

Smart City Mission THANJAVUR

TN-04-TJR





















Smart City Proposal THANJAVUR









Annexure 2

Feature .	Definition	to each feature	Basis for assessment and/or quantitative indicator (Optional only if data exists)	Projection of 'where the city wants to be' with regard to the feature/indicator based on the city vision and strategic blueprint	Input/Initiative that would move the city from its currer status to Advanced status (Scenario 4: Column G)
1 Citizen participation	A smart city constantly shapes and changes course of its strategies incorporating views of its citizen to bring maximum benefit for all. (Guideline 3.1.6)	select stakeholders. The findings are compiled	 To address infrastructure complained district wide, "Manuneethionline Thanjavur.com" (online petition management system) is being used. Online Grievance Redressal System implemented in Thanjavur Municipal Corporation. The District collector conducts Grievance day on every Monday. Commissioner is receives petition every day. SMS (9489694890) complaint Center has been formed by the corporation within office premises. 	The city wants to involve the citizens in every decision making process for every developmental work.	Proposal for e-governance and Smart Urban Services, which includes:- • City mobile based/ web based app • Citizen Engagement module • Dashboard & MIS • Central Command & Control Center • Sewa Kendra (Citizen Centers)
2 Identity and culture	A Smart City has a unique identity, which distinguishes it from all other cities, based on some key aspect: its location or climate; its leading industry, its cultural heritage, its local culture or cuisine, or other factors. This identity allows an easy answer to the question why in this city and not somewhere else? A Smart City celebrates and promotes its unique identity and culture. (Guideline 3.1.7)	preserved and utilised as anchors of the city. Historical and cultural resources are enahnced through various mediums of expression. Public spaces, open spaces, amenities and public buildings reflect local identity and are widely used by the public through festivals, events and activities. (Scenario 4)	 In last three years, Thanjavur have received around 56lakhs tourists per year. Rich architectural and cultural heritage since it was ruled by mighty Chola Kings, Thanjavur Nayaks and Marathas Home to UNESCO World Heritage Sites- Brihadeswara Temple and Airavateswara Temple (in Thanjavur district); ASI sites-Rajagopal Cannon, Schwartz Church, Sivaganga Little Fort. Thanjavur has about 80 temples belonging to Chola dynasty in and around the city Many indigenous art and craft forms- Thanjavur dolls, Thanjavur metal plate, Thanjavur paintings, Thanjavur silk sarees, Thanjavur Veena & other musical instruments (Tambura, flute or Kuzhal), Classical Dance, Folkdance (Dummy Horse Dance), Carnatic Music 	Involve community in tourism development. The City wants to enhance its identity of being called the 'Cultural Capital of Tamil Nadu'. Reinforce local economies (indigenous art and craftforms) and improve livelihood avenues through diversification of tourism activities (Agrotourism, Sericulture tour, Heritage Walk, etc.) Tapping potential of commercializing the local handicrafts through e-commerce portal	Proposal for tourism hub to promote the indigenous arts, crafts and rich history. Proposal to enhance the city identity by- rejuvenation of moat, Kulam, diversification of yourism activities by introducing heritage walk, sericulture tour and agro tourism. Proposal to develop an integrated database for the promotion and enhancement of tourism.
3 Economy and employment	A smart city has a robust and resilient economic base and growth strategy that creates large scale employment and increases opportunities for the majority of its citizens. (Guideline 2.6 & 3.1.7 & 6.2)	for many sections of the population. The city attemps to integrate informal economic activities with formal parts of the city and its	Tertiary sector as its economic base; about 32% of total population and 92% of total workforce is engaged in tertiary sector Share of tertiary sector income (for Thanjavur district) in GSDP grew from 65.18% for 2004-05 to 72.66% for 2010-11	and effective marketing of rice production. • Our focus is to increase the tourist footfall (especially foreign tourists who have high spending capacity) and their	Walk, etc.) • Promote, enhance and develop talent to preserve the indigenous art and craftforms (through converged
4 Education	A Smart City offers schooling and educational opportunities for all children in the city (Guideline 2.5.10)	City provides adequate primary and secondary education facilities within easily reachable distance for most residential areas of the city. Education facilities are regularly assessed through - databases of schools including number of students, attendance, teacher - student ratio, facilities available and other factors. (Scenario 3)	Currently, the city has adequate number of educational institutes according to the benchmark service level. The city has 2 Universities, 2 research centers, 14 government schools, 4 engineering college, 4 arts and science college, 3 nursing college and 2 medical college in the city.	City will provide adequate and high-quality education facilities within easily reachable distance of 10 minutes walking for all the residential areas of the city and provide multiple options of connecting with specialized teaching and multimedia enabled education. Education facilities are regularly assessed through database of schools including number of students, attendance, teacher-student ratio, facilities available andother factors. (Scenario 4)	ICT based solutions will add technology edge to learning process.
5 Health	A Smart City provides access to healthcare for all its citizens. (Guideline 2.5.10)	City provides adequate health facilities within easily reachable distance for all the residential areas and job centers of the city. It has an emergency response system that connects with ambulance services. (Scenario 3)	The city has 6 government hospitals, 79 healthcare and clinics facilities, 7 dispensaries, 6 maternity hospitals, 101 pharmacy and medical shops.	City provides adequate health facilities at easily accessible distance and individual health monitoring systems for elderly and vulnerable citizens who are directly connected to hospitals to prevent emergency health risks and to acquire specialized health advice with maximum convenience. The city is able to foresee likely potential diseases and develop response systems and preventive care.	
6 Mixed use	A Smart City has different kinds of land uses in the same places; such as offices, housing, and shops, clustered together. (Guidelines 3.1.2 and 3.1.2)	In some parts of the city, there is a mixture of land uses that would allow someone to live, work, and shop in close proximity. However, in most areas, there are only small retail stores with basic supplies near housing. Most residents must drive or use public transportation to access a shop for food and basic daily needs. Land use rules support segretating housing, retail, and office uses, but exceptions are made when requested. (Scenario 2)	ThoughThanjavur allows for mixed use, overtime, the city has gotten segmented into niche areas, forcing people to commute, increasing average trip length, putting pressure on the infrastructure, reducing the speed impacting the quality of life.	Every part of the city has a mix of uses. Everyone lives within a 15-minute trip of office buildings, markets and shops, and even some industrial uses. Land use rules require or encourage developers to incorporate a mixture of uses in their projects.	Develop the adjoining land along the moat as mixed use with small commercial establishments like eateries, souvenir shops etc. for a stretch of 3km (25.6 Acres) and also along South rampart road (6.7 Acres) to make city more compact and increasing walkability.

r. Feature	Definition	Self-assessment for the full city with regard to each feature	Basis for assessment and/or quantitative indicator (Optional only if data exists)	Projection of 'where the city wants to be' with regard to the feature/indicator based on the city vision and strategic blueprint	Input/Initiative that would move the city from its curren status to Advanced status (Scenario 4: Column G)
7 Compact	A Smart City encourages development to be compact and dense, where buildings are located close to one another and are ideally within a 10-minute walk of public transportation, forming concentrated neighborhoods. (Guidelines 2.3 and 5.2)	people can walk easily from building to building	While some of the wards at the periphery have density less	Densify urban areas to prevent advancement on fertile agricultural land by arresting sprawling expansion and leap-frog development • Densify the urban areas for optimal utilization of the proposed smart infrastructure • Focus growth on transit nodes and corridors by preparing local development plans (Master Plans, Layout Plans) • Conserve, protect and enhance built environment (by leveraging TDR and FSI increase to re-configure congested areas and densify low-density areas)	Develop mixed land use neighborhoods/ zones Rehabilitate slum households to make city slum-free Best in class, affordable social infrastructure (upgraded public healthcare and education facilities, quick and efficient emergency response systems)
8 Public open spaces	A Smart City has sufficient and usable public open spaces, many of which are green, that promote exercise and outdoor recreation for all age groups. Public open spaces of a range of sizes are dispersed throughout the City so all citizens can have access. (Guidelines 3.1.4 & 6.2)	some neighborhoods, but are not available in	Grossly inadequate area under open spaces, parks, playground measuring about 0.82% (0.3 sq km) Open space is 1.49 sq.m./person as against the URDPFI benchmark of 10-12 sq.m. per person Open space in built-up areas is 0.37 sq.m./person as against the National Building Code (NBC) benchmark of 3 sq.m./person	The city wants to provide adequate open spaces to the citizens which is equal to or more than the prescribed level of 10-12 sq.m./person.	Innovative use of the mandatory green buffer (as per ASI 100m prohibited area around heritage structure) at Sevapanayakanvari Keelkarai, by making it open for public and serve as a breathing space in the core of the city, facilitate with all street furniture, street lights, cycle track and pedestrian walkways etc. Rejuvenate Kulams, moat, canals and waterways
9 Housing and inclusiveness	A Smart City has sufficient housing for all income groups and promotes integration among social groups. (Guidelines 3.1.2)	is highly segregated across income levels.	 Only 49.3% of HHs are owned indicating that there is shortage of affordable housing stock. As per 2011 census, about, 21,401 persons live in 35 no of slums, which results into around 9.6% of total population residing in slums. 	Create adequate affordable housing stock to rehabilitate slum dwellers and provide better living conditions to the locals and the artisans engaged in indigenous handicrafts	Rehabilitation of the slums at Sevappanayakanvari with 1,730 HH and slum along the moat (94HH) on governmen land In-situ slum rehabilitation of remaining 4 slum pockets (with 335HH) by the ULB providing access to quality infrastructure and better living conditions
10 Transport	automobile to get around; distances are short, buildings are	transport covers most areas of the city.	Presently, 302.4 km of road network available. Overall road density at - 8 km / sq.km Public transportation corridor length- 115 km About 113 no of buses were increased in last three years	It is proposed that the city shall have an integrated transportation system with improved public transportation.	Provide mixed-use smart multi-level four wheeler and two wheeler parking in Thiruvaiyaru bus stand. Augment road infrastructure
11 Walkable	A Smart City's roads are designed equally for pedestrians, cyclists and vehicles; and road safety and sidewalks are paramount to street design. Traffic signals are sufficient and traffic rules are enforced. Shops, restaurants, building entrances and trees line the sidewalk to encourage walking and there is ample lighting so the pedestrian feels safe day and night. (Guidelines 3.1.3 & 6.2)	Older areas of the city see a mix of pedestrians, cyclists, and vehicles but newer areas are focused mainly on the automobile. In the new areas, there are few pavements and main entrances to new buildings are not accesible from the front of the street. large driveways or parking lots often separating them from the street, and sometimes are enclosed by gates. In these areas, traffic signals are disobeyed. (Scenario 2)	% of non-motorized transport network coverage— 0.2 % About 21% of roads have footpath and streetlights	The city wants to improve walkability in the city with adequate infrastructure like street furniture. The city also wants to reduce dependence on motorized vehicles and promote use of non-motorized modes like cycling and walking.	 23 km of cycle track and redesign 27 kms of road to provide footpaths. Pedestrian friendly pathways and public transportation lane all along the moat length (2.9km approx.) Introduce public bicycle sharing service at all the major tourist spots with sufficient and efficient infrastructure for the cyclists. 13 no.s of bicycle sharing stations. Procuring and promoting use of e- vehicles
12 IT connectivity	A Smart City has a robust internet network allowing high-speed connections to all offices and dwellings as desired. (Guideline 6.2)	The city has made plans to provide high speed internet connectivity through the existing framework. (Scenario 2)	WIFI hotspot provided at big Temple with 4 access points Only 6.4% households have computers with internet	It is proposed that the city shall have highspeed wi-fi connectivity.	Citywide fiber optic cable network along the major roads providing first layer of IT connectivity for all smart solutions as well as wi-fi hotspots

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ICT-enabled 13 government services	A Smart City enables easy interaction (including through online and telephone services) with its citizens, eliminating delays and frustrations in interactions with government. (Guidelines 2.4.7 & 3.1.6 & 5.1.4 & 6.2)	and infrastructure for total digitalization is not in place. Service delays occur regularly in some sectors. Responses to citizen inquiries or complaints are often delayed. No integration between services and billing. (scenario 2)	About 300 Common Service Centers are functioning in Thanjavur which enable citizen to access government services. Thanjavur shares significant details with the citizens like audit details, voter's details, details for solid waste management services, water supply, sewerage, roads, details and citizen's benefit under different schemes, list of all public amenities available in the city Online citizen's services dashboard provides information like details about citizen's property tax, water charges, non-tax, birth details, death details, professional tax, building plan, movable and immovable assets, collection details etc.	The city wants to implement provision of online services, improve its grievance redressal system and enhance its interactive interface with the citizens.	Proposal for e- Governance & Smart Urban Services, which includes:- • City mobile based/ web based app • Citizen Engagement module • Dashboard & MIS • Central Command & Control Center • Sewa Kendra (Citizen Centers)
14 Energy supply	A Smart City has reliable, 24/7 electricity supply with no delays in requested hookups. (Guildeline 2.4)	Electricity supply and loads are managed as per demand and priority for various functions with clear scheduling, with electricity being available in many areas for most hours of the day. (Scenario 2)	 Total power supply is 82 MW Currently there is no outage The city has 55,208 nos. of domestic connections which is only 97% of the total HHs. 	The city wants to cover 100% HHs for electrification.	 TMC to install Solar Roof top panels on 24 buildings in ABD area. Out of which total capacity of 11 KVA panels are already installed on 3 buildings Bidirectional meters to be installed Installation of smart meters on all HH connections. LED street lights powered by solar panels are proposed which will work completely off grid
15 Energy source	A Smart City has at least 10% of its electricity generated by renewables. (Guideline 6.2)	Some energy consumed is the city is produced through renewable sources. There are long term targets for higher renewable energy capacities and the city is making plans to achieve these. (Scenario 3)	 Recently 100% battery backup facility is available and roof top solar power plan of 122.5 KW is implemented. The energy thus produced is connected to the grid which is only 0.15% 	It is proposed that the city shall generate 10% of the total power requirement through solar energy.	Bio-Methanation Plant 5MT capacity) is under construction at the existing dumpsite at Sreenivasapuram.
16 Water supply	A Smart City has a reliable, 24/7 supply of water that meets national and global health standards. (Guidelines 2.4 & 6.2)	The city has 24 x 7 water supply in most areas but the quality of water does not meet international health standards. Unaccounted water loss is less than 20%.	 The Existing source of water was Thirumanoor (Collroon River source) with capacity 28 MLD. The About 7 to 9 MLD of water is being drawn from bore wells located within Corporation Limits. The city at present has 135LPCD water supply. At present the water supplied to the municipality is 31 MLD. NRW is 37% 	The city wants to cover each and every HH for water supply through distribution network. The city also wants to reduce the NRW to permissible levels (<15%).	In order to curtail over usage of water and for reducing the Non-Revenue water, replacement of water supply existing tap connections with Flow control valves and Automated Water Metering to the HSCs and Pump main etc. will be introduced. New distribution lines will be laid for omitted areas and existing distribution line will be replaced.
17 Water management		not recycle waste water to meet its requirements and rain water harvesting is not prevalent. Flooding often occurs due to storm water run off. (Scenario 1)	The total length of Water Supply distribution pipeline laid in the City is 304.70kms. There are 17 elevated reservoirs and 1 ground level reservoir is existing in	The city wants to attain efficient water management.	Thanjavur City has a Capacity of 13.22 MLD. Under AMRUT. 7 elevated reservoirs has been proposed to a tota Capacity of 3.65 MLD. Provide SCADA system for monitoring the dedicated water supply scheme from head works to consumer level.
18 Waste water management	A Smart City treats all of its sewage to prevent the polluting of water bodies andn aquifers. (Guideline 2.4)	Most waste water is collected and treated before before disposal. However the treated water does not meet standards and is not recycled for secondary uses. (Scenario 2)	 About 66.36% HHs are connected to the sewerage system. The quantum of sewage treated is13 MLD. The collection efficiency of sewerage is 43%. Efficiency of sewerage treatment is 80% 	The city wants to provide 100% coverage of HHs. The city also wants to treat the entire sewage generated in the city to prevent pollution of the water bodies and aquifers. It wants to utilize the 100% treated water to recharge the moat.	
19 Air quality	A Smart City has air quality that always meets international safety standards. (Guideline 2.4.8)	City does not have plans, policies or programs to improve the air quality. Systems to monitor air quality are absent. (Scenario 1)		The city wants to encourage Walkability and discourage the use of private vehicles to cut down air pollution.	 23 km of cycle track and redesign 27 kms of road to provide footpaths. Pedestrian friendly pathways and public transportation lane all along the moat length Introduce public bicycle sharing service at all the major tourist spots with sufficient and efficient infrastructure for the cyclists. Battery operated vehicles at moat peripheries.
20 Energy efficiency	A Smart City government uses state-of the- art energy efficiency practices in buildings, street lights, and transit systems. (Guideline 6.2)	new buildings install energy effeciency systems	 Collectorate, corporation and school buildings have installed solar energy panels. The work for lighting in 19 parks in Thanjavur corporation limit relying on solar power has been sanctioned and work is ongoing. The alternative energy technology based gas fire is being used in the crematorium, run by corporation. 	The city wants to promote the use of state-ofthe- art energy efficiency practices in buildings, streetlights, and transit systems.	Solar Roof top panels on 24 buildings in the city. LED street lights powered by solar panels are proposed which will work completely off grid

