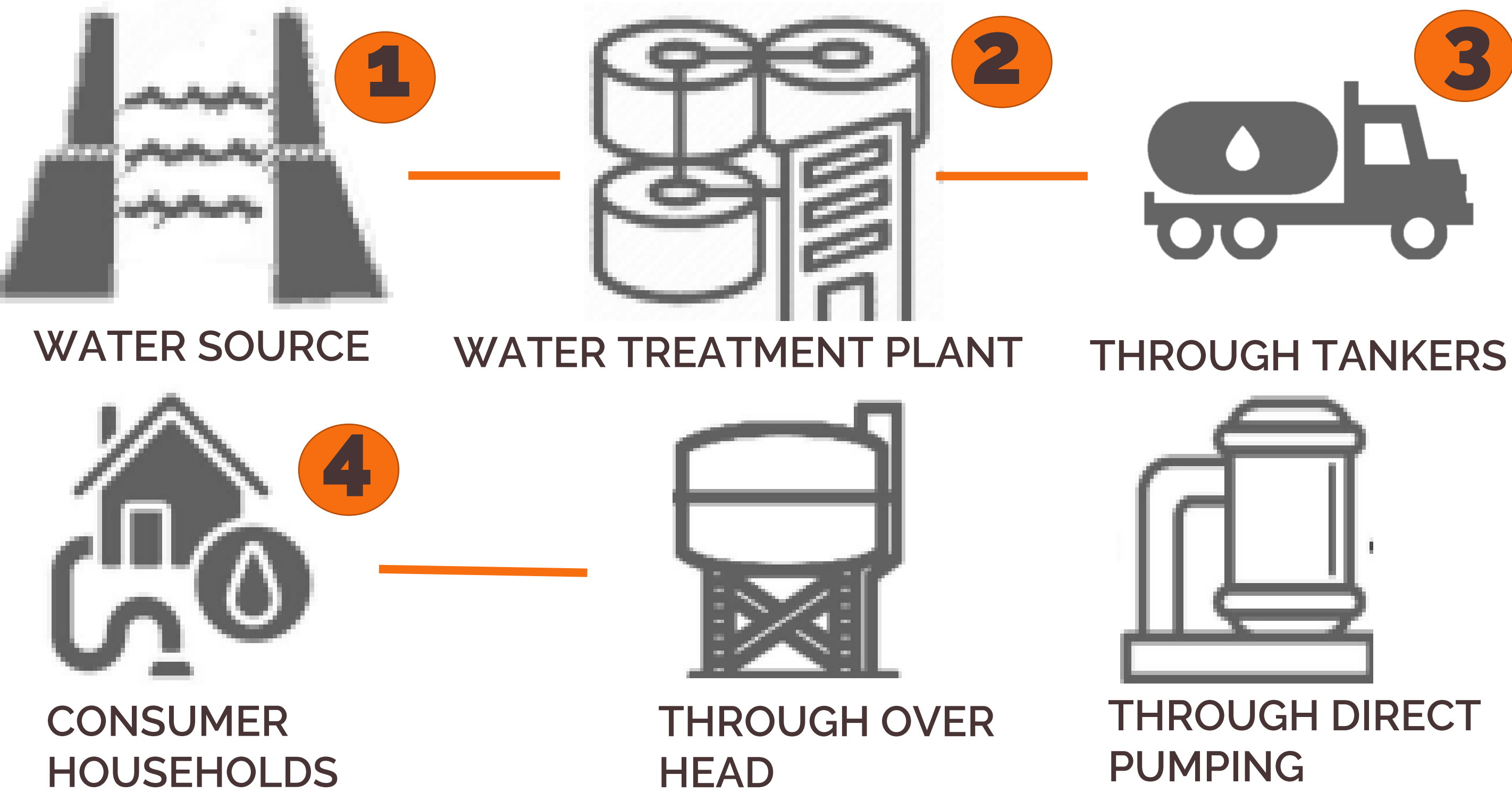
Several housing schemes are outline by the Gol to eligible beneficiaries for providing housing.

