

Self Assessment Form - Kakinada

S.No	Feature	Definition	Scenario 1 (BASE)	Scenario 2	Scenario 3	Scenario 4 (ADVANCED)	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 current 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)	The City begins identifies priorities and projects to pursue without consulting citizens.	City undertakes citizen participation with some select stakeholders. The findings are compiled and incorporated in some projects or programs. Very few major decisions are shared with citizens until final projects are unveiled.	City conducts citizen engagement at city level and local area level with most stakeholders and in most areas. The findings are compiled and incorporated in projects or programs.	City constantly conducts citizen engagement with people at each Ward level to incorporate their views, and these shape priorities and development projects in the city. Multiple means of communication and getting feedback such, both face-to-face and online are utilised. The effectiveness of city governance and service delivery is constantly enhanced on the basis of feedback from citizens.	City constantly conducts citizen engagement with people at each Ward level to incorporate their views, and these shape priorities and development projects in the city. Multiple means of communication and getting feedback, both face-to-face and online are utilised. The effectiveness of city governance and service delivery is constantly enhanced on the basis of feedback from citizens	1. web polling through mygov.in Voted around 15000 people through 6 polls. 2. Created dedicated facebook page (https://www.facebook.com/smartkakinada/)and No of likes 11343, outreach 36113,twitter page (https://twitter.com/smartkakinada)total no. of followers are 81.	Citizens of Kakinada are participating in decisions over major projects under Smart city initiative that will transform their city. They want to make their contribution not only at the earliest stage of planning, but also throughout the project lifecycle. The authorities will regularly involve the citizens of Kakinada in decision making for all the projects for transforming the city a world class destination for investors	City is planning to develop a latest ICT (Information and Communication Technology) system to have constant dialogue with Citizens of Kakinada
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)	There are few architectural monuments, symbols, and festivals that emphasise the unique character of the city. Built, natural and cultural heritage is not preserved and utilised or enhanced through physical, management and policy structures.	Historic and cultural resources are preserved and utilised to some extent but limited resources exist to manage and maintain the immediate surroundings of the heritage monuments. New buildinds and areas are created without much thought to how they reflect the identity and culture of hte city.	Historic and cultural heritage resources are preserved and utilised and their surroundings are well-maintained. Public spaces, public buildings and amenities reflect the cultural identity of the city;	Built, natural and intangible heritage are 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.	Historic and cultural heritage resources are preserved and utilised and their surroundings are well maintained. Public spaces, public buildings and amenities reflect the cultural identity of the city.	1. Renovation and Conservation of Municipal Council hall. 2. Conserving the victoria water works which was constructed in 1933 by British Government. 3. Conservation of Gandhi park which has historical importance .	Kakinada aspires to be regional tourism hub for coastal Andhra with the strong natural, historical and religious tourism	Kakinada is a notable place with its rich and varied places of tourist attraction as it has a wonderful blend of nature as well as heritage. It is a place of rich tradition, breathtaking natural beauty, historical significance, holy pilgrimage center, beautiful virgin beaches, hillocks, stunning landscapes, soothing rivers, amidst picturesque setting. City is planning to prepare tourism circuits connecting to all the significant structures and places to boost up the tourism sector of the city.

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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)	There are some job opportunities in the city but they do not reach all sections of the population. There are a high number of jobs in the informal sector without sufficient facilities.	There is a range of job opportunities in the city for many sections of the population. The city attempts to integrate informal economic activities with formal parts of the city and its economy.	There are adequate job opportunities for all sections of society. But skill availability among residents can sometimes be a challenge.	There are adequate opportunities for jobs for all sections of income groups and skill levels. Job-oriented skill training supported by the city and by industry. Economic activities are suited to and build on locational and other advantages of the city.	There are some job opportunities in the city but they do not reach all sections of the population. There are a high number of jobs in the informal sector without sufficient facilities.		City aspires and wants to bring the investments with the help of city strengths (Ports, Tourism & Marine)	Establishment of multi skill development centres to train and improve their skills so that maximum employment opportunities to all sections shall be reached.
4	Education	A Smart City offers schooling and educational opportunities for all children in the city (Guideline 2.5.10)	The city provides very limited educational facilities for its residents. There are some schools but very limited compared to the demand. Many schools are in poor condition.	City provides adequate primary education facilities within easily reachable distance of 15 minutes walking for most residential areas of the city. The city also provides some secondary education facilities.	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.	City provides adequate and high-quality education facilities within easily reachable distance of 10 minutes walking for all the residential areas of the city and provides multiple options of connecting with specialised teaching and multi media enabled education. Education facilities are regularly assessed through database of schools including number of students, attendance, teacher-student ratio, facilities available and other factors.	City provides adequate primary education facilities within easily reachable distance of 15 minutes walking for most residential areas of the city. The city also provides some secondary education facilities	There are 64 Municipal schools within 32 sq.km area . On an average each ward has 1-2 primary/secondary schools with in reachable time of 15 min. .	City aspires to provide IT e	City is planning to improve the infrastructure through following initiatives• • School infrastructure upgradation – fans, lights, chairs, tables, civil works, etc. ICT as mandatory medium in all Educational institutions • E-toilets including solar panels • E-patashala: digital podium, interactive pad, interactive board, interactive projector, visualizer, information kiosk, touch LED • Tie-up with Agatsya International Foundation – Science Centre & Mobile Science Lab • WiFi under Digital India

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5	Health	A Smart City provides access to healthcare for all its citizens. (Guideline 2.5.10)	Healthcare is difficult for citizens to access - demand for healthcare often exceeds hospitals' ability to meet citizen needs.	The city provides some access to healthcare for its residents but healthcare facilities are overburdened and far from many residents. Access to preventive health care is only easily available for some residents.	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.	City provides adequate health facilities at easily accessible distance and individual health monitoring systems for elderly and vulnerable citizens which are directly connected to hospitals to prevent emergency health risks and to acquire specialised health advice with maximum convenience. The city is able to foresee likely potential disases and develop response systems and preventive care.	The city provides some access to healthcare facilities are overburdened and far from many residents. Access to preventive healthcare is only easily available for some residents	1. Government General Hospital - 1 2. ESI Dispensary -1 3. First referal units - 1 4. Urban Health Centres - 6	City aspires to upgrade the existing and develop new healthcare facilities with the following objectives <ul style="list-style-type: none"> • Focus on all aspects of public health • Provision of essential Health Services • Primary, secondary and tertiary care institutions, manned by medical and paramedical personnel • Conveniently located and accessible by all section of society • IT enabled health management information system consisting of a two-way system of data collection, collation, analysis and response services 	Up gradation of Government General Hospital Kakinada to provide best healthcare services to the poor and economically backward people Development of 100 bedded Super Specialty hospital in the premises of the ESI Hospital to improve the healthcare facilities in Kakinada. Implementaion of Health informations system in Government General Hospital

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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)	The city has mostly separated uses and areas are focused either on residential, commercial, or industrial, with little co-existence of uses. The average resident cannot walk to the closest market or shops near his or her home. For almost everyone, going to work or going shopping for basic needs requires a journey by automobile or bus of more than 15 minutes. Land use regulations prevent putting commercial or office locations in residential neighborhoods and vice versa.	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 segregating housing, retail, and office uses, but exceptions are made when requested.	Most parts of the city have housing, retail, and office buildings in close proximity. Some neighborhoods have light industrial uses within them (e.g., auto repair, craft production). Land use rules allow for mixed uses.	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.	Most parts of the city have housing, retail, and office buildings in close proximity. Some neighborhoods have light industrial uses within them (e.g., auto repair, craft production). Land use rules allow for mixed uses.		City's vision is to promote mixed land use as it can enhance the economic vitality and perceived security of the city by increasing the number of people on the street and public spaces	Development of Mixed land use through the following initiatives <ul style="list-style-type: none"> • by amending existing zoning regulations with stakeholders consultations • Strengthening of physical infrastructure including water supply, sewerage, parking, transport and other facilities • Provision of basic amenities available within walking distances

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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)	The city is expanding rapidly at its periphery into undeveloped land, rural or natural areas, or along industrial corridors both formally and informally. Formal new development is occurring in a way that is "sprawling," meaning that the buildings spread across a wide area and are far from one another. Residents or tenants find it easier or safer to travel by automobile because it takes a long time to walk between destinations and there are busy roads separating buildings. Large pockets of land in the inner-city are vacant. New developments at the periphery tend to be large-scale residential developments, often enclosed with a gate and oriented to the	The city has one or two high density areas - such as the city center, or historic areas, where buildings are concentrated together and where people can walk easily from building to building and feel as though they are in center of activity. Most of the city consists of areas where buildings are spread out and difficult to walk between, sometimes with low-density per hectare. Regulations tend to favor buildings that are separated from one another, with lots of parking at the base and set-back from the streets. The city likely has some pockets of under-utilized land in the center. New formal developments at the periphery tend to be	The city has multiple high density clusters that are easy to walk around where buildings are close together. However, the city actively encourages development to occur on under-utilized parcels of land into high-density, walkable areas. When new formal large-scale development projects happen at the periphery, they are encouraged to be dense and compact, with buildings that are close together and line the streets. The city actively encourages or incentivizes re-development of under-utilized parcels in the inner-city, especially those located close to public transportation.	The city is highly compact and dense, making the most of land within the city. Buildings are clustered together, forming walkable and inviting activity centers and neighborhoods. Regulations encourage or incentivize re-development of under-utilized land parcels in the city center. Buildings are oriented to the street - - and parking is kept to a minimum, located below ground or at the back of buildings. Public transport and walking connects residences to most jobs and amenities. Residential density is at an optimal with affordable housing available in most areas.	The city has one or two high density areas- such as the city center, or historic areas, where buildings are concentrated together and where people can walk easily from building to building and feel as though they are in center of activity. Most of the city consists of areas where buildings are spread out and difficult to walk between, sometimes with low – density per hectare. Regulations tend to favour buildings that are separated from the streets. The city likely has some pockets of under-utilized land in the center. New formal developments at the periphery tend to be large- scale residential developments, often		More compact city in order to achieve a more sustainable urban form.	High density urban settlement with the following initiative <ul style="list-style-type: none"> • Central area revitalisation • High-density development • Mixed-use development • Everyday activities, such as housing, work, schools, shops, and other amenities, are all ideally within walking distance of each other • Less car dependency, low emissions, reduced energy consumption by (1) Shifting from car to walking, cycling and public transport (2) Reducing trip distances (3) Reducing total number of trips • Better public transport services, increased overall accessibility
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)	The city has very few usable public open spaces and very few usable green spaces. Available recreational spaces are located far away and are dispersed at long distances around the city. The few available public open spaces offer a limited variety of experiences for all sections of population and age groups such as places for sport, places for rest, and places for play.	A variety of public open spaces are available in some neighborhoods, but are not available in all the areas of the city or are located far away from residential areas. Many of the open spaces have access restrictions, or are not well-maintained. A variety of types of public open spaces may be lacking, such as natural areas, green areas, parks, plazas, or recreation areas.	Most areas of the city have some sort of public open space. There is some variety in the types of public spaces in the city. However, public spaces are sometimes not within easy reach or access of more vulnerable populations and are more restricted in poorer neighbourhoods.	Public open spaces are well dispersed throughout the city. Every residential area and work space has access to open space within 10 minutes walking distance. Open spaces are of various types - natural, green, plazas, parks, or recreation areas - which serve various sections of people. Public spaces tend to truly reflect the natural and cultural identity of the city.	Public open spaces are well dispersed throughout the city. Every residential area and work space has access to open space within 10 minutes walking distance. Open spaces are of various types - natural, green, plazas, parks, or recreation areas - which serve various sections of people. Public spaces tend to truly reflect the natural and cultural identity of the city.	There are 168 open spaces covering 186 acres. Raja tank, Boat boat club, Gandhi nagar park, santa cheruvu, Annamma tank are the prominent parks in the city .	Kakinada Municipal Corpo	City is planning to prepare a detail Master Plan/Management Plan open spaces in the city with the following objectives <ul style="list-style-type: none"> • Distributed open space within easy walking distance • Social connectedness • Mental health and wellbeing • Physical health and wellbeing • Mitigation of urban heat

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9	Housing and inclusiveness	A Smart City has sufficient housing for all income groups and promotes integration among social groups. (Guidelines 3.1.2)	Housing is very limited and highly segregated across income levels. Population growth far exceeds the creation of new housing. The poor live in informal settlements with limited to no access to basic services, and are concentrated in a few areas. The wealthy live in separate enclaves. Those in the middle have few, if any options.	Housing is available at most income levels but is highly segregated across income levels. Population growth slightly exceeds the creation of new housing. The wealthy and the middle class have housing that meets their needs at costs appropriate to their income. The poor live in informal settlements.	Housing is available at all income levels, but is segregated across income levels. The growth of supply of housing almost meets the rate of population growth. Increasingly, lower and middle-income people can find housing in areas that are conveniently located.	A wide range of a housing is available at all cost levels. The supply of housing is growing at pace with population. Affordable, moderate, and luxury housing are found clustered together in many areas of the city	Housing is available at most income levels but is highly segregated across income levels. Population growth slightly exceeds the creation of new housing. The wealthy and the middle class have housing that meets their needs at costs appropriate to their income. The poor live in informal settlements.	As per 2011 census almost 35.6% of Kakinada population lives in slums in 25,921 households with an average household size of 4.6. There are 101 slums in Kakinada of out of which 67 are notified slums and 34 are non-notified slums. 4608 Housing units Proposed under HFA in Kakinada Municipal Corporation.	City aspires to have housing for all sections of the society and inclusive development with following characters <ul style="list-style-type: none"> • Economic Development:- Opportunities for everyone to participate fully in the economy of the city, with access to a variety of quality jobs • Housing and Neighbourhoods: Safe neighbourhoods with a range of housing types and price levels to accommodate diverse socio-economic backgrounds and lifestyle choices • Education: Full access to quality education choices • Access and Mobility :Viable, multimodal and interconnected public 	Kakinada Municipal Corporation is planning to redevelop around 21 slums areas in zone-1 with a cost of around 300 crore under "Housing to All" scheme and will also redevelop other slum areas of the city in phased manner
10	Transport	A Smart City does not require an automobile to get around; distances are short, buildings are accessible from the sidewalk, and transit options are plentiful and attractive to people of all income levels. (Guidelines 3.1.5 & 6.2)	Personal automobile centric city with very few modal options. Long trip lengths for daily commute to work and education. Accessing various areas by walking or cycling is difficult. Women and vulnerable sections find it very difficult to move independently in the city. There is limited public transport. Vehicles cause high air and noise pollution levels in the city. Vehicles dominate public spaces and affect their effective functioning.	The street network system is elaborate but public transport choices are restricted. Public transport can be too expensive or unaffordable for the poor. Pedestrian infrastructure is only available in select areas. The majority of investments focus on reducing traffic congestion through the creation of more roads.	Network of streets are fairly complete. Public transport covers most areas of the city. However last mile connectivity remains incomplete and affects transport options. Foot paths are accessible in most areas, whereas concerns of safe crossings and security throughout the day remain. Parking zones are demarcated but absence of pricing increases over utilization of parking lots.	Street network is complete and follows a clear structure. Public transportation network covers the entire city and intensity of connection relates with the demand. Plenty of options of public transport are available and affordable for all sections of the society. There is multi-modal integration at all mass transit stations and organized-priced on street and off street parking. Walking and cycling is prevalent.	The city has few modal options and personal automobiles are the main mode of transport. Accessing various areas by walking or cycling is difficult. Women and vulnerable populations find it very difficult to move independently in the city. There is limited public transport. Vehicle cause high air and noise pollution levels in the city. Vehicles dominate public spaces.	At present, there is no public transport in the city. Public transport in Kakinada town is absent for Intra-city movement since 1999. However, the current demand is served through Moffisil buses (i.e. Pallevelugu buses).	City aspires to develop and	1. Improvement of Regional / Intracity Connectivity (Development of ROBs / River Bridges / Road Widening Proposals) 2. Introduction of Public Transport System (Redevelopment of Bus Terminal and Introduction of City Bus Service integrating with Rail Terminal by Skywalk) 3. Introduction of Intelligent Transport System (Smart signalization and Surveillance)

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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)	The city is designed mainly for the automobile. Daily life without a car requires long bus rides. Walking is difficult and often dangerous; there are few pavements, existing pavements need repair and lack trees to provide shade for pedestrians, and marked pedestrian crossings are rare. New buildings have their main entrances set-back from the street, sometimes with large driveways or parking lots separating them from the street, and sometimes are enclosed by gates. Traffic signals are often disobeyed	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 accessible 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.	The city has a good network of pavements and bike lanes. Buildings in most areas of the city are easily accessible from the pavement. However, traffic signals are sometimes disobeyed and it can feel difficult to cross the street.	The city is highly walkable. Pavements exist on every street and are maintained. Trees line many sidewalks to provide shade for pedestrians. Buildings in most areas of the city are easily accessible from the sidewalk. Traffic signals control the flow of automobiles and are enforced. A network of bike lanes exists to promote cycling as a means of transport. Traffic rules are followed and enforced with great seriousness.	Older areas of the city see a mix of pedestrians, cyclist, and vehicles, but newer areas are focused mainly on the automobile. In the new areas, there is little pavement and main entrances to new buildings are not accessible 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.	•As per the CTTS-Kakinada (2007), average trip length of commuter within the city is about 3.4km excluding walk mode. As per the CTTS-Kakinada (2007), share of walk trips is about 11% whereas share of NMV is about 10%. More than 90% of the road network is not having pedestrian facilities. Most of existing footpath is occupied by encroachments and vendors.	City aspires to develop a w	1. Development of Footpaths and Cycle Tracks 2. Introduction of Public Bicycle Sharing system 3. Development of Off-Street parking facilities (Smart Parking and Multi-level parking) 4. Provision of Signboards and Road Markings 5. Provision of Street lights
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)	City has no major plans to bring increased high speed internet connectivity to the public.	The city has made plans to provide high speed internet connectivity through the existing framework.	The city makes has high speed internet connectivity available in most parts of the city.	The city offers free wifi services to provide opportunity for all the citizens to connect with high speed internet across the city.	The city has made plans to provide high speed internet connectivity through the existing framework.	BSNL and Reliance plans to provide high speed internet facilities through out the city. BSNL already identified 28 locations for instalation of towers to provide high speed internet facilities.	City aspires to build	Initiative is to provide digital infrastructure as a utility to every citizens as outlined in 'Digital India Programme'

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13	ICT-enabled 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)	Essential Government services are not linked with online platforms. Paper intensive interactions with the local Government continues. Receiving services and response to citizen complaints take a long time. There is limited availability of data to monitor service delivery.	Some of the public services are provided online 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.	Most of the services are provided online and offline. Data transparency helps monitoring. Systems and processes to better coordinate between various Government agencies are being developed.	All major services are provided through online and offline platforms. Citizens and officials can access information on accounting and monitor status of projects and programs through data available on online system. Robust data infrastructure system shares information and enhances internal governmental coordination.	Most of the services are provided online and offline. Data transparency helps monitoring. Systems and processes to better coordinate between various Government agencies are being developed.	<ul style="list-style-type: none"> • Birth and Death Certificate can be downloaded from CDMA Website. • E-tendering is done through State Government portal • Online services are available through MEE-SEVA Centres (5) for 10 functions • Dedicated land line mobile (0884 2352277) allotted to receive grievances from citizens and reply will be given within 24 hours. 	City aspires to move from scenario-2 to scenario-4 in a span of 2-3 years. However in a long term, city aspires to provide all major services through online and offline platform so that not only Govt. Offices but also citizen can access all the city level information/data and provide their valuable feedback	Initiative is to upgrade, promote and make user friendly the currently available online platforms for e-governance, public grievance, dashboard, information dissipation and official coordination.
14	Energy supply	A Smart City has reliable, 24/7 electricity supply with no delays in requested hookups. (Guideline 2.4)	There is only intermittent electricity supply with regular power shedding. Many residents have to plan their days around when power is available.	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.	Electricity is available in most parts of the city for most hours of the day but some areas are not so well-served. Smart metering exists in some parts of the city but not all.	Electricity is available 24 x 7 in all parts of the city with smart metering linked to online platforms for monitoring and transparency.	Electricity supply and loads are managed as demand requires and priority for various functions with clear scheduling, with electricity being available in many areas for most hours of the day		The city aspires to develop affordable and secure sources of energy supply and Integrate future demand and energy supply into a flexible, secure and resilient energy system.	Kakinada Municipal Corporation has prepared a plan to install Solar panel on all the government building in Kakinada with objective is to reduce the power consumption by 10%.
15	Energy source	A Smart City has at least 10% of its electricity generated by renewables. (Guideline 6.2)	The city does not have any renewable sources of energy and there is no commitment to promote this for the foreseeable future.	The city is preparing plans for ensuring that it gets more energy from renewable sources and is in the process of making commitments in this regard.	Some energy consumed in 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.	At least 10% of the energy used in the city is generated through renewable sources. The city is undertaking long-term strategic projects to tap renewable sources of energy in its region/beyond to increase the percentage of renewable energy sources.	The city is preparing plans for ensuring that it gets more energy from renewable sources.	KMC proposes to implement the roof top solar projects for all government buildings, public buildings and upcoming green buildings. All the residential buildings shall have solar water heaters. KMC with the support from NREDCAP distribute LED lights to all households and replace entire lighting in government office buildings with LED.	City's vision to promote renewable energy, particularly solar and wind energy, which provide electricity without giving rise to any carbon dioxide emissions	Corporation is planning to modify the building regulation to have more Smart green buildings in the Kakinada by following principles of "Green Buildings".

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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 a poor water supply system with limited water availability. There are no clear targets to achieve higher quality and optimal quantity standards. Unaccounted water loss is above 40%	The city has intermittent water supply and availability. However it is setting targets and processes in place to try to improve its water supply. Unaccounted water loss is less than 30%.	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 city has 24 x 7 treated water supply which follows national and global standards and also available in sufficient quantity and affordable across all sections of the society. Unaccounted loss less than 15%.	The city has intermittent water supply and availability. However it is setting targets and putting processes in place to try to improve its water supply. Water loss is less than 30%.	Under APMDP, KMC is replacing city's old network would bring down the risk of water contamination and also help in reducing non-revenue water.	Reduce NRW and increase duration of water supply to ultimately reach 24X7Supply good quality of water Use recycled water for non-portable uses i.e. landscaping in gardens, industrial uses, flushing in public buildings, etc	The installation of smart meters at end-user would help in identifying the water leakages and increase in revenue as people undoubtedly pay for water bills.
17	Water management	A Smart City has advanced water management programs, including smart meters, rain water harvesting, and green infrastructure to manage stormwater runoff. (Guideline 6.2)	The city does not measure all its supply. It does not recycle waste water to meet its requirements and rain water harvesting is not prevalent. Flooding often occurs due to storm water run-off.	The city has meters for all its water supply but lacks mechanisms to monitor. Water wastage is very high. Some, but not much, rainwater harvesting exists.	The city has meters for all its water supply with some smart mechanisms to monitor. Rainwater harvesting systems are installed and storm water is collected and stored in water bodies. However, recycling of waste water and reusage of storm water is limited.	The city has meters for all its water supply. It includes smart mechanisms to monitor remotely. Rainwater harvesting systems are installed and utilised through the city and storm water is collected and stored in water bodies and treated for usage. Recycled waste water is supplied for secondary uses.	The city does not measure all its supply. It does not recycle waste water to meet its requirements and rain water harvesting is not prevalent. Flooding often occurs due to storm water runoff.		<ul style="list-style-type: none"> Provision of effective water supply services for all at minimum impact on the water resources and environment. Development of effective storm water management system Development of overall strategic approach to achieve sustainable urban water management in the city. Promotion of Rain water Harvesting 	Kakinada Municipal Corporation is implementing Comprehensive Water Supply Service Improvements in Kakinada to provide 24 X 7 water Supply with a project cost of 186 crore and also planning to install smart meters at the user end in a phased manner.