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21 Underground electric wiring	A Smart City has an underground electric wiring system to reduce blackouts due to storms and eliminate unsightliness. (Guideline 6.2)	City does not have plans for underground electric wiring system. (Scenario 1)	City does not have underground electric wiring system.	The city wants to provide underground cabling for the entire city to enhance the city character.	Conversion of overhanging cables to underground service trunks, to improvise the aesthetics of the city.
22 Sanitation	A Smart City has no open defecation, and a full supply of toilets based on the population. (Guidelines 2.4.3 & 6.2)	city's population. (Scenario 2)	No. of HHs connected to piped sewerage system is 33.6% and those connected to septic tanks is 32.8%. 92% coverage of latrines.	It is proposed to attain 0% open defecation and 100% coverage of HHs connected to sewerage system.	Construction of public toilets and community toilets under Swachh Bharat Mission 232 smart dustbins and 21 drinking water fountains
Waste management	A Smart City has a waste management system that removes household and commercial garbage, and disposes of it in an environmentally and economically sound manner. (Guidelines 2.4.3 & 6.2)	Waste generated is usually collected but not segregated. Recycling is attempted by difficult to implement. (Scenario 2)	City generates 121 MT/day of solid waste Collection efficiency has increased up to 95% Door to door waste collection coverage increase up to 35% About 95% of work has been completed of Waste to Energy plant of capacity 5 MT and waste to compost project is in tender stage	The city wants achieve 100% collection of MSW and to recycle/reuse 100% of the waste. The city wants to implement all the 4Rs- reuse, recycle, reduce and renovate.	It is proposed to implement 100% door to door collection system RFID based operational management system at four levels IEC activities will be undertaken, to improve awareness amongst citizens
Safety and security	A Smart City has high levels of public safety, especially focused on women, children and the elderly; men and women of all ages feel safe on the streets at all hours. (Guideline 6.2)	The city has high levels of public safety - all citizens including women, children and the elderly feel secure in most parts of the city during most time in the day. (Scenario 3)	 About 53 nos. of CCTV cameras are installed for safety of the citizens and traffic regulations. About 12 nos. of CCTV cameras are installed inside the temple. Friends of Police have been formed. About 20 autos have been identified as tourist friendly auto for safety among the visiting foreign tourist. Contingent plan for natural calamities for the year of 2014-2015 has been prepared which includes plan for alerting, evacuation, accommodation of affected people. 	The city already has high level of public safety. It wants to enhance and extend its safety and security to all hours of the day.	Surveillance cameras will be installed at every important location such as public spaces, commercial areas, heritage sites and road junctions etc. 100 % coverage of street lights to reduce blind spots, thus achieving the goal of higher safety. 100% accessible zones for differently abled person.



Smart City Proposal THANJAVUR

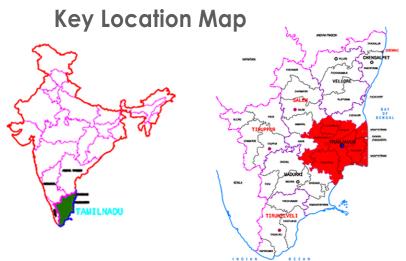




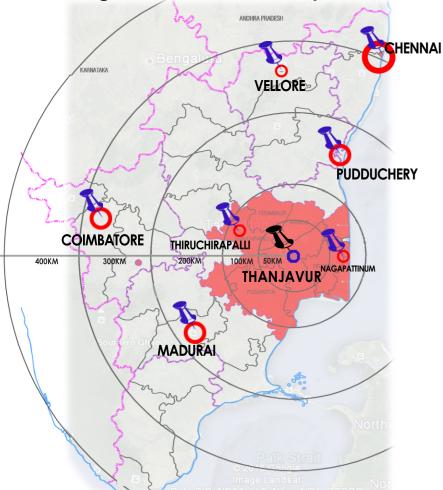




Annexure 3



Regional Location Map



INDIGENOUS ART & CRAFT FORMS-

- Folk dance (Karakattam, Kummiattam, Thappatam, Puliattam, Oyilattam, Dummy Horse dance, Mayilattam, Kavadiattam)
- Carnatic Music (Thyagaraja Music Festival)
- Thanjavur Paintings
- Thanjavur Silk Sarees
- Thanjavur Metal Plate
- Thanjavur Doll
- Thanjavur Veena (Saraswathi Veena)
- Thanjavur Cut Glass Work

Legend





Heritage Sites Railway line



Railway Station



Bus Terminal

RICH HERITAGE-

- Brihadesvara Temple
- Sivaganaga Little Fort
- Rajagopal Canon
- Palace
- Sangeetha Mahal

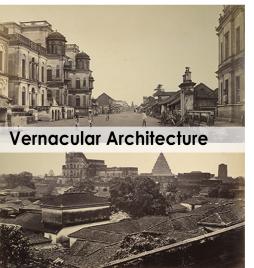
Total area- 36.31 km2 Total population- 2,26,619



Workforce-



Predominantly involved in service industry involving trade and commerce (Tertiary sector)





BRIHADESHWARA TEMPLE













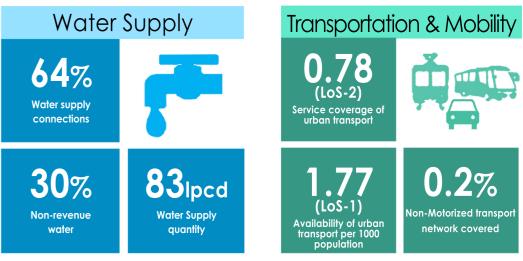
Thanjavur Metal Plate

Thanjavur Painting

Thanjavur Base Map

1. ADMINISTRATIVE 2. TRANSPORTATION MAP **BOUNDARY (WARDS) MAP Transportation** 1 TCMC Boundary **Administration** Water Body TCMC Boundary Internal Roads Ward Boundary Highways 3 Roads Railway line 2 4 Ward No. **Bus Terminal** Railway Station 4 13 21 32 4 43 4. Population Density Map 3. CONTOUR MAP 1 3 Density Contour TCMC Boundary TCMC Boundary Ward Boundary Contour Line 4 Roads Ward No. Water Body >250pph :High Density 125-250pph: Moderate Density (13) 1-125pph :Low Density

Key Performance Indicator



65

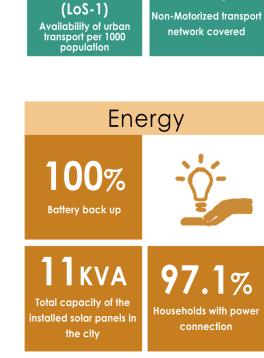
CCTVs install in the city

Safety & Security

20

tourist friendly

300



Solid Waste Management



Lechate Collection at Lechate Tank

Citizen Engagement

CITY PROFILE-Understanding the City

CITIZEN ENGAGEMENT-Identification of **Priority Sectors**

ELECTED REPRESENTATIVE-Identification of **Projects for Priority** URBAN PLANNERS **SECTORAL EXPERTS-**Planning & Design Detailing of Projects

VENDORS/ SUPPLIERS-Technological, Technical & Financial Detailing

FINALIZATION **OF SMART** CITY **PROPOSAL**

Total Responses-24,380+ participants

907+ likes 15+ comments 90+ participants (Smart City Thanjavur page, Thanjavurcorporation page) my GOV

Workshops & Focused Group Discussions-670+ residents, professionals 15000+ students

33+ participants

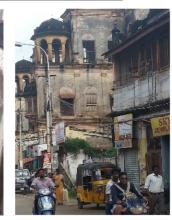
186+ suggestions

logo design competition

















Citizen Consultation:

- Elected representatives: Minister of Urban Development, Housing and Agriculture for Tamil Nadu, Mayor, Ward Councilors
- Royal Family members

7,592+: participants 5,694: Site selection-AreaBased Development

1,898: Priority sector-

Pan City Initiative

- Resident Welfare Association (RWA) representatives
- University & College Professors & Students
- HRCE representative
- Head Bishop of Roman Catholic
- Various professionals (Architects, Engineers)
- Artisans
- **Tourists**

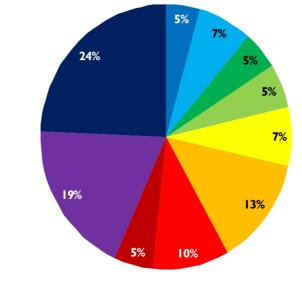








To develop Thanjavur as a city with resilient infrastructure, sustainable environment as well as enhance its identity as the 'Cultural Capital' of Tamil Nadu and quaint tourist city set against the backdrop of Hoary Chola Tradition to enhance tourism sector



- Smart Education and Health Facilities
- Confirming Public Safety & Public Participation
- Computerized Public Services
- Intelligent Traffic & Transportation System
- Solid Waste Management (Generation of power/ manure from Solid
- Energy management (24 x 7 power supply, Solar Power Generation)
- Smart Underground Sewerage System
- Development of Open Spaces, Parks and Playgrounds
- Water Management (Installation of Smart Meters, Water Leakage Reduction, Rainwater Harvesting, Restoration of Waterbodies)
- Employment Generation using Smart Tourism

Key Map Thanjavur City Map

Site for Area Based Development

Ketrofit Area

Area Based Development Site

Ward no.

Walkable Neighborhood (area)

Population

Density

Major Transit Nodes

8.40% of total Thanjavur Municipal area 8, 15, 16, 17, 18, 21, 22, 23, 24,25 & 26 2.61 sq.km (645 acres) 35,045 134 pph

Railway Station Old Bus Stand Thiruvayaru Bus Stand

High percentage of area under PSP 20.7%

Brihadeshwara Temple



Palace

Brihadeshwara Temple

Restricted Zone- 100m to 300m: NOC from ASI, height restriction 9m

Prohibited Zone- upto 100m: no excavation/ no construction

Regulated Zone- 300m to 1000m: construction with approval from ULB, height restriction 9m



Site at a Glance

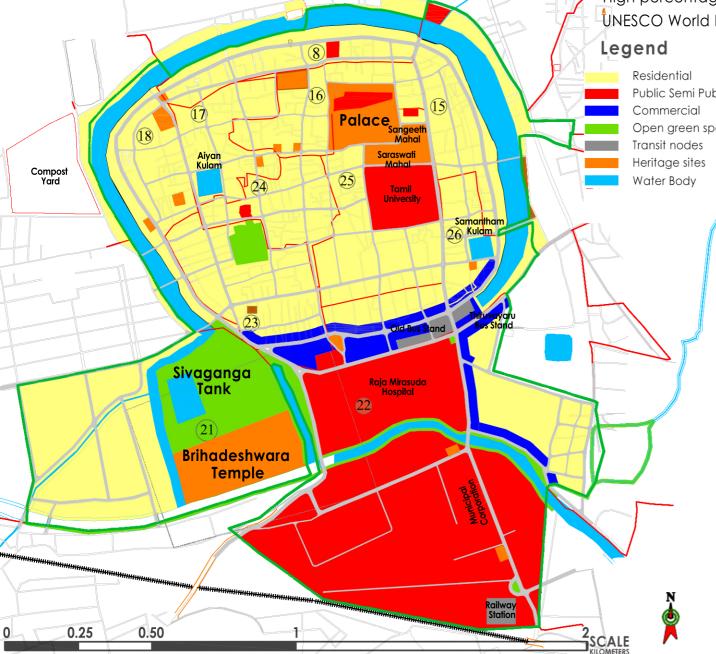


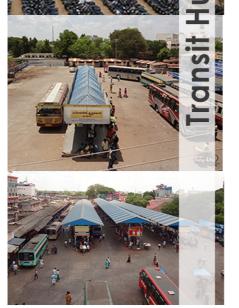






Smart City





Assured Electricity Supply

WaterSupply & Waste Water

- Replacement of damaged pipeline network-

-SCADA system for monitoring the dedicated

water supply scheme from head works to consu-

-Replacement of existing water supply tap

-Automated Water Metering for 9,207 HSCs

connections with flow control valves

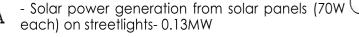
-Refurbishment of Kulam

groundwater table recharge



-Total power demand- 23.3MW; proposed solar power generation-11.7% (0.27MW)

-Solar panels installed on 21 government buildings and bidirectional meters on 24 government



Pedestrian Friendly Pathway

Aiyan

Kulam

Sivaganga

Tank

Brihadeshwara

Temple

-Pedestrian friendly pathways by transforming 27kms of roads (phase wise)

-Proposed boulevard along 3 km stretch of the

 100% accessibility for differently-abled persons, street furniture, intermediate open interactive public spaces, auditory traffic signals, tactile guides on surfaces at zebra crossings, kerb

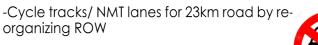
Palace

Tamil University

Raja Mirasuda

26 Kulam

Non-Motorized Taransport



-Use of e-vehicles

organizing ROW

-Smart Public Bicycle Sharing System with 13 cycle stations at critical junctions, with easy accessibility

Non-Vehicle Street



-Proposed pedestrian pathway (boulevard) along the 3 km stretch of the moat shall be converted to walking plaza (non-vehicle zone) on weekends.

-Mixed-use multi-level parking at Thiruvaiyaru bus

-Proposed redevelopment of Old Bus stand -Include parking area for 350 two-wheelers and



Intelligent Traffic Managment



-GPS and CCTV installed buses, LED display for route details, Traffic Control System and mobile/

Innovative Use of Open Spaces

-Sevappanayakanvari developed as open green spaces

-Proposed boulevard along the 3km stretch of moat accommodating various activities and act as multi functional spaces (hawking zone, informal micro-plazas for stage performances,



Visible Improvements

-All overhanging cables for power supply and telecommunication shifted to underground utility trunks (27Km length)

-Rejuvenation/revitalization of Moat

-Rejuvenation/revitalization of Kulams

Affordable Housing

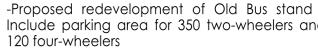
-The slum settlement (1,730 HHs) at Sevappanayakanvari, rehabilitated at a government site

-Displaced population of 94HH along the moat shall be provided affordable housing

-In-situ slum rehabilitation project of remaining 4 slum pockets (with 335HH)

-Subsidy to the displaced HHs from the Central Government (under PMAY) and government

Smart Parking



Sanitation & Solid Waste Management



mer level

-232 smart dustbins and 21 drinking water **M** fountains

promote

Legend

Major Roads

Water Bodies

Bus Terminal

Wi-Fi Hotspot

Railway Station

Collector Roads

Bicvcle stand/ statio

Open Green Space

-RFID based operational management system, at four levels- garbage collector vehicles (pushcarts and autos), primary collection points, secondary collection vehicles (tripper lorries, dumper placers) and dumpsite at Sreenivasapuram.

