



ANNEXURE-II



RAJKOT SMART CITY PROPOSAL – ANNEXURE II

S.No	Feature	Self-assessment of the 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	Input/Initiative that would move the city from its current status to Advanced status (Scenario 4: Column G)
1	Citizen participation	Scenario - 4	<ul style="list-style-type: none"> ● Active 18 Ward committees, Ward-wise Lok Darbar & ward wise Sewa Setu promoting citizen engagement. ● Exclusive Drive for one day one ward in all 18 ward for citizen consultation and feedback. ● Pioneer in Smart Societies scheme - "Competitive Community Initiatives/ actions", aggressively promotion & subsequent adoption of Swachhata app. ● Active Citizen forums for sharing city actions and eliciting citizen feedback/ suggestions e.g. Citizen opinion on Budget, Marathon, Flower show etc. ● Pioneer in grievance redressal through 24x7 call center, kiosk, website & ward office; mobile governance (SMS and App); Mobile Application for service delivery. 	Scenario - 4	<ul style="list-style-type: none"> ● Strengthen ward committees and scale up grievance redressal with analytics and citizen engagement features to help decision making. ● To promote qualitative feedback from citizens by focusing on specific sectors, associations and stakeholders under regular engagements.
2	Identity and culture	Scenario - 4	<ul style="list-style-type: none"> ● The city has a unique identity and is also known as heart of Saurashtra. Rajkot is also known for folk dance (Dandiya ras) and Melas (festivals) during Navratri and Janmastami festivals respectively. The city has 3-4 open spaces to cater to the Melas and Dandiya festivals ● Race course ground, lies in the heart of the city and is a central attraction. RMC has redeveloped the race course ground and has provided number of world class sports facilities. ● The city has its own heritage identity as Mahatama Gandhiji studied at Alfred High school presently known as Mohandas Gandhi Vidyalaya. Other preserved historic structures include Two City gates, Kaba Gandhi's Dhello, Rashtriya Shala, Wattson Museum etc. RMC organizes Heritage walk connecting all Gandhian places and other heritage monuments. 	Scenario - 4	<ul style="list-style-type: none"> ● Strengthen city's identity by developing exhibition centers, amusement areas, Village Zhanki promoting local art & culture in ABD. ● To Develop world-class Gandhi Museum. ● To renew and re-develop existing heritage and areas and propose activities like exhibitions, events, celebrations in such buildings so that the heritage areas/ buildings are widely used by the public through festivals, events and activities.

RAJKOT SMART CITY PROPOSAL – ANNEXURE II

S.No	Feature	Self-assessment of the 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	Input/Initiative that would move the city from its current status to Advanced status (Scenario 4: Column G)
3	Economy and employment	Scenario - 4	<ul style="list-style-type: none"> • The city has 2 industrial areas in addition to 3 industrial estates surrounding the city. There are more than 26,000 industrial units and 14000 small units within city. There are 500 foundries and forging units engaged in casting & forging activities. The city has more than 40,000 enterprises providing direct employment to more than 100,000 people. In addition to it, there is huge participation in informal economy such as handicrafts, Cottage industry etc. • Rajkot has grown to be main centers for the production of Diesel Engine & automobile products. Accessories for all major international brands are produced in Rajkot. • Rajkot is a real estate hub with fast development having high land value. Rajkot is known as Bombay of Saurashtra region • Rajkot is an industrial city. Skill training is provided through two Polytechnics/ Diploma technical course, Thirteen Engineering colleges including one Govt. Eng. College, NUL, and ITI etc. • Rajkot is also famous for its gold and silver and imitation Jewelry which is supported by local level training institutes. • Due to its strategic location, Rajkot has become a major trade center of Saurashtra region for agriculture product. 	Scenario - 4	<ul style="list-style-type: none"> • Facilities such as incubation center to diversify economic base from industries to service sector • Take initiatives for product diversification to remove dependency on few sectors. • Ease the environment for doing or starting business. • Develop Rajkot as logistics hub building on its manufacturing strength and strategic location. • Develop Rajkot as hub for agro-processing, food processing & cotton industry.
4	Education	Scenario - 4	<ul style="list-style-type: none"> • Rajkot has also emerged as an education Hub for the Saurashtra region with 13 Engineering Colleges, Medical Colleges and other Universities to support strong development of youth. • Rajkot has more than 520 schools that also cater to the students from outside Rajkot and provide modern facilities. Recently SNK foundation, helped RMC to restart its English Medium school under its CSR initiative. • All the primary schools in Rajkot are assessed under the 'Gunotsav' which is state's programme to assess the quality of primary education and it aims at increasing school enrolments and bringing down school drop-out ratio. • State Govt's present policy of education through self-finance institute has helped Rajkot emerge as Educational Hub in the region. There are total 74 colleges present in the city. 	Scenario - 4	<ul style="list-style-type: none"> • Education facilities to be regularly assessed through database of schools including number of students, attendance, teacher-student ratio, facilities available, etc. • Special focus on Research & development at universities. • Initiatives to provide quality education in municipal schools.