Self Assessment Form - Kakinada

S.No	Feature	Definition	Scenario 1 (BASE)	Scenario 2	Scenario 3	Scenario 4 (ADVANCED)	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 current status to Advanced status (Scenario 4: Column G)
18	Waste water management	A Smart City treats all of its sewage to prevent the polluting of water bodies and aquifers. (Guideline 2.4)	The city is unable to treat all its sewage. Many local sewer lines open on to water bodies and open ground and pollute the environment.	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.	All the waste water is collected and treated before before disposal. It is also treated to a high standard and some is recycled.	The city has zero waste water because all the waste water is collected, treated and recycled. It meets standards an reduces the need for fresh water.	The city is unable to treat all its sewage. Many local sewer lines open on to water bodies and open ground and pollute the environment.		City's vision is to provide an affordable, reliable, culturally acceptable, ecologically sustainable and resilient wastewater system that protects public health and meets the needs of present and future population	City is planning to develop decentralised sewerage System with the following outcomes <ul style="list-style-type: none"> Proposed system Manages public health risks effectively Proposed System is resilient and meets community needs for environmental, social and cultural sustainability Proposed System supports the future growth and economic wellbeing of Kakinada City
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.	City has programs and projects to monitor air quality and spatialising the data to ascertain reasons for degrees of pollution in the air. A few strategies to decrease air pollution have been implemented.	City has programs and projects to monitor air quality and spatialising the data to ascertain reasons for degrees of pollution in the air. Pollution levels are acceptable.	The city has clean air by international standards. Live Air quality monitoring cover the entire city and data of air quality are mapped.	City does not have any plans, policies or programs to improve the air quality. Systems to monitor air quality are absent.		City aspire to reduce vehicular pollution with the use of alternative fuel like Compressed Natural Gas (CNG) as transportation fuel, promoting pollution control in industries and initiatives to reduce air pollution caused by open burning of wastes to provide healthy and clean environment to citizens	Air quality monitoring system will also be developed in the city to maintain high air quality standards

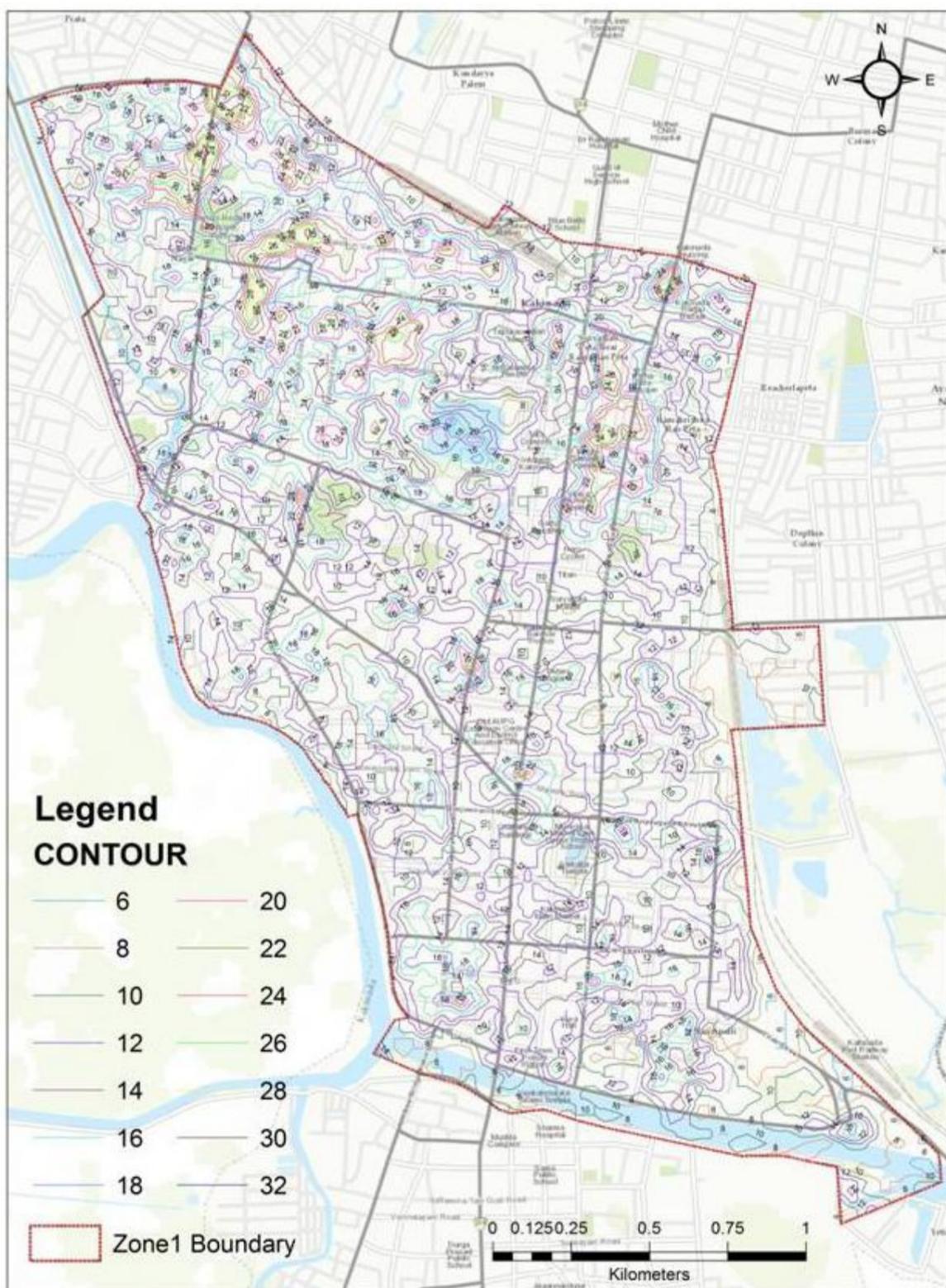
Self Assessment Form - Kakinada

S.No	Feature	Definition	Scenario 1 (BASE)	Scenario 2	Scenario 3	Scenario 4 (ADVANCED)	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 current status to Advanced status (Scenario 4: Column G)
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)	City has no programs or controls or incentive mechanisms to promote or support energy efficiency in buildings	The city promotes energy efficiency and some new buildings install energy efficiency systems that track and monitor energy use and savings.	Most new public buildings install energy efficiency systems and some older buildings are also retrofitted to be more energy efficient. Local government conducts counselling and outreach with developer, businesses and residents to adopt energy efficiency strategies	All the existing old and new public buildings employ energy efficiency principles in development and operation and apply for energy rating by national and international forums. Many non-public buildings are also energy efficient because the government promotes energy efficiency through incentives and regulations.	City has no programs or controls or incentive mechanism to promote or support energy efficiency in buildings.		City's vision is to reduce the energy usage in the public places,street lighting and Government buildings.	City is planning to prepare an Energy Efficiency Master plan for the city. The City's energy efficiency master plan will unlock a clean energy future for Kakinada through targets and proactive steps that could save considerable energy bills across the city. City has already repalced around 49%of Street lights with LED Lamps/Lights
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.	More than 40% of the city has underground electric wiring system.	More than 75% of the city has underground electric wiring system.	More than 90% of the city has underground electric wiring system.	City does not have plans for underground electric wiring system.		City have plan and aspires to for a safe, planned and efficient underground electric wiring.	City has initiated the proposal for underground electric wiring project for a selected area (Zone-1) and the same will be implemented in the whole city in a Phased manner under IPDS scheme
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)	Many parts of the city do not have access to sanitation infrastructure and facilities.	Sanitation facilities are available to 70% of the city's population.	Sanitation facilities are available to 90% of the city's population.	Sanitation facilities are available to 100% of the city's population.	Many parts of the city do not have access to sanitation infrastructure and facilities	Under ILCS, 11431 toilets in the city and 1250 ILCS toilets in 101 slums were constructed.	City aspires to have sustain	City is planing to improve the sanitation in the city by (a) developemnt of Wastewater management system, (b) Solid waste managementsystem, (c) Drainage System (d) water and sanitation in Schools under Swachh Vidyalaya,(e) green toilet facilites and other initiatives under Swachh Bharat Mission

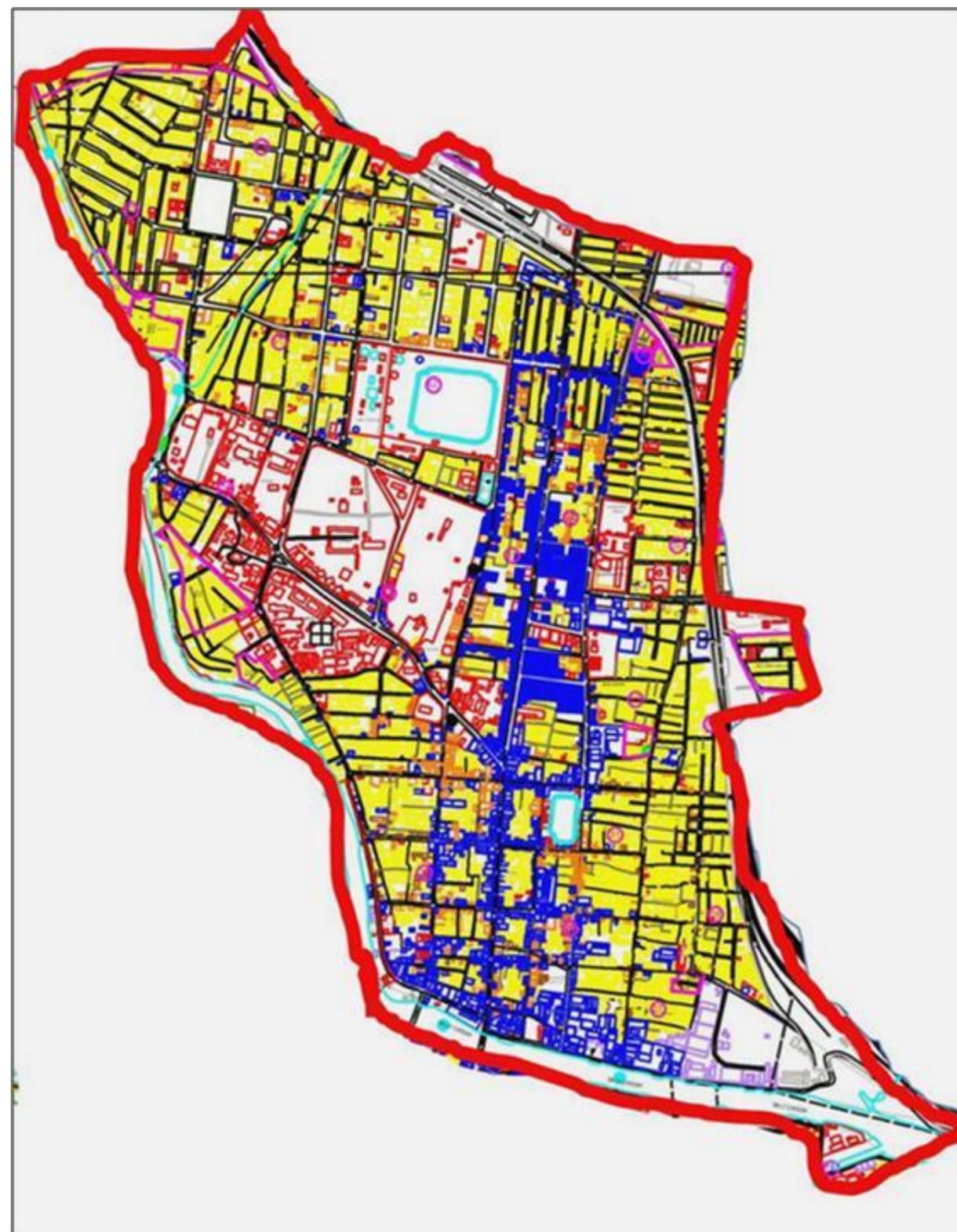
Self Assessment Form - Kakinada

S.No	Feature	Definition	Scenario 1 (BASE)	Scenario 2	Scenario 3	Scenario 4 (ADVANCED)	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 current status to Advanced status (Scenario 4: Column G)
23	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 collection systems do not pick up waste on a frequent basis and waste often enters into water bodies.	Waste generated is usually collected but not segregated. Recycling is attempted by difficult to implement.	Waste is segregated, collected, recycled and disposed in an environmentally sound manner.	The city reduces land fill caused by waste so that it is minimal. All the solid waste generated is segregated at source and sent for recycling. Organic waste is sent for composting to be used for gardening in the city. Energy creation through waste is considered.	Waste generated is usually collected but not segregated. Recycling is attempted but difficult to implement		Kakinada aspires to have a	Kakinada Municipal Corporation will develop a waste collection, management and disposal strategy highlighting waste minimizing techniques, reuse of waste, recovery (recycling, composting, and waste to energy) and scientific disposal of waste to minimize the requirement of landfill with the application of latest technologies
24	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 low levels of public safety - most groups of residents feel insecure during most parts of the day in many parts of the city.	The city has medium levels of public safety - some more vulnerable groups feel insecure during some points of the day and in some parts of the city	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.	The city has very high levels of public safety - all residents feel safe in all parts of the city during all hours of the day.	The city has medium levels of public safety – some more vulnerable groups feel unsafe during some points of the day and in some parts of the city		Kakinada Municipal Corporation is committed to improve the safety and security for the citizens of Kakinada and make it one of the safest and most liveable cities in the world	City will develop a Safe city strategy which will outline its aspirations and role in making the City a safer place to live. The Safe city strategy will also have a provision for Annual Safety Audit for all the Public facilities of the city including roads, Public places, and community facilities and will also have provisions for monitoring of crime rate.

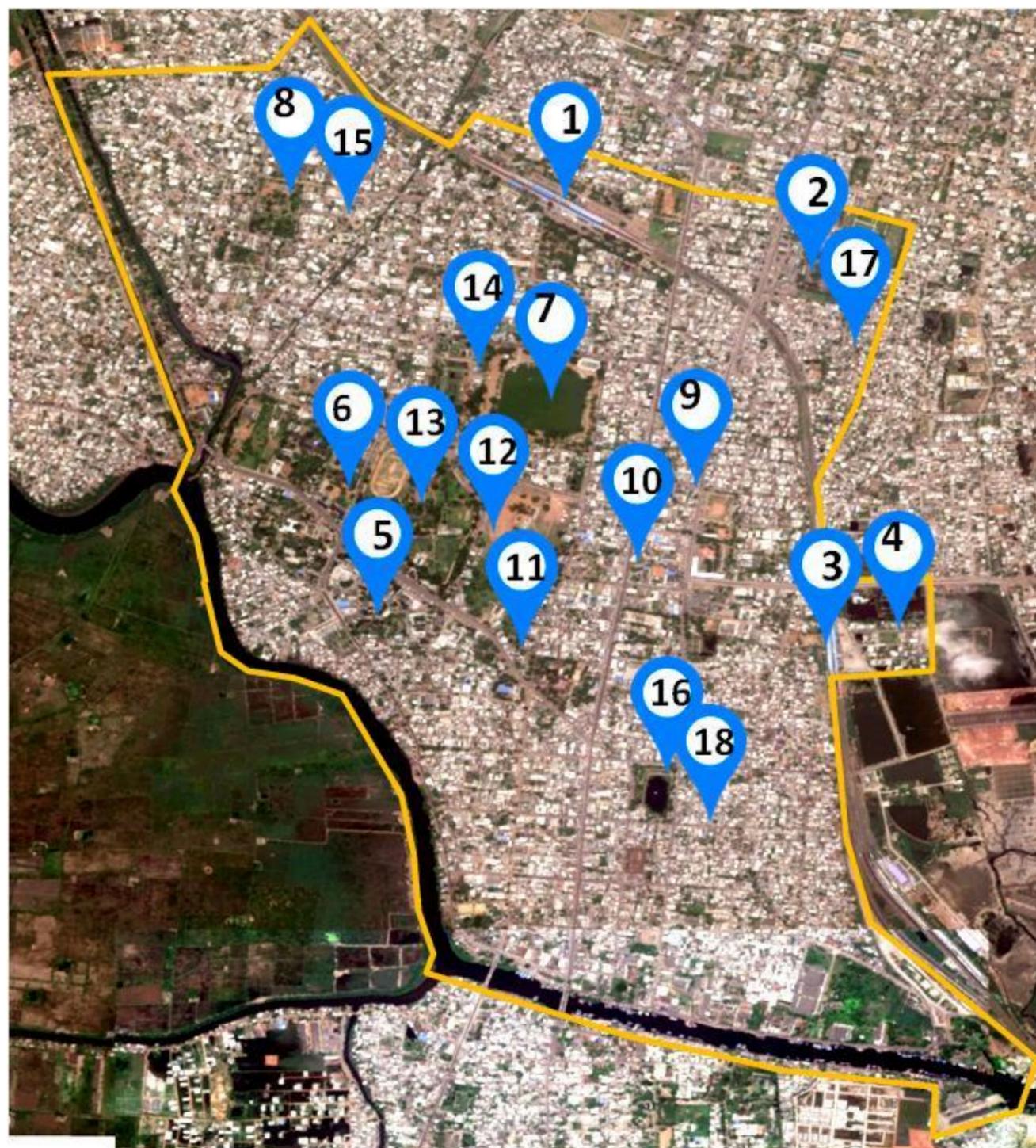
Area Based Development Zone Features



Contour and Road Network Map



Landuse Map

Area Based Development Zone Features

Population: 1,10,577 (34%)
Area: 1375 Acres (17%)

1. Town railway station
2. APSRTC Complex
3. Port Railway Station
4. ESI Hospital
5. Government General Hospital
6. Collector Office
7. Raja Tank
8. Gandhi Nagar Park
9. Cinema Road
10. Main Road
11. Temple Road
12. MC Lauren High School
13. PR Government College
14. Victoria Water Works
15. Gandhi Nagar Rythu Bazar
16. Santa Cheruvu
17. RTC Rhythu Bazar
18. Big Market

Important Features Map

KAKINADA AREA LEVEL PROPOSAL



KAKINADA AREA LEVEL PROPOSAL



Area Based Development Proposals Map

PERT CHART (32 SCENARIOS)

S.No.	Project / Initiative	Project Cost, Rs.Lakhs	Short Term	Medium Term		Long Term	
			FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21
	AREA BASED DEVELOPMENT						
A	Identity & Culture	3046.45					
A1	Development of Godavary Kalakshetram	3046.45	1523.22	1523.22			
B	Economy & Employment	10766.50					
B1	Development of Mall & Multiplex	4000.00	2000.00	2000.00			
B2	Development of Boat Building Yard	2656.50	1328.25	1328.25			
B3	Construction of cold storage at Yetimoga	500.00	250.00	250.00			
B4	Development of fish processing and packing units	260.00	130.00	130.00			
B5	Development of Skill Development Centre at Ramaraopeta	150.00		150.00			
B6	Development of Skill Development Centre for women	100.00		100.00			
B7	Development of Convention Centre and Budget Hotel	1700.00	850.00	850.00			
B8	Upgradation of food, vegetables and meat markets (3 No.s)	740.00	370.00	370.00			
B9	Development of Infrastructure for vending zones	100.00	50.00	50.00			
B10	Upgradation of Eataries for hygine food	560.00	280.00	280.00			
C	Health	5050.00					
C1	Impelemtation of E-Health initiatives in GGH & ESI	50.00	12.50	12.50	12.50	12.50	
C2	Development of ESI Hospital (100 beds)	5000.00	1250.00	1250.00	1250.00	1250.00	
D	Education	1122.70					
D1	Development of 2 Science Centres	38.32		38.32			
D2	Upgradation of School Infrastructure	501.70	250.85	250.85			
D3	Implementation of E-Pathashala (digital learning in 23 schools)	582.68		291.34	291.34		
E	Open Spaces	1780.50					
E1	Improvement of Greenary in Gandhinagar Park	350.00	175.00	175.00			
E2	Improvement of Greenary in Raja Tank Park	600.00	300.00	300.00			
E3	Install fountains & aerators at Raja Tank	30.00	15.00	15.00			
E4	Road Side Plantation and greenary	720.00	360.00	360.00			
E5	Geo-Tagging of Trees	32.50	16.25	16.25			
E6	Watering Facilities for plantation	48.00	24.00	24.00			
F	Housing	22848.00					
F1	Construction of 4760 Pucca Households in 21 slums	22848.00	4569.60	4569.60	4569.60	4569.60	4569.60
G	Transport, Mobility and Walkability	37051.50					
G1	Smart Pedestrian Facilities (Footpath Construction with RCC Box ducts)	8904.00	2226.00	4452.00	2226.00		
G2	Smart NMT Facilities (Cycle Tracks on roads)	1000.00	250.00	500.00	250.00		
G3	Public Bicycling Sharing System	442.50	110.63	221.25	110.63		
G4	Junction Improvements with Smart Signalisation	250.00	62.50	125.00	62.50		
G5	E-Rickshaws	100.00	25.00	50.00	25.00		
G6	Junction Improvements (Minor Junctions)	480.00	120.00	240.00	120.00		
G7	Development of Elevated Skyway (RTC Complex to Railway Station)	400.00	100.00	200.00	100.00		

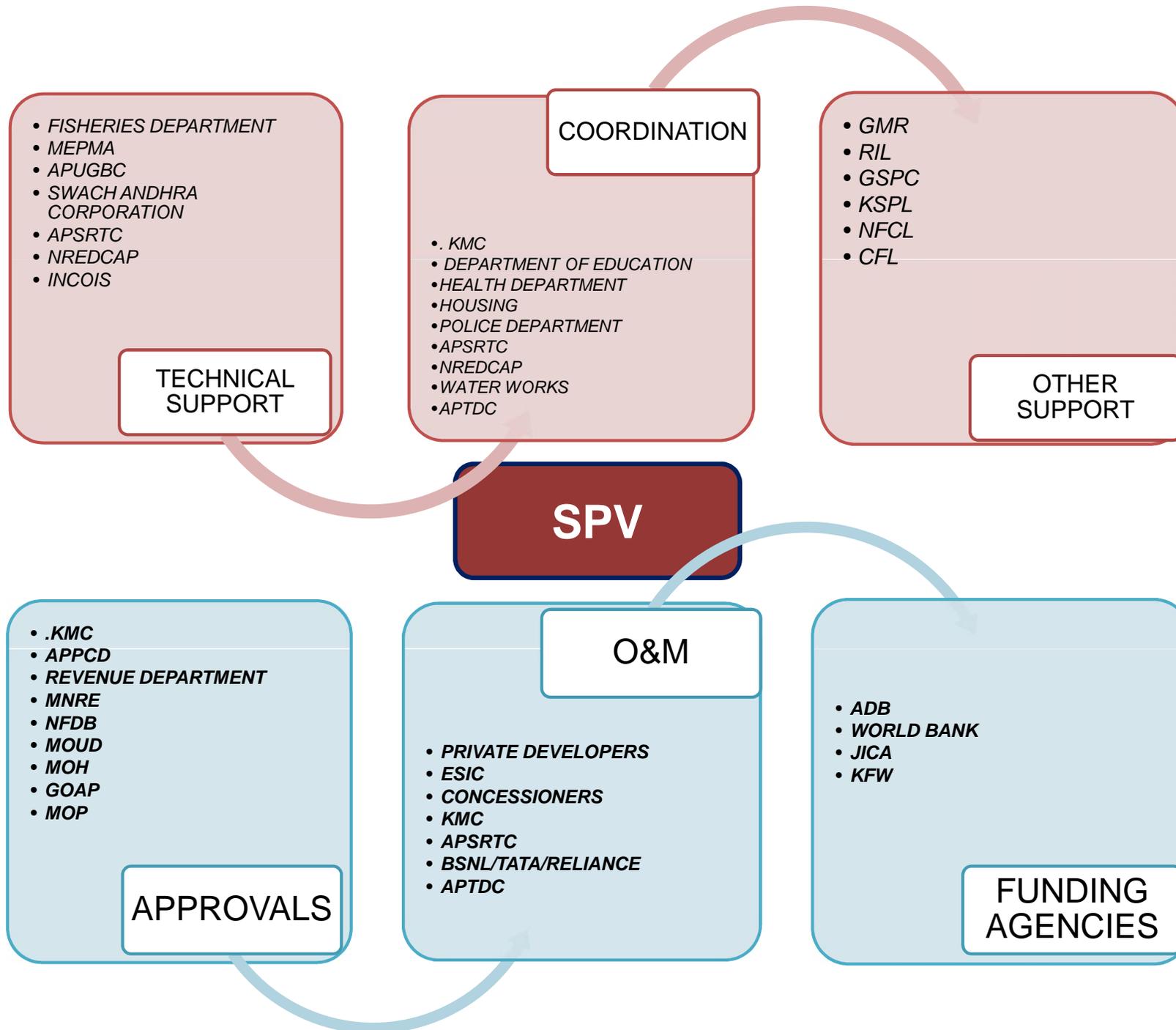
PERT CHART (32 SCENARIOS)

S.No.	Project / Initiative	Project Cost, Rs.Lakhs	Short Term	Medium Term		Long Term	
			FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21
G8	Development of Smart Bus Shelters with Smart E-Toilets	400.00	400.00				
G9	Development of Smart Bus Terminus (RTC Complex)	5000.00	500.00	2500.00	2000.00		
G10	Installation of CCTV Cameras	10.00	1.00	2.00	2.50	2.50	2.00
G11	Installation of PTZ Cameras	35.00	3.50	7.00	8.75	8.75	7.00
G12	Smart Off-Street Parking Development @ MC Laurance School	300.00	75.00	150.00	75.00		
G13	Development of Multi-Level Parking @ Santa Cheruvu	500.00	50.00	100.00	125.00	125.00	100.00
G14	Signage and bulletin boards	180.00	45.00	90.00	45.00		
G15	Road Markings with solar studs	675.00	168.75	337.50	168.75		
G16	Development of Pratapnagar Bridge including road widening	600.00	150.00	300.00	150.00		
G17	Development of Ramya Hospital Road including road widening	600.00	150.00	300.00	150.00		
G18	Construction of ROB at Kondayyapalem level crossing	7400.00	740.00	1480.00	1850.00	1850.00	1480.00
G19	Construction of bridge on East Yeleru drain at Indrapalem lock	325.00	32.50	65.00	81.25	81.25	65.00
G20	Construction of Approach Road to NTR Bridge for temple street	1000.00	100.00	200.00	250.00	250.00	200.00
G21	Construction of ROB at Port area level crossing and salt creek	8450.00	845.00	1690.00	2112.50	2112.50	1690.00
H	IT Connectivity	440.00					
H1	100% IT Connectivity in the ABD area	440.00		110.00	110.00	110.00	110.00
I	Energy	15280.00					
I1	Installation of roof top solar projects on Govt. buildings	4000.00	2000.00	2000.00			
I2	Installation of roof top solar projects on Apartments	11280.00	2820.00	2820.00	2820.00	2820.00	
J	Wastewater	26481.46					
J1	Construction of 140km sewerage network and 13 MLD STPs	26481.46		8826.27	8826.27	8828.92	
K	Water Supply	3011.60					
K1	Installation of Online Water Quality Monitoring	500.00	150.00	175.00	175.00		
K2	Installation of Automatic Smart Water Meters	1611.60	483.48	564.06	564.06		
K3	Implementation of SCADA	500.00	250.00	250.00			
K4	Reuse of filter backwash water from Water Treatment Plant	400.00	200.00	200.00			
L	Energy Efficiency	3802.07					
L1	Solar LED Street Lights	3028.04	1514.02	1514.02			
L2	LED lights to all households	774.03	387.01	387.01			
M	Underground Wiring	9680.47					
M1	Development of UG Wiring along with SCADA and IT Support	9680.47		2420.12	2420.12	2420.12	2420.12
N	Sanitation	76.20					
N1	Development of 508 Individual Household Toilets	76.20	76.20				
O	Waste Management	4311.05					
O1	Deployment of 64 e-Tricycles	76.80	19.20	38.40	19.20		
O2	Deployment of 217 HDPE Bins(1100 litres)	54.25	13.56	27.13	13.56		
O3	Deployment of 6 Compactors	150.00	37.50	75.00	37.50		
O4	Deployment of 6 Sweeping Machines	420.00	105.00	210.00	105.00		