-IEC activities will be undertaken to create awareness among citizens

Rain Water Harvesting

-100% Rainwater harvesting system installed on all the structures

Smart Metering



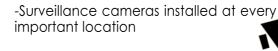
-Water Supply: Smart metering for 4,983 existing domestic connections

-Power Supply: Smart metering for 8,945 domestic

Robust IT Connectivity & Digitalization Energy Efficient Street Lighting Safety & Security



-Panel of 7 LED lamps of 18W energy consumption



Railway Station

-100% coverage of streetlights

connections

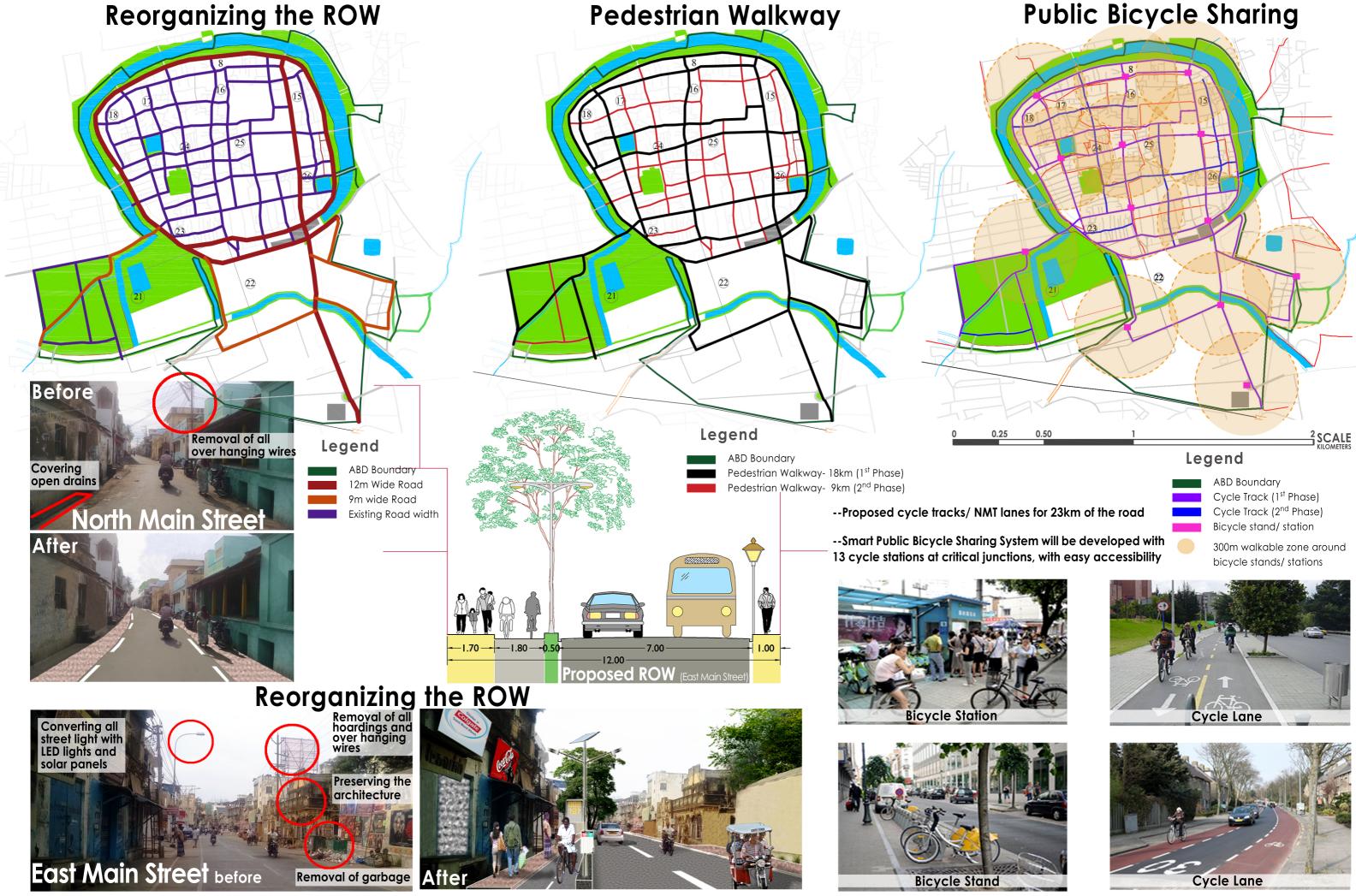
Question no.- 16

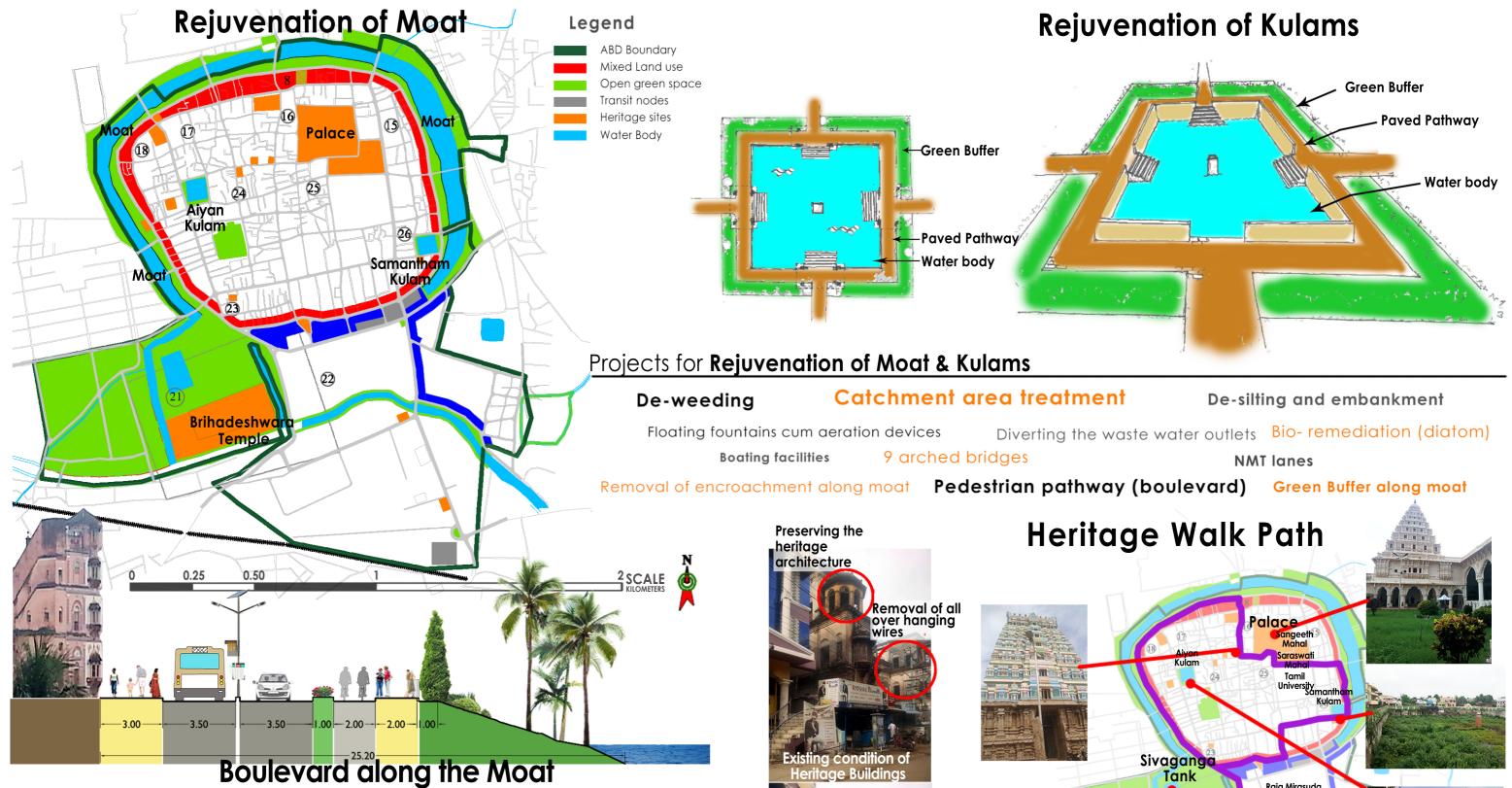
-Wi-Fi hotspot at Brihadeshwara Temple with 4 access points, con-current 170 persons per day users

-Wi-Fi hotspots at transit nodes and important places

0.50

SCALE



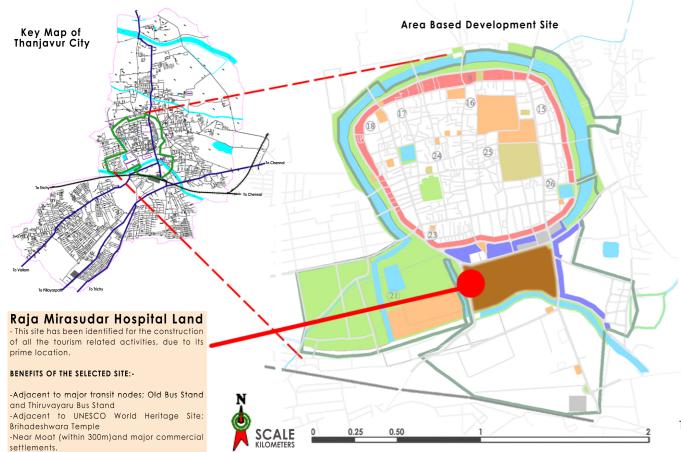












Artisan Village

-Traditional cottages with full-fledged demonstration facilities

-Visitors get a hands-on experience in creating a souvenir of their favorite craft

-Ensure survival of the profession

-Training Centers- training to the interested visitors

-Crafts Information Center and Research Center- disburse knowledge about the crafts



Heritage Village lation- visitors/ tourists stay in typical vernacular

Accommodation- visitors/ tourists stay in typical vernacular architecture styled ottages

-Recreate the traditional Thanjavur atmosphere



Agro-Tourism -visitors gets a hands on experience

Crafts Bazaar

A common platform for selling and display of all the

 -Visitors gets a hands on experience of working in paddy field, helping the farmers



Sericulture

-Showcasing the whole process of sericulture



Rice Research Institute

-Promoting of old organic variety of rice -Creating a platform for operation of Consumer Research Education Action Training Empowerment (NGO)

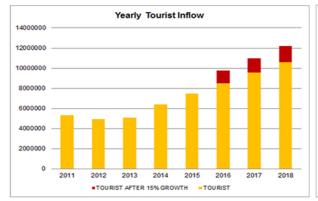


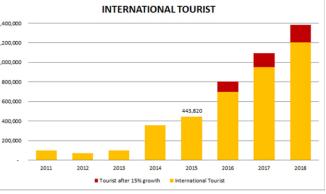
Increase in Tourism Inflow

According to the bussiness as usual trend, Thanjavur shall expect only 13.56% growth rate of tourist inflow in the city.

To increase the Tourist inflow of the city and achieve the vision of the city, Thanjavur proposes to include various non-ICT and ICT based solutions, which are as follows:-

- -Artisan Village
- -Heritage Village
- -Craft Bazaar
- -Sericulture
- -Rice research institute
- -Tourism Mobile/ Web based Application

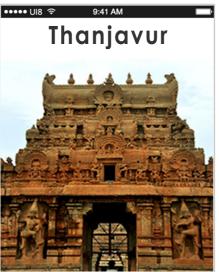




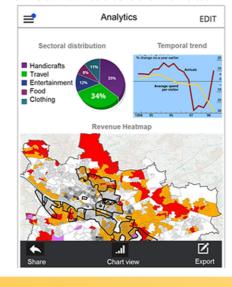
Due to Smart Tourism interventions, the tourist inflow will eventually increase from 13.56% to 15%

Tourism Mobile/ Web Based Application

Tourism Application for tourists visiting Thanjavur



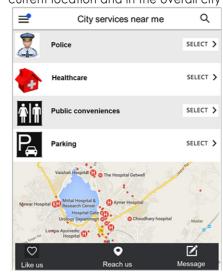
The user can interact with the businesses and the city through the app. It suggests – based on user's interests and his/her location—the nearest points of interest that would be relevant to the user



User can link their social media with the application

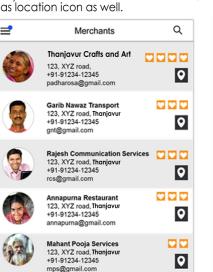


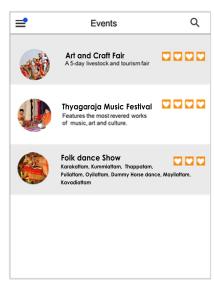
The application also provides a comprehensive details of all the available public amenities around their current location and in the overall city



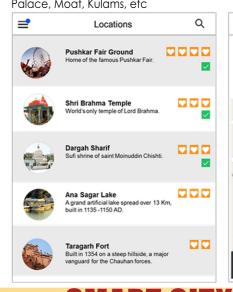
The first view is a list of merchants registered with the city and upcoming famous events.

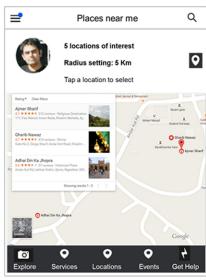
They offer diverse services – handicrafts, food, tourism, religious services etc. It also has location icon as well.



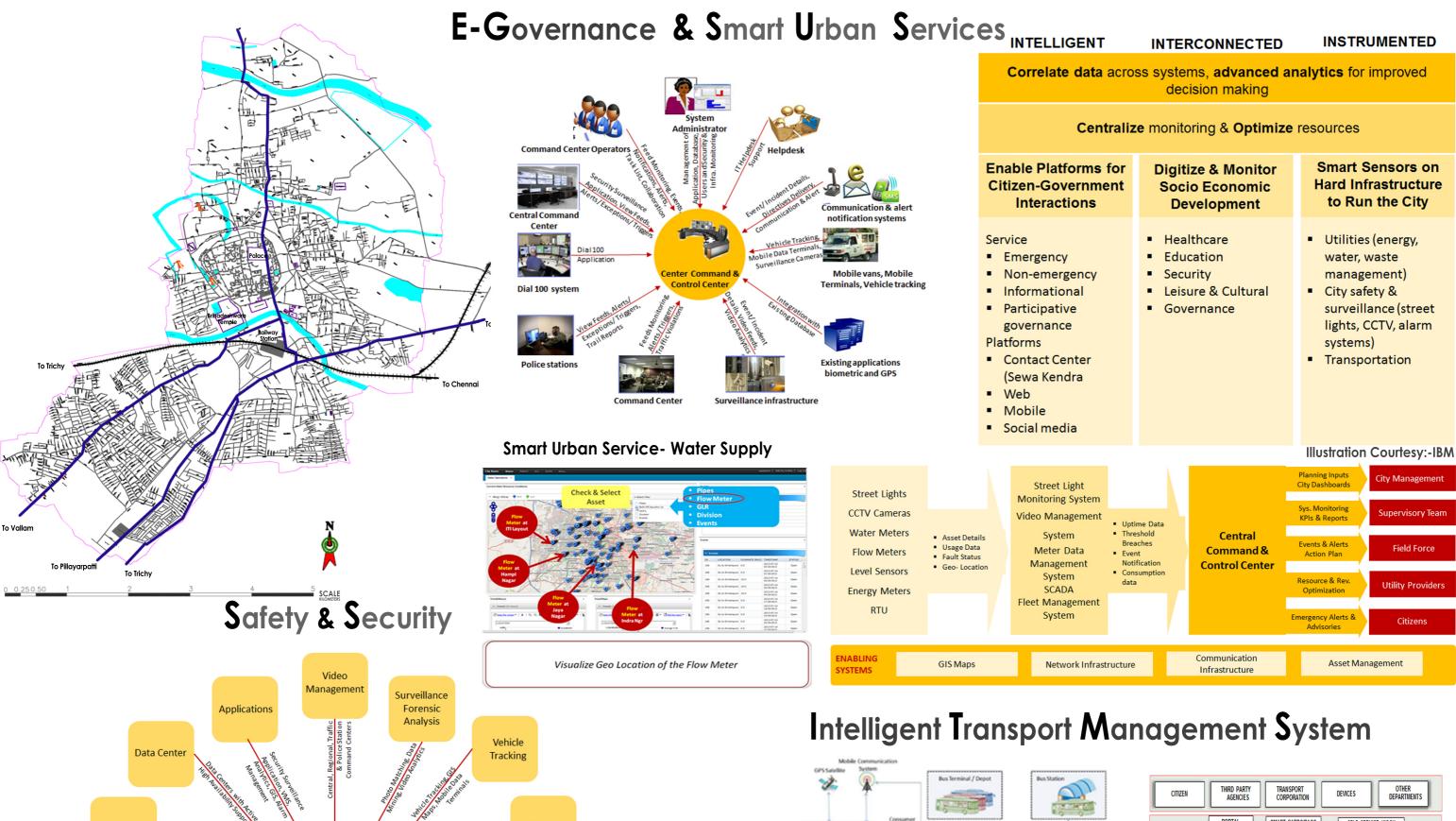


Another view is of famous locations such as Artisan Village, Brihadeswara temple Palace, Moat, Kulams, etc