RAJKOT SMART CITY PROPOSAL – ANNEXURE II

S.No	Feature	Self-assessment of the 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	Input/Initiative that would move the city from its current status to Advanced status (Scenario 4: Column G)
5	Health	Scenario - 3	<ul style="list-style-type: none"> • There are more than 1200 medical facilities in Rajkot which are distributed in all administrative zones of RMC. • RMC runs 21 Urban Health Centers, 8 of these UHCs have received NQAS accreditation. • India's first and only NABH accredited UHC is Nana Maua UHC of Rajkot City. • Currently 70 types of medicines are provided through UHCs. • RMC has received many national awards for Health facilities and services provided to the citizen including Vaccination alerts for children through M Governance • An ambulance based emergency response system "108" is in place. • Rajkot is also competing for an AIIMS (Fund allocated for AIIMS in Union Budget 2017). 	Scenario - 4	<ul style="list-style-type: none"> • Provision of specialist services such as ENT, Childcare, Eye care etc. at UHCs. • Number of medicines at UHCs to be increased to 120. Also 10 Pradhan Mantri Jan Aushadhi stores will be opened. • Provision of lab tests like bilirubin, creatinine, cholesterol etc. at UHCs. • Implementation of NQAS and NABH standards at all 21 UHCs. • Provide digital interface for information of medicines and aid available at UHCs, schedules for vaccinations, appointment facility etc.
6	Mixed use	Scenario - 4	<ul style="list-style-type: none"> • As per development plan 2031, Residential Building itself is defined to include the mix used building where commercial development is permissible. Mercantile-1 i.e. Shop, Restaurant, Shopping center and Business-1 i.e. Call Center, Training Center, Clinic, Fitness Center & Nursing Home uses are permissible on ground floor level on 9.0 mtr to 12.0 mtr road in old city area and on any road in new city area. This encourages mixed use development greatly. • Mixed Land use is highly encourage through provision of permitting 20% commercial uses with Residential use. However tactfully Industries and heavy industries are excluded in the provision. • Most parts of Rajkot city has housing and retails facilities in close proximity providing citizens easy access to all the mentioned services in nearby surroundings. 	Scenario - 4	<ul style="list-style-type: none"> • The new race course – Greenfield project as Area based development with mixed use development would help to replicable model for the entire city.