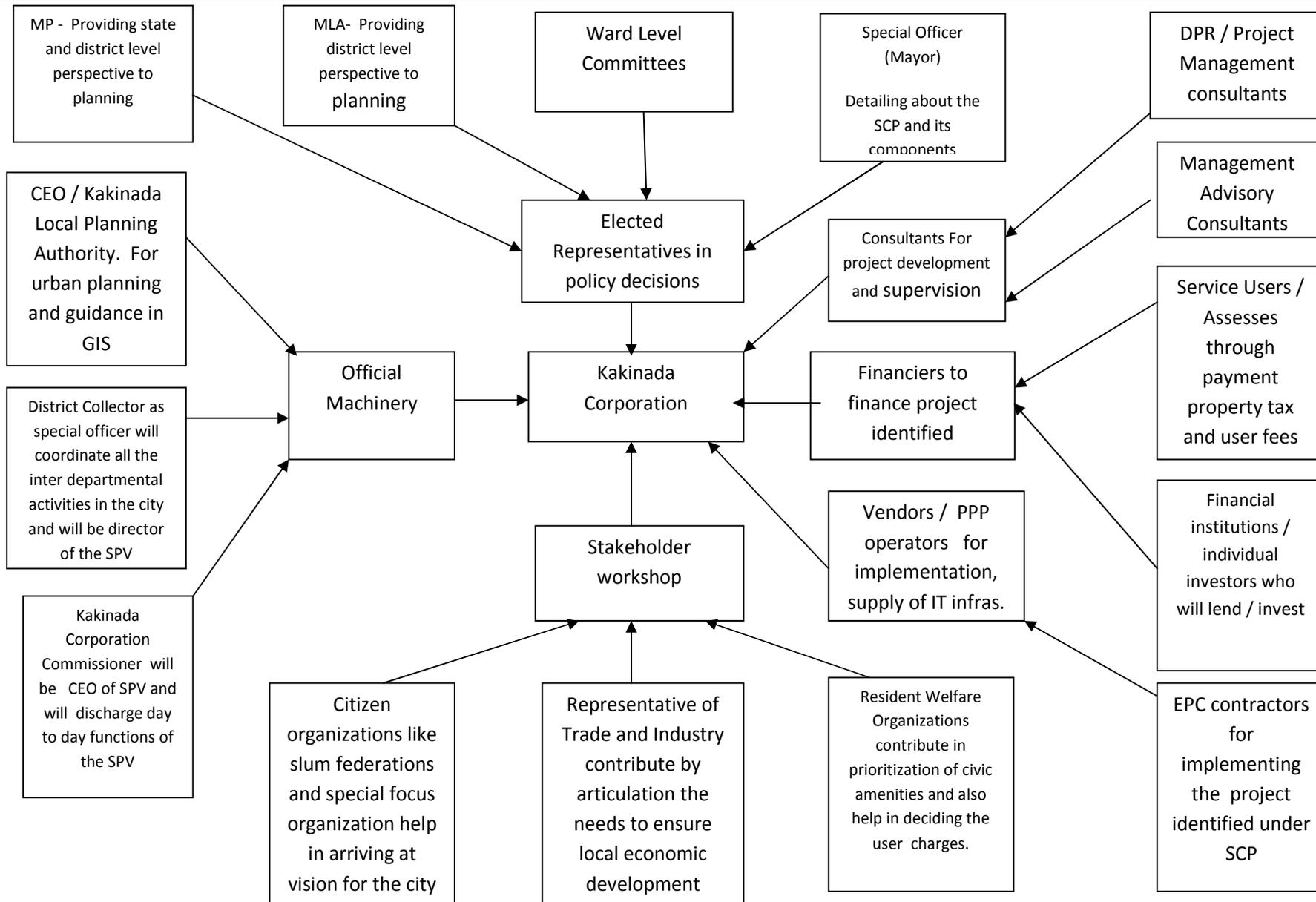
PERT CHART (32 SCENARIOS)

S.No.	Project / Initiative	Project Cost, Rs.Lakhs	Short Term	Medium Term		Long Term	
			FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21
O5	Development of bio-metanization plants at 3 markets	3600.00	1800.00	1800.00			
O6	Other Equipment & PPE	10.00	2.50	5.00	2.50		
P	Safety	558.45					
P1	Installation of 1220 CCTV Cameras and Contol Room	558.45	279.23	279.23			
Q	Stormwater Management	30703.83					
Q1	Construction of 254km Storm Water Drains	30703.83	6140.77	9211.15	9211.15	6140.77	
R	Water Front Development	9200.00					
R1	Water Front Development from Indrapalem Lock to Jaganaickpur	9200.00	1840.00	2760.00	2760.00	1840.00	
S	Piped Natural Gas	1400.00					
S1	Development of Piped Gas Network	1400.00	280.00	420.00	420.00	280.00	
	PAN CITY						
A	ICT based Urban Management	12600.00	2520.00	3780.00	3780.00	2520.00	
B	ICT based MSW Management	92.37		9.24	27.71	27.71	27.71

Flowchart – SPV's Network with Various Agencies



36. ORGANOGRAM SHOWING RELATIONSHIP BETWEEN ALL THOSE INVOLVED IN PREPARING THE SMART CITY PLAN



Citizens, Principals of schools and colleges, local press, prominent personalities, FM radio , Communication companies etc.,

Detailed Cost and Convergence

Rs. In lakhs

S.No	Feature	Project/Initiative	Cost of Component	Total Cost	Scheme/Program	GOI (other schemes)	GOAP	KMC	Beneficiaries	CSR	PPP	Smart City Mission	
Pan city Development													
1	Identity & Culture	Godavary Kalakshetram	3046.45	3046.45	Ministry of Culture, Gol under Tagore Cultural Complex Scheme	1500.00							
					Department of Language & Culture, GoAP		1546.45						
2	Economy & Employment	Mall & Multiplex	4000.00	10766.50	PPP						4000.00		
		Development of Boat Building Yard	2656.50		National Fisheries Development Board	1062.60							1593.90
		Construction of cold storage at Yetimoga	500.00		National Fisheries Development Board	200.00							300.00
		Hygienic markets for fish processing and packing units	260.00		National Fisheries Development Board	104.00							156.00
		Skill Development Centre at Ramaraopeta	150.00										150.00
		Skill Development Centre for women	100.00										100.00
		Convention Centre and Budget Hotel	1700.00									1700.00	
		Upgradation of food, vegetables and meat markets (3 markets)	740.00										740.00
		Infrastructure for vending zones	100.00										100.00
		Upgradation of Eateries for hygienic food	560.00								448.00		
3	Health	E Health component	50.00	5050.00								50.00	
		ESI Hospital (100 beds)	5000.00		Ministry of Labour	5000.00						0.00	
4	Education	Science centre	38.32	1122.70								38.32	
		Upgradation of School Infrastructure	501.70					25.00		25.00		451.70	
		E-Pathashala in 23 schools with 160 Classrooms	582.68							25.00		557.68	
5	Open Spaces	Improvement of Greenary in Gandhinagar Park	350.00	1780.50	AMRUT	300.00						50.00	
		Improvement of Greenary in Raja Tank Park	600.00									600.00	
		Fountain Raja Tank	30.00									30.00	
		Road Side Plantation and greenary	720.00									720.00	
		Geo-Tagging	32.50									32.50	
		Watering Facilities	48.00						48.00				
6	Housing	Construction of 1560 Pucca Households which are Kutcha (weaker section)	7488.00	22848.00	Housing for All	2340.00	1560.00		3588.00				
		Construction of 3200 Pucca Households which are Semi-Pucca	15360.00			4800.00	3200.00		7360.00				
7	Transport, Mobility & Walkability	Smart Pedestrian Facilities (Footpath Construction with RCC Box ducts)	8904.00	37051.50	AMRUT	2671.20							6232.80
		Smart NMT Facilities (Cycle Tracks on roads)	1000.00		AMRUT	300.00							700.00
		Public Bicycling Sharing System	442.50										442.50
		Junction Improvements with Smart Signalisation	250.00										250.00
		E-rickshaws	100.00										100.00
		Junction Improvements (Minor Junctions)	480.00										480.00
		Elevated Skyway (RTC Complex to Railway Station)	400.00										400.00
		Smart Bus Shelters with Smart E-Toilets	400.00									400.00	
		Smart Bus Terminus (RTC Complex)	5000.00									4000.00	1000.00
		CCTV Cameras	10.00										10.00
		PTZ Cameras	35.00										35.00
		Smart Off-Street Parking Development @ MC Laurance School	300.00									0.00	300.00
		Multi-Level Parking @ Santa Cheruvu	500.00									250.00	250.00
		Signage and bulletin boards	180.00						0.00				180.00
		Road Markings with solar studs	675.00						0.00				675.00
		Pratapnagar Bridge including road widening	600.00										600.00
		Ramya Hospital Road including road widening	600.00						0.00				600.00
Construction of ROB at Kondayyapalem level crossing (Railway km 11 /19-20)	7400.00						7400.00						
Construction of bridge on East Yeleru drain at Indrapalem lock	325.00				Roads & Buildings Dept., GoAP		325.00						
Construction of Approach Road to NTR Bridge for temple street	1000.00						1000.00						
Construction of ROB at Port area level crossing and salt creek	8450.00						8450.00						
8	IT Connectivity	100% IT Connectivity in the area	440.00	440.00								440.00	
9	Energy Source	Installation of roof top solar projects on Govt. buildings	4000.00	15280.00	MNRE	1200.00						2800.00	
		Installation of roof top solar projects on Apartments	11280.00								5640.00	5640.00	
10	Wastewater Management	Construction of 140km sewerage network and 13 MLD STP	26481.46	26481.46	AMRUT	5296.29						21185.16	
11	Water Supply & Quality	Online Water Quality Monitoring	500.00	3011.60								500.00	
		Installation of Automatic Smart Water Meters	1611.60								1611.60		
		implementation of SCADA	500.00								500.00		
		Reuse of filter backwash water from WTP	400.00								400.00		
12	Energy Efficiency	Solar LED Street Lights	3028.04	3802.07	BEE / EESL	1514.02						1514.02	
		LED lights to all HHs	774.03			387.01	0.00			387.01			
13	Under Ground Wiring	UG Wiring + SS construction + SCADA + Telecom cabling + IT enabled Customer Support	9680.47	9680.47	IPDS	3048.62	508.10					6123.75	
					DISCOM (APEPDCL)								
14	Sanitation	Development of 508 Individual Toilets	76.20	76.20	Swachh Bharat Mission	76.20						0.00	

Detailed Cost and Convergence

Rs. In lakhs

S.No	Feature	Project/Initiative	Cost of Component	Total Cost	Scheme/Program	GOI (other schemes)	GOAP	KMC	Beneficiaries	CSR	PPP	Smart City Mission	
15	Waste Management	Deployment of 64 e-Tricycles	76.80	4311.05	Swach Bharat Mission	15.36						61.44	
		Deployment of 217 HDPE Bins(1100 litres)	54.25		Swach Bharat Mission	10.85							43.40
		Deployment of 6 Compactors	150.00		Swach Bharat Mission	30.00							120.00
		Deployment of 6 Sweeping Machines	420.00		Swach Bharat Mission	84.00							336.00
		Other Equipment & PPE	10.00		Swach Bharat Mission	2.00							8.00
		provision for bio-metanization plants	3600.00		MNRE	1080.00							2520.00
16	Safety	Installation of 1220 CCTV Cameras and Contol Room	558.45	558.45								558.45	
17	Stormwater Drainage	Construction of 254km (both sides of roads) SW Drains including outfalls and culverts	30703.83	30703.83	AMRUT	3070.38						27633.45	
18	Development of Commercial canal	Development along Commercial canal from Indrapalem Lock to Jaganaickpur old Bridge	9200	9200.00	APTDC & CSR		500.00			200.00		8500.00	
19	Piped Gas Network	Development of piped gas network	1400	1400							1400.00		
Total Cost (ABD)				186610.78		34092.53	24489.55	73.00	11396.00	250.00	17390.00	98919.69	
Pan city Development													
20		ICT Based Urban Services	12600.00	12692.37								12600.00	
21		ICT Based MSW Management	92.37										92.37
Total Cost				199303.14		34092.53	24489.55	73.00	11396.00	250.00	17390.00	111612.05	

Financial Sustainability of SPV

As mentioned earlier, a Special Purpose Company (SPC) shall be formed. It is assumed that the entire funding from the Smart City money shall be routed through the SPV. SPV shall also be responsible for the O&M of the assets being created excluding the assets created for the beneficiaries, or assets created by PPP developers and CSR assets (wherein the responsibility lies with the PPP Developer). The SPV shall also be given right to collect user charges (door to door garbage collection charges), one time connection charges for sewerage connection. The other taxes and charges shall be the responsibility of the Kakinada Municipal Corporation (KMC). The gap between income and the expenses of the SPC shall be required to be paid by the KMC. We have derived the projected financial statements (income statement, P&L statement, Balance Sheet and Cash flow statement) for determining the support required from the KMC. The following sections describes clearly the details of project cost, revenue assumptions, operating structure and assumptions etc. at length.

Project Cost

Following assumptions are used for arriving at the landed project cost:

- a) The implementation period is assumed to be five years period commencing from FY 2016-17 and ending at end of FY 2020-21.
- b) The Financial Model for SPV is developed for 15 years.
- c) The Project Cost estimates are based on current price (2015-16)

The following table shows the breakup of Project Cost with the convergence of other schemes:

Table 1: Breakup of Project Cost

S. No.	Feature	Total Cost (Rs.in Cr)	Convergence
AREA BASED DEVELOPMENTS (ABD)			
1	Identity & Culture	30.46	Gol (Tagore Cultural Complex Scheme): Rs.15.00Cr GoAP (Dept. of Language and Culture): Rs.15.46Cr
2	Economy & Employment	107.66	Gol (NFDB): Rs.13.66Cr, PPP: Rs.57.00Cr Smart Cities: Rs.32.51Cr, Beneficiaries: Rs.4.48Cr
3	Health	50.50	Gol (Ministry of Labour) : Rs.50.00Cr, Smart Cities: Rs.0.50Cr
4	Education	11.20	KMC: Rs.0.25Cr, CSR: Rs.0.50Cr, Smart Cities: Rs.10.40Cr
5	Open Spaces	17.80	AMRUT: Rs.3.00Cr, KMC: Rs.0.48Cr, Smart Cities: Rs.14.32Cr

Financial Sustainability of SPV

S. No.	Feature	Total Cost (Rs.in Cr)	Convergence
6	Housing	228.48	Gol (Housing For All) : Rs.71.40Cr, GoAP: Rs.47.60Cr Beneficiaries: Rs.109.48Cr
7	Transport and Mobility	370.51	Gol (AMRUT) : Rs.29.71Cr, GoAP: Rs.171.75Cr PPP: Rs.46.50Cr, Smart Cities: Rs.122.55Cr
8	IT Connectivity	4.40	Smart Cities: Rs.4.40Cr,
9	Energy Source	152.80	Gol (MNRE) : Rs.12.00Cr, PPPP: Rs.56.40Cr, Smart Cities: Rs.84.40Cr
10	Waste Management Water	264.81	Gol (AMRUT) : Rs.52.90Cr, Smart Cities: Rs.211.85Cr
11	Water Supply & Quality	30.11	Smart Cities: Rs.30.11Cr,
12	Energy Efficiency	38.02	Gol (BEE/EESL) : Rs.19.01Cr, Smart Cities: Rs.19.01Cr
13	Under Ground Wiring	96.80	Gol (IPDS) : Rs.30.48Cr, GoAP (IPDS) : Rs.5.08Cr Smart Cities: Rs.61.23Cr
14	Sanitation	0.76	Gol (SBM) : Rs.0.76Cr
15	Waste Management	43.11	Gol (SBM & MNRE) : Rs.12.22Cr, Smart Cities: Rs.30.88Cr
16	Safety	5.58	Smart Cities: Rs.5.58Cr
17	Storm Water Drainage	307.03	Gol (AMRUT): Rs.30.07Cr, Smart Cities: Rs.276.30Cr
18	Water Development Front	92.00	GoAP (APTDC) : Rs.5.00Cr, CSR: Rs.2.00Cr Smart Cities: Rs.85.00Cr
19	Piped Gas Network	14.00	PPP: Rs.14.00Cr
Total: Area Based Developments		1866.11	
PAN CITY SOLUTIONS			
1	ICT Based intelligent Urban services	126.00	
2	Municipal Solid Waste	0.92	
Total: Pan City Solutions		126.92	
Total Project Cost (ABD and PAN CITY SOLUTIONS): 1993.03 Cr			

Phasing of Project Cost and Means of Finance

The entire project is proposed to be funded from various sources such as Smart City Mission- GOI contribution, Smart City Mission- Government of Andhra Pradesh Contribution, Convergence from other GoI and GoAP schemes as tabulated in Table 1-1, own funds of KMC, contribution by beneficiaries, Corporate social responsibilities, Public Private Partnership, one-time payment from the sewerage users and loan (Debt) as tabulated hereunder in Table 1-3.

Table 2: Means of Finance

Means of Finance (Rs In Lakhs)	% of total Project cost	Total Amount	2016-17	2017-18	2018-19	2019-20	2020-21
Smart city Mission-GOI	24.5%	488.00	194.00	98.00	98.00	98.00	-
Smart city Mission-GOAP	24.5%	488.00	194.00	98.00	98.00	98.00	-
GOI- Other Schemes	17.1%	340.93	78.20	113.57	69.05	58.20	21.90
GoAP-Other schemes	12.3%	244.90	35.43	54.37	55.23	54.73	45.14
KMC-own funding	0.0%	0.73	0.37	0.37	-	-	-
Beneficiaries	5.7%	113.96	24.14	24.14	21.90	21.90	21.90
CSR	0.1%	2.50	0.65	0.85	0.60	0.40	-
PPP	8.7%	173.90	53.65	67.30	34.93	17.53	0.50
One-time payment from the Sewerage users	1.0%	19.21	-	-	6.40	6.40	6.40
Loan	6.1%	120.91	-	23.51	89.18	-	8.22
Total	100.0%	1,993.03	580.43	480.10	473.28	355.15	104.06

Since the Kakinada Municipal Corporation is a financially sustainable entity with having deposits and other receivables, it may use the financial markets and raise the debt of Rs. 120.91 Crore. This debt is raised at the SPV level and may be raised through Pooled Municipal Debt Obligations (PMDO), multilateral or bilateral agencies as the case may be with the following assumptions:

Table 3: Debt Assumptions

S No	Particulars	
1	Drawdown period	5 Years
2	Post drawdown moratorium	Nil
3	Repayment Period	8 Years
4	Total Loan Tenure	13 Years
5	Rate of Interest	11%
6	Annual Repayment	Rs. 1511.37 lakh

Revenue Assumptions

In order to make the SPV financially independent, certain revenue generating projects have been identified. SPV shall also expect to generate other revenues through user charges from the door to door garbage collection from end users and sewerage connection charges from end users. The major revenue to the SPV is revenue heads of the proposed project are given in the table below

Table Error! No text of specified style in document.-4: Revenue Assumptions

S No	Particulars	Base Revenue
PPP Projects Revenue		
1.	Godavary Kalakshetram- A cultural complex	Rs. 30 lakh per year from 2 nd year onwards
2.	Mall & Multiplex	Rs.100 lakh per year from 3 rd year onwards
3.	Boat Building Yard	Rs. 32 lakh per year from 3 rd year onwards
4.	Upgradation of food, vegetables and meat markets (3 markets)	Rs. 5 lakh per market per year from 1 st year onwards
5.	Income from lease of market etc.	Rs. 5 lakh per market from 1 st year onwards
6.	Smart Bus Shelters with Smart E-Toilets	Rs.8000 per toilet per year from 2 nd year onwards
7.	Multi-Level Parking @ Santa Cheruvu	Rs.5 lakh per market from 1 st year
	Parking Revenue from 2 wheelers	Rs. 5 per vehicle
	Parking Revenue from 4 wheelers	Rs. 10 per vehicle
8.	Creek Revenue (From tourism Activities)	Rs. 100 lakh per annum (40%) from year 3 onwards
Non-PPP Projects revenue		
9.	Sewerage charges	
	Sewerage Tariff from the BPL	Rs. 15 per month
	Sewerage Tariff from other households	Rs. 50 per month
10.	Door to door garbage collection system	
	Residential	Rs. 30 per month
	Commercial	Rs. 50 per month
	Large commercial (hospital, hotel, restaurant etc.)	Rs. 500 per month

Financial Sustainability of SPV

The total revenue from these operations are projected as tabulated hereunder:

Rupees in Lakhs															
Revenue Sheet															
	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Year Counter	Yr1	Yr2	Yr3	Yr4	Yr5	Yr6	Yr7	Yr8	Yr9	Yr10	Yr11	Yr12	Yr13	Yr14	Yr15
PPP Projects															
Godavary Kalakshetram	0.0	41.4	47.0	53.1	59.8	66.9	74.6	82.9	87.0	91.4	96.0	100.8	105.8	111.1	116.6
Mall & Multiplex	0.0	0.0	106.1	109.3	112.6	115.9	119.4	123.0	126.7	130.5	134.4	138.4	142.6	146.9	151.3
Boat Building Yard	0.0	0.0	34.5	35.5	36.6	37.7	38.8	40.0	41.2	42.4	43.7	45.0	46.3	47.7	49.2
Upgradation of food, vegetables and meat markets (3 markets)		15.7	16.5	18.6	19.5	23.2	24.4	27.1	28.5	29.9	31.4	33.0	34.6	36.3	38.2
Income from lease of market etc.	0.0	0.0	150.0	172.5	172.5	172.5	198.4	198.4	198.4	228.1	228.1	228.1	262.4	262.4	262.4
Smart Bus Shelters with Smart E-	0.0	14.4	19.2	22.1	22.1	22.1	25.4	25.4	25.4	29.2	29.2	29.2	33.6	33.6	33.6
Multi-Level Parking @ Santa Cheruvu															
Parking Revenue from 2 wheelers	0.0	0.0	7.8	16.1	20.7	21.3	22.0	22.6	23.3	24.0	24.7	25.5	26.2	27.0	27.8
Parking Revenue from 4 wheelers	0.0	0.0	1.5	3.0	3.9	4.0	4.1	4.2	4.4	4.5	4.6	4.8	4.9	5.1	5.2
Creek Revenue (From tourism)	0.0	0.0	40.0	92.0	115.0	115.0	132.3	132.3	132.3	152.1	152.1	152.1	174.9	174.9	174.9
Total PPP Revenue	0.0	71.5	422.6	522.2	562.6	578.6	639.3	655.9	667.0	732.1	744.2	756.8	831.3	844.9	859.1
Non-PPP Projects															
Sewerage network user charges															
Sewerage Tariff from the BPL	0.0	0.0	3.2	6.6	10.1	10.4	10.7	11.1	11.4	11.7	12.1	12.5	12.8	13.2	13.6
Sewerage Tariff from other households	0.0	0.0	21.2	43.7	67.5	69.5	71.6	73.8	76.0	78.3	80.6	83.0	85.5	88.1	90.7
Door to door garbage collection system															
Residential	39.8	59.7	79.6	91.6	91.6	91.6	105.3	105.3	105.3	121.1	121.1	121.1	139.2	139.2	139.2
Commercial	6.0	9.0	12.0	13.8	13.8	13.8	15.9	15.9	15.9	18.3	18.3	18.3	21.0	21.0	21.0
Large commercial	15.0	22.5	30.0	34.5	34.5	34.5	39.7	39.7	39.7	45.6	45.6	45.6	52.5	52.5	52.5
Total Non-PPP Revenues	60.8	91.2	146.0	190.1	217.5	219.8	243.2	245.7	248.2	275.0	277.7	280.5	311.1	314.0	317.1
Total Revenue	60.8	162.7	568.6	712.3	780.1	798.5	882.5	901.5	915.3	1007.1	1021.9	1037.3	1142.4	1158.9	1176.2

Revenue Support Required

The financials of the SPC has been projected for the next fifteen years to assess the financial sustainability of the SPC. It has been observed that the SPC can barely manage the operating expenditure only as majority of the assets created are of the public nature and for the public utility and can't generate revenue. The Profit & Loss Statement for the next fifteen year along with the support from KMC are tabulated hereunder:

Rupees in Lakhs

Profit & Loss Account

Financial Year Ending 31	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Year Counter	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Profit & Loss Account	Yr1	Yr2	Yr3	Yr4	Yr5	Yr6	Yr7	Yr8	Yr9	Yr10	Yr11	Yr12	Yr13	Yr14	Yr15
Revenue from Operations	61	163	569	712	780	798	883	902	915	1,007	1,022	1,037	1,142	1,159	1,176
Other Revenue	527	561	86	146	214	233	209	177	138	91	36	4	-	4	20
Revenue Support from KMC	2	384	649	1,073	1,190	1,214	1,026	914	813	643	560	453	230	193	-
Total Revenue	589	1,107	1,304	1,931	2,184	2,246	2,118	1,993	1,866	1,741	1,618	1,494	1,372	1,356	1,196
Total O&M Costs	62	256	432	692	888	1,019	1,058	1,099	1,139	1,180	1,223	1,266	1,310	1,356	-
PBDIT	527	851	872	1,240	1,296	1,226	1,060	894	727	561	395	228	62	0	1,196
Depreciation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PBIT	527	851	872	1,240	1,296	1,226	1,060	894	727	561	395	228	62	0	1,196
Interest on Loan	-	162	872	1,240	1,296	1,226	1,060	894	727	561	395	229	62	-	-
Int. On Overdraft Facility to P&L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PBT	527	689	0	0	0	0	0	(0)	(0)	(0)	(0)	(0)	0	0	1,196
Tax	175	229	0	0	0	0	0	-	-	-	-	-	0	0	397
PAT	352	460	0	0	0	0	0	(0)	(0)	(0)	(0)	(0)	0	0	799