CATEGORY	SCHEMES	KMC
COMPLETED PROJECTS	NTRRH (GoAP)	0
	PMAY- NTR (G) Gol & GoAP	0
	PMAY- NTR (U) - BLC Gol & GoAP	157
	Pre NTR (IAY) - Gol & GoAP	0
	Pre NTR (other than IAY) - GoAP	469
	IHSDP	3120
ONGOING PROJECTS	RAY 2014	243
	PMAY-NTR-AHP(URBAN) by APTIDCO	7978
Total		11967



PHYSICAL INFRASTRUCTURE

WATER SUPPLY INFRASTRUCTURE



We have 2 source of water supply

- I. Maharshi Bulusu Samba Murthy reservoir – capacity of 863 millilitres
- II. Aratlakatta reservoir – capacity of 1582 millilitres

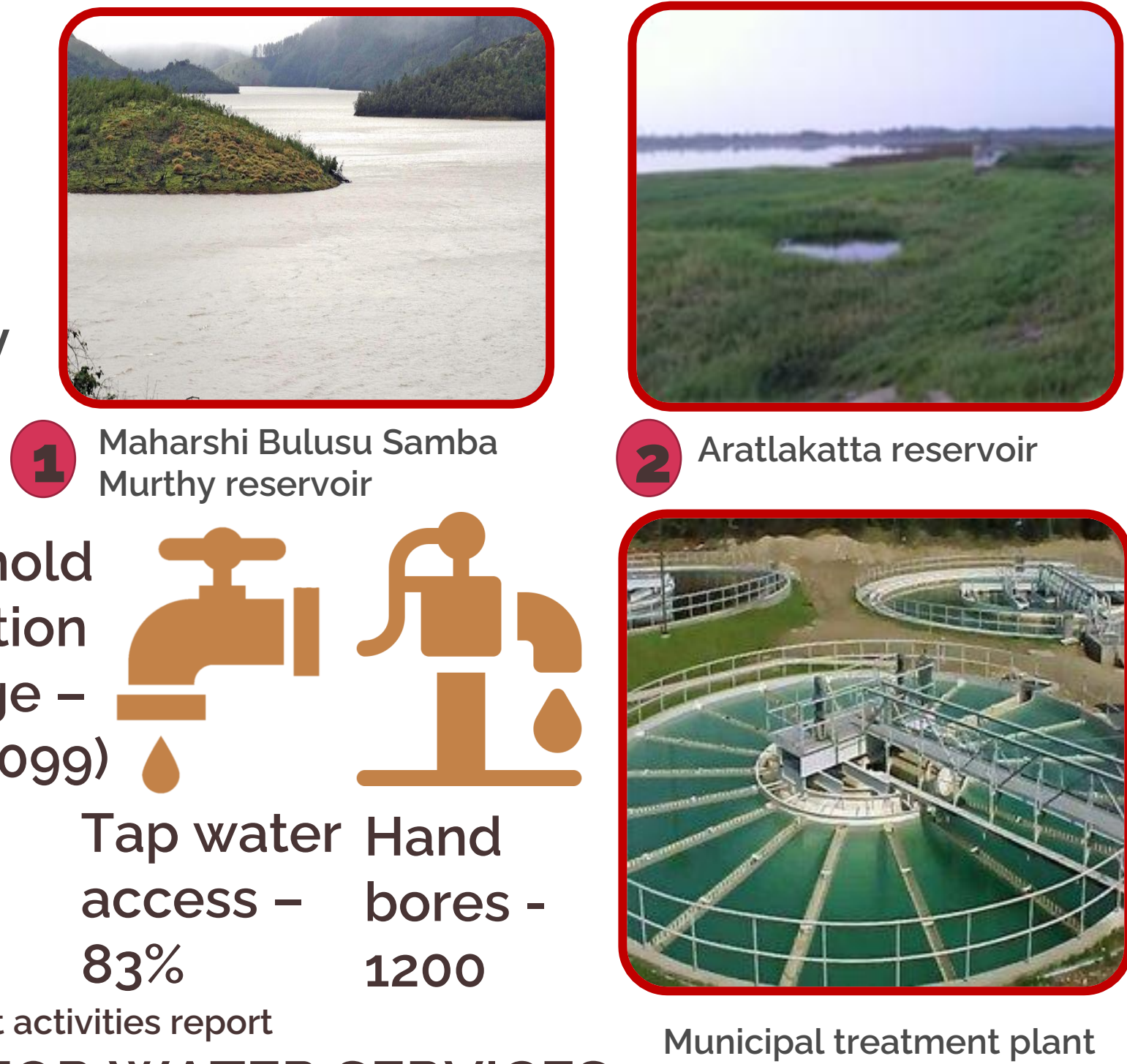
Length of pipe line – 300 KM

➤ Average duration of supply is 3 hours per day

House hold connection coverage – 90% (74099)