RAJKOT SMART CITY PROPOSAL – ANNEXURE II

S.No	Feature	Self-assessment of the 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	Input/Initiative that would move the city from its current status to Advanced status (Scenario 4: Column G)
7	Compact	Scenario - 4	<ul style="list-style-type: none"> ● The city has a Gross density of 112 persons/ ha. The old city area is highly compact with density up to 380 persons/ ha. Most of the new areas are being developed through town planning schemes. The town planning schemes are taken for not more than 100 - 250 ha area having density of 150 to 180 person /Ha. ● Recently approved Development plan 2031 promotes Compact development by increasing FSI from 1.5 to 1.8 and Premium FSI from 25% to 50% thus total available FSI increase from 1.875 to 2.7.and up to 4 FSI in Transit oriented Zone. ● The city has more than 10 ongoing Slum re-development projects out of which 6 are on PPP where the private player will re-develop the slums and give it to the stakeholders free of cost and utilize the remaining land which was otherwise underutilized to explore the real estate market potential of the same ● Most buildings in the city are oriented to the street, making them easily accessible. Buildings have their own parking space below the building or on the periphery of the building. ● City has public transport through City bus and BRTS network with 100 buses covering the entire city. Major Arterial and sub-arterial roads have footpaths, whereas Race Course Ring road and BRTS route has dedicated bicycle lane. All these facilities improve connectivity between residences and jobs and amenities. ● Around 10000 dwelling units are being constructed to cater to the LIG & EWS population of the city. Around 50 ha of Land is reserved for affordable housing in the proposed DP within the existing RMC boundary ● Development Plan2031 has identified novel land-uses such as ToZ along outer ring road, Affordable housing, Info & Technology zone etc. 	Scenario - 4	<ul style="list-style-type: none"> ● Continue the thrust on compact and Mixed Use development in the city and promote it through an ideal development in Area Based Development. ● Prepare micro plans for the city to renew and re-develop older core areas and avoiding sprawling unplanned growth in periphery. ● To extend the BRTS and connect it with ring road. ● Route rationalization and efficiency of services through e-Gov mechanism. ● Clearance of number of TPs will also enhance the compact use in the city.

RAJKOT SMART CITY PROPOSAL – ANNEXURE II

S.No	Feature	Self-assessment of the 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	Input/Initiative that would move the city from its current status to Advanced status (Scenario 4: Column G)
8	Public open spaces	Scenario - 3	<ul style="list-style-type: none"> The city has 129 parks or Gardens out of which 53 are in West Zone, 31 in east zone and remaining 45 are in Central Zone. Around 5% of total area of Rajkot is reserved for Public open spaces which helped to form neighborhood level open space. The city has variety of public open spaces 1) city level recreational spaces, 2) neighborhood level open space and 3) area/plot level open space. The city level open spaces include 1.) Race course - having outdoor and indoor sports facilities including international cricket stadium 2.) Pradyuman park - Zoological garden. 	Scenario - 4	<ul style="list-style-type: none"> Rejuvenate all existing park locations with public participation to create green walkways Creation of recreation areas around Nyari and Aji dams. To create sports zones at Aji and Nana Maua road. Proposed new race course at Raiya as part of ABD. Future public awareness programs for environment awareness among citizens are planned by parks & Garden dept. through flower show.
9	Housing and inclusiveness	Scenario - 3	<ul style="list-style-type: none"> Apart from the private developer coming up with housing development for HIG and MIG, RMC has taken up several initiatives for development of housing for LIG and EWS & has been instrumental in implementing Pradhan Mantri Awas Yojana (PMAY) and Mukhya Mantri Gruh Yojna (MMGY) in the pursuit to ensure conformable living for all sections of society. RMC has taken up Unique Housing PPP Model under PMAY for slum rehabilitation in 7 slums; 5,400 affordable housing allotted and 10,000 more in progress. Rajkot has dormitories for homeless and floating population with bathing & Kitchen facilities. Received HUDCO design honor for 2016 for affordable housing project. Rajkot city has been instrumental in implementing the four verticals In-situ, Credit Link Subsidy (CLS), Affordable Housing in Partnership (AHP), Beneficiaries Led Construction (BLC). 	Scenario - 4	<ul style="list-style-type: none"> Redevelopment of Slums by PPP model under PMAY to be further extended. Special projects for untenable slums. More number of In-situ projects so that livelihood is protected. Affordable housing with special design for poor to provide him more open space. New affordable housing schemes for MIG in addition to LIG.