The total support required from the KMC is Rs. 93.44 Crore over a period of 15 years as tabulated above. Total depreciation for the entire set of assets created is Rs. 56.87 Crore however the same is not used in here as the majority of the assets are public assets. The other revenue from is the revenue from the investment etc. The details of the projected Balance sheet and Cash flow statements for the SPV are detailed our hereunder:

Financial Sustainability of SPV

Rupees in Lakhs															
Cashflow Statement															
Financial Year Ending 31st March ----->	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Year Counter	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Cashflow Statement	Yr1	Yr2	Yr3	Yr4	Yr5	Yr6	Yr7	Yr8	Yr9	Yr10	Yr11	Yr12	Yr13	Yr14	Yr15
INFLOW															
PAT	352	460	0	0	0	0	0	(0)	(0)	(0)	(0)	(0)	0	0	799
Depreciation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equity	20,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Debt	-	2,351	8,918	-	822	-	-	-	-	-	-	-	-	-	-
Grants by GOI & GoAP	18,800	19,600	19,600	19,600	-	-	-	-	-	-	-	-	-	-	-
Grants through Convergence	11,400	16,831	12,428	11,293	6,704	-	-	-	-	-	-	-	-	-	-
One time receipts -Sewerage connection charges	-	-	640	640	640	-	-	-	-	-	-	-	-	-	-
Support from KMC	2	384	649	1,073	1,190	1,214	1,026	914	813	643	560	453	230	193	-
Total	50,553	39,626	42,235	32,606	9,357	1,214	1,026	914	813	643	559	453	230	193	799
OUTFLOW															
Capex	32,984	55,997	41,586	31,268	8,432	-	-	-	-	-	-	-	-	-	-
Repayment of Debt	-	-	-	-	-	1,511	1,511	1,511	1,511	1,511	1,511	1,511	1,511	-	-
Total	32,984	55,997	41,586	31,268	8,432	1,511	1,511	1,511	1,511	1,511	1,511	1,511	1,511	-	-
Cashflow Cascade															
Cashflow Available for DSRA	352	460	0	0	0	(1,511)	(1,511)	(1,511)	(1,511)	(1,511)	(1,511)	(1,511)	(1,511)	0	799
Required Amt. In DSRA	-	81	436	620	648	1,369	1,286	1,202	1,119	1,036	953	870	787	-	-
Op. Bal. of DSRA	-	-	81	81	81	81	81	81	81	81	81	81	81	81	-
Additions	-	81	0	0	0	-	-	-	-	-	-	-	-	-	-
Withdrawals	-	-	-	-	-	-	-	-	-	-	-	-	-	81	-
Cl. Bal of DSRA	-	81	81	81	81	81	81	81	81	81	81	81	81	-	-
Interest on DSRA to P&L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Net Cashflow Post-DSRA	352	379	-	-	-	(1,511)	(1,511)	(1,511)	(1,511)	(1,511)	(1,511)	(1,511)	(1,511)	81	799
Less: Capex	32,984	55,997	41,586	31,268	8,432	-	-	-	-	-	-	-	-	-	-
Add: Equity	20,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Add: Convergence Money	11,400	16,831	12,428	11,293	6,704	-	-	-	-	-	-	-	-	0	0
Add: one time Connection Charges	-	-	640	640	640	-	-	-	-	-	-	-	-	-	-
Add: Debt	-	2,351	8,918	-	822	-	-	-	-	-	-	-	-	-	-
Add Grant	18,800	19,600	19,600	19,600	-	-	-	-	-	-	-	-	-	-	-
Add Additional Support from KMC	2	384	649	1,073	1,190	1,214	1,026	914	813	643	560	453	230	193	-
Net Cash Surplus/(Deficit)	17,569	(16,452)	649	1,339	925	(297)	(485)	(597)	(699)	(868)	(952)	(1,058)	(1,281)	274	799
Cash Shortfall Borrowing															
Opening Bal. Overdraft Facility	-	-	-	-	-	-	-	-	-	-	-	-	928	2,209	2,072
Borrowings/(Repayments)	-	-	-	-	-	-	-	-	-	-	-	928	1,281	(137)	(399)
Closing Bal. Overdraft Facility	-	-	-	-	-	-	-	-	-	-	-	928	2,209	2,072	1,673
Int. On Overdraft Facility to P&L	-	-	-	-	-	-	-	-	-	-	-	16	55	75	66
Net Cash Surplus/(Deficit) to Cash	17,569	(16,452)	649	1,339	925	(297)	(485)	(597)	(699)	(868)	(952)	(131)	-	137	399
Interest on Cash Balances to P&L															
Op. Bal of Cash	-	17,569	1,117	1,766	3,104	4,029	3,732	3,247	2,650	1,951	1,083	131	-	-	137
Addition/(Reduction) to Cash Balance	17,569	(16,452)	649	1,339	925	(297)	(485)	(597)	(699)	(868)	(952)	(131)	-	137	399
Closing Cash Balance	17,569	1,117	1,766	3,104	4,029	3,732	3,247	2,650	1,951	1,083	131	-	-	137	537
Interest on Cash Balances (To P&L)	527	561	86	146	214	233	209	177	138	91	36	4	-	4	20

Financial Sustainability of SPV

Balance Sheet															
Financial Year Ending 31st March --	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Year Counter	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Balance Sheet (Rs Lakhs)	Yr1	Yr2	Yr3	Yr4	Yr5	Yr6	Yr7	Yr8	Yr9	Yr10	Yr11	Yr12	Yr13	Yr14	Yr15
Liabilities															
Equity	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
Balance Transferred from P&L	352	812	812	812	812	812	812	812	812	812	812	812	812	812	1,611
Grant By GOI/ GOAP	18,800	38,400	58,000	77,600	77,600	77,600	77,600	77,600	77,600	77,600	77,600	77,600	77,600	77,600	77,600
Grant through Convergence	11,400	28,230	40,658	51,951	58,655	58,655	58,655	58,655	58,655	58,655	58,655	58,655	58,655	58,655	58,655
Support from KMC	2	386	1,034	2,107	3,297	4,512	5,538	6,452	7,265	7,908	8,468	8,921	9,151	9,344	9,344
One time receipts -Sewerage connection charges	-	-	640	1,281	1,921	1,921	1,921	1,921	1,921	1,921	1,921	1,921	1,921	1,921	1,921
Networth	50,553	87,828	121,145	153,751	162,286	163,500	164,527	165,441	166,254	166,897	167,456	167,909	168,139	168,332	169,131
DEBT	-	2,351	11,269	11,269	12,091	10,580	9,068	7,557	6,045	4,534	3,023	1,511	(0)	(0)	(0)
Term Liabilities (a)															
Cash Shortfall Loan	-	-	-	-	-	-	-	-	-	-	-	927.67	2,209.16	2,072.09	1,672.61
Total Term Liabilities	-	2,351	11,269	11,269	12,091	10,580	9,068	7,557	6,045	4,534	3,023	2,439	2,209	2,072	1,673
Current Liabilities (b)															
Payables	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Working Capital Limits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Current Liabilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Debt (a) + (b)	-	2,351	11,269	11,269	12,091	10,580	9,068	7,557	6,045	4,534	3,023	2,439	2,209	2,072	1,673
Total Liabilities	50,553	90,179	132,414	165,020	174,377	174,080	173,595	172,998	172,299	171,431	170,479	170,348	170,348	170,404	170,804
Assets															
Gross Fixed Assets	32,984	88,982	130,568	161,835	170,267	170,267	170,267	170,267	170,267	170,267	170,267	170,267	170,267	170,267	170,267
Less: Cumulative Depreciation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Net Fixed Assets	32,984	88,982	130,568	161,835	170,267	170,267	170,267	170,267	170,267	170,267	170,267	170,267	170,267	170,267	170,267
DSRA	-	81	81	81	81	81	81	81	81	81	81	81	81	81	-
Current Assets															
Cash Balances	17,569	1,117	1,766	3,104	4,029	3,732	3,247	2,650	1,951	1,083	131	-	-	137	537
Total Assets	50,553	90,179	132,414	165,020	174,377	174,080	173,595	172,998	172,299	171,431	170,479	170,348	170,348	170,404	170,804

42 Financial Timeline

What is the financial timeline for your smart city agenda? Describe the milestones and target dates related to fund flows, payback commitments etc that must be adhere to for the proposal to achieve the vision set out in Table 5 (question 31) (Maximum 1 page A4 Size)

The total funds required for the implementation of Smart City Projects is Rs. 1993.03Cr. It is planned to implement the project in five years starting from 2016-17 to 2020-21. Based on the timelines for completion of projects as indicated in Table 5 (under para 31) the funds requirements along-with timelines are indicated below:

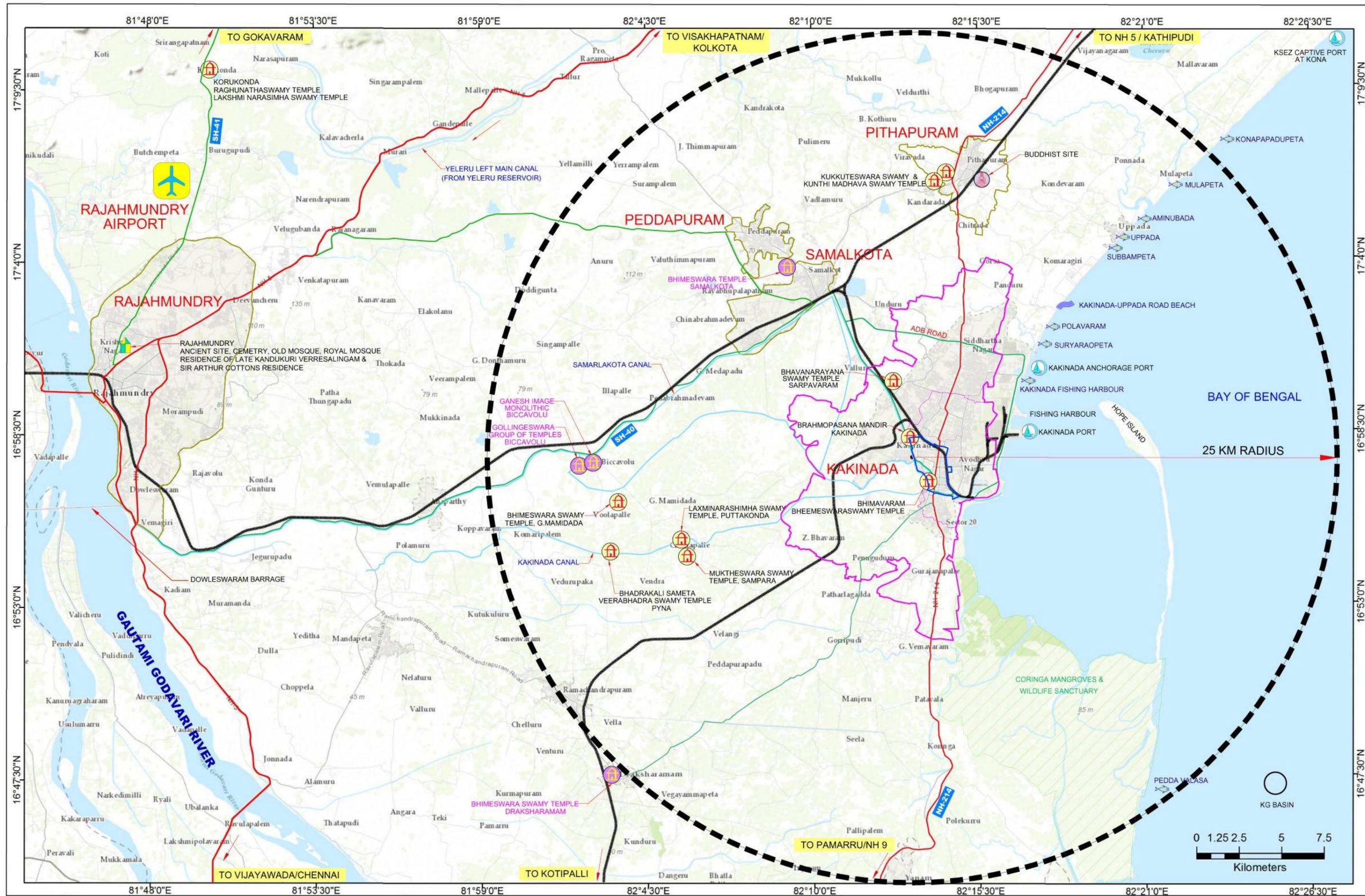
Source of funds	Year 1 2016- 17	Year 2 2017- 18	Year 3 2018- 19	Year 4 2019- 20	Year 5 2020- 21	Total
Smart city Mission-GOI	194.00	98.00	98.00	98.00	-	488.00
Smart city Mission-GOAP	194.00	98.00	98.00	98.00	-	488.00
GOI- Other Schemes	78.20	113.57	69.05	58.20	21.90	340.93
GoAP-Other schemes	35.43	54.37	55.23	54.73	45.14	244.90
KMC-own funding	0.37	0.37	-	-	-	0.73
Beneficiaries	24.14	24.14	21.90	21.90	21.90	113.96
CSR	0.65	0.85	0.60	0.40	-	2.50
PPP	53.65	67.30	34.93	17.53	0.50	173.90
One-time payment from the Sewerage users	-	-	6.40	6.40	6.40	19.21
Loans	-	23.51	89.18	-	8.22	120.91
Total	580.43	480.10	473.28	355.15	104.06	1,993.03

The above fund flow will ensure the timely availability of funds required for meeting the capital expenditure budget of all the projects.

As explained in question 40, the pay back commitments for the repayment of the loan will be Rs.15.11 Cr. (approx).

The following timeline should be adhered to by Kakinada Corporation to meet the pay back commitment without default:

1. Determination of connection and user charges for the sewer network, garbage collection charges. Moreover, KMC should also pass a resolution to levy the user charges and authorize SPV to levy and collect them. (By March 31, 2017 for garbage collection charges and March 31, 2018 for sewer network charges)
2. Identify and implement PPP projects and authorize SPV to collect the fees form following PPP projects: (Godavari Kalashretram –cultural complex, Mall & Multiplex, Development of Boar yard Convention center, Food and vegetable market upgradation, smart bus shelters, smart RTC bus stand, Multi-level car parking etc.)



LEGEND:

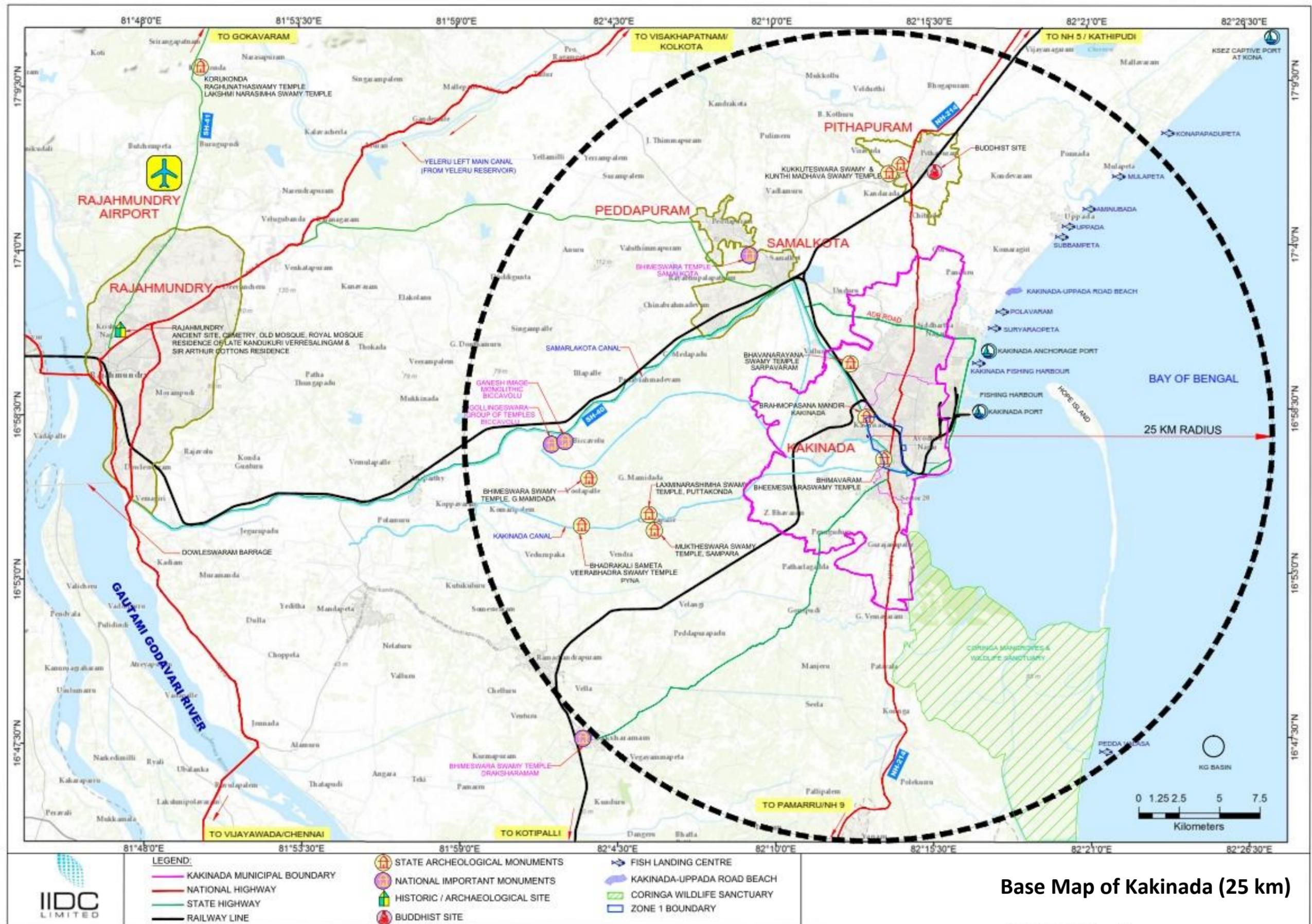
- KAKINADA MUNICIPAL BOUNDARY
- NATIONAL HIGHWAY
- STATE HIGHWAY
- RAILWAY LINE

- STATE ARCHEOLOGICAL MONUMENTS
- NATIONAL IMPORTANT MONUMENTS
- HISTORIC / ARCHAEOLOGICAL SITE
- BUDDHIST SITE

- FISH LANDING CENTRE
- KAKINADA-UPPADA ROAD BEACH
- CORINGA WILDLIFE SANCTUARY
- ZONE 1 BOUNDARY

Base Map of Kakinada (25km)





MUNICIPAL ADMINISTRATION DEPARTMENT

From:
Sri H.Arun Kumar I.A.S,
Collector & District Magistrate,
East Godavari District,
Kakinada.
Email id: kakinadacorporation@gmail.com
collectorkda@gmail.com

To:
The Principal Secretary,
Tourism & Culture Department,
Government of A.P,
Hyderabad.
Email id: secy_trsm@ap.gov.in

Roc.No.2549/2015/Smart City/E6/7, Dt.01-12-2015.

Sir,

Sub: Kakinada Municipal Corporation – Smart City Mission (SCP)- Request to accord in principal approval of works for taking up under Area Based Development in Smart City Area — Regarding.

Ref: 1. G.O.Ms.No.512 dated 29-07-15 of MA & UD Department.
2. Inter Departmental Task Force Committee meetings held on 21-09-2015, 14-10-2015 and 12-11-2015.

It is to submit that Kakinada city was shortlisted as one of the potential Smart Cities by the Government of India in the first round of Smart City Mission.

In this connection, it is to submit that the Government of Andhra Pradesh in the reference 1st cited have issued orders duly constituting Inter Departmental Task Force Committee for Kakinada City under Smart City Mission. As per the decisions taken in the Inter Departmental Task Force committee meetings held on 21-09-2015, 14-10-2015 and 12-11-2015 and one of the prominent recommendations received during public consultations is to develop recreation facilities duly utilizing the canal front. The consultants prepared a preliminary feasibility proposal with an estimated cost of Rs.92.00 Crores in which the following tasks were included to be taken up in the proposed Area Based Development (ABD) of Smart City Proposals (SCP).

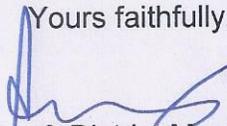
- | | |
|---|-----------------------------|
| 1. Construction of RCC retaining wall from Jagannaickpur
Bridge to Indrapalem Lock | ---- Rs.46.00 Crores |
| 2. Providing Green Waterfront Development along retaining
wall including green carpets, walk ways, landscape,
Boating, lighting etc., | ---- Rs.46.00 Crores |
| Total | ---- Rs.92.00 Crores |

It is proposed to take up the above work with the funds from the following agencies

1. A.P Tourism Development Corporation
2. CSR Funds through District Collector, E.G.District
3. Municipal Corporation, Kakinada
4. Smart City funds

The Detailed Project Report (DPR) is under preparation. Therefore it is requested to accord in principle approval so that the same can be incorporated in the Smart City Proposal (SCP) by 04-12-2015.

Yours faithfully,


Collector & District Magistrate,
East Godavari District,
Kakinada.

1-12-2015

Copy submitted to the Principal Secretary, Municipal Administration and Urban Development Department, Government of A.P, Hyderabad for favour of information.

Copy to the Managing Director, APUFIDC, Government of Andhra Pradesh, Hyderabad for favour of information.

Copy to the Managing Director, AP Tourism Development Corporation, Hyderabad for taking further necessary action.

ఆంధ్రప్రదేశ్ నూతన మరియు పునరుద్ధరణీయ ఇంధన వనరుల అభివృద్ధి సంస్థ లి.
New & Renewable Energy Development Corporation of Andhra Pradesh Ltd.

(A State Government Company)

(Formerly Non-Conventional Energy Development Corporation of Andhra Pradesh Ltd.)

Regd. Office : 5-8-207/2, Pishah Complex, Nampally, Hyderabad - 500 001. India.

Tel : Off : 040-23202391, 23202262, 23203376 Fax : 040-23201666.

E-mail : info@nedcap.gov.in, nedcap@ap.nic.in Website : www.nedcap.gov.in



Ref: NREDCAP/Solar Cities/2015/1386

Date: 25-11-2015

To

Sri H Arun Kumar, IAS
Collector & District Magistrate
East Godavari District - KAKINADA



Handwritten notes in green ink: 'M.P. Govd', 'Kakinada', and a signature.

Sir

Sub: Solar Cities programme - Inclusion of Kakinada Municipal Corporation, Andhra Pradesh - Requested - Reg.

Ref: 1. This Office letter dated: 25-11-2015
2. Your Lr Roc No: 2549/2015/Smart City/E6/2, dt: 01-12-2015

Handwritten note: 'MC Kakinada' with a line underneath.

With reference to the 2nd cited letter, we wish to inform that the proposal of the Commissioner, Municipal Corporation, Kakinada, Andhra Pradesh was already submitted to MNRE, Gol, New Delhi to consider and to issue in principle sanction under MNRE solar city programme vide this office 1st cited letter.

On receipt of the approval from MNRE, Gol, the same will be communicated for taking further action.

Thanking You,

Yours faithfully

V C & MANAGING DIRECTOR

Copy to : Dr Arun K Tripathy, Scientist - F, MNRE, New Delhi-110 003
Copy to : Commissioner, Municipal Corporation, Kakinada, A.P.
Copy to : Dist Manager, NREDCAP, Kakinada, A.P.

RATE PAYERS ASSOCIATION

D.No.8-21-2, Poollavari Street, Gandhinagar, Kakinada - 533004
Email: iiigraghu@gmail.com - +91 9177557792 - +91 884 238 41 64

Y.D. RAMA RAO
PRESIDENT

P.RAGHU RAMA RAO
SECRETARY

Dated: 9th December 2015

The Commissioner
Municipal Corporation
Kakinada

Dear Sirs

Hearty Greetings and Best Wishes.

Subject: KMC- Preparation of Smart City – Proposals (SCP) – Consent for incremental increase of Property Tax in the SABD – Regarding

Reference: 1. G.O.MS. No. 512 dated 29-07-2015 of MA & UD Department
2. ROC No.2549/2015/Smart City/E6. Dated 03.12.2015
3. Our Smart City proposals dated 11.11.2015

* * * * *

With reference to the above, it is to inform you that the Rate Payers Association, Kakinada congratulates the efforts of the Municipal authorities to place Kakinada in the first 20 list of Smart Cities.

In this connection we would like to remind you that we have submitted our proposals for making Kakinada a Smart City on 11th November, 2015 and thereafter. You have given clarity in your letter regarding the investments of around Rupees 1,500 crores for upgrading the existing infrastructure facilities and to provide the best services for the public. The Rate Payers of Kakinada are expecting enormous change in the quality of service to them and dreaming of a safe, comfortable, peaceful and livable Kakinada. We expect our proposal will turn to a reality.

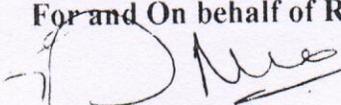
Once the proposals made by us and prepared by you becomes a reality and development takes place as envisaged, the citizens of SABD area under Smart City project do not hesitate to pay a reasonable increase of 10% to 15% compared to other areas.

Hence you are requested to go ahead with the proposals to win the second round of Smart City Mission.

Thanking You

Yours Sincerely

For and On behalf of Rate Payers Association


Y.D. RAMA RAO
PRESIDENT

Kakinada Federation of Apartment Owners' Welfare Associations

Apt # 104, Nanda's Brindavan, RMC Hostel Road, Venkatanagar

Kakinada – 533 003

Phone: 0884-2363546 / Mobile: 98489-49666 / E-mail: fedkdaaptowners@gmail.com

11-12-2015

To
The Commissioner
Municipal Corporation
Kakinada – 533 001

Sub: Maintenance cost of additional social infrastructure proposed to be created under Area Based Development in Smart City Programme in Kakinada City - Reg

Sir,

We thank you for interacting with the undersigned and other representatives of our Federation for ascertaining the views and perception of apartment owners on various developmental needs in our city for inclusion in the Area Based Development proposals under Smart City Programme.