Tap water access – 83%

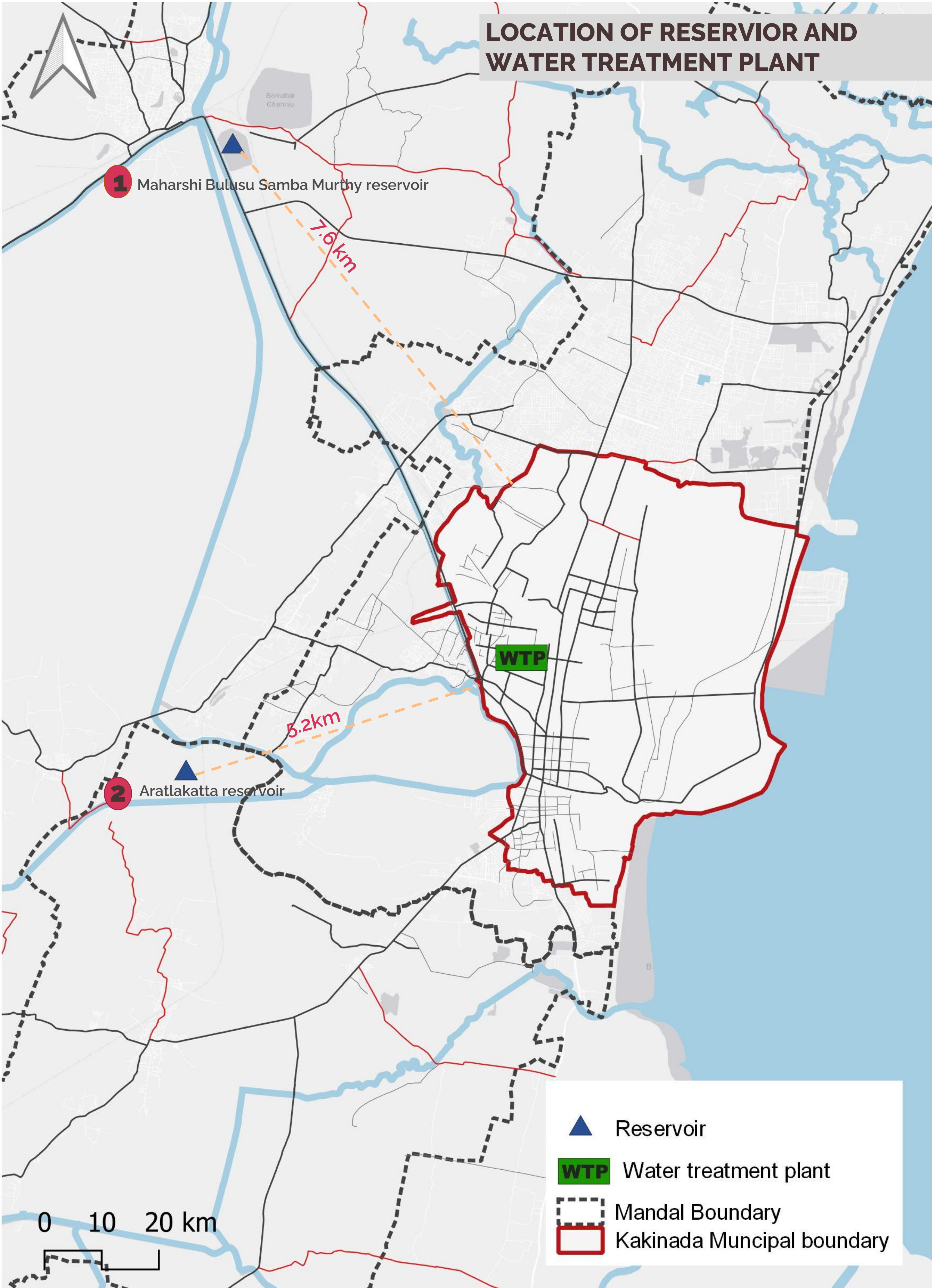
Hand bores - 1200



Source : city sanitation plan – Kakinada, KMC development activities report

INSTITUTIONAL ARRANGEMENTS FOR WATER SERVICES

URBAN SERVICES	INSTITUTION IN CHARGE OF PLANNING	INSTITUTION IN CHARGE OF IMPLEMENTATION	INSTITUTION IN CHARGE OF O&M	INSTITUTION IN CHARGE OF COLLECTING USER CHARGE
Water supply	Superintending engineer	KMC	KMC	KMC



Source : GUDA perspective plan, city sanitation plan - Kakinada

YEAR	POPULATION	WATER PER CAPITA IN A CITY	WATER SUPPLY CALCULATION	WATER SUPPLY IN LPCD	WATER SUPPLY IN MLD
2011	312538	107 LPCD	Pop*per capita = 312538*107	33441566	33.44

YEAR	POPULATION	WATER PER CAPITA AS PER CPHEEO	WATER DEMAND CALCULATION	WATER DEMAND IN LPCD	WATER DEMAND IN MLD
2011	312538	135 LPCD	Pop*per capita = 312538*135	42192630	42.19

DEFICIT/GAP = WATER DEMAND - WATER SUPPLY 42192630 - 33441566 = 8751064 LPCD
Source : census, CPHEEO 42.19 - 33.44 = 8.75 MLD