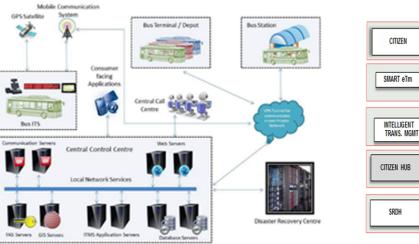


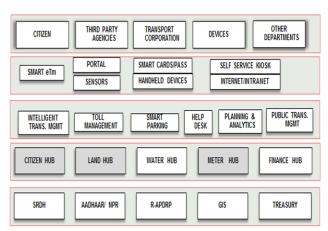




Dial 100

Helpdesk







Fixed/ mobile surveillance

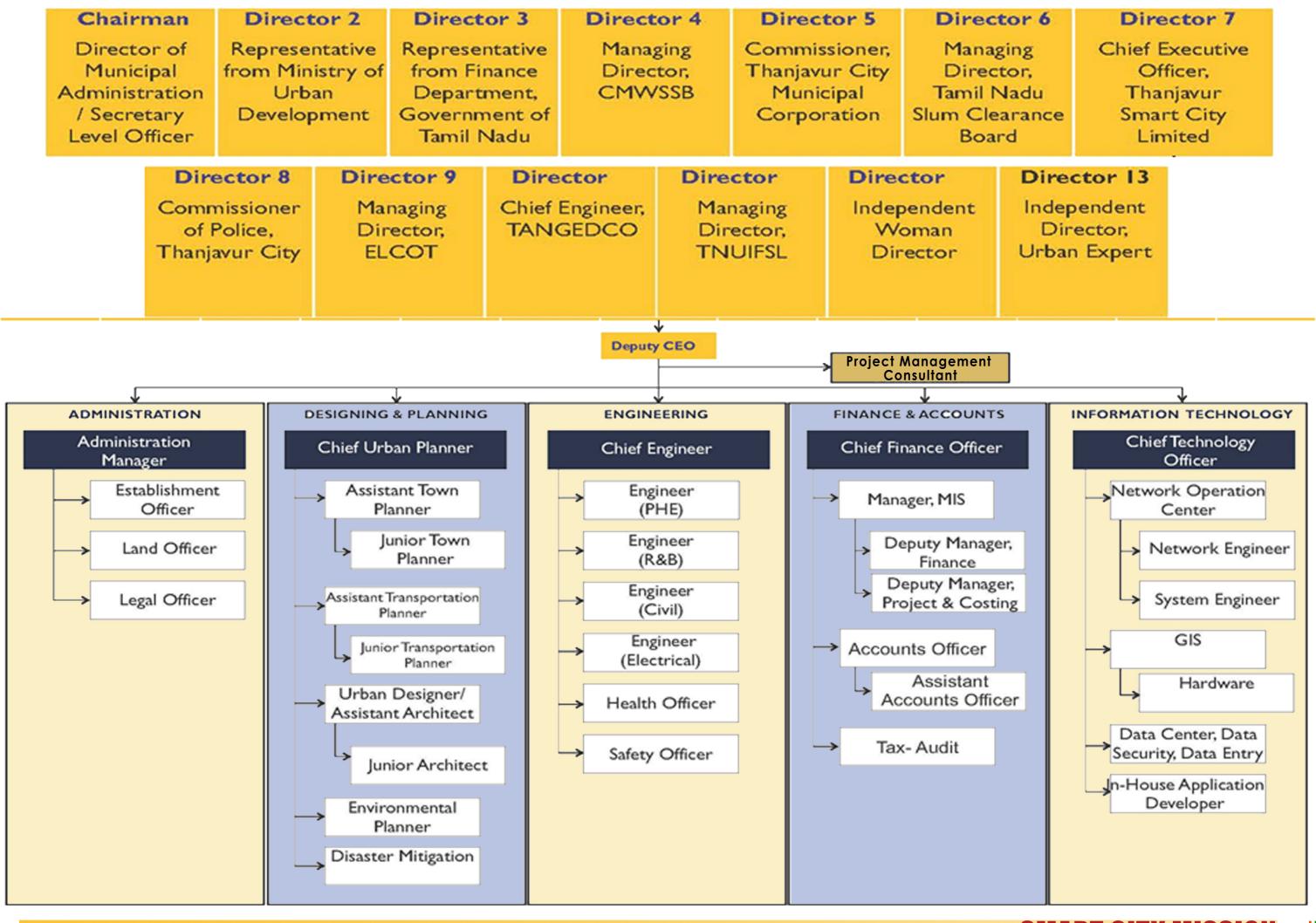
Center Command & **Control Center**

SMART SAFETY & SECURITY Illustration Courtesy:-IBM

Network

Surveillance





	Q. No. 38- Resources Plan								
Sr. No.		Description	Amount (Rs. in Lakhs)						
1		3							
I	Cost of A	Area Based Development	97,406						
Ш	Cost of F	Pan City Initiative - Smart Solution	31,546						
	Total SC	CP cost	128,952						
1	Smart Ci	ty Mission Fund	84,119						
	Converg	ence	27,429						
	Α	AMRUT	276						
	В	Swachh Bharat Mission	6						
2	С	IPDS	19,147						
-	D	MNRE	489						
	E	Swadesh Darshan Scheme	839						
	F	Pradhan Mantri Awas Yojana- Housing For All (HFA)	3,071						
	G	Digital India	2,888						
3		ance Commission Development Funds	296						
4	Funds A	vailable with Corporation	1,960						
5	PPP		15,148						

ABD capex- Rs/capita	42,982
Pan city capex- Rs/capita	13,920
Total Capex- Rs/capita	56,902

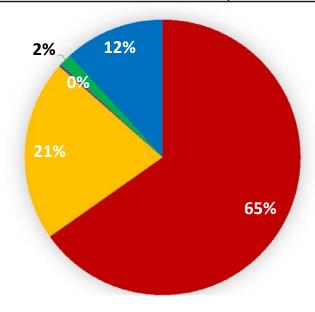


Convergence

■ 14th Finance Commission Development Funds

■ Funds Available with Corporation

■ PPP



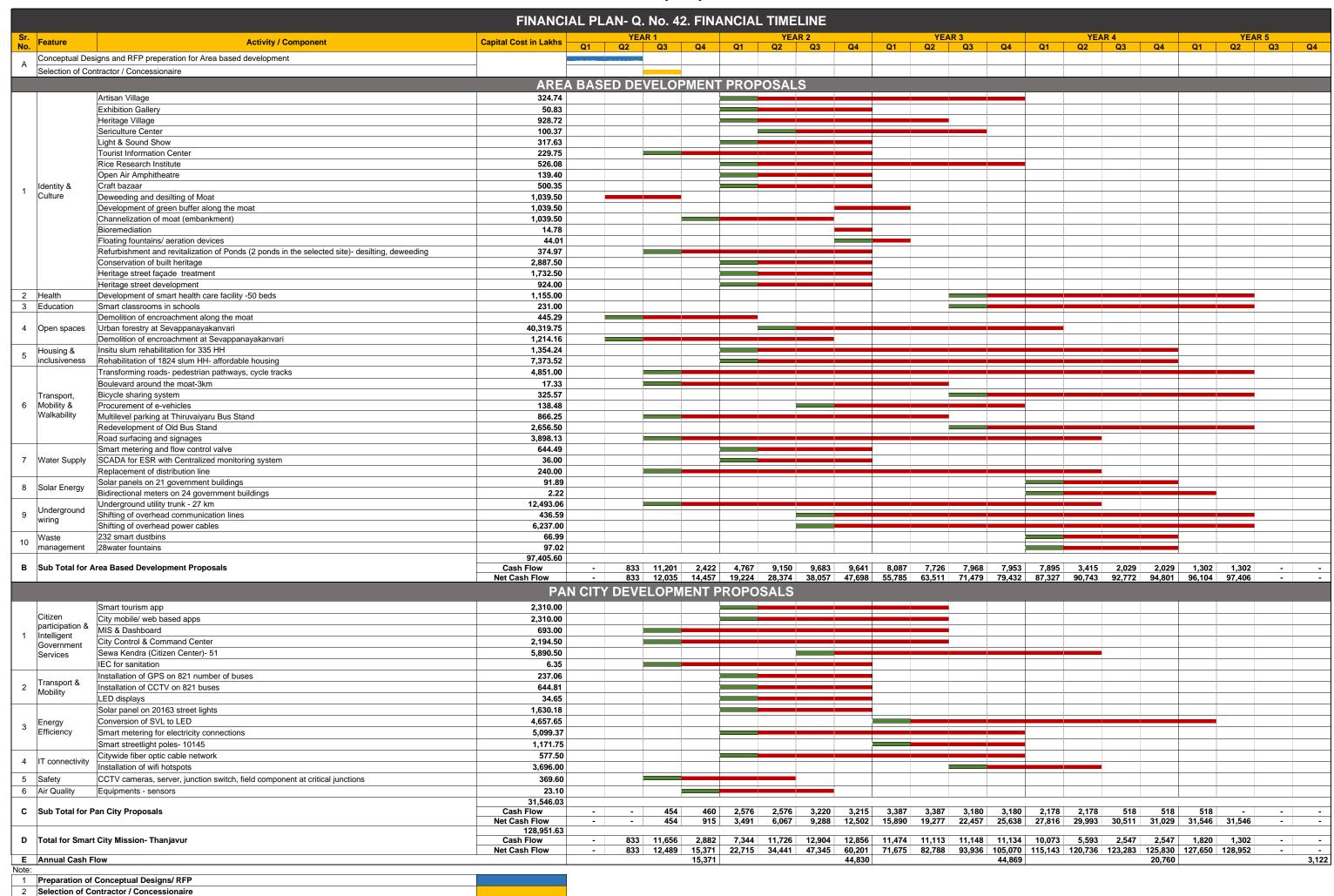
						AL PLAN- Q.	No. 37. Itemis	ed Cost, Q. No	o. 39. Costs									
			Capital Cost	Cost incl. PMC/	Sectorwise Cost incl. PMC/ advisory/			-		Financial Op	perating Plan (F	Rs. In Lakhs)			Mean	s of Finance	(Rs. In Lakhs)	I
Sr. No Feature	Development Component	Capital Cost (Rs. In Lakhs)	incl. contingency- 10% (Rs. in lakhs)	advisory/ consultancy fee (Rs. In lakhs)	consultancy fee/ contingency & escalation (Rs. In lakhs)	O&M Cost (Rs. In lakhs)	Sectorwise O&MCost (Rs. In lakhs)	O&M Cost (assumed %)	Year 1	Year 2	Year 3	Year 4	Year 5	Conve	ergence Amount	Name	Other	SCM Fund+14th Finance Commission+ULB Amount
1 2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	To all the same							NT PROPOSALS							221-1		<u> </u>	
	Artisan Village Exhibition Gallery	281.16 44.01	309.28 48.41	324.74 50.83		18.56		6.0%	-	162.37 50.83	162.37	-	-	SDS	324.74			50.8
	Heritage Village	804.09	884.50			53.07		6.0%	-	619.15	309.57	-	-					928.7
	Sericulture Center	86.90	95.59			5.74		6.0%	=	50.19	50.19	-	-					100.37
	Light & Sound Show Tourist Information Center	275.00 198.92		317.63 229.75		13.13		0.0% 6.0%	76.58	317.63								317.63 229.75
	Rice Research Institute	455.48	501.02	526.08		30.06		6.0%	76.58	153.17 263.04	263.04	-						526.08
	Open Air Amphitheatre	120.69	132.76	139.40		7.97		6.0%	-	139.40		-	-	SDS	139.40			
Identity &	Craft bazaar	433.20 900.00	476.52 990.00	500.35 1,039.50	12,214.13	-	311.42	0.0%	1,039.50	500.35								500.35 1,039.50
Culture	Deweeding and desilting of Moat Development of green buffer along the moat	900.00		1,039.50	12,214.13	24.75	311.42	2.5%	1,039.50	519.75	519.75							1,039.50
	Channelization of moat (embankment)	900.00	990.00			24.75		2.5%	259.88	779.63								1,039.50
	Bioremediation	12.80	14.08			0.35		2.5%		14.78	22.00							14.78
	Floating fountains/ aeration devices Refurbishment and revitalization of Ponds (2 ponds in	38.10	41.91	44.01		1.05		2.5%		22.00	22.00							44.0
	the selected site)- desilting, deweeding,	324.65				-		0.0%	124.99	249.98				SDS	374.97			
	Conservation of built heritage	2,500.00	2,750.00			68.75		2.5%		2,887.50								2,887.50
	Heritage street façade treatment Heritage street development	1,500.00 800.00	1,650.00 880.00	1,732.50 924.00		41.25 22.00		2.5%		1,732.50 924.00								1,732.50 924.00
2 Health	Development of smart health care facility -50 beds	1,000.00	1,100.00		1,155.00	66.00	66.00	6.0%		JZ-7.00	288.75	577.50	288.75					1,155.00
	· ·	,	ŕ	,	<u> </u>													
3 Education	Smart classrooms in schools Demolition of encroachment along the moat	200.00 385.53	220.00 424.08	231.00 445.29	231.00	13.20	13.20	6.0% 0.0%	333.97	111.32	57.75	115.50	57.75					231.00 445.29
4 0	Urban forestry at Sevappanayakanvari	34,908.87	38,399.76	40,319.75	41,979.19	2,303.99	2 202 00	6.0%	333.31	15,119.90	20,159.87	5,039.97						40,319.75
4 Open spaces	Demolition of encroachment at Sevappanayakanvari	1,051.22	1,156.34	1,214.16	41,979.19	_	2,303.99	0.0%	607.08	607.08	·							1,214.16
	Insitu slum rehabilitation for 335 HH	1,172.50	1,289.75	1,354.24		77.39		6.0%	007.00	451.41	451.41	451.41		HFA	335.00			1,019.24
Housing & inclusiveness	Housing along the proposed boulevard (mixed land use)	1,172.30	1,203.73	1,004.24	8,727.76	77.55	77.39			101.41	401.41	401.41		11174	300.00			1,013.2-
	Rehabilitation of 1824 slum HH- affordable housing	6,384.00	7,022.40	7,373.52		-		0.0%		2,457.84	2,457.84	2,457.84		HFA	2,736.00	рр	p 4,637.52	
	Transforming roads- pedestrian pathways, cycle tracks	4,200.00	4,620.00	4,851.00		115.50		2.5%	606.38	1,212.75	1,212.75	1,212.75	606.38					4,851.00
Transport,	Boulevard around the moat-3km	15.00	16.50	17.33		0.99		6.0%	4.33	8.66	4.33							17.33
6 Mobility &	Bicycle sharing system	281.88	310.07	325.57	12,753.26	-	217.22	0.0%		10.10	81.39	162.79	81.39					325.57
Walkability	Procurement of e-vehicles Multilevel parking at Thiruvaiyaru Bus Stand	119.90 750.00	131.89 825.00	138.48 866.25		7.91		6.0%	216.56	46.16 433.13	92.32 216.56							138.48 866.25
	Redevelopment of Old Bus Stand	2,300.00	2,530.00	2,656.50		-		0.0%	210.00	100.10	664.13	1,328.25	664.13					2,656.50
	Road surfacing and signages	3,375.00	3,712.50			92.81		2.5%	649.69	1,299.38	1,299.38	649.69		444047	244.42			3,898.13
7 Water Supply	Smart metering and flow control valve SCADA for ESR with Centralized monitoring system	644.49 36.00			920.49	16.11 0.90	23.01	2.5%		644.49 36.00				AMRUT AMRUT	644.49 36.00			
. Traisi Supply	Laying of distribution line	240.00	240.00	240.00	020110	6.00	20.0	2.5%	40.00	80.00	80.00	40.00		AMRUT	240.00			
8 Solar Energy	Solar panels on 21 government buildings	79.56			94.11	2.19	2.24	2.5%				91.89		IPDS	68.92			22.97
	Bidirectional meters on 24 government buildings Underground utility trunk - 27 km	1.92 10,816.50	2.11	2.22 12,493.06		0.05 297.45		2.5% 2.5%	2,082.18	4,164.35	4,164.35	2.22 2,082.18		IPDS	9,369.79			2.22 3,123.20
9 Underground	shifting of overhead communication lines	378.00		436.59	19,166.65	10.40	456.35		2,002.10	72.77	145.53	145.53	72.77	11 20	5,565.75			436.59
wiring	shifting of overhead power cables	5,400.00				148.50		2.5%		1,039.50	2,079.00	2,079.00	1,039.50	IPDS	4,677.75			1,559.25
10 Waste management	232 smart dustbins 28water fountains	58.00 84.00			164.01	1.60	1.60	2.5%				66.99 97.02						66.99 97.02
ABD	Total	84,457.38			97,405.60	3,472.40	3,472.40		6,041.13	37,171.00	34,782.29	16,600.52	2,810.66		18,947.07		4,637.52	
PROPOSALS	Total	04,437.30	92,011.07	37,403.00	37,403.00				0,041.13	37,171.00	34,702.29	10,000.32	2,010.00		10,947.07		4,037.32	73,021.0
<u> </u>	Smart tourism app	2,000.00	2,200.00	2,310.00		Ρ.	AN CITY PROPO	0.0%		1,540.00	770.00			1	Π	PPI	P 2,310.00	I
Citizen	City mobile/ web based apps	2,000.00	2,200.00					0.0%		1,540.00	770.00					PPI	_,	
participation & 1 Intelligent	MIS & Dashboard	600.00	660.00	693.00	13,404.35	-		0.0%	173.25	346.50	173.25			Digital India	693.00			
Government	City Control & Command Center Sewa Kendra (Citizen Center)- 51	1,900.00 5,100.00	,		.0, .000	-		0.0%	548.63	1,097.25 1,472.63	548.63 2,945.25	1,472.63		Digital India	2,194.50	PPI	P 5,890.50	
Services	IEC for sanitation	5,100.00						0.0%	2.12	4.24	2,545.25	1,412.03		SBM	6.35	FPI	3,080.50	
Transport &	Installation of GPS on 821 number of buses	205.25	225.78	237.06		13.55		6.0%		237.06					-			237.06
2 Mobility	Installation of CCTV on 821 buses LED displays	558.28 30.00	614.11 33.00	644.81 34.65	916.53	36.85 3.30	53.69	6.0%		644.81 34.65								644.8 ² 34.6 ³
	Solar panel on 20163 street lights	1,411.41	1,552.55			3.30		0.0%		1,630.18				MNRE	489.05			1,141.12
3 Energy	Conversion of SVL to LED	4,032.60	4,435.86	4,657.65	12,558.95	-	89.28	0.0%			2,328.83	2,328.83			-			4,657.65
Efficiency	Smart metering for electricity connections Smart streetlight poles- 10145	4,415.04 1,014.50			,000.30	- 89.28	33.20	0.0% 8.0%		2,549.69	2,549.69 468.70	468.70	234.35	IPDS	5,099.37		-	1,171.75
4 IT seems a state	Citywide fiber optic cable network	500.00			4.070.50	13.75	204.25	2.50/		288.75	288.75	400.70	234.35					500.00
4 IT connectivity	Installation of wifi hotspots	3,200.00			4,273.50	211.20	224.95	6.0%			1,848.00	1,848.00						3,696.00
5 Safety	CCTV cameras, server, junction switch, field component at critical junctions	320.00	352.00	369.60	369.60	21.12	21.12	6.0%	184.80	184.80								369.60
6 Air Quality	equipments - sensors	20.00	22.00	23.10	23.10	1.32	1.32	6.0%	5.78	17.33							1	23.10
B PAN CITY PROPOSALS	Total	27,312.58			31,546.03		390.36		914.57		12,691.09	6,118.15	234.35	-	8,482.28		- 10,510.50	
C SMART CITY PLAN	Grand Total (A+B)	111,769.96	122,854.90	128,951.63	128,951.63	3,862.76	3,862.76	;	6,955.69	48,758.88	47,473.38	22,718.67	3,045.01		27,429.35		15,148.02	86,296.76