RAJKOT SMART CITY PROPOSAL – ANNEXURE II

S.No	Feature	Self-assessment of the 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	Input/Initiative that would move the city from its current status to Advanced status (Scenario 4: Column G)
10	Transport	Scenario - 3	<ul style="list-style-type: none"> ● Rajkot city has 2600 Km of road network spread over three zones. The city has 10.7 Km long dedicated BRT system along with a city bus system. The city bus service ply on 45 different routes which covers most of the city area and .54000 commuters a day with 100 buses. ● Rajkot was awarded Best NMT project at UMI conference 2015 & Best City Bus Service at UMI 2016. ● Almost all arterial and sub-arterial roads have foot path, but most of them are discontinued, narrow and/or encroached. The city Rajkot does not have pedestrian-accentuated signals or traffic mgmt. measures at intersections. ● RMC identified 26 road side parking areas in the city and handed over to private operator for maintenance on revenue sharing basis. ● All buses equipped with GPS and monitored from CCC. ● BRTS route is monitored by 112 CCTV cameras. ● Smart ticketing in BRTS is already implemented. 	Scenario - 4	<ul style="list-style-type: none"> ● Extension of BRTS in ring road, intensity of connections to be increased through route rationalization. ● Multimodal transport integration for BRTS, RMTS & Rickshaws to be planned ● Encourage non-motorized transport through bike sharing program, cycle track, green walkways, intelligent pedestrian crossings etc.
11	Walkable	Scenario - 3	<ul style="list-style-type: none"> ● Almost all arterial and sub-arterial roads have foot path. Racecourse ring road has separate lane demarcated as bike lane. ● All major junction have pedestrian signals and Zebra crossing at all Major junctions, Road crossing, at Schools and Hospitals. ● There are 21 km grade separated bicycles lane along the BRTS route. The city has 11 traffic signals on major junctions. 	Scenario - 4	<ul style="list-style-type: none"> ● Solar roof cover across key pedestrian pathways and 50 KM of cycle tracks. ● Intelligent traffic management system to be implemented with CCTV, ANPR & RLVD & Auto Challan for traffic violators & e-challan for transparency ● Dedicated cycle track/ foot path in new BRTS extension. ● Planning for pedestrian paths in new road, new traffic signals with cctv cameras and sufficient path for cyclists are proposed.
12	IT connectivity	Scenario - 3	<ul style="list-style-type: none"> ● The city has a well laid network of cables facilitating high speed internet connectivity in most parts of the city. RMC is having robust city wide intranet of its own. RMC's each office is connected to Data Centre through LAN-WAN. RMC's all the offices are connected by MPLS lease line. ● City provides free Wi-Fi at Race Course and BRTS network. 	Scenario - 4	<ul style="list-style-type: none"> ● Engage with public & private service providers to expand coverage and create Wi-Fi hotspots at all important areas of the city. ● To create a fiber network of 250 KMs to provide fiber to home facilities to each household in the city with BSNL in the offing.

RAJKOT SMART CITY PROPOSAL – ANNEXURE II

S.No	Feature	Self-assessment of the 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	Input/Initiative that would move the city from its current status to Advanced status (Scenario 4: Column G)
13	ICT-enabled government services	Scenario - 3	<ul style="list-style-type: none"> ● Rajkot is one of the few cities in India which has robust e-Governance facilities, which was awarded at Central as well as State level. Almost all of the major services of RMC can be accessed through its online portal and 24x7 call center. ● RMC has also launched a mobile app for different services provided by RMC for citizens. RMC has also created separate dashboards for government officials to analyze and interpret the important data for quick decision making ● Robust e- governance facilities with RMC and beyond that M governance enables efficient and responsive governance. ● GIS base map of City is completed with many infrastructural layers. 	Scenario - 4	<ul style="list-style-type: none"> ● Creation of an integrated online public service delivery platform through app & portal with auto escalation mechanism on SLA breach and integration with ICCC (integrated command and control center) for the city for round the clock monitoring. ● To make Rajkot an IT enabled city through Wi-Fi hotspots, public address system, CCTV surveillance, environmental sensors, fire & emergency inputs directly to CCC. ● Update GIS to includes real time monitoring of assets and different utilities of Municipal corporation.
14	Energy supply	Scenario - 4	<ul style="list-style-type: none"> ● Paschim Gujarat Vij Co Ltd (State Government owned DISCOM) is responsible for electricity supply to Rajkot City, which provides 24 X 7 electricity to its consumers with 20 fault centers and 100% grid connected. ● Online billing platform available for monitoring and transparency. 	Scenario - 4	<ul style="list-style-type: none"> ● Improve reliability by providing proposed sub-stations and round the clock monitoring of energy services through ICCC for the city.
15	Energy source	Scenario - 3	<ul style="list-style-type: none"> ● Rajkot city has 25 wind mills with total capacity of 37.3 MW and 56 Solar PV plants with total capacity of 0.6 MW. ● Rajkot is selected as solar city under MNRE Solar Program. It has prepared its Solar City Plan wherein target is set to 10% reduction in energy consumption over 5 years period. ● RMC has installed solar capacity of 315 KW, 210 KW in progress. ● With help of GEDA, RMC is supporting citizen to install roof top solar power system. 	Scenario - 4	<ul style="list-style-type: none"> ● Solar city master plan to be implemented in order to make Rajkot a solar city ● Solar roof cover across key pedestrian pathways & cycle tracks. ● Total 4.6 MW of solar energy including 2 MW solar plant proposed in ABD. ● 15% household each with 2 KW solar roof top to be implemented. ● Each rooftop in affordable housing scheme will be equipped with 25 kW of solar cells resulting into 1390 kW of clean energy.