We appreciate the vision which is reflected in the Statement Showing Investments being proposed to be made in our city under Smart City Programme.

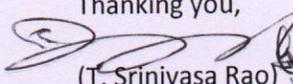
Specially the proposals like Godavari Kalakshetram, Mall & Multi-plex, Skill Development Centres, ESI Hospital with 100 beds, Elevated sky-way between RTC bus complex and Town Railway Station, Off street and multi-level parking arrangements, widening of existing bridges and construction of new bridges across East Yeleru drain, Kondayyapalem ROB, Port area ROB, Approach road to NTR bridge from Temple Street, 100% wifi connectivity in the city, roof-top solar projects for apartments, improved sewerage net-work, Solar LED street lights, underground telecom and electrical cabling, improved solid waste management, installation of over 1200 CCTV cameras with a control room, improved storm water drainage system, development of commercial canal from Indrapalem locks to Jagannaickpur bridge, development of piped gas net-work and some others look very attractive and together, all of such improved infrastructure is sure to improve the quality of living of average citizen in the city.

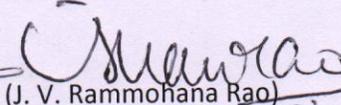
We appreciate the view point of the municipal administration that tax payers in the city will have to share at least to some extent the cost of maintenance of the above additional public infrastructure whenever it is created in its entirety. We do not have any doubt that citizens will agree to any proposal by the municipal administration for a small incremental enhancement of not more than 5 to 10 percent in property tax payable by them.

In this context, as Federation of Apartment Owners' Welfare Associations in the city, we expect the municipal administration to strictly implement, in its true letter and spirit, all provisions of the A. P. Apartments (Promotion of Construction and Ownership) Act, 1987, which is enacted mainly for protecting the interests of apartment owners and prospective buyers and thus to promote construction of apartment buildings.

We trust that you would appreciate and do the needful.

Thanking you,


(T. Srinivasa Rao)
President


(J. V. Rammoohana Rao)
Secretary

E-Mail:

Date : 11-12-15

From:

AJAY JAIN, I.A.S.
Secretary to Government



Energy, Infrastructure &
Investment Department
Government of Andhra Pradesh
Secretariat, Hyderabad - 500 022.
Ph: Off : +91-40-23321774, 23321775
Fax : 23307766
Email : ajayjainias@gmail.com



Date: 11-12-2015

To
The Chairman & Managing Director,
Power Finance Corporation of India,
New Delhi.

Sir,

The supplemental Estimates for the following three cities selected under Smart Cities by Government of India are forwarded duly obtaining Distribution Reforms Committee approval. The respective DEC's have been consulted.

As per the guidelines, underground cabling in the retrofitted areas in each city is provided in the estimates besides smart meters.

Vizag city	Rs.25 crs (u.g. cabling covered under world bank scheme)
Kakinada City	Rs.120 crs
Tirupati City	Rs.325 crs

Thanking you,

Yours faithfully,

Encl: Three DPRs.

hjm
11/12/15
Secretary to Government,
Energy, I & I and CRDA

Copy to the Municipal Commissioner,
Tirupathi / Kakinada / Visakhapatnam

Lr. No.4265 /C/T/A1/2014,Dated:25.10.2014

To
The Secretary
Ministry of Culture,
Government of India
Shastri Bhawan,
New Delhi-110115

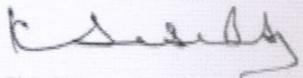
Sir,

Sub: YAT & C (T) Dept – “Development of Godavari Kalakshetram” (Cultural Complex) at Kakinada, Andhra Pradesh under Tagore Cultural Complexes Scheme, under Ministry of Culture, GOI – Forwarding Detailed Project Report (DPR) – Request for sanction and release of Rs. 15.00 Crs GOI Share – Reg.

I am furnishing herewith the Detailed Project Report for Development of Godavari Kalakshetram” (Cultural Complex) at Kakinada, Andhra Pradesh under Tagore Cultural Complexes Scheme, Ministry of Culture, Government of India with an estimated project cost of Rs. 30.61 Crores (Rupees Thirty Cores Sixty One Lakhs only) out of which Rs. 15.00 crores is the Government of India share and Rs. 15.61 Crs is the Government of Andhra Pradesh share.

I, therefore request you kindly consider the project proposal for sanction and release of Rs. 15.00 Crores of GOI share under Tagore Cultural Complexes Scheme at an early date.

Yours faithfully,


Special Chief Secretary to Government

NARA CHANDRABABU NAIDU



HYDERABAD

CHIEF MINISTER
ANDHRA PRADESH

Lr. No.4265 /C/T/A1/2014, Dated: .04.2015

Dear Sri Ravindra Singhji,

Kakinada city in Andhra Pradesh has a long history of cultural and artistic significance. The city is known for hosting a number of cultural and musical events under the aegis of Saraswathi Gana Sabha, YMCA, Brahma Samajam and Kakinada Literary Association. Despite being a city of such cultural significance, it does not have matching art related infrastructure. This gap is hindering further growth of cultural and artistic expression in the city and the state. Thus, there is an urgent need for construction of a cultural complex in Kakinada.

It was in this context that the Government of Andhra Pradesh (GoAP) submitted a Detailed Project Report (DPR) for "Development of Godavari Kala Kshethram (Cultural Complex)" at Kakinada under the TAGORE CULTURAL COMPLEXES scheme of Government of India (GoI). The project cost is estimated to be INR 30.61 Cr. INR 15 Cr is estimated to be GoI share and the remaining amount of INR 15.61 Cr shall be borne by the GoAP.

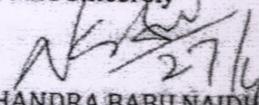
Continuation Sheet.....

:: 2 ::

Hence, I request you to kindly approve the proposal and sanction the release of INR 15,00 Crores of GOI share under Tagore Cultural Complexes Scheme at the earliest.

With regards,

Yours Sincerely


(N.CHANDRA BABU NAIDU)

To
Shri Ravindra Sing,
Ministry of Culture,
Government of India
Shastri Bhawan,
New Delhi-110115

Chandana Khan, IAS.
Special Chief Secretary to Government, Tourism
& Chairman & Managing Director
Andhra Pradesh Tourism
Development Corporation Ltd.



Andhra Pradesh
TOURISM
everything's possible!
D-Block, 1st Floor, Room No. 221-A, A.P.
Secretariat, Hyderabad-500 022.
Ph: +91-40-23456717, Fax: +91-40-23454966
e-mail: secy.tsm@ap.gov.in www.aptourism.in

Lr. No.4062 /C/T/A1/2014,Dated:25.10.2014

To
The Secretary
Ministry of Culture,
Government of India
Shastri Bhawan,
New Delhi-110115

Sir,

Sub: YAT & C (T) Dept – "Development of Godavari Kalakshetram" (Cultural Complex) at Kakinada, Andhra Pradesh under Tagore Cultural Complexes Scheme, under Ministry of Culture, GOI – Forwarding Detailed Project Report (DPR) – Request for sanction and release of Rs. 15.00 Crs GOI Share – Reg.

I am furnishing herewith the Detailed Project Report for Development of Godavari Kalakshetram" (Cultural Complex) at Kakinada, Andhra Pradesh under Tagore Cultural Complexes Scheme, Ministry of Culture, Government of India with an estimated project cost of Rs. 30.61 Crores (Rupees Thirty Crores Sixty One Lakhs only) out of which Rs. 15.00 crores is the Government of India share and Rs. 15.61 Crs is the Government of Andhra Pradesh share.

I, therefore request you kindly consider the project proposal for sanction and release of Rs. 15.00 Crores of GOI share under Tagore Cultural Complexes Scheme at an early date.

Yours faithfully,

Chandana Khan
Special Chief Secretary to Government

ANDHRA PRADESH STATE ROAD TRANSPORT CORPORATION



O/o the Managing Director,
RTC House, PNBS
VIJAYAWADA-520 012
Dated 04.12.2015.

Lr.No.AM(7)/Central Projects/2015

To
The Collector & District Magistrate,
East Godavari District,
KAKINADA - 533 001

Sir,

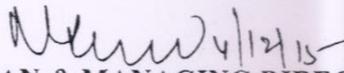
- Sub: **Kakinada Municipal Corporation** – Smart City Project (SCP) – Request made by Collector & District Magistrate, East Godavari to accord in principal approval of works concerned to APSRTC – Regarding.
- Ref: 1. G.O.Ms.No.512, dated 29.07.15 of MA&UD Department.
2. Inter Departmental Task Force Committee Meetings held on 21.09.2015, 14.10.2015 and 12.11.2015.
3. Roc.No.2549/2015/Smart City/E6/1, Dated 01.12.2015 of the Collector & District Magistrate, East Godavari District, Kakinada

With reference to your letter 3rd cited, this is to inform that APSRTC constructed Bus Station at Kakinada during 1978 with a plinth area of around 30,000 sft. in a total area of 3.09 Acres. The foot fall of Kakinada Bus Station is around 25,000 per day. The existing Bus Station is unable to meet the needs of Smart City, Kakinada. There is need to modernize the Bus Station with all modern amenities required for a Smart City Bus Station.

In this connection this to inform that in principle approval is accorded to take up the up gradation of Bus terminal with PPP mode as APSRTC cannot afford capital expenditure at this juncture.

Hence it is requested to incorporate the above proposals of modernization of Bus Station in the Smart City Proposal (SCP) under PPP mode please.

Yours faithfully,


VICE CHAIRMAN & MANAGING DIRECTOR

Copy submitted to Principal Secretary to Government, MA&UD Department, Govt. of A.P., Secretariat, Hyderabad for favour of information.
Copy to MD, APUFIDC, Hyderabad for favour of information.
Copy to RM, APSRTC, EG, Rajahmundry for further follow up action.

Rc.No.Special5/2015 Dt.14-12-2015

To,
The Commissioner,
Municipal Corporation,
Kakinada.

Sir,

Sub: Tourism Department – E.G.District – Beautification of commercial canal from Jagannaickpur bridge to Indrapalem locks – Consent – Regarding.

Ref: Minutes of the meeting had with District Collector on 07-12-2015.

I invite to the subject cited and it is to informed that the Beautification of commercial canal from Jagannaickpur bridge to Indrapalem locks has been reviewed by the District Collector and we are in principal agreed to participate in the above project as discussed with the Principal Secretary, Tourism, as there is a huge potential in terms of tourism aspects in Kakinada. The detailed report is being prepared to submit to the Government to allocate a minimum of Rs.5.00 Crores towards tourism department funding as a special case under Smart city Mission.

Yours Faithfully



Special Officer,
Akhand Godavari Project,
Rajahmundry.

ఆంధ్రప్రదేశ్ సూతన మరియు పునరుద్ధరణీయ ఇంధన వనరుల అభివృద్ధి సంస్థ లి.
New & Renewable Energy Development Corporation of Andhra Pradesh Ltd.

(A State Government Company)

(Formerly Non-Conventional Energy Development Corporation of Andhra Pradesh Ltd.)

Regd. Office : # 5-8-207/2, Pishah Complex, Nampally, Hyderabad - 500 001. India.

Tel : Off : 040-23202391, 23202262, 23203376 Fax : 040-2320 1666

E-mail : info@nedcap.gov.in, nedcap@ap.nic.in Website : www.nedcap.gov.in



Ref: NREDCAP/OSD/64 /Govt. buildings/2015 /1338

Dt: 25.11.2015

To

Sri Tarun Kapoor, IAS.,
 Joint Secretary to Govt.,
 Ministry of New & Renewable Energy,
 Block No.14, CGO Complex,
 Lodi Road, New Delhi - 110 003.

Sir,

Sub: Development of Kakinada city as Smart City under Smart City Mission of Govt. of India - Promotion of Solar rooftop installations on all rooftops of Govt. buildings - Reg

Ref: DO Ir no.NREDCAP/KKD/S City/2015-16 Dt.18.11.2015 of Collector and District Magistrate, East Godavari dist.

---0---

We submit to inform that Kakinada City in East Godavari Dist., A.P. State is selected as one of the 100 potential cities for development as a smart city under Smart City Mission of Govt. of India. Under this programme, smart solutions will be adopted including Renewable Energy and Efficiency Measures. In the reference cited, the District Collector, East Godavari dist. has submitted proposals for installation of 5 MW capacity Solar rooftop systems on all rooftops of Govt. buildings in the area proposed under Area Based Development (ABD) of smart city.

The details of buildings along with roof top area available are prepared by the Kakinada Municipal Corporation by availing the services of NREDCAP branch office at Kakinada. The details are enclosed herewith for kind information. The total rooftop area available is 5,13,950 Sq.ft. and it can be possible for installation of 5 MW capacity Solar rooftop systems.

In this connection, it is requested to kindly accord sanction of Central Financial Assistance (CFA), as per the scheme guidelines ie., 30% of the estimated project cost to install grid connected solar rooftop systems in the Govt. buildings in Kakinada city which is selected as one of the cities for development of as a Smart City.

We request you to kindly accord in principle approval for the above proposal in order to incorporate in the Smart City proposals to be sent to Govt. of India.

Thanking you,

Yours faithfully,

[Signature]
 VC & MANAGING DIRECTOR

Copy to Collector & District Magistrate, East Godavari dist. Kakinada for information.

“ Energy is Life - Conserve it “

ఆంధ్రప్రదేశ్ నూతన మరియు పునరుద్ధరణీయ ఇంధన వనరుల అభివృద్ధి సంస్థ లి.

New & Renewable Energy Development Corporation of Andhra Pradesh Ltd.

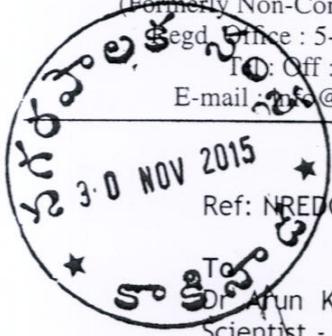
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Regd. Office : 5-8-207/2, Pishgah Complex, Nampally, Hyderabad - 500 001. India.

Tel: Off : 040-23202391, 23202262, 23203376 Fax : 040-23201666.

E-mail: info@nedcap.gov.in, nedcap@ap.nic.in Website : www.nedcap.gov.in



Ref: NREDCAP/Solar Cities/2015

Date: 25 -11-2015

To: Dr. Arun K Tripathy
Scientist - F

Ministry of New and Renewable Energy (MNRE)
Block-14, CGO Complex,
Lodhi Road, New Delhi-110 003
Email: aktrpathi@nic.in, fax: 011-24363035

Sir

Sub: Solar Cities programme - Inclusion of Kakinada Municipal Corporation,
Andhra Pradesh - Requested - Reg.

Ref: 1. Lr No: 2549/2015/E6, dt: 23-11-2015 of the Commissioner, Municipal
Corporation, Kakinada, Andhra Pradesh.

The Commissioner, Municipal Corporation, Kakinada, Andhra Pradesh has informed through the reference cited, that the Kakinada Municipal Corporation was short listed among the 100 potential smart cities under smart cities proposal (SCP) in the country and as per the guidelines of Smart City Mission, 10% of the energy requirement of the city shall come from renewable energy. Further, it was also communicated that during the smart cities conference held on 21-11-2015 at New Delhi, the Joint Secretary, MNRE, Govt of India has instructed to submit the potential smart cities proposal for MNRE for inclusion in the solar city programme (copy enclosed).

Taking into consideration of the above, it is requested that the Kakinada Municipal Corporation may be included in the MNRE solar city programme and in principle sanction may please be accorded at the earliest.

Thanking You,

Yours faithfully

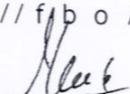
Sd/-
V C & MANAGING DIRECTOR

Copy to : Sri Tarun Kapoor, IAS, Joint Secy, MNRE, GOI, New Delhi - for favour of information.

Copy to : Commissioner, Municipal Corporation, Kakinada, A.P.

Copy to : Dist Manager, NREDCAP, Kakinada, A.P.

// f b o //


GENERAL MANAGER
"Energy is Life - Conserve it"

1619
19/10/15

GOVERNMENT OF ANDHRA PRADESH
ROADS AND BUILDINGS DEPARTMENT

From
Sri C.S.N.Murty, M.Tech.,
Superintending Engineer(R&B),
(R&B) Circle,
Kakinada.

To
The Engineer-in-Chief(R&B),
Admn. & State Roads,
RSW& Buildings,
Errummanzil,
Hyderabad.

Letter No. 1935/AEE4/ROB LC No.7/2014 dated 08.10.2015

Sub: - R&B Dpet., - ROB Works - "Construction of ROB in lieu of L.C.No.7 at Railway km.11/19-20 of Samalkota - Kakinada Section on the road from Kakinada-Rajahmundry road at Z.P. Junction to NH-214 at Bhanugudi Junction in Kakinada City limits in E.G.Dist." - Formation of connectivity road to NH.216 - Detailed Report - Submitted - Regarding.

- Ref: - 1) G.O.Ms.No. 53, T,R&B (R-II) Dept., dt. 11.02.2009.
2) G.O.Rt.No. 53, T,R&B (R-II) Dept., dt. 19.01.2015.
3) Engineer-in-Chief (R&B), Admn., S.R. & RSW, Hyderabad memo No.27489 / EE(TEC) / DEE-6 / AEE-2 / 2015, dt.04.05.2015.
4) Representation of Sri Vanamadi Venkateswararao (Kondababu), M.L.A., Kakinada City, E.G.Dist., dt.18.04.2015.
5) CMP No.675 (519) / PSSC / 2015, dt.25.04.2015 from the Hon'ble Chief Minister's Office communicated vide Government of A.P., T,R&B Department Memo No.3422 / R.II(2) / 2015-1, dt.04.05.2015.
6) Engineer-in-Chief (R&B), Admn., S.R. & RSW, Hyderabad memo No.27489 / EE(TEC) / DEE-6 / AEE-2 / 2015, dt.15.05.2015.
7) Executive Engineer(R&B), Kakinada Lr.No.JTO2/KKD/ROB LC No 7/2007 Dt:16-09-2015.

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19/10/2015

I submit that the Government has accorded Administrative sanction for Rs.3800.00 Lakhs and Revised Administrative sanction for Rs.4700.00 Lakhs for the work "Construction of ROB in lieu of L.C.No.7 at Railway km.11/19-20 of Samalkota - Kakinada Section on the road from Kakinada-Rajahmundry road at Z.P. Junction to NH-214 at Bhanugudi Junction in Kakinada City limits in E.G.Dist"vide 1st & 2nd references respectively. The Land Acquisition for the work is in progress.

In the reference 4th cited, Sri Vanamadi Venkateswararao (Kondababu), M.L.A., Kakinada City Assembly Constituency, has requested for forming a road and provide connectivity to NH.216 (formerly NH.214) as per the Master Plan of Kakinada City from the landing point of Bhanugudi Junction Side approach of the ROB . In the references 5th & 6th cited, instructions were issued to furnish a detailed report on the above matter.

In this connection, it is submitted that, the Bhanugudi side approach of the ROB lands on Military road and connects at km.34/4 of NH.216 (formerly NH.214) at Bhanugudi Junction at a distance of 600m on Military road through thickly built-up area on either side of the road. If the connecting road is formed as per the Master Plan to connect the ROB landing point to join

NH.216 @ km.32/10, the utilization of the ROB will become most advantageous and prevent a lot of traffic problems in Kakinada City.

The road connectivity requires new formation of road for about 1.70 kms. length to join the NH.216 at km.33/0, which reduces the travelling distance by about 0.3 kms. and also reduces traffic congestion to the people travelling towards NH.216 and North & North-Eastern areas of Kakinada City.

Further, I submit that, an extent of Ac.10.51 land is required for formation of the road, in which an extent of Ac.8.62 belongs to Government ~~land~~ (Drain Poramboke, etc..) and the balance extent of Ac.1.89 belongs to private. The Municipal corporation, Kakinada in principle accepted to acquire the private land and to pay compensation to the structures fallen under the alignment for formation of the road.

It is proposed for formation of a double lane road with paved shoulders for a total width of 10.00m. The land in which the road is proposed was previously bund of a major drain called "Cheedila pora" and later Constructed as a storm water drain and remaining land is filled with garbage of the Kakinada Municipality. Hence, it requires to replace the filled up garbage and the slushy soils beneath the garbage upto a depth of about 2.00m with new embankment soil. It is also required to construct 1V of 6.00m Slab Culverts (in skew) in km.0/2 & 0/4 to cross the existing Storm water drain. Further, the existing storm water drain for a length of 200m and also the existing RCC Slab culvert on the Military road are also required to be shifted from the existing locations.

The estimate value is Rs.900.00 Lakhs for "Formation of connectivity road from the landing point of ROB in lieu of LC No.7 on Military road to NH.216 (at km.32/10) in Kakinada City limits in E.G.Dist."

Regarding the total project cost for the work "Construction of ROB in lieu of L.C.No.7 at Railway km.11/19-20 of Samalkota - Kakinada Section on the road from Kakinada-Rajahmundry road at Z.P. Junction to NH-214 at Bhanugudi Junction in Kakinada City limits in E.G.Dist.", I submit that, the Government has accorded revised administrative sanction for Rs.47.00 Crores in the reference 2nd cited, which includes the provision of Rs.23.00 Crores towards land acquisition. The amount required for land acquisition due to implementation of new land acquisition act is Rs.41.00 Crores and the same is approved as against the sanctioned provision of Rs.23.00 Crores in the reference 3rd cited and instructed to submit revised estimate duly incorporating the deviation in land acquisition amount to obtain 2nd revised administrative sanction from the government.

If the provision for formation of the connecting road is made in the project, the total project cost will be Rs.74.00 Crores as detailed below.

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Revised administrative sanction accorded in the reference 2 nd cited including the land acquisition provision for Rs.23.00 Crores.	Rs.47.00 Crores
Additional land acquisition amount required (41.00 – 23.00)	Rs.18.00 Crores
Formation of connectivity road from the landing point of ROB in lieu of LC No.7 on Military road to NH.216 (at km.32/10)	Rs. 9.00 Crores
Total amount required	Rs.74.00 Crores

The Site plan showing the road alignment and the cross sections of the proposed road are herewith enclosed along with the proforma estimate for favour of obtaining necessary approval from the competent authority. If the proposal for formation of connectivity road is approved, the revised estimate will be submitted duly incorporating the above provisions to obtain 2nd revised administrative sanction from the government.

Yours faithfully,

Encl: Site Plan, Cross Section and
Proforma Estimate in duplicate.

Sd/- C.S.N. Murthy
Superintending Engineer (R&B)
(R&B) Circle, Kakinada.

Copy to the Executive Engineer (R&B), Kakinada for
information.

11t.c.f.b.011

K. Chaitanya
Technical Officer

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GOVERNMENT OF ANDHRA PRADESH
ROADS AND BUILDINGS DEPARTMENT

From
Sri C.S.N. Murty, M.Tech.,
Superintending Engineer (R&B),
KAKINADA.

To
The Chief Engineer (R&B),
CRN, PPP and M.D., A.P.R.D.C.,
Mahaveer Marg, A.C. Guards,
HYDERABAD-500 004.

Letter No.2045/AEE4/Representations/2015, Date: 12-11-2015

Sir,

Sub:- (R&B) Circle, Kakinada – R&B Division, Kakinada- (i) Construction of High Level Bridge at Km 3/6 of Kakinada- Rajanagaram(ADB) road (ii) Construction of High Level Bridge at port railway station across salt creek connecting Kakinada –Rajanagaram (ADB) road including forming bypass road to connect NH 216 in the outskirts of city pertaining to (R&B) Department – Proforma Estimate for Rs.8450.00 lakhs- Approval requested- Regarding.

- Ref:-
- 1) Representation of Sri. Vanamadi Venkateswara Rao (Kondababu), M.L.A., Kakinada City, East Godavari District Dated. 18-04-2015.
 - 2) CMP No. 664 (518)/PSSC/2015, Dated. 25-04-2015 from the Hon'ble Chief Minister's Office communicated vide Government of Andhra Pradesh, T, R&B, Department Memo 3565/RIII (1) 2015, Dated. 14-05-2015.
 - 3) Chief Engineer (R&B), CRN,PPP & MD, APJRDC, Hyderabad memo No. 477/APRDC/GM/DCE1/DEE4/AEE11/EG/CMP/2015, Dated 23.05-2015.
 - 4) Executive Engineer(R&B), Kakinada Lr.No. ROB/L.C-13 & 1/ Bridge across salt creek & Connection to NH 216/ATO/20115-16, dt: 27-10-2015.
 - 5) Executive Engineer(R&B), Kakinada Lr No. 1506/ Kumbabhisekham /ATO/ ROB/ RUBs/2014, Dt: 05-11-2015

I submit that in the reference 1st cited, while communicating copies of the representations of Sri Vanamadi Venkateswara Rao (Kondababu) Hon'ble M.L.A., Kakinada City, East Godavari District, the Government has requested the Chief Engineer(R&B), CRN, PPP & Managing Director, APRDC, Hyderabad to furnish remarks on the subject matter and the same was communicated to this office vide reference 3rd cited of Chief Engineer(R&B), CRN, PPP & Managing Director, APRDC, Hyderabad. In compliance with the instructions issued therein, I submit herewith a detailed report on the works requested by Sri. Vanamadi Venkateswara Rao (Kondababu) Hon'ble M.L.A., Kakinada City, East Godavari District as follows:

- (i) Construction of High Level Bridge at Km 3/6 of Kakinada- Rajanagaram (ADB) Road in East Godavari District :

Sri Vanamadi Venkateswara Rao (Kondababu) Hon'ble M.L.A., Kakinada City has requested to construct a High Level Bridge at Km 3/6 of Kakinada-Rajanagaram (ADB) road near Kumbabhisekham temple across salt creek so as to cater to the needs of present day port area traffic.