	FINANCIAL PLAN- Q. No. 39. Costs																					
Sr. No Feature	Development Component	Capital Cost (Rs. in lakhs)	Capital Cost incl. contingency 10% (Rs. in lakhs)	Cost incl. PMC/ advisory/ consultancy fee (Rs. In	w.	V/a	V2	V4) if		<u> </u>	Rs. In lakh	<i></i>		Vii i		V/I	Vi i	Total O&M Cost (Rs. In Lakhs)	Total Lifetime Cost (Rs. In Lakhs)	Sectorwise O&MCost (Rs. In lakhs)	O&M Cost (assumed %)
1 2	3	4	5	lakhs)	Y1 7	Y2 8	Y3	10	Y5	Y6	Y7 13	<u>Y8</u> 14	Y9 15	Y10 16	Y11 17	Y12 18	Y13 19	Y14 20	21	22	23	24
	· ·					•	AREA BA		ELOPMENT						- 17	- 10		20				
	Artisan Village	281.16	309.28		18.56	19.67	20.85	22.10	23.43	24.83	26.32	27.90	29.58	31.35	33.23	35.23	37.34	39.58	389.97	714.71		6.0%
	Exhibition Gallery Heritage Village	44.01 804.09	48.41 884.50	50.83 928.72	2.90 53.07	3.08 56.25	3.26 59.63	3.46 63.21	3.67 67.00	3.89 71.02	4.12 75.28	4.37 79.80	4.63 84.59	4.91 89.66	5.20 95.04	5.51 100.74	5.84 106.79	6.20 113.19	61.04 119.99	111.88 1,048.71		6.0%
	Sericulture Center	86.90	95.59		5.74	6.08	6.44	6.83	7.24	7.68	8.14	8.62	9.14	9.69	10.27	100.74	11.54	12.23	12.97	113.34		6.0%
	Light & Sound Show	275.00	302.50		18.15	19.24	20.39	21.62	22.91	24.29	25.75	27.29	28.93	30.66	32.50	34.45		38.71	41.04	358.66		6.0%
	Tourist Information Center	198.92	218.81	229.75	13.13	13.92	14.75	15.64	16.57	17.57	18.62	19.74	20.92	22.18	23.51	24.92	26.42	28.00	29.68	259.43		6.0%
	Rice Research Institute Open Air Amphitheatre	455.48 120.69	501.02 132.76		30.06 7.97	31.87 8.44	33.78 8.95	35.80 9.49	37.95 10.06	40.23 10.66	42.64 11.30	45.20 11.98	47.91 12.70	50.79 13.46	53.84 14.27	57.07 15.12	60.49 16.03	64.12 16.99	67.97 18.01	594.04 157.41		6.0%
	Craft bazaar	433.20	476.52		28.59	30.31	32.13	34.05	36.10	38.26	40.56	42.99	45.57	48.30	51.20	54.27	57.53	60.98	64.64	564.99		6.0%
-	Deweeding and desilting of Moat	900.00	990.00	1,039.50	-	-	-	-		-	-	-	-	-	-	-	-	-	-	1,039.50	2,067.63	
	Development of green buffer along the moat Channelization of moat (embankment)	900.00 900.00	990.00 990.00	1,039.50 1,039.50	24.75 24.75	25.37 25.37	26.00 26.00	26.65 26.65	27.32 27.32	28.00 28.00	28.70 28.70	29.42 29.42	30.16 30.16	30.91 30.91	31.68 31.68	32.47 32.47	33.29 33.29	34.12 34.12	34.97 34.97	1,074.47 1,074.47		2.5%
	Bioremediation	12.80	14.08		0.35	0.36	0.37	0.38	0.39	0.40	0.41	0.42	0.43		0.45	0.46		0.49	0.50	15.28		2.5%
	Floating fountains/ aeration devices	38.10	41.91	44.01	1.05	1.07	1.10	1.13	1.16	1.19	1.22	1.25	1.28	1.31	1.34	1.37	1.41	1.44	1.48	45.49		2.5%
	Refurbishment and revitalization of Ponds (2 ponds in the selected site)- desilting, deweeding	324.65	357.12	374.97	21.43	22.71	24.08	25.52	27.05	28.67	30.39	32.22	34.15	36.20	38.37	40.67	43.12	45.70	48.44	423.42		6.0%
	Conservation of built heritage	2,500.00	2,750.00	2,887.50	68.75	70.47	72.23	74.04	75.89	77.78	79.73	81.72	83.77	85.86	88.01	90.21	92.46	94.77	97.14	2,984.64		2.5%
	Heritage street façade treatment	1,500.00	1,650.00	1,732.50	41.25	42.28	43.34	44.42	45.53	46.67	47.84	49.03	50.26	51.52	52.80	54.12	55.48	56.86	681.41	2,413.91		2.5%
2 Health	Heritage street development Development of smart health care facility -50 beds	800.00 1,000.00	880.00 1,100.00		22.00 66.00	22.55 69.96	23.11 74.16	23.69 78.61	24.28 83.32	24.89 88.32	25.51 93.62	26.15 99.24	26.80 105.19	27.47 111.51	28.16 118.20	28.87 125.29	29.59 132.80	30.33 140.77	363.42 1,386.99	1,287.42 2,541.99	1,386.99	2.5% 6.0%
3 Education	Smart classrooms in schools	200.00	220.00		13.20	13.99	14.83	15.72	16.66	17.66	18.72	19.85	21.04	22.30	23.64	25.06	26.56	28.15	277.40	508.40	277.40	6.0%
	Demolition of encroachment along the moat	385.53	424.08	445.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	445.29		0.0%
4 Open spaces	Urban forestry at Sevappanayakanvari	34,908.87	38,399.76		959.99	983.99	1,008.59	1,033.81	1,059.65	1,086.15	1,113.30	1,141.13	1,169.66	1,198.90	1,228.87	1,259.60	1,291.09	1,323.36	15,858.10	56,177.84	15,858.10	2.5%
	Demolition of encroachment at Sevappanayakanvari Insitu slum rehabilitation for 335 HH	1,051.22 1,172.50	1,156.34 1,289.75	1,214.16 1,354.24	77.39	82.03	86.95	92.17	97.70	103.56	109.77	116.36	123.34	130.74	138.58	146.90	155.71	165.06	1,626.25	1,214.16 2,980.49		0.0% 6.0%
5 Housing &	Housing along the proposed boulevard (mixed land use)	.,2.00	1,200110	.,,00		02.00	-	02		- 100.00			.20.0		-	- 10.00	-	-	.,020:20		1,626.25	6.0%
inclusiveness	Rehabilitation of 1824 slum HH- affordable housing	6,384.00	7,022.40	7,373.52	_	_					_		_		_	_	_	_	_	7,373.52	1,020.20	0.0%
		,	,	,	077.00	-	044.40	000.45	0.40.00	070.00	000.04	440.04	444.04	400.00	400.40	500.04		504.05	5 005 00	,		
	Transforming roads- pedestrian pathways, cycle tracks	4,200.00	4,620.00	· ·	277.20	293.83	311.46	330.15	349.96	370.96	393.21	416.81	441.81	468.32		526.21	557.78	591.25	5,825.38	10,676.38		6.0%
	Boulevard around the moat-3km	15.00 281.88	16.50 310.07	17.33 325.57	0.99 18.60	1.05 19.72	1.11 20.90	1.18 22.16	1.25 23.49	1.32 24.90	1.40 26.39	1.49 27.97	1.58 29.65	1.67 31.43	1.77 33.32	1.88 35.32	1.99 37.44	2.11 39.68	20.80 390.97	38.13 716.54		6.0%
n ·	Bicycle sharing system Procurement of e-vehicles	119.90	131.89	138.48	7.91	8.39	8.89	9.42	9.99	10.59	11.23	11.90	12.61	13.37	14.17	15.02	15.92	16.88	166.30	304.79	10,021.68	6.0%
•	Multilevel parking at Thiruvaiyaru Bus Stand	750.00	825.00	866.25	49.50	52.47	55.62	58.96	62.49	66.24	70.22	74.43	78.90	83.63	88.65	93.97	99.60	105.58	1,040.25	1,906.50		6.0%
	Redevelopment of Old Bus Stand	2,300.00	2,530.00		63.25	64.83	66.45	68.11	69.82	71.56	73.35	75.18	77.06	78.99	80.97	82.99	85.06	87.19	1,044.82	3,701.32		2.5%
	Road surfacing and signages Smart metering and flow control valve	3,375.00 644.49	3,712.50 708.94	3,898.13 744.39	92.81 17.72	95.13 18.17	97.51 18.62	99.95 19.09	102.45 19.56	105.01 20.05	107.63 20.55	110.32 21.07	113.08 21.59	115.91 22.13	118.81 22.69	121.78 23.25	124.82 23.84	127.94 24.43	1,533.17 292.77	5,431.29 1,037.16		2.5% 2.5%
	SCADA for ESR with Centralized monitoring system	36.00	39.60		0.99	1.01	1.04	1.07	1.09	1.12	1.15	1.18	1.21	1.24		1.30	1.33	1.36	16.35	57.93	418.15	
	<u> </u>																				410.13	
	Replacement of distribution line Solar panels on 21 government buildings	240.00 79.56	264.00 87.52		6.60 2.19	6.77 2.24	6.93 2.30	7.11 2.36	7.29 2.42	7.47 2.48	7.65 2.54	7.85 2.60	8.04 2.67	8.24 2.73	8.45 2.80	8.66 2.87	8.88 2.94	9.10 3.02	109.03 36.14	386.23 128.03		2.5% 2.5%
	Bidirectional meters on 24 government buildings	1.92	2.11		0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.87	3.09		2.5%
Underground	Underground utility trunk - 27 km	10,816.50	11,898.15		713.89	756.72	802.13	850.25	901.27	955.34	1,012.67	1,073.43	,	,	1,278.47	1,355.17	1,436.48	,	15,002.42	27,495.48	00.046.40	6.0%
9 wiring	Shifting of overhead communication lines Shifting of overhead power cables	378.00 5,400.00	415.80 5,940.00		24.95 356.40	26.44 377.78	28.03 400.45	29.71 424.48	31.50 449.95	33.39 476.94	35.39 505.56	37.51 535.89	39.76 568.05	42.15 602.13	44.68 638.26	47.36 676.55		53.21 760.18	524.28 7,489.77	960.87 13,726.77	23,016.48	6.0%
Waste	232 smart dustbins	58.00	63.80		1.60	1.69	1.79	1.90	2.01	2.13	2.26	2.40	2.54			3.03	3.21	3.40	33.52	100.51	82.06	2.5%
management	28water fountains	84.00	92.40	97.02	2.31	2.45	2.60	2.75	2.92	3.09	3.28	3.47	3.68	3.90	4.14	4.39	4.65	4.93	48.54	145.56	62.06	2.5%
A ABD PROPOSALS	Total	84,457.38	92,903.12	97,548.27	3,136.04	3,277.77	3,426.85	3,583.68	3,748.70	3,922.38	4,105.19	4,297.66	4,500.33	4,713.78	4,938.63	5,175.52	5,425.13	5,688.20	59,939.86	152,340.04	54,791.76	,
THOI CONEC								PAN CITY	/ PROPOS	ALS												
Citizen	Smart tourism app	2,000.00	2,200.00		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,310.00		0.0%
participation &	City mobile/ web based apps MIS & Dashboard	2,000.00 600.00	2,200.00 660.00		-	-	-	-			-	-	-	-	-	-	-	-	-	2,310.00 693.00		0.0%
1 Intelligent	City Control & Command Center	1,900.00	2,090.00		-	-	-	-		-	-	-	_	_	-	-	-	-	-	2,194.50	2.50	0.0%
Government Services	Sewa Kendra (Citizen Center)- 51	5,100.00	5,610.00	5,890.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,890.50		0.0%
00111000	IEC for sanitation Installation of GPS on 821 number of buses	5.50 205.25	6.05 225.78		0.15 13.55	0.16 14.36	0.16 15.22	0.16 16.13	0.17 17.10	0.17 18.13	0.18 19.22	0.18 20.37	0.18 21.59		0.19 24.26	0.20 25.72	0.20 27.26	0.21 28.89	2.50 284.68	8.85 521.74		2.5% 6.0%
2 Transport &	Installation of CCTV on 821 buses	558.28	614.11	644.81	36.85	39.06	41.40	43.88	46.52	49.31	52.27	55.40	58.73	62.25		69.95		78.59	774.33	1,419.14	1,105.21	6.0%
Mobility	LED displays	30.00	33.00	34.65	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30		3.30	3.30	3.30	3.30	46.20	80.85	.,	10.0%
	Solar panel on 20163 street lights	1,411.41	1,552.55		93.15	98.74	104.67	110.95	117.60	124.66	132.14	140.07	148.47	157.38	166.82	176.83	187.44	198.69	1,957.62	3,587.80	 I	6.0%
3 Solar Energy	Conversion of SVL to LED Smart metering for electricity connections	4,032.60 4,415.04	4,435.86 4,856.54		266.15 291.39	282.12 308.88	299.05 327.41	316.99 347.05	336.01 367.88	356.17 389.95	377.54 413.35	400.19 438.15	424.21 464.44		476.64 521.84		535.55 586.34	567.68 621.52	5,593.19 6,123.64	10,250.85 11,223.01	15,081.55	6.0%
	Smart streetlight poles- 10145	1,014.50	1,115.95		66.96	70.97	75.23	79.75	84.53	89.60	94.98	100.68	106.72		119.91	127.10	134.73	142.81	1,407.11	2,578.85		6.0%
4 IT connectivity	Citywide fiber optic cable network	- 0.000.00	0.500.00		-	-	-	-	-	-	-	-	- 00.00	- 00.00	-	-	-	-	4 000 00	4.000.00	1,232.00	6.0%
5 0.4	Installation of wifi hotspots CCTV cameras, server, junction switch, field component	3,200.00	3,520.00	,	88.00	88.00	88.00	88.00	88.00	88.00	88.00	88.00	88.00		88.00	88.00	88.00	88.00	1,232.00	4,928.00		2.5%
5 Sarety	at critical junctions	320.00	352.00		21.12	22.39	23.73	25.15	26.66	28.26	29.96	31.76	33.66		37.82	40.09	42.50	45.05	443.84	813.44	443.84	6.0%
6 Air Quality PAN CITY	Equipments - sensors	20.00	22.00		1.32	1.40	1.48	1.57	1.67	1.77	1.87	1.98	2.10			2.51	2.66	2.82				
B PROPOSALS	Total	27,312.58	30,043.84	31,546.03	881.94	929.37	979.65	1,032.95	1,089.44	1,149.32	1,212.80	1,280.08	1,351.40	1,427.00	1,507.14	1,592.08	1,682.12	1,777.56	17,892.84	48,861.37	17,892.84	
C SMART CITY	Grand Total (A+B)	111,769.96	122,946.95	129,094.30	4,017.97	4,207.14	4,406.50	4,616.63	4,838.14	5,071.70	5,317.99	5,577.74	5,851.73	6,140.79	6,445.77	6,767.60	7,107.25	7,465.76	77,832.70	201,201.41	72,684.60	,
PLAN	Crana rotal (ATD)	, . 30.00	,_ 10100	5,554100	.,	.,_ • •	.,	.,5.0.00	.,	.,	2,3100	-,	3,001110	2,1.01.0	.,	2,. 27100	,,,,,,,,,	,	*	*	. 2,30 1.30	
																			60.29			