TWO major water schemes IN KMC

1.Andhra Pradesh Municipal Development Scheme (APMDP) in 2011

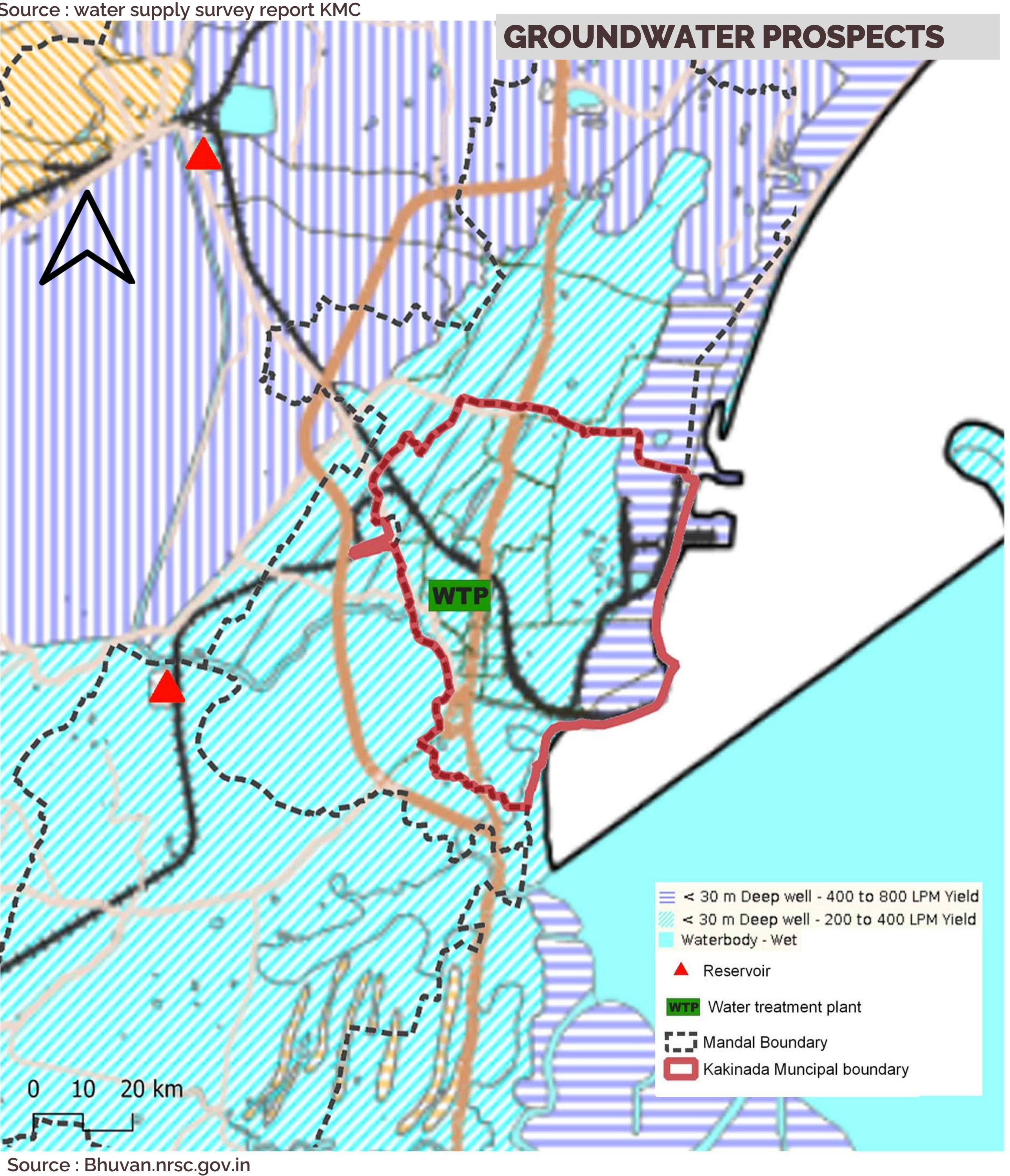