In this connection, I submit that the road from Kakinada to Rajanagaram (ADB) road is an important State Highway running close to the coast of Bay of Bengal. Presently there is an old, weak and narrow bridge in Km 4/2 of the road, but not in Km. 3/6 as represented by Hon'ble M.L.A. The bridge is a brick masonry structure with RCC slab with 1 vent of 4.20m

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and 20 Rows of 1.00m dia pipes. The bridge being weak and narrow, is not in a position to serve the present Kakinada port traffic needs and moreover, the bridge has become highly accident prone due to its narrow width of carriage way. Hence the old bridge is proposed for reconstruction with RCC four lane bridge with 2 vents of 16.50 mts with well foundation along with necessary approaches, retaining walls on both sides of the bridge along with improvements to the T-junction in the Rajanagaram side approach. Reconstruction of the bridge is very much essential as collapse of the bridge may cause total interruption of the traffic between Kakinada Deep Water Port and Kakinada Anchorage Port and also the Port Godowns.

In view of the above, a proforma estimate is prepared under the name of work "Construction of High Level Bridge at Km 4/2 of Kakinada- Rajanagaram(ADB) road in East Godavari District " for Rs.490.00 lakhs and submitted herewith for consideration for necessary sanction to take up the work.

(ii) Construction of High Level Bridge at port railway station across salt creek connecting Kakinada -Rajanagaram (ADB) road including forming bypass road to connect NH 216 in the outskirts of city pertaining to (R&B) Department:

Sri. Vanamadi Venkateswara Rao (Kondababu) Hon'ble M.L.A., Kakinada City, has requested to construct a High Level Bridge at port railway station across salt creek and forming bypass road for about 3 to 4 kms through Yetimoga so as to connect the Kakinada- Rajanagaram (ADB) road to NH 216 in the outskirts of the city i.e., at Km 41/6 so that the traffic congestion in the city will be reduced thereby reduction in accidents.

In this connection, I submit that Kakinada - Rajanagaram (ADB) Road starts at Port Railway station, Kakinada and serves as an important road through which all goods vehicles/cargo of Kakinada Port are being transported. At present the entire traffic going towards Vijayawada and other parts of South India pass through this road and join NH 216 at Km 37/6 at the highly congested area of Jagannadhapuram Bridge area. With the passage of Kakinada port traffic also through the narrow streets of Jagannadhapuram, the traffic and the public are facing lot of inconvenience with the congestion of traffic and frequent traffic jams.

The above problem of traffic congestion can be averted by providing a direct connectivity to N.H 216 duly constructing a new bridge across Upputeru and forming the approach through Yetimoga village. There is a proposal to construct one R.O.B. in lieu of Level Crossing No. 13 & 1 nearby Port Railway station. If one arm of the approach of this R.O.B. is extended to meet NH 216 by construction of a bridge across Salt Creek as mentioned above, both the R.O.B. and the approach through Yetimoga village will serve to the Port traffic and the long suffered problem of traffic congestion in Kakinada City will be relieved once for all. The proposed road through Yetimoga will serve as a bypass road to connect NH 216 and there will be considerable reduction in the travel distance to the traffic moving towards Yanam and Vijayawada.

The proposal to construct a High level bridge at Port Railway Station across Salt Creek connecting Kakinada - Rajanagaram (ADB) road including forming bypass road through Yetimoga to connect NH 216 for a length of about 3.20 KM to join the NH 216 works out to an

amount of Rs. 8450.00 lakhs, and a proforma estimate is prepared and submitted herewith for consideration for necessary sanction. It may be more appropriate to take up this proposal also along with the work of R.O.B. in lieu of L.C. No. 13 & 1, which is sanctioned under the Railway works programme and under finalization of alignment jointly with Railways.

I submit herewith this detailed report along with the proforma estimates for the two works as mentioned above as per the request of the Hon'ble M.L.A. of Kakinada City Constituency and I request the Chief Engineer(R&B), CRN, PPP& MD, APRDC, Hyderabad for favour of considering the proposals and recommend for necessary sanction from the competent authority and communicate orders at an early date.

- Encl:** 1. Estimate for Rs.8450.00 lakhs (in 4 sets).
2. Estimate for Rs. 490.00 lakhs

Yours faithfully,

Sd/- C.S.N.Murty
Superintending Engineer(R&B)
(R&B) Circle, Kakinada

Copy to the Executive Engineer(R&B), Kakinada for information
Copy to Sri. Vanamadi Venkateswara Rao (Kondababu) Hon'ble M.L.A., Kakinada City for information.

//t.c.f.b.o//

K. Srinivas
K. Srinivas
Technical Officer

625
17/4/15

O/o Engineer - in - Chief (R&B), A, S, W, B & Admn. R
D&P wing, Govt of A.P., Erummanzil, Hyd-82

Memo No.3519/D&P, A.P/EE-I/DEE-I/AEE-II/2011 dt: 15-04-2015.

Sub: Construction of High level bridge on East Yeleru drain at Km.22/8 of Pyna - Kakinada road in East Godavari district - Revised T/s estimate for Rs. 325 lakhs - Approved - Reg.

Ref: Superintending Engineer (R&B), Kakinada Lr. No. 20161/AEE4/22/8/PK road/ Bridge /2011, dt. 28-2-2015

The Superintending Engineer(R&B), Kakinada is informed that the Re-cast estimate of the above work has been accorded Revised Technical Sanction for Rs. 325 lakhs by the Engineer - in - Chief (R&B), SR, RSW.B & Admn on 06-04-2015 as against the Administrative Sanction for Rs. 325.00 Lakhs accorded vide G.O.Rt. No. 57, T,R&B (R-IV) dept, dt. 9-1-2013 and assigned E-in-C (R&B), SR, RSW, B & A and assigned T.S Memo No. 4/2015-16, dt. 6-4-2015 duly superceding the earlier T/s for Rs. 325 lakhs accorded vide E-in-C (R&B), Roads TS Memo No. 77/2013-14, dt. 7-2-2014.

The Superintending Engineer (R&B), Kakinada is also informed that the Retaining wall section proposed by him is allowed only for estimate purpose and Tender purpose.

The Superintending Engineer (R&B), Kakinada is instructed to take prior approval for the section of Retaining wall before taking up the work for execution duly submitting SBC particulars and Soil details.

The Superintending Engineer (R&B), Kakinada is also informed that in the Revised T/s estimate for the above work, provisional rates are proposed for vacume dewatering for various items has been allowed.

The Superintending Engineer (R&B), Kakinada is requested to approve vacume dewatering rates for various items at his level.

The Superintending Engineer (R&B), Kakinada is requested to obtain copies of the Revised T/s estimate for Rs. 325 lakhs for the above work from T/O for taking further necessary action.

M. Hanumanth Kumar

for Engineer - in - Chief(R&B)

SR, RSW, B & Admn.

15/4

To
The Superintending Engineer (R&B),
Kakinada.

Copy to the Executive Engineer (R&B), Kakinada for information and taking necessary action.

Copy to the Dy. Chief Engineer(R&B), Roads, O/o Engineer-in-Chief (R&B), Hyderabad for information.

✓ Spare Copy

End: RTI's Booklet - 4 N of.

GOVERNMENT OF ANDHRA PRADESH
ROADS AND BUILDINGS DEPARTMENT

From
Sri C.S.N. Murty, M.Tech.,
Superintending Engineer (R&B),
KAKINADA.

To
Engineer-In-Chief(R&B) ,
Admn, SR, RSW & Buildings,
Erramanzil,
HYDERABAD-500 082.

Letter No.2045/AEE4/Representations/2015, Date: 20-11-2015

Sir,

Sub:- (R&B) - Division, Kakinada -"Construction of Approach road from Devalayam Street to NTR Bridge in Kakinada City in East Godavari District"- Proforma Estimate submitted for 1000.00 lakhs – Approval- Request - Regarding.

- Ref:- 1.Representation of Sri. Vanamadi Venkateswara Rao (Kondababu) M.L.A., Kakinada City constituency addressed to the Hon'ble Chief Minister , Government of Andhra Pradesh, Hyderabad, Dated. 18-04-2015.
2. CMP. No. 666(521)/PSSC/2015, dt. 25-04-2015 from Hon'ble Chief Minister's office communicated vide Government of Andhra Pradesh, T , R&B, Department Memo No. 3729/R.III (2)/2015-1, Dated. 19-05-2015.of Deputy Secy. to the Chief Minister, Andhra Pradesh
3 Engineer – in – Chief (R&B) Admn. SR & RSW, Hyderabad, Endt. No. EE (R)/KKD/DEE-3/AEE-WG/2015, Dated. 12-06-2015.
4. Executive Engineer(R&B), Kakinada Lr.No./ Warf road NTR bridge/ ATO/KKD/2015, Dt:13-11-2015.

* * * * *

I submit that Sri Vanmadi Venkateswara Rao, Hon'ble M.L.A , Kakinada Constituency vide reference 1st cited, has requested Hon'ble Chief Minister for sanction of construction of Approach road from NTR Bridge to Temple Street to avoid accidents and to issue necessary instructions to (R&B) officials to prepare a proposal and sanctioning necessary grants. The representation of the Hon'ble M.L.A was forwarded by Hon'ble Chief Minister's Office to the T R&B Dept, vide CMP No: 666(521)/PSSC/2015, dt. 25-04-2015 with instructions to examine and take necessary action.

The Govt T, R&B Dept vide reference 2nd cited, communicated a copy of the CMO's letter and also representation of Hon'ble MLA, Kakinada City Constituency and requested to take necessary action in the matter. The Engineer-In-Chief(R&B), Admn, SR,& RSW had inturn forwarded all the relevant papers vide reference 3rd cited and requested to submit a detailed report along with estimates.

In this connection, I submit that the High Level Bridge at Jagannaickpur is popularly known as "NTR Bridge", was constructed in the year 1997 across Upputeru in Kakinada city in East Godavari District. While constructing this bridge, the approach on southern side is connected in straight to KANF road, where as the approach road on Northern side could not be connected to the straight road in the existing Devalayam street. Due to this, on Northern side, immediately after crossing the bridge, a 'T' junction was formed by connecting the bridge with approaches to the main road on one side and Warf road on the other side. Further, this junction was at elevated level at about 2.50 meters from ground level.

As the above bridge is in Kakinada city, there is thickly populated residential area with well developed commercial complexes, hospitals and holy temples on either side of the Bridge. Due to day to day activities of citizens, the local traffic is very high. The local traffic from southern side of the city has to cross NTR Bridge to enter into the main city. Besides this, the entire enroute traffic from Southern side of the city (i.e. mainly from Yanam, Amalapuram,

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23/11/2015

Draksharamam, Ramachandrapuram & Ravulapalem) has to pass over NTR bridge to enter into main city. All the vehicles after crossing NTR Bridge, has to travel compulsorily through elevated 'T' junction approaches to enter in to the city. The traffic entering this 'T' junction is facing lot of inconvenience and several accidents are taking place in fatal manner due to sharp bends. Due to this, the 'T' junction has become highly accident prone. Further, due to bad geometrics at the T junction, the traffic is being jammed for several hours and public is suffering a lot. Further, the traffic going towards Devalayam Street and other places, is made to run for a longer distance to rejoin the Devalayam Street.

Recently, the Kakinada city is declared as smart city by the Ministry of Urban Development, Government of India. One of the core Infrastructure element is efficient urban mobility and public transport. In this connection, the above traffic hurdle in the smart city has been raised in the Smart City Task Force meeting and requested to take necessary action. Therefore, keeping in view of the core Infrastructure element in smart city aspect and also Road safety aspect, there is every necessity of taking up remedial measures at above junction. This problem can be averted if a direct approach is formed from the NTR bridge to Devalayam street. This consists of 1) Construction of 7.00m vented portion of bridge to pass light vehicle traffic on service road, 2) Construction of Reinforced Earth Walls & approach road of a length 69.00m to land the traffic in straight manner from NTR bridge, 3) Junction improvement in front of Sivalayam temple. The proposal would cost an amount of Rs.10.00 Crores wherein Rs 7.15 Crores is required for Acquisition of Land and Structure, Rs 25.00 Lakhs for Shifting of Utilities, Soil Investigations and Designs and Rs. 2.60 Crores Construction of Approach and improving the road junctions.

Hence, I herewith submit an estimate along with detailed drawings showing the proposal and request the Engineer-In-Chief(R&B), State Roads, Admn, &RSW, to kindly obtain necessary sanction from the competent authority and communicate orders in the matter.

Encl: Proforma Estimate in duplicate

Yours faithfully,

Sd/- C.S.N.Murty
Superintending Engineer(R&B)
(R&B) Circle, Kakinada

Copy to the Executive Engineer(R&B), Kakinada for information
Copy to Sri. Vanamadi Venkateswara Rao (Kondababu) Hon'ble M.L.A., Kakinada City for information.

//t.c.f.b.o//

TECHNICAL OFFICER

K2011/15

To
The Commissioner,
Municipal Corporation,
Kakinada.

Sir,

Sub:- Smart City - Kakinada Municipal Corporation - Willing for installation of solar panels on roof top of apartments in Area Based Development- regarding.

Ref:- Meeting held by the Commissioner, Municipal Corporation, Kakinada on 14.11.2015.

* _ * _ *

The Commissioner, Municipal Corporation, Kakinada has conducted a meeting to the associations of apartments situated in Zone-1 of the Smart City Project. We the apartment owners associations have proposed for installation of solar panel on roof top of all apartments in Area Based Development in Zone-1 of Smart City Project on People Public Private Partnership (PPPP) mode. We are willing to lease the roof top of our apartments for installation of solar panels to a private development on the condition of sharing revenues. All the 188 apartment associations of the Zone-1 accepted the proposal. Therefore it is requested to incorporate the proposal in the project.

We are hereby convey our willingness for installation of solar panels on the roof top of all apartments in Zone-1 of the Smart City Project of the Kakinada Municipal Corporation on People Public Private Partnership (PPPP) mode.

Yours faithfully

Sl.No	Name of the Apartment	Area	President/ Secretary and Mobile No.
1	Sundara Srinivasa Apt	8-11-12 Gandhi Nagar	B.V.R. Musthi 7075512354
2	Lalitha Patra Towers	8-20-5 Gandhi Nagar	V.K. Rama Rao 23850027
3	Ramji Residency	8-10-25 Gandhi Nagar	Ch. Venkatesh, 9440881433
4	PAVAN RESIDENCY	8-20-17 Gandhinagar	o. Balu 9848227362
5	Sri Sri Residency	8-20-10 Gandhinagar	A. Sri. Krishna 9849153148
6	Gopal Estates Apt	Gandhi Nagar	
7	P. K. P. T.	P. K. P. T.	

To
The Commissioner,
Municipal Corporation,
Kakinada.

Sir,

Sub:- Smart City - Kakinada Municipal Corporation - Willing for installation of solar panels on roof top of apartments in Area Based Development- regarding.

Ref:- Meeting held by the Commissioner, Municipal Corporation, Kakinada on 14.11.2015.

* - * - *

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We are hereby convey our willingness for installation of solar panels on the roof top of all apartments in Zone-1 of the Smart City Project of the Kakinada Municipal Corporation on People Public Private Partnership (PPPP) mode.

Yours faithfully

Sl.No	Name of the Apartment	Area	President/ Secretary and Mobile No.
1,	విక్టోరియా రోడ్డు	15-7A-10 venkata Rathamam	* C. srikar, 9963801264
2.	విక్టోరియా రోడ్డు	venkata Rathamam	N. Suryanarayan, 2366969
3.	QUEEN ROYAL TOWER'S	venkata Rathamam	M. M. M. I, 8099922666.
4,	CORPORATE height's	venkata Rathamam	S. S. R. , 9866160203.
5,	GREESHMA AVENUE	venkata Rathamam	M. C. S. , 996364098
6,	Ramani's	venkata Rathamam	P. sivaly , 808512207
7.	Minerva Apartment's	venkata Rathamam	M. C. S. , 9866160203

MUNICIPAL ADMINISTRATION DEPARTMENT

From:
Sri H.Arun Kumar I.A.S.,
District Collector & Special Officer
Municipal Corporation,
Kakinada.

To:
The Special Secretary,
Chief Minister's Peshi,
Government of Andhra Pradesh,
Hyderabad.

Roc No. 2549/2015/Smart City/E6, Dated.4-12-2015

Sir,

Sub: Kakinada Municipal Corporation - Smart City - Potential Smart City - Area Based Development - Sanction of 100 Bed Hospital - Requested - Regarding.

Ref: 1. T/o letter Roc No 2549/2015/E6 Dated 03-11-2015 addressed to the Special Secretary, Chief Minister's Peshi, Government of A.P, Hyderabad.

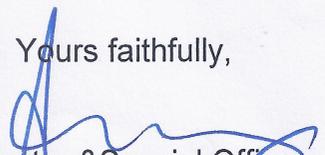
With reference to the above, it is to submit that Kakinada city was shortlisted as one of the potential Smart Cities by the Government of India in the first round of Smart City Mission.

The existing Ac.8.00 of area belonging to ESI hospital at Sambamurthy nagar in Kakinada Municipal Corporation comes under Area Based Development (ABD) which was selected based on opinion poll in Government of India website in mygov.in platform based on Sustainability, Visibility and Implementability

It is to submit that in the reference cited it has been requested to address the Ministry of Labour, Government of India for sanctioning a 100 Bed ESI Hospital to Kakinada since the total number of insured persons under Kakinada Zone are around 45,124. It is to submit that as per the information obtained from the ESI authorities, it was learnt that at least 50000 beneficiaries must be registered with the ESI to establish a 100 Bed Hospital under ESI Corporation. It is also learnt that the proposal is pending with the ESI due to the above reason.

Therefore in order to provide Medical facilities to poor workers belonging to various sectors, it is requested to address the Ministry of Labour, Government of India to exempt Kakinada from the above condition to improve the Health Services in Kakinada

Yours faithfully,


Collector & Special Officer,
Municipal Corporation, Kakinada.

31/12/15

Copy to Senior State Medical Commissioner, ESI Corporation, Govt of A.P, Hyderabad.

H. Arun Kumar, I.A.S.,

Collector and
District Magistrate
East Godavari District, Kakinada



గోదావరి
మహా పుష్కరం - 2015

2

Office : (0884) 2361200

Res. : 2361300, 2363549

Fax : 2353480, 2361300

E-mail : collector_egd@ap.gov.in

collectorkda@gmail.com

To,
The Special Secretary
Chief Minister's Office,
Government of Andhra Pradesh,
HYDERABAD.

Roc No.2549/2015/E6 . Dated 3-10-2015

Sir,

Sub: Kakinada Municipal Corporation-Smart City Proposal- To include Kakinada City in Railway Station Based Smart City Proposal-Request Regarding

Ref: Arising.

* - * - *

It is to submit that the Government of India is proposing to modernise the Railway Stations existing in the cities. Kakinada City was selected as potential Smart City under Smart City Mission and competing for the 2nd round. Further the Kakinada city has two Railway Stations namely 1.Kakinada Town Railway Station meant for Passenger services and 2. Kakinada Port Railway Station meant for export and import business.

Kakinada is a Port based city having both Deep Water and Anchorage Port. Oil reserves were found in KG basin. Major oil exploring Industries have come up in and around Kakinada City such as Reliance, GSPC, ONGC etc increasing commercial activities.

As a part of Smart City proposals, Area Based Development is proposed duly including Kakinada Town Railway station, Port Railway station and Bus stand. Two Railway stations are centrally located and to be integrated with Bus Station and other para transit modes.

In this connection following few points are submitted for consideration.

1. Improvement of Railway Stations.

- Town railway station has extensive vacant land which can be used for establishment of mixed use buildings such as commercial complexes, Budget Hotels and accommodation at affordable cost as per Smart City Guidelines under PPP.
- The Kakinada railway land may be leveraged for generating resources. This project is much more significant to Kakinada city and should be looked at as an Urban renewal Project

instead of railway station alone, which will generate many more jobs at all income levels to make the Smart City around the railway station as an engine of growth.

- The Smart City to be transport Hub of the City, incorporating multimodal interchanges among train, bus auto-rickshaws, para-transit, taxis and other vehicles, with increased public safety and security, especially women's safety.
- This will improve the ease of doing business in Kakinada by economic agglomeration including advantage of cluster and functional networks and aesthetically improve the looks of the City.

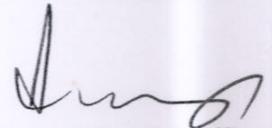
2. Improving the Connectivity.

- If this city connected to Chennai-Howrah Main line by laying new railway line from Kakinada to Pithapuram, it will develop industrial corridors and it is also useful for Kakinada Special Economic Zone which is already established.
- Government of India has recently selected the Anthervedi Village of East Godavari District which is near to the Narasapuram Town to set up the unit by Dredging Corporation of India. Extension of existing Tracks from Kotipalli to Narasapuram will improve the economic activity in this region.
- The present financial flow from passengers (around Rs.4.00 to 6.00 Crores) and through goods (around Rs.94.00 to 96.00 Crores) is Rs.100.00 Crores. If the above interventions are taken up, the Kakinada Town & Port Railways Stations will get additional revenue besides improving public mobility through trains.

Therefore it is requested to address:

1. letter from the Honorable Chief Minister, Government of Andhra Pradesh on the above issues to the Ministry of Railways.
2. To include in the issues to be pursued at the Government of India Level.

Yours faithfully,



Collector & Special Officer,
Municipal Corporation,
Kakinada.

3/11/15
super



Bhagyanagar Gas Ltd.

BHAGYANAGAR GAS LTD.

A JOINT VENTURE OF GAIL (India) Ltd. & HPCL

Ref.No: BGL/KKD CGD/KMC/15-16/12

Date: 27/11/2015

To,
The Commissioner
Kakinada Municipal Corporation
Kakinada.

Dear Sir,

Sub: Kakinada Municipal Corporation-Smart City Program – Proposals for PNG Connectivity in Zone-I under Area Development-Regarding.

Ref: 1. Lr.No.Roc.No.5946/2015/E6/3/Dated:04.11.2015.

With reference to your letter cited above, it is hereby to submit that Bhagyanagar Gas Ltd (A JV of GAIL (I) Ltd & HPCL) is engaged in providing household Piped Natural Gas Connections and CNG. We received PNGRB (Petroleum and Natural Gas Regulatory Board) authorization for Kakinada city during the year 2009.

We have proposed tentatively to the tune of Rs.14 Crores in the Zone-I as per attached drawing (Annexure-I) of Area Based Development under Smart City Program. The Expansion of project will depend on the no. of Customers coming forward for taking PNG connection.

Necessary potential expenditure details of the project are herewith enclosed as Annexure-II.

Further to this we are also going ahead with CNG supply to automobile sector in a large scale. CNG is eco-friendly and protects the environment from pollution.

Yours Faithfully

Encl: a/a

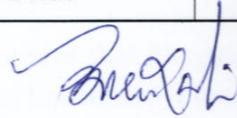
V. Ramesh
Vice President
Bhagyanagar Gas Ltd.
Hyderabad

Copy : M.D - BGL.

Registered Office : Parisrama Bhavan, APIDC Building, Basheer Bagh, Hyderabad - 500 004.
Telephone: 040-66566986, Fax: 040 - 66565081,
Visit us : www.bglgas.com

BGL is Committed to Cleaner Environment & Health

PROPOSALS FOR PNG IN ZONE-I OF KAKINADA SMART CITY				
S.NO	YEAR	PROPOSED NO.OF.CONNECTIONS	PROPOSED EXPENDITURE (in Cr)	REMARKS
1	Year-I	1400	₹ 2.00	
2	Year-II	2100	₹ 3.00	
3	Year-III	2100	₹3.00	
4	Year-IV	2100	₹3.00	
5	Year-V	2100	₹ 3.00	
Total		9800	₹ 14.00	



G.A. VENKATESH
Sr. Manager (Projects)
BHAGYANAGAR GAS LTD.
HYDERABAD - 500 004.

Ref D/114/2015, Dt. 10.12.2015.

Revenue Divisional Office, Kakinada.

From

Sri. B. R. Ambedkar, M.A, L.L.B.
Special Officer, Mc.Laurin High School, Kakinada
& Revenue Divisional Officer, Kakinada.

To

The Municipal Commissioner,
Municipal Corporation, Kakinada.

Sir,

Sub: Mc.Laurin High School - Kakinada Town - permission for use of Mc.Laurin High School premises for parking purpose by the Municipal Corporation, Kakinada on lease basis - Regarding.

Ref: Lr. Dt. 12.2015 of the Municipal Commissioner, Municipal Corporation, Kakinada.

@@@

I invite your attention to the reference cited.

In the reference cited, the Municipal Commissioner, Municipal Corporation, Kakinada has requested to allot the land belongs to Mc.Laurin High School, Kakinada to use the premises for parking purpose by the Municipal Corporation, Kakinada on lease basis.

In this connection, I submit that we are willing to allot the Mc.Laurin High School, Kakinada land to the Municipal Corporation, Kakinada on lease basis with the following conditions for the use of intended purpose.

1. No permanent constructions should be constructed in the said land
2. The lease amount will be reviewed for every three years
3. Allotment of the site will be cancelled and the applicant should vacate the said land within one year from the date of receipt of the notice as and when necessary and the same condition also applicable to the Lessee.

In this connection, It is further submitted the filed was circulated to the District Collector, East Godavari District, Kakinada for permission. After receiving the permission from the District Collector, EG, Kakinada necessary action was taken to hand over the land to the Municipal Commissioner, Kakinada.

Yours faithfully,

Revenue Divisional Officer

Kakinada

10/12/15
10/12/15
Ao

From:
The Project Director
Housing Department
East Godavari District,
Kakinada.

To:
The Commissioner,
Municipal Corporation,
Kakinada.