Assumptions

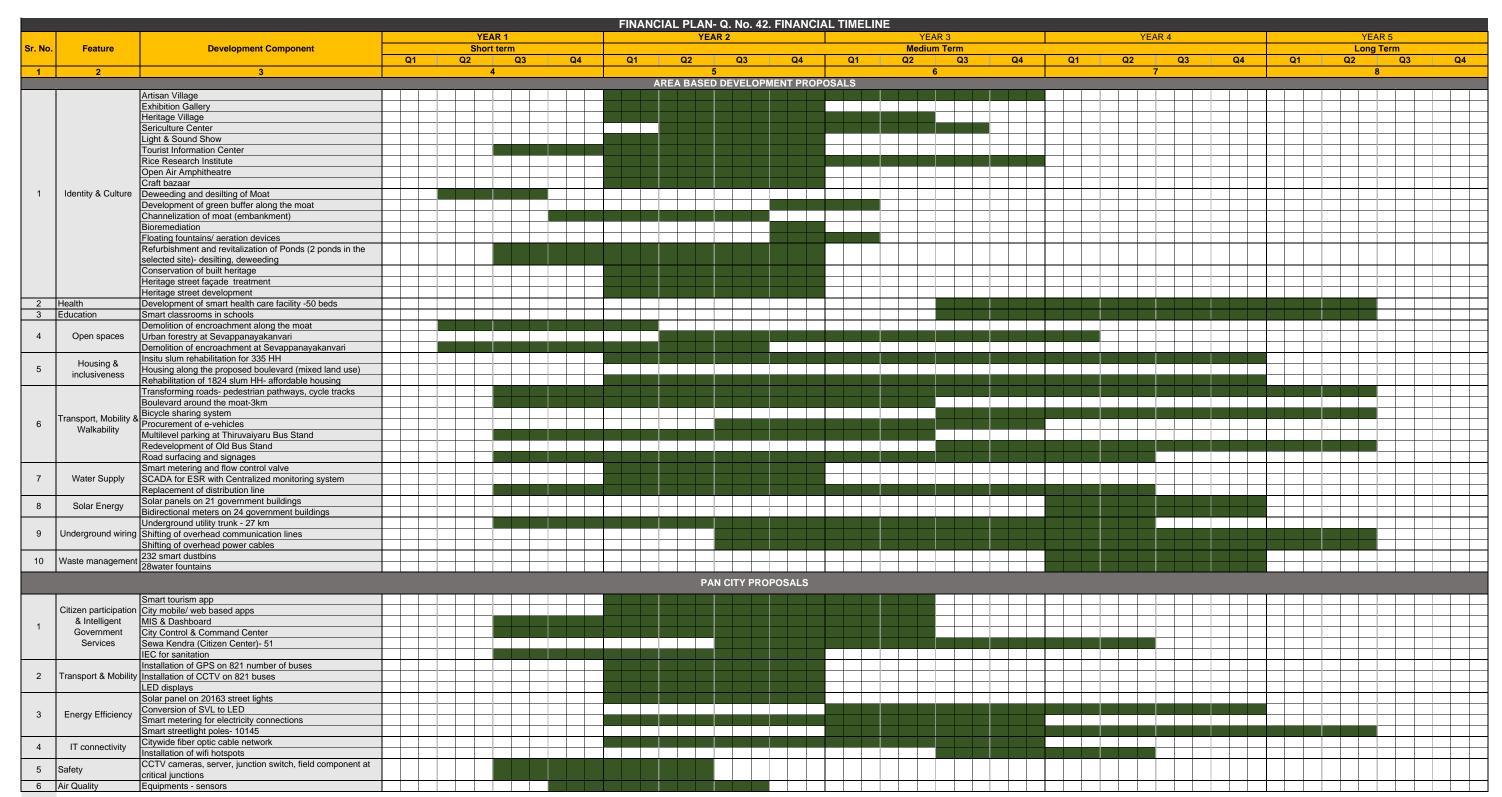
^{1.5%} appreciation on revenue annually

FINANCIAL PLAN- Q. No. 41. RECOVERY OF O&M												
Sr. No.	Item	Unit	Quantity	Rate (in Rs)	Amount (Rs. in Lakhs)	Remarks						
1	Heritage Walk		6,475,000	10	647.50	Asssuming 70% of Total Tourists will visit the place and one time during visit						
2	Exhibition Gallery		6,475,000	10	647.50	Asssuming 70% of Total Tourists will visit the place and one time during visit						
3	Artisan Village		6,475,000	10	647.50	Asssuming 70% of Total Tourists will visit the place and one time during visit						
4	Tourism Information Center		6,475,000	10	647.50	Asssuming 70% of Total Tourists will visit the place and one time during visit						
5	Craft Bazaar	sq.m	4,332	50	25.99	Asssuming Rent Rs.50 per sq.m per month						
6	Parking Charges	Nos.	1,000	10	219.00	Rs. 60 per day per parking slot						
7	Savings because of Solar				35.59							
8	Savings because of Smart meter installation for electricity				6.43							
9	Advertisements				240.00							
10	Toilets	Nos.	61	5	27.83	50 persons per day						
11	NRW Reduction				12.75							
12	Smart Tourism		4,625,000		925.00	Assuming 50% of Tourists use this facility, the spending per person is Rs.2000, 1% is the tariff						
		Total			4,083							



3 Preparation of Detailed Project Report

4 Implementation





Smart City Proposal THANJAVUR









Annexure 4

1. Resolution of the Corporation/Council approving Smart City Plan including Financial Plan

தஞ்சாவூர் மாநகராட்சி

மாமன்ற கூட்டப் பொருள்

தஞ்சாவூர் மாநகராட்சி மத்திய அரசால் அறிவிக்கப்பட்டுள்ள "மிடுக்கான நகரம்" (Smart City) திட்டத்தில் பங்கேற்க 31.07.15 அன்று நடைபெற்ற மாநில அளவிலான வழி நடத்தும் குழுவால் தெரிவு செய்யப்பட்டு TUFIDCO மூலம் மத்திய அரசுக்கு அனுப்பி வைக்கப்பட்டுள்ளது. இத்திட்டத்தில் இந்தியாவில் 100 நகரங்களில் பல்வேறு பணிகள் 5 ஆண்டுகளில் செயலாக்கத்திற்கு எடுத்துக்கொள்ள உத்தேசிக்கப்பட்டுள்ளது. முதல் ஆண்டில் 20 நகரங்களும் அடுத்த இரு ஆண்டுகளில் 40 நகரங்கள் வீதமும் தெரிவு செய்யப்படவுள்ளது.

நகரங்களை தெரிவு செய்ய அறிவிக்கப்பட்ட நகரங்களுக்கிடையே போட்டி அடிப்படையில் நகரங்கள் தெரிவு செய்யப்படும். அதில் பங்கேற்று தமிழ்நாட்டில் தேர்வு செய்யப்பட்ட 12 நகரங்களும் மத்திய அரசின் வழிகாட்டுதலின்படி திட்டம் தயாரித்து மாநில உயர்நிலை வழிநடத்தும் குழுவின் ஒப்புதலுடன் மத்திய அரசுக்கு அனுப்ப வேண்டும். மத்திய அரசு இத்திட்ட அறிக்கையை 100 நாட்களுக்குள் சமர்பிக்க அறிவறுத்தியுள்ளது. இதனை கருத்திற் கொண்டு குடிநீர் மேலாண்மை, திட மற்றும் திரவக் கழிவு மேலாண்மை, நகர்ப்புற போக்குவரத்து மேலாண்மை, மின் ஆளுமை மற்றும் பொது மக்கள் சேவை முதலான திட்டங்கள் செயல்படுத்த

அ. மாநகராட்சி சார்பில் பொதுவான ஒப்பந்தப்புள்ளி கோருதல்.

ஆ. மாநகராட்சிக்கு தேவையான பிரேணைகளைதயார்செய்வதற்கு உதவியாக இருக்க, மத்திய அரசின் மூலம் தேர்வு செய்யப்பட்ட பட்டியலில் உள்ள கலந்தாலோசகர்களை ஒப்பந்தம் மூலம் தேர்வு செய்தல். இ. பெறப்பட்ட ஒப்பந்தப்புள்ளிகளை கூர்ந்தாய்வு செய்தல் மற்றும் தகுதியான கலந்தாலோசகர்களை தேர்வு செய்து பரிந்துரை செய்தல்.

ஆகிய பணிகளை மாநகராட்சி சார்பில் மேற்கொள்ள தமிழ்நாடு நகர்ப்புற நிதி மற்றும் உட்கட்டமைப்பு மேம்பாடு நிறுவனத்திற்கு (TUFIDCO) அனுமதி வழங்க மாமன்றத்திற்கு பொருள் வைக்கப்பட்டுள்ளது.

ரு.க.எண். 7019/2015/இ1). அலுவலகக்குறிப்பு:—

அனுமதி வழங்கலாம்.

தீர்மானம்

மாமன்ற தீா்மானம் எண்.334, நாள்.31.08.2015 அலுவலகக்குறிப்பு அங்கீகரிக்கப்பட்டது.

> ஒம்./— சாவித்திரி கோபால், மாண்புமிகு மேயர்.

/ உண்மை நகல் /

ின் ஆணையருக்காக, தஞ்சாலூர் மாநகராட்சி.

2. Resolution of the Corporation/Council for setting up Special Purpose Vehicle

THANJAVUR CITY MUNICIPAL CORPORATION COUNCIL RESOLUTION

COUNCIL RESOLUTION No.595, Dated.30.11.2015 Copy Resolution of the Corporation for setting up Special Purpose Vehicle.

Thanjavur City Municipal Corporation, hereby resolves to set up a Special Purpose Vehicle (SPV) for the implementation of the Smart City Mission at Thanjavur.

The Special Purpose Vehicle (SPV) thus formed will be entrusted with the task of planning, appraising, approving, releasing funds, implementing, managing, operating, monitoring and evaluating the Smart City development projects as per the guidelines issued by the Central/State Government.

Sd/Savithirigopal, Mayor Thanjavur City Municipal Corporation.

/True Copy/

For Commissioner;
Thanjavur City Municipal Corporation.

3. Agreement with Parastatal Bodies, Boards existing in the city for implementing the full scope of the SPV and sustaining the PAN City and Area Based Development



THANJAVUR CITY MUNICIPAL CORPORATION

Agreements with parastatal Bodies/ board existing in the city for implementing the full scope of the SCP and sustaining the pan-city and area based developments.

Various line departments and para-statal bodies represented by their district level officers are roped in right from the initial stages of smart city project and they have attended the various meeting related to the same.

The following para-statal bodies have agreed to coordinate with the implementation of the SCP and offered to provide all kind of assistance required for the timely execution of the projects.

- 1. Thiru.R.Ravindran, Assistant Engineer Agro Engineering
- 2. Thiru.D.Ravikumaran Assistant Executive Engineer Housing Board
- 3. Thiru.R.Elango Assistant Divisional Engineer Highways
- 4. Thiru.D.Senthilkumar, Executive Engineer, TANGEDCO
- 5. Dr.S. Chitra, Health Department
- 6. Thiru.J.BalaMurugan Assistant Engineer, TNSTC (Transport Corporation)
- 7. Thiru.S.Somasundaram, Traffic Inspector
- 8. Thiru.Abiraman, Education Department

Commissioner, Thanjavur City Municipal Corporation.

4. Preliminary Human Resource Plan for the SPV



THANJAVUR CITY MUNICIPAL CORPORATION

Preliminary Human Resource Plan for the SPV

The Special Purpose Vehicle so created for the implementation of SCP, would be provided with adequate and sufficient human resource for its efficient and effective functioning. As of now it is proposed to provide the following staff

- a. CEO
- b. Manager (admin)
- c. Accounts officer/ Assistant Account officer
- d. City planner
- e. Architect
- f. Engineer
- g. Environmental engineer
- h. Office staff (2-3, depending upon the requirements)

Any further requirement of human resource will be deliberated upon by the Board of Directors and will be provided based on the merit.

> Commissioner, Thanjavur City Municipal Corporation.

5. Institutional arrangement for operationalization of the SPV



THANJAVUR CITY MUNICIPAL CORPORATION

Institutional arrangement for operationalization of the SPV

The SPV so constituted for the implementation of SCP will be working within an office building in the corporation premises. It will act as a link between the ULB, Public and the government at different levels. Specific powers for the smooth execution of the project will be delegated as and when required based on the decision taken by the board of directors. A system of periodic review will be in place to ensure that the SPV will be constantly reviewed and monitored for its effective functioning. The funding pattern of SPV will be as per the guidelines issued by the respective government at center or state level.

Commissioner, Thanjavur City Municipal Corporation.

6. Government Order for implementation of Smart City Mission in Tamil Nadu



ABSTRACT

Implementation of Smart Cities Mission in Tamil Nadu - Government of India sponsored Mission - Administrative Sanction - Orders - Issued.

MUNICIPAL ADMINISTRATION AND WATER SUPPLY (MA2) DEPARTMENT

G.O.(Ms)No.112

Dated 31.7.2015 ÂUtŸSt® M©L 2046 k‹kj tUI«, Mo 15

Read:

From the Chairperson and Managing Director, Tamil Nadu Urban Finance and Infrastructure Development Corporation Limited, Lr.No. TUFIDCO / Smart City / 44/AM(S)/2015, Dated 20.07.2015.

ORDER:

In the letter read above, the Chairperson and Managing Director, Tamil Nadu Urban Finance and Infrastructure Development Corporation has stated that, the Ministry of Urban Development, Government of India, has recently launched the Smart Cities Mission, with the **objective** to promote cities that provide core infrastructure and give a decent quality of life to its citizens, a clean and sustainable environment and application of 'Smart' solutions. The Mission will cover **100 cities** and its duration will be **five years** (Financial Year 2015-16 to Financial Year 2019- 20).

- **2.** The core infrastructure elements in a Smart City would include adequate water supply; sanitation, including solid waste management; efficient urban mobility and public transport; affordable housing, especially for the poor; and robust IT connectivity and digitalization.
- 3. The strategic components of Area-based development in the Smart Cities Mission are; City Improvement Retrofitting; City Redevelopment; Greenfield development and Pan-city development. A Smart City is expected to encapsulate either of these, or a mix thereof and a Pan-city feature with Smart Solution(s), which include, e-Governance and Citizen Services; Waste Management; Water Management; Energy Management and Urban Mobility, etc.
- **4.** The total number of 100 Smart Cities have been distributed among the States and Union Territories on the basis of equal weightage (50:50) to urban population of the State and the number of statutory towns in the State. In the

first year of the Program, 20 cities will be taken up, followed by 40 cities, each in the second and third years. As per the guidelines, **12 cities** have been allotted to Tamil Nadu.

- **5.** In Stage I of the **Process of Selection of Smart Cities**, cities in the State will compete on the conditions precedent and the **'Thirteen Criteria'** scoring criteria (100 points), which are laid out in the guidelines. **In Stage 2**, competition among the smart city proposals is the basis for the selection of cities.
- **6.** The financial support of Government of India for the Centrally Sponsored Smart City Mission will be to the extent of Rs.48,000 crores over five years i.e. on an average Rs. 100 crore per city per year. An equal amount, on a matching basis, will have to be contributed by the State/Urban Local Body.
- **7.** Under the Scheme, 93% is project funds and the balance is Administrative and Office Expenses funds for the State/ Urban Local Body (5%) and the Ministry of Urban Development (2%). Each selected Smart City will be given Rs.194 crore in the first year, followed by Rs. 98 crore out of Rs. 100 crore every year for the next three years.
- 8. As per the guidelines, a **State level High Powered Steering Committee (HPSC)** chaired by the Chief Secretary, which would steer the Mission Programme in its entirety is to be constituted. The key responsibilities of the Committee are, i. to provide guidance to the Mission; ii. oversee the process of first stage Intra-State competition; iii. review the Smart City Proposals and forward to the Ministry of Urban Development for participation in the Challenge.
- **9.** Further, as per the guidelines, there would be a **State Mission Director**, whose functions include assisting the state level High Powered Steering Committee, guiding the Urban Local Bodies/Special Purpose Vehicles for planning, mobilizing funds and implementation of the smart city program.
- 10. The Chairperson and Managing Director, Tamil Nadu Urban Finance and Infrastructure Development Corporation Limited, has stated that, the Tamil Nadu Urban Finance and Infrastructure Development Corporation has successfully implemented various Government of India programmes including the Jawaharlal Nehru National Urban Renewal Mission and this expertise would enable the organization to effectively function as the Mission Directorate.
- 11. The mission envisages that, each Smart City will have a **Special Purpose Vehicle (SPV)**, headed by a full time Chief Executive Officer and have nominees of Central Government, State Government and Urban Local Body on its Board.
- **12.** As regards **Special Purpose Vehicle**, based on the indicative composition and their functions as given in the guidelines, the Chairperson and Managing Director, Tamil Nadu Urban Finance and Infrastructure Development Corporation, has proposed to constitute Special Purpose Vehicle as below:
 - City Level Special Purpose Vehicle (SPV) may be formed as a limited company under the Companies Act, 2013 and

will be promoted by the State and the Urban Local Body jointly, both having 50:50 equity shareholding. This shareholding pattern has to be maintained at all times. The State and Urban Local Body together have majority shareholding and control of the Special Purpose Vehicle.

ii. In order to facilitate smooth start up of the Mission and to have a holistic view of the infrastructure and basic amenities in the State, the Director of Municipal Administration or a Secretary Level Officer may be designated as the Chairman of the Special Purpose Vehicle Board. In case of Chennai, the Commissioner of Chennai Corporation may be designated as Chairman of the Special Purpose Vehicle. Accordingly, the Special Purpose Vehicle may be formed in each city under the Companies Act, 2013, with the composition of;

a.	Commissioner, Corporation of Chennai / Director of Municipal Administration /Secretary level Officer	Chairman
b.	Representative from Ministry of Urban Development	Director
c.	Representative from Finance Dept, Government of Tamil Nadu.	Director
d.	Corporation/ Municipal Commissioner	Director
e.	Chief Executive Officer of respective Special Purpose Vehicle	Director
f.	Independent Directors- Two Numbers	Director

Financial Institution

iii. As regards delegating necessary powers to the Special Purpose Vehicle in order to ensure operational independence and autonomy in decision making, it is proposed that, a. the approval or decision making powers available to the Municipal Administration Department and b. the matters that require the approval of the State Government may be delegated, respectively, to the Board of Directors of the Special Purpose Vehicle and the State Level High Powered Steering Committee for Smart Cities, on a case-to-case basis