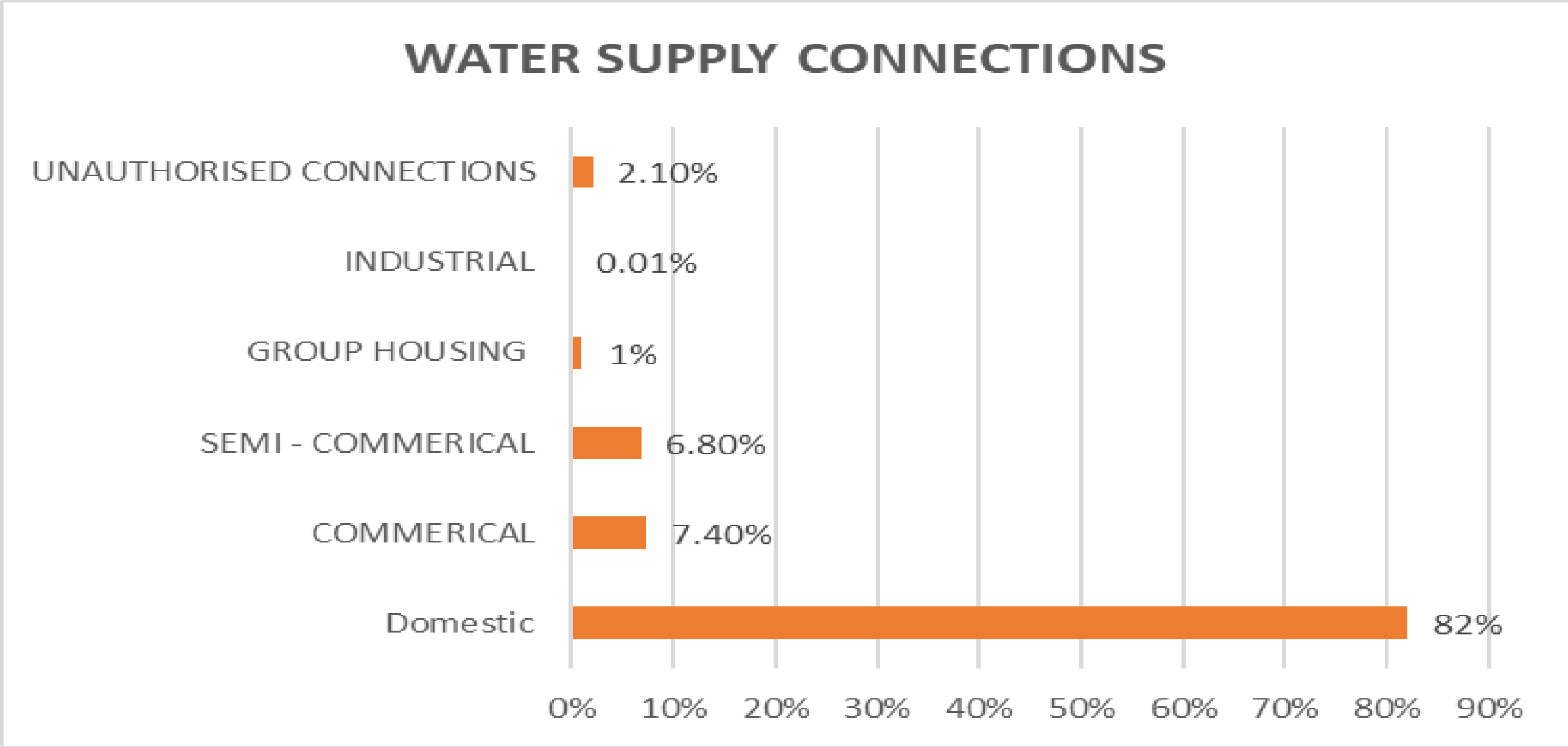
2.Atal Mission for Rejuvenation and Urban Transformation (AMRUT) in 2016.)