RAJKOT SMART CITY PROPOSAL – ANNEXURE II

S.No	Feature	Self-assessment of the 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	Input/Initiative that would move the city from its current status to Advanced status (Scenario 4: Column G)
16	Water supply	Scenario - 2	<ul style="list-style-type: none"> ●Rajkot has intermittent water supply hours and citizens get water for 20 min. per day. ● 100% Qualitative water available to the citizen ● SCADA based Headworks to monitor and control distribution of water. ● 98% Population covered through piped water supply and remaining residing in remote and sparsely area through Tanker ●Per capita water supply of ~128 lpcd ●Water availability improved from 210 MLD to 270 MLD in last three years ● Available WTP capacity 300.50 MLD can cater to expected Population of 20.50 lakhs by year 2026 	Scenario - 4	<ul style="list-style-type: none"> ●24x7 water supply with smart metering and system automation (e.g. SCADA). ●RMC is planning to lay new distribution network of around 220 KMs at outgrowth area under AMRUT Project ●Increase of height Nyari dam will also assure us 30% more storage of water supply. ●Feeder lines for water equity.
17	Water management	Scenario - 3	<ul style="list-style-type: none"> ● Efficient, Effective and Timely Delivery of potable water is achieved through 18 sub zones head works. ●The city has installed bulk water meters at WTPs & Water pumping stations and water level sensors at its Storage Reservoirs, Chlorine analyzers are installed on water distribution lines. ● The data is continuously monitored through SCADA Centre at Central Zone office. ● Reduction in NRW from 40% to 28% in last three years by continuous drive for water theft, wastage and prompt repairing of leakages. ● Mandatory provision for Rain Water Harvesting system for all buildings in city area. 	Scenario - 4	<ul style="list-style-type: none"> ●Smart meters at HH level with remote meter reading and centralized monitoring. ●Leak identification system to significantly reduce internal water leakage ●The unaccounted water losses to be reduced to 10% from 28% by converting old AC pressure pipeline to DI pipelines and installing smart meter