13. One of the conditions precedent for the first stage of the selection process is, constitution of Inter-departmental Task Force consisting of parastatal bodies, Urban Local Body, Organizations and Urban Development Authorities in order to make the city Smart. It is proposed to constitute the city level **Inter-departmental Task Force**, as below:

i.	District Collector/Commissioner in	Chairman
	respect of Chennai	Chairman

ii.	Corporation Commissioner/Deputy Commissioner of Corporation (works) in respect of Chennai	Member- Convenor							
iii.	Chief Executive Officer of the Special Purpose Vehicle	Member							
iv.	Engineering Director, Chennai Metropolitan Water Supply and Sewerage Board / Superintending Engineer/Executive Engineer, Tamil Nadu Water Supply and Drainage Board	Member							
v.	Superintending Engineer, Tamil Nadu Generation and Distribution Corporation Limited (TANGEDCO)	Member							
vi.	Superintending Engineer/Divisional Engineer, Highways	Member							
vii.	Assistant Director of Town and Country Planning	Member							
viii.	Executive Engineer concerned, Tamil Nadu Housing Board	Member							
ix.	Executive Engineer concerned, Tamil Nadu Slum Clearance Board	Member							
х.	District Information Officer, National Informatics Centre	Member							
	Any officer of the State/Central Government, as the District Collector deems necessary								

14. As per the guidelines, City Level Smart City Advisory Forum will be established for each Smart City to advise and enable collaboration among various stakeholders. Based on inputs from the line departments, the Chairperson and Managing Director, Tamil Nadu Urban Finance and Infrastructure Development Corporation Limited, has proposed the constitution of Smart City Advisory Forum as below:

i.	District Collector/Commissioner in respect of Chennai	Chairman
ii.	Member of Parliament	Co-Chairman
iii.	Member of Legislative Assembly	Member
iv.	Mayor	Member
ν.	City Commissioner (other than Chennai)	Member
vi.	Chief Executive Officer of the Special Purpose Vehicle	Member - Convener
vii.	Local Youth*	Member
viii.	Technical Expert *	Member
ix.	Non Government Organization/Chamber of Commerce/ Slum Level Federation *	Member

(*As decided by the Chairman of the Committee)

- 15. The Government after careful examination has decided to accept the proposal of the Chairperson and Managing Director, Tamil Nadu Urban Finance and Infrastructure Development Corporation, and accords **Administrative Sanction** for the implementation of the Smart City Mission in the State, with the following institutional arrangements.
- I. Constitution of the State level High Powered Steering Committee, under the Chairmanship of Chief Secretary to Government as below:

Chief Secretary to Government	Chairman
Principal Secretary, Municipal Administration and Water Supply Department	Member
Principal Secretary to Government, Finance Department	Member
Principal Secretary to Government, Planning, Development and Special Initiative Department	Member
Secretary to Government, Housing and Urban Development Department	Member
Representative of Ministry of Urban Development	Member
Mayors of Corporation (After Selection)	Member
Commissioners of Corporations (After Selection)	Members
Chief Executive Officers of the Special Purpose Vehicle in the State (After formation)	Members
Director of Municipal Administration	Member
Managing Director, Tamil Nadu Water Supply and Drainage Board	Member
Managing Director, Chennai Metropolitan Water Supply and Sewerage Board	Member
Chairman and Managing Director, Tamil Nadu Urban Finance and Infrastructure Development Corporation Limited/State Mission Director	Member - Secretary

- II. The Chairperson and Managing Director, Tamil Nadu Urban Finance and Infrastructure Development Corporation is designated as the **State Mission Director** and the Tamil Nadu Urban Finance and Infrastructure Development Corporation, as the **Mission Directorate.**
- III. Constitution of **Special Purpose Vehicle**, as a limited company under the Companies Act, 2013, with 50:50 equity share holding by the State and the Urban Local Body; the Director of Municipal Administration or a Secretary Level Officer as Chairman; in case of Chennai Corporation, Commissioner as Chairman; the detailed composition and other features, as at para 12 above.

7.

- **IV. City Level Inter-departmental Task Force**, with District Collector and in respect of Chennai, Commissioner of Corporation, with composition, as detailed at para 13 above.
- V. City Level Smart City Advisory Forum, with District Collector/Commissioner in respect of Chennai as Chairman; Member of Parliament as Co-Chairman and with detailed composition as at para 14 above.
- 16. This order issues with the concurrence of the Finance department, vide its U.O.No.32/Fin(DS (PW))/2015, Dated 31.7.2015.

(BY ORDER OF THE GOVERNOR)

K. PHANINDRA REDDY PRINCIPAL SECRETARY TO GOVERNMENT

To

The Ministry of Urban Development, Government of India, New Delhi - 110 011.

The Commissioner, Corporation of Chennai, Chennai-3.

The Chairperson and Managing Director,

Tamil Nadu Urban Finance and Infrastructure

Development Corporation Limited, Chennai-35.

The Director of Municipal Administration, Chennai-5.

The Director of Town Panchayats, Chennai-108.

The Managing Director,

Chennai Metropolitan Water Supply and Sewerage Board, Chennai-2.

The Managing Director,

Tamil Nadu Water Supply and Drainage Board, Chennai-5.

Copy to

The Finance Department, Chennai-9.

The Planning, Development and Special Initiative Department, Chennai-9.

The Housing and Urban Development Department, Chennai-9.

The Municipal Administration and Water Supply (OP II) Department, Chennai-9.

/FORWARDED BY ORDER/

SECTION OFFICER

7. Recommendation letter by Municipal Commissioner for alternate accommodation for unauthorized houses in Retrofit Area around Moat and West to the Big Temple

அனுப்புநா்,
திரு.த.குமாா்,எம்.காம்.,
ஆணையாளா்,
தஞ்சாவூா் மாநகராட்சி,
தஞ்சாவூா்.

ந.க.எண்.7019/2015/இ1, நாள்.14.12.2015

அய்யா,

பொருள்	நவீன நகரம் "Smart City" – தஞ்சாவூர் மாநகராட்சி – குடிசை		
88	மாற்று வாரியத்தின் புதிய குடியிருப்புகள் பின் தங்□கியுள்ள பகுதி		
	மக்களுக்கு ஒதுக்கீடு செய்து தர கோருதல் – தொடர்பாக.		
பார்வை	திட்டப்பணிகள் குறித்த மாவட்ட ஆட்சித்தலைவா அவாகளது ஆய்வு கூட்ட குறிப்பு		

இம்மாநகராட்சி மத்திய அரசால் செயல்படுத்தப்பட உள்ள நவீன நகரம் "Smart City" திட்டத்தின் கீழ் நகரத்தினை செம்மைப்படுத்திட அகழியை ஒட்டியுள்ள பகுதியில் குடியிருக்கும் பின் தங்கிய மக்களுக்கு குடியிருப்புகள் ஒதுக்கீடு செய்து தர நடவடிக்கை எடுக்கக்கோரி பார்வையில் கண்ட திட்டப்பணிகள் குறித்த ஆய்வு கூட்டத்தில் தெரிவிக்கப்பட்டுள்ளது. எனவே குடிசை கட்டப்படும் புதிய குடியிருப்பு மாற்று வாரியத்தால் வீடுகளை இம்மாநகராட்சிக்குட்பட்ட பின் தங்கிய அகழி பகுதியில் குடியிருக்கும் மக்களுக்கு ஒதுக்கிடு செய்து தருமாறும் இதற்கான அனுமதியினை வழங்கக்கோரி தமிழ்நாடு குடிசைமாற்று வாரிய அலுவலகத்திற்கு தெரியப்படுத்துமாறும் பணிவுடன் கேட்டுக் கொள்ளப்படுகிறது.

நகல் 1. செயற்பொறியாளர், தமிழ்நாடு குடிசை மாற்று வாரியம், தஞ்சாவூர்.

> உதவிப்பொறியாளர், தஞ்சாவூர் மாநகராட்சி.

8. Recommendation letter by Municipal Commissioner for alternate accommodation for unauthorized houses in Retrofit Area around Moat and West to the Big Temple

அனுப்புநர், பெறுநர், திரு.த்.குமார்,எம்.காம்., மாவட்ட ஆட்சித்தலைவர், அணையாளர், மாவட்ட ஆட்சியர்அலுவலகம், தஞ்சாவூர் மாநகராட்சி, தஞ்சாவூர். தஞ்சாவூர். ந.க.எண்.7019/2015/இ1, நாள்.14.12.2015

அய்யா,

பொருள் நவீன நகரம் "Smart City" – தஞ்சாவூர் மாநகராட்சி – குடிசை மாற்று வாரியத்தின் புதிய குடியிருப்புகள் பின் தங்கியுள்ள பகுதி மக்களுக்கு ஒதுக்கீடு செய்து தர கோருதல் – தொடர்பாக. திட்டப்பணிகள் குறித்த மாவட்ட ஆட்சித்தலைவர் அவர்களது பார்வை ஆய்வு கூட்ட குறிப்பு

இம்மாநகராட்சி மத்திய அரசால் செயல்படுத்தப்பட உள்ள நவீன நகரம் "Smart City" திட்டத்தின் கீழ் நகரத்தினை செம்மைப்படுத்திட பெரிய கோவில் மேற்கு பகுதியில் உள்ள அகழியை ஒட்டியுள்ள பகுதியில் குடியிருக்கும் பின் தங்கிய மக்களுக்கு குடியிருப்புகள் ஒதுக்கீடு செய்து தர நடவடிக்கை எடுக்கக்கோரி பார்வையில் கண்ட கிட்டப்பணிகள் குறித்த ஆய்வு கூட்டத்தில் தெரிவிக்கப்பட்டுள்ளது. எனவே குடிசை மாற்று வாரியத்தால் கட்டப்படும் புதிய குடியிருப்பு வீடுகளை இம்மாநகராட்சிக்குட்பட்ட பின் தஙகிய அகழி பகுதியில் குடியிருக்கும் மக்களுக்கு ஒதுக்கிடு செய்து தருமாறும் இதற்கான அனுமதியினை வழங்கக்கோரி தமிழ்நாடு குடிசைமாற்று. வாரிய அலுவலகத்திற்கு தெரியப்படுத்துமாறும் பணிவுடன் கேட்டுக் கொள்ளப்படுகிறது.

> அணையாளர், 23 தஞ்சாவூர் மாநகராட்சி.

நகல் 1. செயற்பொறியாளர், தமிழ்நாடு குடிசை மாற்று வாரியம். தஞ்சாவூர்.

> 2. உதவிப்பொறியாளர், குஞ்சாவூர் மாநகராட்சி.

9. Minutes of the High Power Steering Committee



Municipal Administration and Water Supply (MAII) Department, Secretariat, Chennai- 600 009.

MINUTES OF THE SECOND STATE LEVEL HIGH POWERED STEERING COMMITTEE MEETING HELD ON 21.12.2015 AT 5.30 P.M FOR SMART CITY MISSION

The Second meeting of the **State Level High Powered Steering Committee** for **Smart City Mission** was held in the Chief Secretary Conference Hall, Secretariat on 21.12.2015 at 5.30 P.M under the Chairmanship of **Thiru K. Gnanadesikan, I.A.S.,** Chief Secretary to Government.

The following members attended the meeting:

Thiru K Shanmugam IAS.
 Principal Secretary to Govt,
 Finance Department, Secretariat
 Chennai-600 009

Member

 Thiru K.Phanindra Reddy IAS. Principal Secretary to Government. Municipal Administration and Water Supply Department Secretariat, Chennai-600 009

Member

Thiru S.Krishnan IAS.
 Principal Secretary to Government.
 Planning, Development and
 Special Initiatives Department,
 Secretariat, Chennai-600 009

Member

4. Thiru.Vikram Kapoor, I.A.S. Principal Secretary/Commissioner, Corporation of Chennai, Chennai-600 003.

Member

 Dr. S. Swarna, I.A.S. Chairperson and Managing Director, TUFIDCO, Nandanam, Chennai – 600 035.

Member-Secretary

Member 6. Dr.B.Chandra Mohan, I.A.S., Managing Director, Chennai Metropolitan Water Supply and Sewerage Board, Chennai- 600 002 Member 7. Thiru. Vijayaraj Kumar, I.A.S. Managing Director, TamilNadu Water supply & Drainage Board, Chepauk, Chennai-600 009. Member 8. Thiru G. Prakash, I.A.S. Director of Municipal Admin. Chepauk, Chennai-600 005. Mentor 9. Tmt. Kakarla Usha, I.A.S. Managing Director, TNUIFSL, Chennai. Member 10. Thiru M. Kathiravan, I.A.S Commissioner, Madurai Corporation Member 11.Dr.Vijaya Karthikeyan, I.A.S Commissioner, Coimbatore Corporation Member 12.Tmt M.Vijayalakshmi Commissioner, Trichy Corporation Member 13. Thiru N. Manohar Commissioner, Dindugul Corporation Member 14.Thiru P.Kumar Commissioner, Thanjavur Corporation Member 15. Thiru S. Sivasubramanian Commissioner,

Tirunelveli Corporation

16.Thiru K.R.Selvaraj Commissioner, Salem Corporation Member

17.Thiru R.Mohan Commissioner, Erode Corporation Member

18.Tmt P.Janaki Ravindran Commissioner, Vellore Corporation Member

19.Thiru A.Laxmanan City Engineer, Thoothukudi Corporation Representing Thoothukudi Corporation

20.Thiru M.V.D.Tamilselvan Executive Engineer, Tiruppur Corporation Representing Tiruppur Corporation

The Chairperson and Managing Director, TUFIDCO elaborated the process adopted such as Citizen Engagement, Impact on the population, the rationale behind selection for Area based Development and PAN city Development Strategy by the Corporations for finalizing the 12 Smart Cities proposals before the Committee.

The Committee reviewed the Proposals presented by the 12 Corporations and deliberated in detail. The Committee accepted the rationale behind the strategy adopted by all the 12 Cities. The committee also directed that the technological options presented would have to be evaluated in detail for their technical feasibility and financial sustainability during projectisation stage. On discussion, the committee directed that the proposals be forwarded to Ministry of Urban Development, Government of India on-time.

K.GNANADESIKAN CHIEF SECRETARY &CHAIRMAN OF HPSC

//True Copy//

Section Officer

10. NOC by TANGEDCO for Implementation of Smart City



To whomsoever it may concern

Consequent to the 12 Corporations getting selected as Smart Cities, TANGEDCO has brought to the knowledge of the Corporation, the implementation of schemes that are in operation and in full agreement to the convergence of the schemes in the Smart City Mission. The department is very much interested in getting involved and providing necessary support in the implementation and operation of the sub projects identified under Area Based Development and Pan City Solutions, provided that there is funding by the Government of India/ Government of Tamil Nadu.

We confirm, No objection (NOC) towards implementation of the identified projects and wish Corporation for successful submission of Smart City Proposal to Government of India.

Chief Engineer/Planning & Resource Centre TANGEDCO

11. Thanjavur BSNL letter of support to the newly set-up Special Purpose Vehicle



BHARAT SANCHAR NIGAM LIMITED

(A Govt. of India Enterprise)

Office of the General Manager, Telecom., BSNL Complex, Thanjavur - 613 007

No. AGM (MIS&IT) / TNJ / Smart City / 2015-2016/3. Dated at TNJ the 23/12/2015

To

The Mission Director, Smart Cities Mission, Ministry of Urban Development, New Delhi.

Sir,

Sub.: Thanjavur BSNL – Letter of support towards coordinating and delivering the Pan-City and Area based Initiatives under the Smart City Mission in Thanjavur City Municipal Corporation.

=====

It is great please for us to note that Thanjavur City Municipal Corporation (TCMC) has been shortlisted to participate in the Smart City Challenge. As part of the Smart City initiative, we hope to undertake a host of projects under Pan City and Area Based components.

The following projects fall under the ambit of BSNL, Thanjavur. We assure you our support to the newly set up Special Purpose Vehicle in facilitating the required smart city components.

Components under the ambit of BSNL:

BSNL Landline and Broadband (Internet) connections.
 (Through underground cables – If duct provided along the road)

Leased Circuits / High Speed Data Network.

Prepaid & Postpaid mobile services (Voice & Data).

> Online payment system, smart phone based payment, etc.

(K PALANIAPPAN)
Asst. General Manager (MIS & IT)

O/o GMT, BSNL Thanjavur – 613 007

Copy to: The Commissioner, Municipal Corporation, Thanjavur w.r.t. Na.Ka.No.7019/2015/E1/ dated 22/12/2015 for favour of information please.

12. Thanjavur Electricity Distribution Circle letter of support to the newly set-up Special Purpose Vehicle

From,
Superintendent Engineer,
TamilNadu Generation and
Distribution Corporation Ltd.,
Thanjavur.

Lr.No. SE/TEPL, Dt.23.12.2015

Sir,

Sub: Thanjavur Electricity Distribution Circle – Letter of support towards co-ordinating and delivering the Pan – City and Area Based Initiatives Under the Smart City Mission in Thanjavur City Municipal Corporation.

It gives me great pleasure to note that Thanjavur City Municipal Corporation (TCMC) has been shortlisted to participate in the Smar City Challenge. As part of the Smart city initiative, we hope to undertake a host of projects under pan City and Area Base componenets.