Rc.No 12/HFA/AM-Eng/HFA Dt 08-12-2015.

Sir,

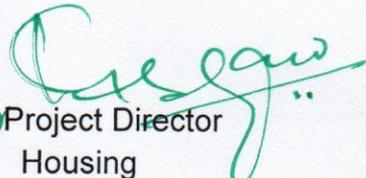
Sub: Housing for all – Smart City Mission (SCP)- Providing Housing for all under proposed Area Based Development program - Regarding

Ref: 1. Lr Roc No 2549/2015/Smart City /E6 dated 08-12-2015 of the Commissioner, Municipal Corporation, Kakinada.

With reference to the letter cited, it is to inform that under the Smart City Program it is proposed to include the scheme "Housing for All" in the Area Based Development (ABD) as shown hereunder.

1. Kutcha Houses	-	1560
2. Semi Pucca Houses	-	3200
Total	-	4760

Yours faithfully,


Project Director
Housing

From
Dr.M.Srinivasa Rao, M.V.Sc.,
Project Dictor,
IKP, U.MEPMA
E.G.District, Kakinada

To
The Commissioner
Municipal Corporation, Kakinada

Roc.No.B/202/2015/, dated 14.12.2015

Sir,

Sub:- Smart City – Kakinada Municipal Corporation – Incorporation of proposals under NULM – Accepting proposals in principle – Regarding.

Ref:- Roc No.1192/2013/H1, dated 12.12.2015 of the Municipal Commissioner, Municipal Corporation, Kakinada

* * *

In response to the above cited reference of the Municipal Commissioner, Kakinada, I am hereby accepting in principle the proposals made by Municipal Commissioner, Kakinada Municipal Corporation as follows.

1. To establish 4 additional women training centers under APITCO
2. To establish modern food stalls for 386 already identified vendors @1.00 lack for unit under NULM."20% smart city funds, 80% from bank linkage".
3. To establish 196 hygienically visible food stalls to eateries in vending zones of ABD @ 1.00 lack per unit under NULM. ."20% smart city funds, 80% from bank linkage".

Yours faithfully,



(Dr.M.SRINIVASA RAO)
Project Director
IKP-U.MEPMA
Kakinada

14th December 2015

To
Sri. S.Aleem Basha
Commissioner
Municipal Corporation of Kakinada
Andhra Pradesh

Sub.: Smart city proposal of Kakinada

Dear Sir,

We understand that your office is overseeing the submission of the proposal for Kakinada as a smart city to Government of India. While reiterating our commitment to support any initiatives that would be undertaken in Kakinada for development as a smart city, we would like to draw your attention to the following:

1. GMR is developing a 10,500 Acre SEZ and industrial area near Kakinada, which would house global industries across diverse sectors such as Petrochemicals, Electronics Hardware, Food Processing, Toys & Sports Goods, Chemicals and Engineering products.
2. GMR is also developing an all-weather multi-cargo green field port within the above project, which is further likely to bring in industrial development to Kakinada region.
3. To enhance the potential of the local youth to be employed by the industries which set up operations in Kakinada SEZ, GMR has already rolled out training programmes through its CSR arm – GMR Varalakshmi Foundation. Job oriented training has already been provided for around 700 persons over the past 2 years. GMR would continue this training intervention over the coming years.
4. In addition, GMR is supporting Government of Andhra Pradesh to ink a Smart-Port city collaboration between Yokohama city of Japan and Kakinada. A greater Kakinada area, covering around 250 Sq.Km, including Kakinada Municipal Corporation has been identified and GMR has coordinated visits by officials from Yokohama to Kakinada.





5. The initiatives that have been identified in your current proposal fall within the overall purview of the plan that would be developed in Yokohama collaboration and GMR would coordinate for suitable expertise from Yokohama to guide the implementation of these initiatives as necessary

6. GMR is also ear-marking around 500 acres exclusively for Japanese industries within its SEZ and would actively work to bring in industries with interests in Smart City technologies to be brought into this area. GMR would also offer its entire 10,500 acres for demonstration of any smart-technologies by these Japanese companies as necessary

We wish your proposal all the best in the Smart City competition and once again reiterate our commitment as the leading Infrastructure player in India to support the initiatives of Government of Andhra Pradesh in Kakinada.

With best regards

A handwritten signature in black ink, appearing to be 'S. P.' with a stylized flourish.

For Kakinada SEZ Private Ltd.
Authorized Signatory

In addition to improvement of cell signals from existing towers in many locations, We are very much in need of the sites for the installation of CELL BTS to provide service to the local residents/floating public of Kakinada Smart city.

Proposals are under consideration to provide WI-Fi Hot spots at important locations such as Parks, Business Malls, Cafes, Railway stations etc.

BSNL has decided to upgrade the Land line broad Band speed to minimum 2mb speed to the customers and thus the up gradation shall enhance the customer satisfaction and enjoy of live Video viewing while using the BSNL NET.

Besides the above mentioned services BSNL also going to launch the **4G** services shortly in mobile segment. All these services are expected to attract the new customers in future in an affordable manner.

Necessary fund may kindly be sanctioned to BSNL to provide the proposed services to the customers to actively participate in Smart City.

Thanking you sir,

Yours faithfully,

WS Rowanah

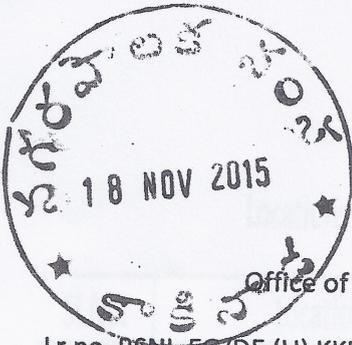
Divisional Engineer (Urban)
BSNL, Kakinada
B.S.N.L. KAKINADA

18/11/15

Copy to:

Dy.General Manager (CFA)
BSNL, Kakinada

... for kind information pl.



BHARAT SANCHAR NIGAM LIMITED
(A Government of India Enterprise)

Office of the Divisional Engineer (Urban) BSNL, Kakinada

Lr.no. BSNL-EG/DE (U) KKD/2015-2016/

Dtd. KKD the 18.11.2015

To

The Commissioner,
Kakinada Municipal Corporation
Kakinada

Sir,

Sub: Expansion of BSNL services for Smart City –Reg

It is submitted that in Kakinada Urban area, the areas namely, Mohammed Ali Road, Main Road, Temple street Road, and Cinema Road, APSRTC Depot, Railway stations (Town and Port stations), Port Area, Warf Road, and State/Central Govt . Offices including Collectorate, General Hospital, Court complexes, JNTU K, Ranga Raya Medical Collage, and other Offices/ colleges are expected to cover smart City limits of Kakinada.

All the above mentioned areas of Kakinada urban are provided with Telephone density with Land line and Broad Band connectivity with seven Exchanges as follows:

- 1) Main Telephone Exchange
- 2) Madhuranagar Telephone Exchange
- 3) Venkatanagar Telephone Exchange
- 4) Indrapalem Telephone Exchange
- 5) Ramanaiahpet Telephone Exchange

The present capacities of the Exchanges may not be able to support the requirements of public in Smart City for which laying of new cables may have to be necessary.

During expansion of the roads and drainage systems, a separate duct is to be made available for the communication Department to place the Underground cable / Optical fiber cables etc in small lanes also in addition to main route to avoid spoiling of existing roads , so as to extend the services to the people of Kakinada by way of Land line connection Broad Band connections , FTTH connections / leased circuits.

With regard to Mobile communications around "twenty" more additional Mobile towers are required at the following places.

MUNICIPAL ADMINISTRATION DEPARTMENT

From:
Sri H. Arun Kumar I.A.S,
Collector & District Magistrate,
East Godavari District,
Kakinada.
Email id: kakinadacorporation@gmail.com
collectorkda@gmail.com

To:
The Principal Secretary,
Animal Husbandry & Fisheries,
Government of A.P,
Hyderabad.
Email id: prlsecy_ahf@ap.gov.in

Roc.No.2549/2015/Smart City/E6/8, Dt.01-12-2015.

Sir,

Sub: Kakinada Municipal Corporation – Smart City Mission (SCP) - Request to accord in principal approval of works for taking up under Area Based Development in Smart City Area — Regarding.

Ref: 1. G.O.Ms.No.512 dated 29-07-15 of MA & UD Department.
2. Inter Departmental Task Force Committee meetings held on 21-09-2015, 14-10-2015 and 12-11-2015.

It is to submit that Kakinada city was shortlisted as one of the potential Smart Cities by the Government of India in the first round of Smart City Mission.

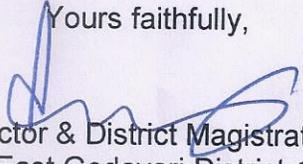
In this connection, it is to submit that the Government of Andhra Pradesh in the reference 1st cited have issued orders duly constituting Inter Departmental Task Force Committee for Kakinada City under Smart City Mission. As per the decisions taken in the Inter Departmental Task Force committee meetings held on 21-09-2015, 14-10-2015 and 12-11-2015 and one of the recommendations received during public consultations is to rejuvenate the defunct boat building yard and provide basic amenities for fishing activities since more people depends on fishing activity. Accordingly a preliminary Report with an estimated cost of Rs.34.17 Crores is prepared in which the following tasks were included to be taken up in the proposed Area Based Development (ABD) of Smart City Proposals (SCP).

1. Development of boat building yard at Yetimoga	-----	Rs.26.57 Crores
2. Construction of Cold Storage at Yetimoga	-----	Rs.5.00 Crores
3. Hygienic markets for fish processing and packaging facilities	-----	Rs.2.60 Crores
Total	-----	Rs.34.17 Crores

It is proposed to take up the 1st and 2nd proposals under PPP mode with the assistance of National Fisheries Development Board (40%), 3rd proposal with the assistance of National Fisheries Development Board (40%) and balance funds by Municipal Corporation.

Therefore it is requested to give in principle approval so that the same can be incorporated in the Smart City Proposals (SCP) by 04-12-2015.

Yours faithfully,


Collector & District Magistrate,
East Godavari District, 01-12-2015
Kakinada.

Copy submitted to the Principal Secretary, Municipal Administration and Urban Development Department, Government of A.P, Hyderabad for favour of information.

Copy to the Managing Director, APUFIDC, Government of Andhra Pradesh, Hyderabad for favour of information.

Copy to the Chairman, Fisheries Department, Hyderabad for taking further necessary action.

ఆంధ్రప్రదేశ్ నూతన మరియు పునరుద్ధరణీయ ఐంధన వనరుల అభివృద్ధి సంస్థ లి.
New & Renewable Energy Development Corporation of Andhra Pradesh Ltd.

(A State Government Company)

(Formerly Non-Conventional Energy Development Corporation of Andhra Pradesh Ltd)

Regd. Office : 5-8-207/2, Pishgah Complex, Nampally, Hyderabad - 500 001. India.

Tel : Off : 040-23202391, 23202262, 23203376 Fax : 040-23201666

E-mail: info@nedcap.gov.in, nedcap@ap.nic.in Website: www.nedcap.gov.in



Ref:- NREDCAP/KKD/SC/KMC/2015-16/

Date: 08.12.2015.

From:
The District Manager
NEDCAP,
East Godavari District,
Kakinada.

To:
The Commissioner,
Municipal Corporation,
Kakinada.

Sir,

Sub: NEDCAP – Smart City Mission (SCP) - Installation of Bio Mechanized Plant for Solid Waste Management – In principal consent issued- Regarding

Ref: 1. Lr Roc No 2549/2015/Smart City /E6 dated 08-12-2015 of the Commissioner, Municipal Corporation, Kakinada.

With reference to the letter cited, it is to inform that the proposals for establishing 3 Bio Mechanization Plants in Kakinada Municipal Corporation under Smart City Proposals has been examined and in principle consent is hereby accorded to provide 30 % funds of the project cost as subsidy from MNRE funds as per the guidelines and subsidy pattern of MNRE at the time of implementation.

Yours faithfully,

District Manager
NREDCAP, Kakinada.

COUNCIL PREAMBLE

Subject: Smart City - Kakinada Municipal Corporation – Proposals formulated through citizen consultations - Approval of Smart City Proposals (SCP) prepared by the Consultants M/s IIDC Limited, New Delhi - Regarding.

It is to bring to the notice of the Municipal Council that Kakinada City was shortlisted as one of the potential Smart Cities in the first round along with 98 other cities under Smart City Mission by the Government of India. As per the guidelines issued by the GoI, M/s IIDC Ltd, New Delhi has been selected as consultants to prepare Smart City Proposals (SCP) which was approved in C.R.No.62 Dt.30-09-2015.

Accordingly as per the Smart City Guidelines issued by the GoI, the above consultants prepared Smart City Proposals (SCP) based on Citizen consultations, opinion polls in mygov.in website. The citizen have opted through online polling in mygov.in for retrofitting in Zone-I and redevelopment of VI for ABD. There is no willing of the people for Redevelopment in Zone-VI. Accordingly the proposals for Smart area has been worked out as follows for Retrofitting of Zone-I area.

S.no	Feature	Project/Initiative	Cost of each component (Rs.In Lakhs)	Total Cost of each sector (Rs.In Lakhs)
A. AREA BASED DEVELOPMENT				
1	Identity & Culture	Godavari Kalakshetram	3046.45	3046.45
2	Economy & Employment	Mall & Multiplex	4000.00	10766.50
		Development of Boat Building Yard	2656.50	
		Construction of cold storage at Yetimoga	500.00	
		Hygienic markets for fish processing and packing units	260.00	
		Skill Development Centre at Ramaraopeta	150.00	
		Skill Development Centre for women	100.00	
		Convention Centre and Budget Hotel	1700.00	
		Upgradation of food, vegetables and meat markets (3 markets)	740.00	
		Infrastructure for vending zones	100.00	
3	Health	Upgradation of Eataries for hygiene food	560.00	5050.00
		E Health component	50.00	
4	Education	ESI Hospital (100 beds)	5000.00	1122.70
		Science centre	38.32	
		Upgradation of School Infrastructure	501.70	

		E-Pathashala in 23 schools with 160 Classrooms	582.68	
5	Open Spaces	Improvement of Greenary in Gandhinagar Park	350.00	1780.50
		Improvement of Greenary in Raja Tank Park	600.00	
		Fountain Raja Tank	30.00	
		Road Side Plantation and greenary	720.00	
		Geo-Tagging	32.50	
		Watering Facilities	48.00	
6	Housing	Construction of 1560 Pucca Households which are Kutcha (weaker section)	7488.00	22848.00
		Construction of 3200 Pucca Households which are Semi-Pucca	15360.00	
7	Transport, Mobility & Walkability	Smart Pedestrian Facilities (Footpath Construction with RCC Box ducts)	8904.00	37051.50
		Smart NMT Facilities (Cycle Tracks on roads)	1000.00	
		Public Bicycling Sharing System	442.50	
		Junction Improvements with Smart Signalisation	250.00	
		E-rickshaws	100.00	
		Junction Improvements (Minor Junctions)	480.00	
		Elevated Skyway (RTC Complex to Railway Station)	400.00	
		Smart Bus Shelters with Smart E-Toilets	400.00	
		Smart Bus Terminus (RTC Complex)	5000.00	
		CCTV Cameras	10.00	
		PTZ Cameras	35.00	
		Smart Off-Street Parking Development @ MC Laurance School	300.00	
		Multi-Level Parking @ Santa Cheruvu	500.00	
		Signage and bulletin boards	180.00	
		Road Markings with solar studs	675.00	
		Pratapnagar Bridge including road widening	600.00	
		Ramya Hospital Road including road widening	600.00	
		Construction of ROB at Kondayyapalem level crossing (Railway km 11 /19-20)	7400.00	
		Construction of bridge on East Yeleru drain at Indrapalem lock	325.00	
		Construction of Approach Road to NTR Bridge for temple street	1000.00	
Construction of ROB at Port area level crossing and salt creek	8450.00			
8	IT Connectivity	100% IT Connectivity in the area	440.00	440.00
9	Energy Source	Installation of roof top solar projects on Govt. buildings	4000.00	15280.00
		Installation of roof top solar projects on Apartments	11280.00	
10	Wastewater Management	Construction of 140km sewerage network and 13 MLD STP	26481.46	26481.46
11	Water Supply & Quality	Online Water Quality Monitoring	500.00	3011.60
		Installation of Automatic Smart Water Meters	1611.60	
		implementation of SCADA	500.00	

		Reuse of filter backwash water from WTP	400.00	
12	Energy Efficiency	Solar LED Street Lights	3028.04	3802.07
		LED lights to all HHs	774.03	
13	Under Ground Wiring	UG Wiring + SS construction + SCADA + Telecom cabling + IT enabled Customer Support	9680.47	9680.47
14	Sanitation	Development of 508 Individual Toilets	76.20	76.20
15	Waste Management	Deployment of 64 e-Tricycles	76.80	4311.05
		Deployment of 217 HDPE Bins(1100 litres)	54.25	
		Deployment of 6 Compactors	150.00	
		Deployment of 6 Sweeping Machines	420.00	
		Other Equipment & PPE	10.00	
		provision for bio-metanization plants	3600.00	
16	Safety	Installation of 1220 CCTV Cameras and Control Room	558.45	558.45
17	Stormwater Drainage	Construction of 254km (both sides of roads) SW Drains including outfalls and culverts	30703.83	30703.83
18	Development of Commercial canal	Development along Commercial canal from Indrapalem Lock to Jaganaickpur old Bridge	9200	9200.00
19	Piped Gas Network	Development of piped gas network	1400	1400
				186610.77

The Area Based Development proposals works out to Rs.186610.77 Crores.

Similarly the citizens have identified Solid waste management and IT as proposals for Pan City initiatives. The Pan City proposals worked out to Rs.12692.37 Crores and are as follows.

S.no	Feature	Project/Initiative	Cost of each component (Rs.In Lakhs)	Total Cost of each sector (Rs.In Lakhs)
A. PAN CITY DEVELOPMENT				
1		Internet of things	12600.00	12692.37
2		MSW	92.37	

Smart City proposals are prepared duly including the Government Schemes such as AMRUT, Swatch Bharat, IPDS, BEE/MNRE, NFDB and other Convergent schemes.

The total Proposals work out to Rs.1993.03 Crores.

The above Smart City Proposals (SCP) are herewith submitted for approval of the council and to submit the proposals to the Government of A.P for placing before the High power Steering Committee for approval and onward submission to Government of India.

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Commissioner,
Municipal Corporation,
Kakinada.

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Collector
08-12-2015
H.ARUN KUMAR, I.A.S.
District Collector and
Special Officer
Municipal Corporation, KAKINADA

Council Resolution No: 101. Dt: 08-12-2015

Approved to submit the Smart city Proposals (SCP) to The Government of A.P. for placing before The High Power Steering Committee for approval and onward submission to Govt. of India.

Sd/- H.ARUN KUMAR, I.A.S.
District Collector and
Special Officer
Municipal Corporation, KAKINADA

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08/12/15
MANAGER
Municipal Corporation
KAKINADA

COUNCIL PREAMBLE

Subject: Kakinada Municipal Corporation - Smart City Mission - Constitution of Special Purpose Vehicle (SPV) - Nomination of Government Departments - Regarding.

Kakinada City was shortlisted as one of the potential Smart Cities in the first round along with 98 other cities under Smart City Mission by the Government of India and competing for the second round.

As per the clause 10 of the Smart City guidelines issued by the GoI, Special Purpose Vehicle (SPV) has to be created at the city level. The SPV will plan, appraise, approve, release funds, implement, manage, operate, monitor and evaluate the Smart City development projects. The Smart city will have a SPV which will be headed by a full time CEO and have nominees of Central Government, State Government and ULB on its Board. The ULB shall ensure that, (a) A dedicated and substantial revenue stream is made available to the SPV so as to make it self sustainable and could evolve its own credit worthiness for raising additional resources from the market and (b) Government contribution for Smart City is used only to create infrastructure that has public benefit outcomes. The execution of projects may be done through joint ventures, subsidiaries, public-private partnership (PPP), turnkey contracts etc., suitably dovetailed with revenue streams.

Therefore the above matter is placed before the Municipal Council for according approval for constitution of Special Purpose Vehicle for Kakinada City to implement Smart City Proposals (SCP) as per the guidelines issued by the Government of India.

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Commissioner,
Municipal Corporation,
Kakinada

Council Resolution No: 100 . Dt: 08-12-2015

Approved for Constitution of Special Purpose Vehicle for Kakinada City to implement Smart City Proposals (SCP) as per the guidelines issued by the Government of India.

Sd/- H.ARUN KUMAR, I.A.S.
District Collector and
Special Officer
Municipal Corporation, KAKINADA

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MANAGER
Municipal Corporation
08/12/15

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Municipal Corporation

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08-12-2015
H.ARUN KUMAR, I.A.S.
District Collector and
Special Officer
Municipal Corporation, KAKINADA

COUNCIL PREAMBLE

Subject: Smart City - Kakinada Municipal Corporation - Preparation of Smart City Proposals (SCP) - Regarding.

Kakinada City was shortlisted as one of the potential Smart Cities by the Government of India in the first round under Smart City Mission and competing for the second round.

The tentative cost and mode of finance of the components proposed under Smart City program are herewith submitted for perusal of the council.

Sl.No	Name of the Project/Initiative	Tentative Cost (Rs. in Crores)	Method of Finance (Rs. in Crores)
1.	Construction of Multiplex cum Commercial complex at the site available at West side of Victoria Head Water Works to enhance the financial resources of the corporation.	40.00	PPP - 40.00
2.	Construction of Skill Development centre at Ramaraopeta	1.50	Smart City Funds - 1.50
3.	Construction of Convention centre along with Budget Hotel at old travelers bungalow to improve the revenue of the corporation.	17.00	PPP - 17.00
4.	Up gradation of food, vegetables and meat markets.	7.40	Smart City Funds - 7.40
5.	Construction of Godavari Kalakshetram at exhibition ground in Raja tank.	30.46	GoI other Schemes - 15.00 GoAP other Schemes - 15.46
6.	Construction of Multilevel two Wheeler and four wheeler parking complex at defunct School Buildings at Santa Cheruvu.	5.00	PPP - 2.50 Smart City Funds - 2.50
7.	Construction of parking complex at open site available at Mc.Laurin High School duly taking land lease from R.D.O, Kakinada	3.00	Smart City Funds - 3.00

The above components are placed before the council for according approval and to include the same under Smart City Proposals (SCP).