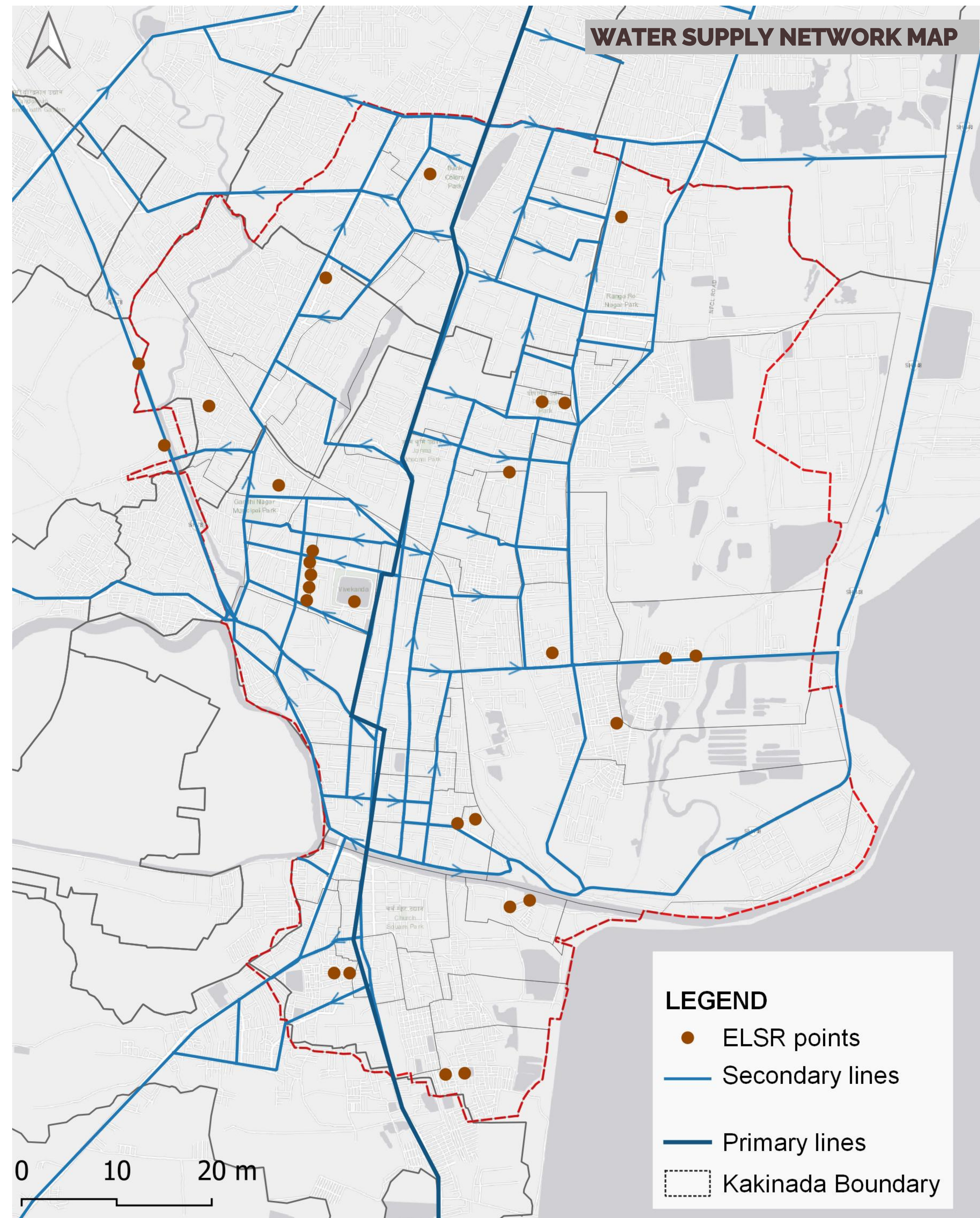
INDICATOR	BENCHMARK LEVEL	PRESENT LEVEL
Coverage of water supply connections	100%	90%
Per capita supply of water	135 LPCD	107 LPCD
Continuity of water supply	24 HOURS	3HOURS
Quality of water supplied	100%	65%
Efficiency in collection of water supply-related charges	90%	75%