We Understand that the following projects fall under the ambit of TNEB, Thanjavur District. I assure you our support to the newly so up Special Purpose Vehicle in facilitating the required smart cit components.

Components under the ambit of TNEB

- Underground power cabling, setting up of smart meters.
- · Online payment system, smart phone based payment etc.,
- Net metering arrangements for solar rooftop

Thanking You,

Yours faithfully,

OUPERINTENDING ENGINEER,
Thenjavur Elocy, Distribution Circle,
TANGED CO Ltd.,
THANJAVUR - 7.

13. Thanjavur Hindu Religious and Charitable Distribution Circle letter of support to the newly set-up Special Purpose Vehicle

From,	То,
Joint Commissioner, Hindu Religious and Charitable, Thanjavur.	The Mission Director, Smart Cities Mission, Ministry of Urban Development, Delhi.
Lr.No. 4109	, Dt. 23.12.2015

Sir

n .	I mile to the control of the control
Sub:	Thanjavur Hindu Religious and Charitable Distribution
	Circle - Letter of support towards co-ordinating and
	delivering the Pan - City and Area Based Initiatives
	Under the Smart City Mission in Thanjavur City
	Municipal Corporation.

It gives me great pleasure to note that Thanjavur City Municipal Corporation (TCMC) has been shortlisted to participate in the Smart City Challenge. As part of the Smart city initiative, we hope to undertake a host of projects under pan City and Area Based componenets.

We Understand that the following projects fall under the ambit of Hindu Religious and Charitable, Thanjavur District. I assure you our support to the newly set up Special Purpose Vehicle in facilitating the required smart city components.

Thanking You,

Yours faithfully,

உதவி ஆணையர், இந்து சமய அந்நிலைய ஆட்சித்துறை தஞ்சாலும்

14. Tamil Nadu State Transport Corporation letter of support to the newly set-up Special Purpose Vehicle

From, DIVISION AL MANAGER Tamil Nadu State transport Corporation, Kumbakonam (Division), Thanjavur.	To, The Mission Director, Smart Cities Mission, Ministry of Urban Develop	nent.
. Lr.No.	, Dt12.2015	а .

Sir,

Sùb:	Letter of sup	port towa	ırds	co-ordinatir	ng and	d delive	ring
	the Pan -Cit	y and A	rea	Based Initia	atives	Under	the
	Smart City	Mission	in	Thanjavur	City	Munio	cipal
	Corporation.		ů.	2 5		. 8	

It gives me great pleasure to note that Thanjavur City Municipal Corporation (TCMC) has been shortlisted to participate in the Smart City Challenge. As part of the Smart city initiative, we hope to undertake a host of projects under pan City and Area Based componenets. We Understand that the following projects fall under the ambit of Tamil Nadu State Transport Corporation, Thanjavur District. I assure you our support to the newly set up Special Purpose Vehicle in facilitating the required smart city components.

Components under the ambit of Tamil Nadu State Transport Corporation, Thanjavur District

- Improving last Mile Connectivity by introducting feeder systems in sub - arterial roads.
- Increase in number on intra city buses
- Tracking the exact bus location of both feeder and arterial transportation systems
- Single E -ticketing System
- Modernization of Bus Stops including Digital Display boards
 and Kiosks
- Decongesting traffic through re-routing all commercial greight vehicles and inter city busses through green circle and Abdullahpuram to the new bus stand.

Thanking You,

Yours faithfully,

Divisional Manageria Average Tamilinado State Transport Corporados (Kumbakonam) Ltd.
THANJAVUR

15. Tamil Nadu Slum Clearance Board Distribution, Trichy Division letter of support to the newly set-up Special Purpose Vehicle

From,	To,
B.MALA, B.E., Executive Engineer, Tamil Nadu Slum Clearence Board, Trichy Division, Trichy - 8	The Mission Director, Smart Cities Mission, Ministry of Urban Development, Delhi.
Lr.No. 3766 / JE(P) / 2015 - SC	Dt.24.12.2015

Sir,

Sub:	Tamil Nadu Slum Clearence Board Distribution - Trichy				
	Division - Letter of support towards co-ordinating and				
	delivering the Pan - City and Area Based Initiatives				
	Under the Smart City Mission in Thanjavur City				
	Municipal Corporation.				

It gives me great pleasure to note that Thanjavur City Municipal Corporation (TCMC) has been shortlisted to participate in the Smart City Challenge. As part of the Smart city initiative, we hope to undertake a host of projects under pan City and Area Based components. We Understand that the following projects fall under the ambit of Slum Clearence Board, Thanjavur District. I assure you our support to the newly set up Special Purpose in facilitating the required smart city components.

Components Under the ambit of Slum Clearence Board:

- 1. Providing Housing for the Economically Weaker Section people.
- 2. Providing Basic amenities like Roads, Drains, Culverts, water supply & Sanitary arrangements etc to slum areas.

Yours faithfully,

16. Thanjavur Superintendent of Police Distribution Circle letter of support for to the newly set-up Special Purpose Vehicle

POLICE DEPARTMENT

From

To

Superintendent of Police, Thanjavur District, Thanjavur. The Mission Director, Smart Cities Mission, Ministry of Urban Development, Delhi.

Dated: .12.2015.

Sir,

Sub: Thanjavur Superintendent of Police Distribution
Circle – Letter of Support towards co-ordinating
and delivering the Pan-City and Area Based
Initiatives under the Smart City Mission in
Thanjavur City Municipal Corporation.

It gives me great pleasure to note that Thanjavur City Municipal Corporation (TMC) has been shortlisted to participate in the Smart City Challenge. As part of the Smart City initiative, we hope to undertake a host of projects under Pan City and Area Based components.

We understand that the following projects fall under the ambit of Superintendent of Police, Thanjavur District. I assure you our support to the newly set up Special Purpose in facilitation the required Smart City components.

Components under the ambit of Superintendent of Police

Initiative for Smart Traffic Management :-

- Road to be widened.
- All the Junction and Streets should be equipped with CCTV and Public Address System.
- All CCTV and Public Address System should have a Centralized Control.
- Parking and Multistoried Parking Lots should be built in places of necessity.

- 5. Data regarding No.of vehicles parked and spaces availability should be sent to control and Solarized.
- 6. Signals and CCTV and Street Lights should be Solarized.
- 7. Information Boards updated from Centralized Control should be placed at Main Junction and information regarding diversion, congestion and parking availability should be displayed.
- 8. 4 numbers of Recovery Vans with Public Address System and necessary Patrol vehicles should be provided equipped with GPS and also should be connected to control.
- 9. Synchronization of Signals for Ambulance and VVIP should be done.
- 10. Elevators and Sub Ways should be built at marked areas.
- 11. Tracks for Cyclist should be laid.
- 12. Sign Boards should be erected along roads.
- 13. Police Booths should be built at crowded areas for control and assistance.
- 14. Sufficient numbers of communication equipments like Walkie-talkies, VHF Sets and HF Sets should be supplied.
- 15. Towers should be erected for hurdle free communication.

16. Sufficient strength of Police should be allotted.

Inspector of Police, Traffic Regulation Wings Thanjavur Town.

25/12/11

17. Infrastructure Amenities fund Thanjavur Municipal Corporation wetting the Structural Designs for Construction of Bridge



DEPARTMENT OF CIVIL ENGINEERING NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI – 620 015

NITT/CE/RJ/Thanjavur/1

Date:23.12.2015

From R.Jayasankar, Associate Professor, Department of Civil Engineering, National Institute of Technology, Tiruchirappalli – 620 015.

To The Commissioner, Thanjavur City Municipal Corporation, Thanjavur.

Sir,

 $\begin{tabular}{ll} \bf Sub: Infrastructure\ Amenities\ Fund\ - Thanjavur\ City\ Municipal\ Corporation\ - Construction\ of\ bridge\ across\ the\ moat\ areas\ and\ road\ bridge\ across\ GA\ Canal-Wetting\ the\ structural\ design\ - reg. \end{tabular}$

Ref: Your letter Roc.No.9263/2015/E1/ Dated: 11.12.2015

The structural design furnished for the following projects are checked:

Sl.No.	Name of the project			
1.	Western part of the Moat near Srinivasapuram Location: 0/0 km			
2.	Western part of the Moat near Srinivasapuram Location: 0/19 km			
3.	Western part of the Moat near Srinivasapuram Location: 0/298 km			
4.	Northern part of the Moat Location: 1/100 km			
5.	Northern part of the Moat Location: 1/520 km			
6.	Northern part of the Moat Location: 1/900 km			
7.	Eastern part of the Moat Location: 2/320 km			
8.	Eastern part of the Moat Location: 2/930 km			
9.	Eastern part of the Moat Location: 3/300 km			
10.	Construction of additional road bridge across GA Canal at Thanjavur Big Temple.			

This is for your kind information and necessary action

Thanking you,

Assessint Professor
Department of Civil Regissoring
Yestonal Instant of Technologi
Terachinepp. 11: 220-019





To,
Mr. T.Kumar
Commissioner
Thanjavur Municipal Corporation

<u>Subject: Letter of Support for Thanjavur Smart City Initiative under Smart City Mission of Government of India</u>

Dear Sir,

Our company is pleased to submit our letter of support for Thanjavur smart city initiatives.

IBM is the leader in Smarter Cities technology. We have done more then 2500+ smarter cities projects around the world. IBM solutions for Smarter Cities includes Integrated City Command and Operations Center, Smarter Public Safety Solutions, Smarter Emergency/Disaster Management Solutions, Smarter Transportation, Smarter Water Management, Smarter Healthcare and Smarter Energy.

In our opinion, some of the known challenges faced by Thanjavur includes Water Management, Sewerage Management, Solid Waste Management and Transportation. However, despite all these challenges, I firmly believe that Thanjavur is an excellent candidate for the Smart City initiative.

Given a chance, we will be pleased to work alongside the Thanjavur Municipal Corporation in identifying and alleviating the primary areas of development and help Thanjavur realize its dream of being a Smart city; based on mutual consensus.

We look forward to working with you in developing and converting Thanjavur into a smart city.

Regards

Rajul Mehrotra

General Manager & Program Lead- 100 Smart Cities

Email: rajulmehrotra@in.ibm.com

Phone: 9611255888

IBM India Private Limited

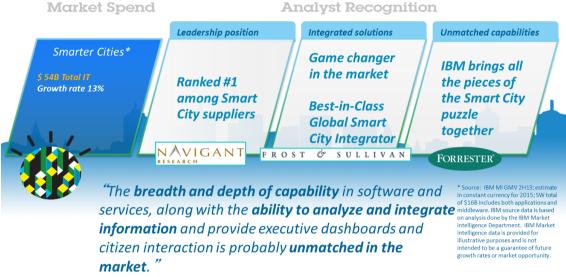
First Technology Place, EPIP Zone, Bangalore - 560067



About IBM

From the inception of its Smarter Cities program in 2008, IBM has led the way in establishing itself as a leading provider of smart city solutions, entering into key collaborations with local authorities.

IBM has been consistently recognized by the analyst community as the leader in Smarter Cities across various categories.



Forrester (Aug 2013)

IBM solutions for Smarter Cities includes Integrated City Command and Operations Center, Smarter Public Safety Solutions, Smarter Emergency/Disaster Management Solutions, Smarter Transportation, Smarter Water Management, Smarter Healthcare and Smarter Energy.

Know more about IBM Smarter Cities Solutions

IBM Intelligent Operations Center(City Command & Control Center) https://www.youtube.com/watch?v=wmgRSW0DwVY

IBM Intelligent Operations Center for Emergency Management https://www.youtube.com/watch?v=vz5CrGxLXzM

Smart Transportation: Integrating Systems for More Efficient Transportation https://www.youtube.com/watch?v=bUyourDcWzw

IBM Smarter Cities Water Management https://www.youtube.com/watch?v=jNKYlt6XhR8

Smart Energy & Utilities: Energy Efficiency and Water Conservation for Resource Management

https://www.youtube.com/watch?v=2wnglEP5gss



SASTRA UNIVERSITY

(A University under section 3 of the UGC Act, 1956)

THANJAVUR - 613 401, TAMIL NADU, INDIA.

Ph: +91 4362 264101 - 108, 304000 - 29, Fax:+ 91 4362 264120, URL: www.sastra.edu

14-6-2016

To,

WHOMSOEVER IT MAY CONCERN

The School of Management of SASTRA University has undertaken a field study with the visiting foreigners to Thanjavur during November 2015 to obtain their views about the basic infrastructure and other support facilities available and their suggestions for improving tourism in Thanjavur District. A report was submitted to DC india, Mumbai, the consultants of Thanjavur Smart city project. We are also happy to be a part of creating a smart city in Thanjavur District. SASTRA UNIVERSITY will extend all possible support for the proposed project.

We are also glad to forward various smart ideas given by the faculty members, students, NGOs, Government officials and others during the one day National Seminar organized by the School of Management, SASTRA University on creating smart city in India. We have conducted a competition among our students on "smart ideas for smart city" and prizes were given to best ideas. We also shared our valuable ideas in the consultation meeting held at Thanjavur District Collectorate and Thanjavur Corporation Office on this topic.

We strongly believe that Thanjavur, once the "Cultural Capital of India", has all the potentials to become a smart city. In Thanjavur,we have many attractions like the thousand year old architectural marvel "Big Temple", the lower anaicut ("Kalannani Dam"-the only living dam of 1000 years old) built by Chola Emperor "Karikalan" and 1000 years old "Saraswathi Mahal" — a treasure of old manuscripts and books and the famous centuries old temples of saivites and Dhivyadesams of vaishnavites, the lush green agriculture fields, very old churches and mosques, very unique handicrafts are the USPs of Thanjavur. The topography and the other infrastructure facilities available are enough to place Thanjavur ahead of the rest of Districts in Tamilnadu State. We sincerely believe that the proposal for creating Thanjavur as a smart city will benefit the local community, the people of Tamilnadu State and India as a whole in a big way.

Thanking you,

Yours sincerely,

For the Dean)

MINUTES OF THE THIRD STATE LEVEL HIGH POWERED STEERING COMMITTEE MEETING HELD ON 23.06.2016 AT 5.30 P.M FOR SMART CITY MISSION

The third meeting of the State Level High Powered Steering Committee for Smart City Mission was held in the Chief Secretary conference hall, Secretariat on 23.06.2016 AT 5.30 P.M under the Chairmanship of Dr.P.Rama Mohana Rao, I.A.S., Chief Secretary to Government.

The following members attended the meeting:

1	Thiru K.Shanmugam, I.A.S., Addl Chief Secretary to Government, Finance Department, Secretariat, Chennai-600 009	Member
2	Thiru K. Phanindra Reddy, I.A.S., Principal Secretary to Government Municipal Administration and Water Supply Department Secretariat, Chennai - 600009.	Member
3	Thiru S.Krishnan, I.A.S., Principal Secretary to Government, Planning Development and Special Initiatives Department, Secretariat, Chennai-600 009	Member
4	Thiru.Vikram Kapoor, I.A.S. Principal Secretary/Managing Director, Chennai Metropolitan Water Supply and Sewerage Board, Chennai- 600 002.	Member
5	Dr. S. Swarna, I.A.S. Chairperson and Managing Director, TUFIDCO, Nandanam, Chennai – 600 035.	Member-Secretary
6	Thiru. Vijayaraj Kumar, I.A.S. Managing Director, TamilNadu Water supply & Drainage Board, Chepauk, Chennai-600 009.	Member
7	Thiru.Sandeep Nanduri, I.A.S., Commissioner, Madurai Corporation	Member

8	Tmt. N.S.Prema, Commissioner, Trichy Corporation	Member
9	Thiru N.Manohar, Commissioner, Dindigul Corporation	Member .
10	Thiru. M.Varadaraj, Commissioner, Thanjavur Corporation	Member
11	Thiru. Sivasubramaniam, Commissioner, Tirunelveli Corporation	Member
12	Thiru. K.R.Selvaraj Commissioner, Salem Corporation	Member
13	Thiru. Seeni Ajmalkhan, Commissioner, Erode Corporation	Member
14	Thiru T.Kumar, Commissioner, Vellore Corporation	Member
15	Tmt.R.Poongodi Arumaikkan, Commissioner Thoothukudi Corporation	Member
16	Thiru M.Ashokan, Commissioner, Tiruppur Corporation	Member

The Chairperson and Managing Director, TUFIDCO elaborated the process adopted such as Citizen Engagement, Impact on the population, the rationale behind selection for Area Based Development and PAN city Development Strategy by the Corporations for finalizing the 10 Smart Cities proposals before the Committee.

The Committee reviewed the Proposals presented by the 10 Corporations and deliberated in detail. The Committee accepted the rationale behind the strategy adopted by all the 10 Cities. The Committee requested to incorporate all the basic service projects in the ABD area and also explore the possibility of more PPP projects. The Committee also directed that the technological options presented would have to be evaluated in detail for their technical feasibility and financial sustainability during projectisation stage. On discussion, the Committee directed that the proposals be forwarded to Ministry of Urban Development, Government of India on-time.

Principal Secretary,
Municipal Administration and Water Supply Department

اهداءاله على المداعة Chief Secretary to Government &

Chairman of the SHPSC