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Commissioner,
Municipal Corporation,
Kakinada

Council Resolution No: 99. Dt. 08-12-2015

Approved to include the proposed components mentioned in the preamble under Smart City Proposals (SCP)

Sd/- H.ARUN KUMAR, I.A.S.
District Collector and
Special Officer
Municipal Corporation, KAKINADA

TRUE COPY

MANAGER

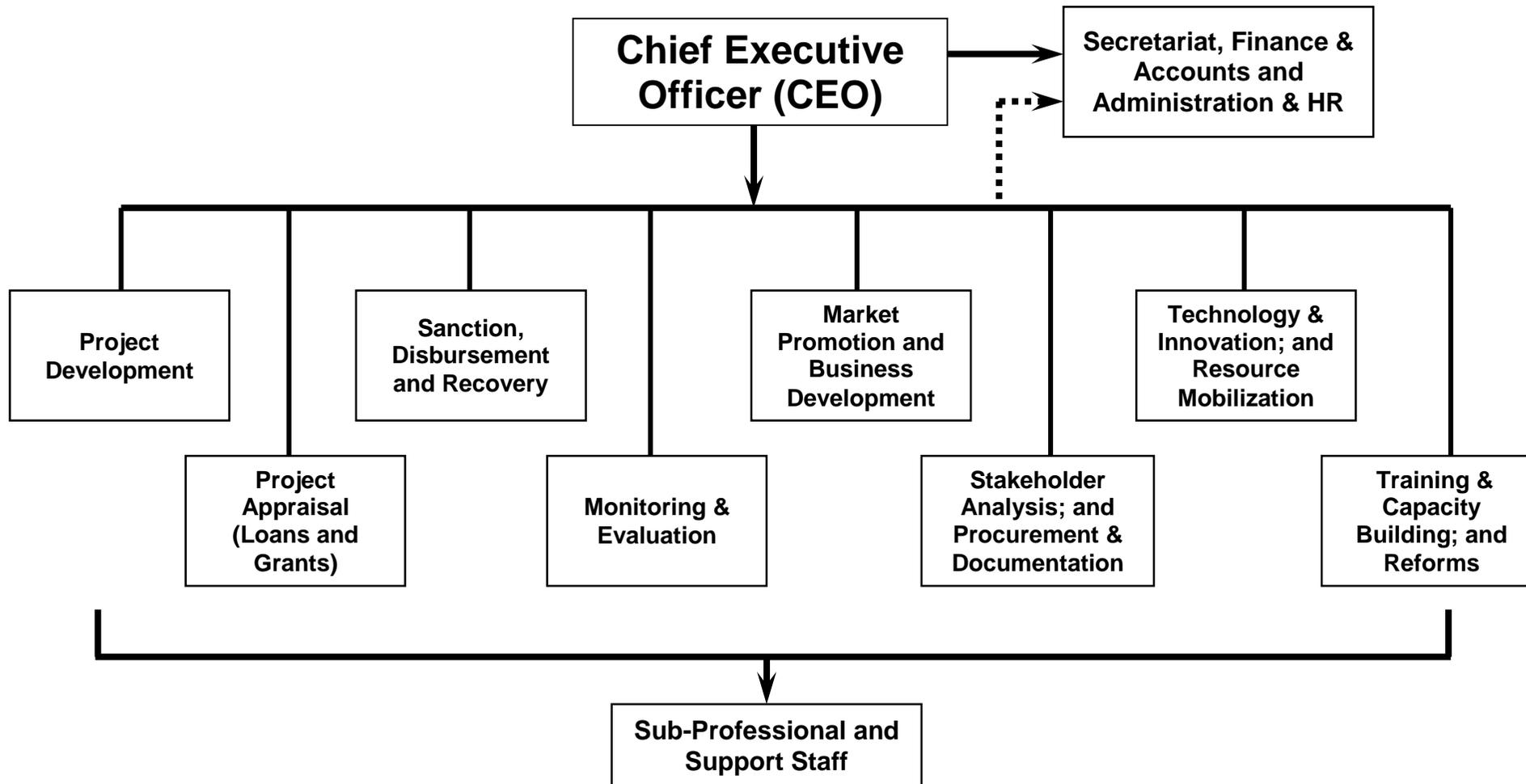
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Municipal Corporation

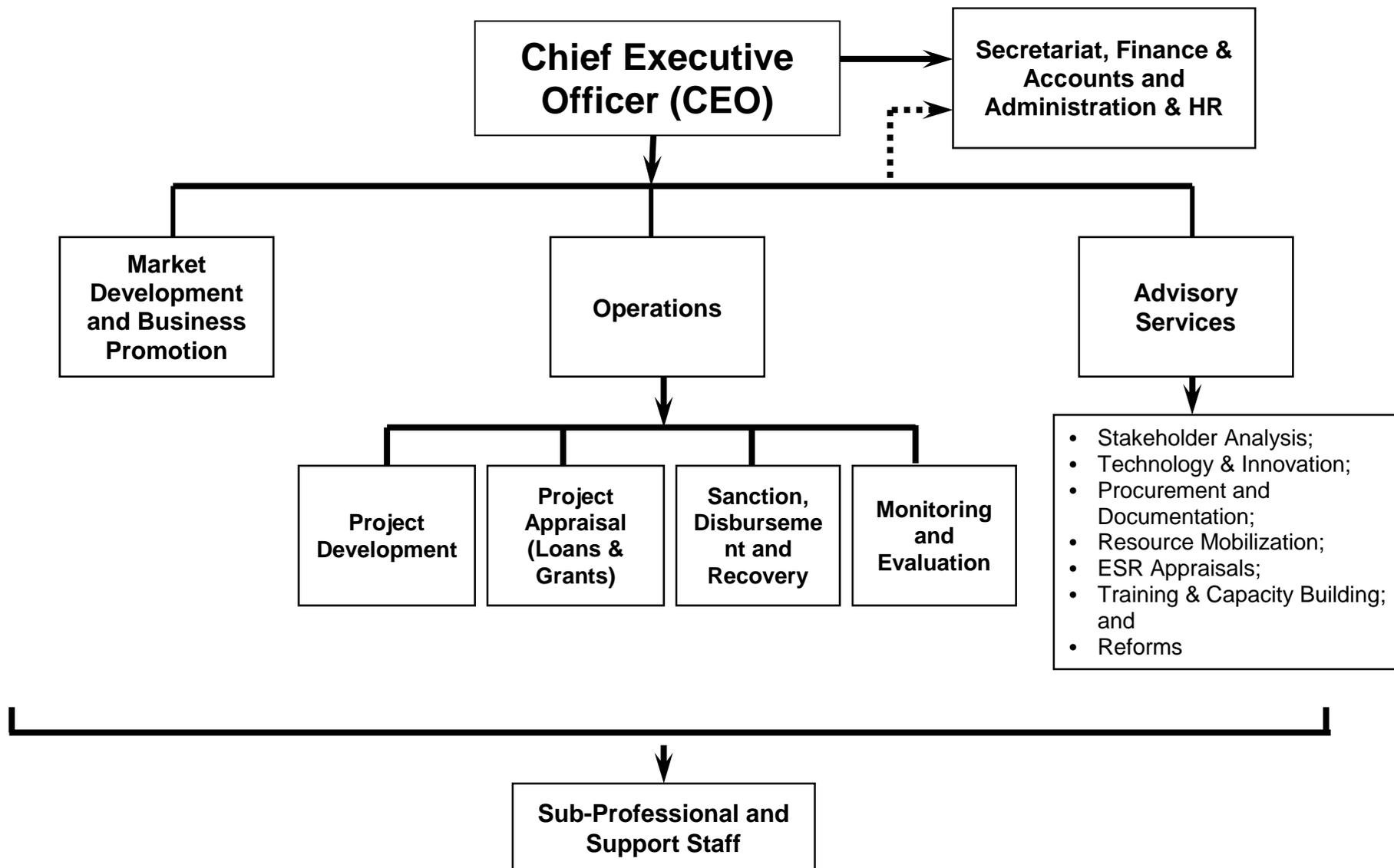
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08-12-2015
H.ARUN KUMAR, I.A.S.
District Collector and
Special Officer
Municipal Corporation, KAKINADA

33. SUGGESTIVE ORGANIZATION AND INSTITUTIONAL ARRANGEMENT FOR SPV

Option 1: Horizontal Model



Option 2: Vertical Model



DEPARTMENT, FUNCTIONS, SUGGESTED DESIGNATION, JOB DESCRIPTION, QUALIFICATION & EXPERIENCE OF THE STAFF

Department	Functions	Employee Designation	Job Description	Desired Qualification	Experience
Chief Executive Officer	<ul style="list-style-type: none"> ▪ Overall responsibility for the conduct of business of KLGIFSL 	Chief Executive Officer	<ul style="list-style-type: none"> ▪ Over all responsibility for the conduct of business of xxxx Ltd 	A professional from urban/ municipal sector	Experience in dealing with Government departments, All India financial institutions and project conceptualisation, implementation for 15 years
Projects	<ul style="list-style-type: none"> ▪ Project development, appraisal of projects, procurement and monitoring progress; ▪ Coordination of review meetings; ▪ Responsible for Board Notes; and ▪ Coordination with the Smart City Mission and other bilateral/multilateral agencies related to projects. 	Vice President (Projects)	<ul style="list-style-type: none"> ▪ Project appraisal, procurement, management of consultancy assignments and project monitoring; ▪ Drafting and finalising Terms of Reference for project consultancies; ▪ Project structuring in various formats; ▪ Coordination of review meetings, preparation of Board Approval Notes and initiation of projects in the Board Notes; ▪ Preparation of bids for consultancies of xxxx Ltd ; ▪ Follow up advertisements for consultancy opportunities; ▪ Arranging tie up/Joint Venture with other consultancy firms for submission of bids; ▪ Preparation of approach paper for externally aided projects; ▪ Preparation of various 	BE or B. Tech. with Masters in Planning or Engineering or Management or CA/ CWA	About 10 years experience in project formulation, stakeholder analysis, project structuring, review of consultancy report and monitoring.

Department	Functions	Employee Designation	Job Description	Desired Qualification	Experience
		Deputy Manager (Projects)	<p>reports;</p> <ul style="list-style-type: none"> ▪ Coordination with the Smart City Mission and other bilateral/multilateral agencies related to projects; and ▪ Study of financials of projects and sector review. ▪ Analysis of Balance Sheets of ULBs, attaining Financial Closures, preparation of financial statements such as Operating Plans, Cash Flows, Initial Screening Report and Recommendation for Board Notes; ▪ Issue loan sanction letter; ▪ Drafting Loan Agreements and Consultancy Agreements for Grants; ▪ Periodical review of projects; ▪ Preparation of disbursement memos for disbursement of loans and grants; ▪ Drafting Terms of Reference for consultancies to be appointed for preparation of detailed project reports for a proposed project; ▪ Preparation of disbursement memos to disburse payments to consultants after review of the reports; ▪ Study of the Detailed Project Report submitted by 	BE/CA/CWA/Planner	Minimum of 5 years of specific experience in financial appraisal and technical appraisal of institutions and projects. Should be conversant in preparation of cash flows. Fluency in the computer operations is essential

Department	Functions	Employee Designation	Job Description	Desired Qualification	Experience
			<p>Consultants to understand the project proposed, specifically from the financial viewpoint; and</p> <ul style="list-style-type: none"> Monitoring progress of consultancy works. 		
Finance, HRD Accounts & Secretarial	<ul style="list-style-type: none"> Accounts finalization, audit of annual accounts of the company Preparation of Annual Accounts; Resource Mobilisation; Secretarial activities of company and Legal issues. 	Vice President & Company Secretary	<ul style="list-style-type: none"> Over all in charge of the Finance, Accounts, HRD and legal issues 	FCA/ AICWAI with ACS	Minimum 10 years of experience in finalisation of accounts of finance company, resource mobilisation, filing of returns to Registrar of Companies, etc.
		Manager	<ul style="list-style-type: none"> In charge of raising resources for the company; Facilitating Bond and Bond servicing; Responsible for floating of Bonds under pooled finance; Development of Revenue Bonds and supervision of Investments of all entities; Providing administrative and accounting framework for the company and Coordination with the Smart City Missions and other bilateral/multilateral agencies and the GoAP related to projects. 	ACA/ AICWAI	Minimum 10 years of experience in finalisation of accounts of finance company, resource mobilisation, filing of returns to Registrar of Companies, etc.
		Deputy Manager	<ul style="list-style-type: none"> Day-to-day operations of the company , viz. verification of memos from project 	C.A. (Inter)/ ICWA - (Inter)	Minimum of 5 years experience and specific experience in accounting software, on hand

Department	Functions	Employee Designation	Job Description	Desired Qualification	Experience
		Deputy Manager	<p>department for disbursement, preparation of cheques, cash book updation etc.;</p> <ul style="list-style-type: none"> ▪ Day-to-day voucher entry in Oracle based FAS; ▪ Monthly reconciliation of bank accounts; ▪ Issue of TDS Certificates; and ▪ Coordination with Statutory Auditors and Internal Auditors and finalization of Accounts of the company <ul style="list-style-type: none"> ▪ Maintenance of all statutory registers, files relating to Companies Act; ▪ Compilation of Board Notes; ▪ Coordination with Projects, Accounts & Administration in timely submission of Board Notes and sending the same to the Board members; ▪ Correspondences with the GoAP and other Financial Institutions; and ▪ Assisting in Investments of the Company 	M. Com. / ACS - (Inter)	<p>experience in preparation of accounting statements, coordination with auditors.</p> <p>Minimum of 3 years experience and specific experience in assisting secretarial functions, treasury operations, etc.</p>
Human Resource Development (HRD)	HRD policy, promotions, recruitment and fixation of compensation	Deputy Manager (HRD)	<ul style="list-style-type: none"> ▪ Day-to-day operations of the company ; ▪ Coordination with Statutory Authorities like PF, Service Tax & Income Tax; ▪ Overall administration work; ▪ Finalisation of issues related to HRD; 	CA (Inter)/ ICWA (Inter)	Minimum of 3 years experience and specific experience in dealing with employee compensation, PF, etc.

Department	Functions	Employee Designation	Job Description	Desired Qualification	Experience
			<ul style="list-style-type: none"> ▪ Issue of TDS Certificates; and ▪ Coordination with Statutory Auditors and Internal Auditors and finalisation of year end accounts of the company 		
Administration	Office Maintenance	Officer (Admin.)	<ul style="list-style-type: none"> ▪ Coordination with various agencies regarding company, House Keeping, Insurance, Printers, Telephones, Electricity & Travel Agents; ▪ Purchase of stationeries; ▪ Arranging of Air, train tickets; ▪ Maintenance of attendance, leave, medical, PF, TDS registers; and ▪ Assisting secretarial and accounting work. 	Any graduate with PGDBM	Minimum of 3 years experience and specific experience in dealing with purchase of office equipment, maintenance arrangements for them and travel arrangements
Procurement	Procurement of goods and services - civil works, equipment and consultancy	Advisor (Procurement)	<ul style="list-style-type: none"> ▪ In charge of procurement of consultants; ▪ In charge of procurement of civil works, goods etc.; ▪ Review of the reports submitted by consultants (design); and ▪ Over all responsibility to attend review meetings and advise. 	BE	A minimum of 10 years experience in procurement of goods and services and specific experience in procurement rules of the GoAP and other bilateral and multilateral agencies
		Deputy Procurement Engineer	<ul style="list-style-type: none"> ▪ Looking after all procurement formalities; ▪ Preparation of Terms of Reference and Bid documents for selection and employment of consultants for preparation of DPR for various Projects; 	BE	A minimum of 5 years experience in conducting financial and technical evaluation of bids, finalisation of contract agreement for civil works, equipment, etc.

Department	Functions	Employee Designation	Job Description	Desired Qualification	Experience
			<ul style="list-style-type: none"> ▪ Evaluation of Technical and Financial Proposals received from the consultants; ▪ Review of reports furnished by the consultants at various stages; ▪ Review of bid documents and bid evaluation reports for various projects; ▪ Projects monitoring through review of progress for ongoing projects; and 		
Information Technology	Maintenance of Accounting Software, procurement of software, Maintenance of Hardware and procurement	Systems Analyst	<ul style="list-style-type: none"> ▪ In charge of maintenance of software and hardware; ▪ Procurement of software and hardware; and ▪ AMC for Hardware and software, Simple program involving day-to-day software management and maintenance of system and computerization, development of separate modules as required by the line department. 	BE/MCA	A minimum of 3 years experience in purchase of computer hardware and software, arranging for maintenance of the systems, networking etc.
Training and Capacity Building	Responsible for drawing up training plan, visits, etc., based on the training assessment of the ULB departments and also the elected representatives.	Training and Institutional Expert	<ul style="list-style-type: none"> ▪ Conduct of baseline survey on the training requirement of the ULB departments and the elected representatives; ▪ Conducting training programmes, exposure visits to best practice in urban management; and ▪ Initiate urban reforms and 	ISTD, with background experience in urban environment management	A minimum of 5 years experience in working in professionally managed management institutions and flair for organising seminars, workshops, etc.

Department	Functions	Employee Designation	Job Description	Desired Qualification	Experience
			related activities.		

Legend for Qualifications:

PGDBM	Post Graduate Diploma in Business Management
ACA	Associate of the Institute of Chartered Accountants of India
AICWAI	Associate of the Institute of Cost and Works Accountants of India
BE	Bachelor of Engineering
B. Tech.	Bachelor of Technology
ACS	Associate of Institute of Company Secretaries of India
ISTD	A degree awarded by Society for Training and Development



**Government of Andhra Pradesh
Municipal Administration & Urban Development Department**

MINUTES OF THE 2nd MEETING OF THE HIGH POWERED STEERING COMMITTEE (HPSC) HELD ON 9.12.2015 AT 6:00 PM IN THE CONFERENCE HALL OF THE CHIEF SECRETARY TO GOVERNMENT, GOVERNMENT OF ANDHRA PRADESH, SITUATED AT L BLOCK,7th Floor, A.P. SECRETARIAT, HYDERABAD.

Sri I.Y.R. Krishna Rao, I.A.S.,
Chief Secretary to Government. - Chairman

Sri Karikal Valavan, I.A.S.,
Principal Secretary, MA&UD. - Mission Director

Sri Ravichandra, I.A.S.,
Secretary to Govt, Finance Dept. - Member

Sri. K. Kanna Babu, I.A.S.,
Managing Director, APUFIDC., - Member

Dr. P Pandurungarao
Engineer-in-Chief, PH, A.P. - Member

The Principal Secretary to Govt., MA&UD. & the Mission Director and Member Secretary of the High Powered Steering Committee of Smart Cities Mission, AP. honored the Chief Secretary & Chairman of the Committee to chair the 2nd HSPC Meeting, and also welcomed the other Committee Members, Senior Officers, and Participants.

The Chief Secretary & Chairman of the High Powered Steering Committee of the Smart Cities Mission, AP chaired the 2nd H.S.P.C Meeting and welcomed all the Committee Members, Prl. Secretaries, Commissioners of the Smart Cities and participants, and invited to proceed further.

The Mission Director & Member Secretary outlined the objective of the 2nd High Powered Steering Committee as to consider and approve the Smart City proposals (SCPs). The SCPs are prepared by the three Challenging Cities of Tirupati, Kakinada and Visakhapatnam for submitting to the Ministry of Urban Development, Government of India. The last date for submission of SCPs is 15th December, 2015

and upon their submission, the three cities would be considered for the Stage II of the Smart City Challenge. He briefed the process the Cities followed in preparing the SCPs , and also introduced to the Committee the Consultants selected by the Cities for SCP preparation viz., AECOM India Ltd. by Visakhapatnam, IIDC by Kakinada and Lea Associates by the Tirupati City. The Mission Director requested the three Commissioners to make their presentations before the Committee.

The three Mission Cities made a detailed Power Point Presentation on their Smart City Proposals. The presentations covered in various dimensions of each City - Geographical, Sociological, Economical features, Urbanization Trends over the years, and the present level of development specifically in core areas. They analyzed very intensively on the strengths and scope for development that is assessed from the perspective of various cross sections and interested Groups in the City. The presentations elaborated the scientific and transparent methods they adopted for generating public opinion as to what is a smart city for them. The Commissioners also deliberated on the Development strategy suitable for the City whether Area Based Development, or Retrofitting or Redevelopment or a Greenfield model. The presentations covered Pan-city initiatives with smart solutions. The Financial proposals are also placed before the Committee.

Smart City Proposals of Tirupati :

Sri Vinay Chand, IAS., Commissioner Tirupati Municipal Corporation placed SCP of Tirupati City before the HPSC. Under the Mission, Area Based Approach is proposed for making Tirupati a Smart City. He explained that considering the Geographical setting of the city surrounded by hills and dense forest, importance as religious destination and the need and demand by its compact areas for improved and better mobility and urban public transport, the Area Based Approach would be the ideal model for Tirupati. In the Financial proposal, the total Project outlay is projected as Rs.2629 crores which is the total of the shares of Government of India, State Government and the Tirupati City.

Resolved : The Committee considered Smart City Proposal in its entirety. It is observed that the Proposal contain essential features as indicated in the Smart City Guidelines of the GoI. After due deliberations and review, the High Powered Steering Committee approved the Smart City proposal of Tirupati. The Financial plan for Rs 2,629 Crs is also approved.

Smart City Proposal of Kakinada

Sri Aleem Bhasha, Commissioner, Kakinada Municipal Corporation submitted Smart City Proposals to the HPSC. Retrofitting Model is proposed for development of Kakinada as Smart City. He explained that development of Kakinada is mainly driven by the Commercial Based Development, hence Retrofitting model is more suitable for developing it as Smart City. He mentioned that in the Redevelopment and Greenfield models the issue of Land acquisition involved and make the projects delayed and costly. The total Project outlay is Rs.1993 crores which is the total of the shares of Government of India, State Government and the Kakinada City.

Resolved: The Committee considered Smart City Proposal of Kakinada in its entirety. The Proposal includes essential features as indicated in the Smart City Guidelines of the Government of India . After due deliberations and review, the High Powered Steering Committee approved the Smart City proposal of the Kakinada. The financial plan for Rs 1993 Crs is also approved.

Smart City Proposal of Vishakhapatnam

Sri Praveen Kumar, IAS., Commissioner, Visakhapatnam Municipal Corporation submitted the Smart City Proposal before the HPSC. Area Based Approach is proposed for the City Development under the Mission. He explained that in the other two models of Retrofitting, and Redevelopment the issue of High Project Cost, and Land acquisition involved and would go beyond the financial outlay of the Smart City Mission. In Financial proposal the total Project outlay is projected as Rs.1584 crores which is the total of the shares of Government of India, State Government and the Visakhapatnam .

Resolved: The Committee considered Smart City Proposal of Visakhapatnam in its entirety. The Proposal contain essential features outlined in the Smart City Guidelines of Gol. After due deliberations and review, the High Powered Steering Committee approved the Smart City proposal. The financial plan for Rs 1584 Crs for Visakhapatnam is also approved.

Matters requiring Inter Department convergence and approvals for inclusion of projects in the Smart City Proposals:

The Mission Director placed before the Committee the issues/proposals requiring approvals of the other Line Departments such as Railways, Energy, Petroleum and Natural Gas, Information & Communication Technology, Fisheries YAT&C Departments as to include these proposals in the SCPs . The Commissioners, Tirupati, Kakinada and Vishakhapatnam submitted as follows:

Tirupathi Smart City

1. South Central Railway: To construct flyover on the railway crossing across residential colonies, commercial establishments and educational institutions towards the southern side of the railway gate. It require consent letter from the GM., Railways accepting to share 50% of the Project cost. The Committee considered and approved to include the proposal in the SCP.

2. APSRTC: Modernization of APSRTC Bus Station, Tirupati - The Commissioner reported that the project requires approval to transfer 13 Ac site to SPV. , and a letter already addressed to the MD., APSRTC. Once approval received, the project will be included in the SCP. The Committee considered and approved to include in the SCP.

3. APSDCL : The Commissioner proposed laying of underground electricity cabling, shifting of DTRs and installation of smart metering, and to sent supplementary DPR by APSDCL to GoI. The Pri.Secy,MAUD&Mission Director informed that Department already addressed a letter to the Secretary , Energy as to include the Proposal in the IPDS, and he agreed to the same. The Committee approved and resolved to include the proposal in the SCP.

4. TTD: The Commissioner explained the proposal and requested for getting approval from the Executive Director, TTD for the following projects as to include them in the SCP. The Committee considered the proposal and approved it to include in the SCP.

1. Retrofitting of 7 Roads and de-silting and beautification of 3 lakes within Retrofitting area by TTD.
2. Construction of Sky walk from railway station to Srinivasam
3. Restoration of Govindaraja Swamy Pushkarini
4. Retrofitting of the roads which are under the control of the TTD
5. Roof top solar power harvesting on all TTD buildings

6. Conservation of all lakes and Tanks
7. Construction of storm water retention storage tanks on Kapila Theertham Land Malvani Gundam.

Kakinada Smart City

1. Housing Department: The Commissioner proposed construction of 1560 in-situ housing units (from katch to pucca houses) and requested in principle approval. The Mission Director informed to the Committee that the Pri.Secy., Housing informed to place the proposal before the State Level Steering Committee and will sent to the Government of India for approval. The Mission Director informed that this is sufficient to include the proposal in the SCP . The Committee Considered the proposal and approved to include it in the SCP.

2. NREDCAP: The Mission Director informed that MA&UD Department addressed a letter to the Secretary , Energy to include the following Proposal in the IPDS as requested by the Commissioner , and that the Secretary , Energy agreed to the same. The Committee approved and resolved to include the proposals in the SCP.

1. 5.2 lakh sft rooftop solar panels on Government buildings
2. 11.28 lakhs sft rooftop solar panels on apartments on PPPP mechanism
3. Solar LED Street Lights
3. LED lights to all households

3. Roads & Buildings Department: The Commissioner requested for approval of the following two proposals for including in the SCP. The TR&B Dept. agreed in principle to the proposals. The Committee approved and resolved to include them in the SCP.

1. Construction of ROB at Port area level crossing and Salt Creek,
2. Construction of approach road to NTR bridge for Temple Street

4. Energy Infrastructure & Investment Department: The Mission Director informed that MA&UD Department requested the Secretary , Energy to include the following Proposal in the IPDS , and that he agreed to the same. The Committee approved and resolved to include the proposals in the SCP:

- 1.For developing underground cable network with 24/7 Power Supply by taking up
2. Underground cabling,
3. New 33/11KV Indoor Sub Stations
4. OFC cable network/SCADA,
5. Smart Meters and other works

5. Animal Husbandry & Fisheries Department: The Commissioner, Kakinada requested to get approvals of the Animal Husbandry Department to rejuvenate the defunct boat building yard and provide basic amenities for fishing activities on PPP mode and submitted following proposals for approval and to include in the SCP. The Principal Secretary, Animal Husbandry, Fisheries & Dairy Development mentioned to the Committee that he will examine the feasibility of the Project and issue necessary approvals. He also informed to identify other area/projects for inclusion in the SCP. The Committee considered and approved to include the proposals in the SCP.

1. Development of boat building yard at Yetimoga
2. Construction of Cold Storage at Yetimoga
3. Hygienic markets for fish processing and packaging facilities

6. Tourism & Culture Department: The Commissioner, Kakinada has placed the following proposals for getting approval of the Tourism, Culture Department. The proposal is agreed to in principle by the YAT&C Dept. The Committee approved and resolved to include the proposals in the SCP.

1. To construct Godavari Kalakshetram at Vivekananda Park
2. To construct of RCC retaining wall and to provide Providing Green Waterfront Development.

Visakhapatnam Smart City

APEDCL: The Commissioner, Vishakapatnam explained to the Committee that approvals of the Energy Department is required to implement the projects relating to the Smart Meters and Underground wiring in the selected areas under Integrated Power and to extend its policy of buying the power from the property owners under net metering approach to the SPV. The Missioner Director informed that MAUD Department requested the Secretary , Energy to include the Proposal in the IPDS , and that he agreed to the same. The Committee approved and resolved to include the proposal in the SCP.

The 2nd High Powered Steering Committee considered and approved the three Smart City Proposals . All the proposals of three Smart Cities requiring inter departmental convergence are also approved to be included in the SCP.

The meeting adjourned with a vote of thanks to the Chair.

N. M. N.

State Mission Director

Principal Secretary to Government
Municipal Administration and
Urban Development Department
Government of Andhra Pradesh
A.P. Secretariat, Hyderabad - 500 022.

Chairman

[Signature]
Chief Secretary
Govt. of Andhra Pradesh
A.P. Secretariat, Hyderabad-22.

Other Officials present:

Sri. B. Sambob, I.A.S., Spl. C.S, T, R & B Department

Sri. Manmohan Singh, I.A.S., Principal Secretary, AHDD&F, Home

Sri. L. Agarwal, I.A.S, Secretary (Housing), Housing Department

Sri. Pravin Kumar, I.A.S., Commissioner, GVMC

Sri. Dr. T. Babu Rao Naidu, I.A.S., Vice-Chairman, VUDA

Sri. V. Vinay Chand, I.A.S., Commissioner, Tirupati Municipal Corporation

Sri. R. Sasidhar, Director (CA), APSRTC

Sri. K. Ranganathan, Advisor, Energy, DCMC

Sri. S. Aleem Basha, Commissioner, Kakinada Municipal Corporation

Sri. G. A. Srinivas, ED, A.P Tourism