- Main issues of Water Supply:
- Land acquisition and alienation of 184.00 Acres is pending for construction of summer storage tank
 - Metering of all domestic house service connections.
 - Implementation of 24/7 water supply with smart water meters with performance based water management from source to consumers.

- PROPOSED ACTION PLAN
- Improvement to the existing water supply by installing latest equipment.
 - Installation of smart meters & power meters along with one additional summer storage tank.
 - Provision of supervisory control and data acquisition system Introduction of smart billing and collection system

SECTORS	ONE TIME CONNECTION CHARGE	MONTHLY TRAIFF
DOMESTIC	6000 (General), 200 (BPL)	100
COMMERICAL	12500	300
INDUSTRIAL	25000	500





Criteria used for water supply network :

- Source of water supply
- Road hierarchy
- Slope
- Location of the elevated service reservoir (ELSR)
- Alignment of canals

NO. OF ELSR - 28

SECTORS	ONE TIME CONNECTION CHARGE	MONTHLY TRAFF
DOMESTIC	6000 (General), 200 (BPL)	100
COMMERICAL	12500	300
INDUSTRIAL	25000	500

Source : city sanitation plan - Kakinada

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Main issues of Water Supply:

- Land acquisition and alienation of 184.00 Acres is pending for construction of summer storage tank
- No metering of all domestic house service connections.
- No implementation of 24/7 water supply with smart water meters with performance based water management from source to consumers.

The water works namely 'Victoria Water Works of the town were commissioned in 1909. It slowly developed into a supply system having nearly 12000 domestic taps, 2000 street posts, which run with water for 2 to 3 hours in a day. The system is catered through 6 elevated surface reservoirs (ELSR) and a treat plant of capacity of 4.7 MGPD (million gallons per day) which works round the clock.



Victoria Water Works
Source : Evaluation of water supply of Kakinada town 1999-2000

PROPOSED ACTION PLAN

- Improvement to the existing water supply by installing latest equipment.
- Installation of smart meters & power meters along with one additional summer storage tank and 24/7 water supply.
- Provision of supervisory control and data acquisition system Introduction of smart billing and collection system

Source : GUDA perspective plan