RAJKOT SMART CITY PROPOSAL – ANNEXURE II

S.No	Feature	Self-assessment of the 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	Input/Initiative that would move the city from its current status to Advanced status (Scenario 4: Column G)
18	Waste water management	Scenario - 3	<ul style="list-style-type: none"> ● At Present 72% of population is covered with underground sewerage network in the city ● Ongoing sewerage projects will be accomplished by March 2018 and coverage will reach to 90% of population. ● At present total sewage generation is about 170 MLD and present sewage treatment capacity is 111 MLD and further 2 newly constructed STPs with treatment capacity of 126 MLD (Total 141 MLD on SBR tech) will be commissioned by July 2017. All STPs have ASP/SBR Tech for treating sewage. ● Total Available STP capacity by Dec 2018 will be 317 MLD which will cater to expected Population of 24.860 lakhs in year 2033. 	Scenario - 4	<ul style="list-style-type: none"> ● Development of Tertiary treatment plant at Raiyadhar STP campus for recycling and reuse of treated waste water. ● Provision of double plumbing system for re-use of treated waste water ● Power generation at existing 51 MLD STP at Raiya ● Development of Sludge removal plant for treatment of sludge produced in STP and use the same for manure. ● These STPs will lead to purification of existing sources of AJI-2 and Nyari-2 dam. ● 100% underground sewerage network coverage in 3 years.
19	Air quality	Scenario - 3	<ul style="list-style-type: none"> ● Air quality of the city and surrounding area is monitored by Gujarat Pollution Control Boards regional office in Rajkot. Rajkot city has an action plan to control air pollution. There are two Ambient Air Quality Monitoring devices one at Aji Industrial area and other at GPCB office on Race Course Road. ● The AAQM devices collect intermediate samples 2 times in a week for 24 Hrs. PM10 levels are found to be on higher side due to road dust, burning of fuels etc. The other parameters are within the acceptable limits. ● To restrict the use of vehicular pollution RMC has put in effect 1% vehicle tax, 5% for CNG vehicles & 0% for electric vehicles. ● Conversion of 53500 streetlights to LED lights resulting in reduction of 7000 ton CO2 emission per year. ● RMC has 315 KW of installed solar power leading to 329 ton of CO2 emission per year. 	Scenario - 4	<ul style="list-style-type: none"> ● Aggressive promotion of Non -motorized transport with 1. Setup of cycle sharing ecosystem with 20 bicycle depots with 500 cycle storage and 50 KM cycle track and 2. Promote walking with pedestrian friendly roads, smart pedestrian crossing etc. ● Awareness campaign for green energy, green buildings and NMT through different mediums. ● Installation for AAQM at major junctions for awareness. ● To increase use of public transport by implementing integrated transport with last mile connectivity. ● Increase green cover to improve the air quality with initiatives like plantation drive especially during monsoon. ● RMC has planned ~1600 KW of solar roof tops including (solar roof tops for housing projects) leading to 1569 tons CO2 emission reduction per year.

RAJKOT SMART CITY PROPOSAL – ANNEXURE II

S.No	Feature	Self-assessment of the 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	Input/Initiative that would move the city from its current status to Advanced status (Scenario 4: Column G)
20	Energy efficiency	Scenario - 3	<ul style="list-style-type: none"> Rajkot city converted 2100 streetlights from Sodium lights to LED lights and project is ongoing for converting all the streetlights (around 53500) to LED resulting in 50% energy saving each year and cost saving of around INR 45.5 Cr in a span of 7 years. These streetlights are controlled through CCMS and with switch off mechanism at late night hours. Energy audit is done for HT connection every three years. Plan as already approved for all the public buildings like RMC offices, UHCs, Community Halls, Libraries, Ward offices, pumping stations will be converted to LED. Adopting green buildings norms for affordable housing. Solar heater is mandatory in houses. 	Scenario - 4	<ul style="list-style-type: none"> System Audit is proposed for various systems such as pumping stations. Promote green buildings and energy efficient LED among citizens and encourage real estate industry through reward & recognition mechanism. Electric Vehicles for public transport systems. Evolve Rajkot as Smoke-free city by giving gas connections to each household.
21	Underground electric wiring	Scenario - 1	<ul style="list-style-type: none"> PGVCL has laid 22 km Under Ground 11 KV HT cable For Better & Stable Power Supply and 547 RMU Installed & connected with Central SCADA room to reduce electrical Accident, power theft & outages. 	Scenario - 3	<ul style="list-style-type: none"> 250 km Under Ground HT & 25 km LT Cable Line is planned under IPDS. RMC to collaborate with PGVCL to make a plan for underground wiring for the entire city.
22	Sanitation	Scenario - 4	<ul style="list-style-type: none"> Ranked 7th under the Swachh Bharat Rankings (2016) In Rajkot everybody has access to individual or community sanitation facilities. Declared by MoUD as ODF city 	Scenario - 4	<ul style="list-style-type: none"> Rajkot will work in slum areas to continuously remain as ODF city.
23	Waste management	Scenario - 3	<ul style="list-style-type: none"> Rajkot has 100% door to door solid waste collection system. The waste collected is not segregated at source but recyclable materials are separated. RMC successfully capped first cell of 55000 MT capacity at its scientific landfill site and work is in progress for second cell of 4 Lakh MT capacity. 2 OWCs (Organic Waste converters) with capacity 400 KG per day and 200 KG per day are already in place and 2 more OWCs are planned. A 5 TPD Bio methane plant in partnership with BARC is under implementation and nearing its completion. 	Scenario - 4	<ul style="list-style-type: none"> Integration of solid waste collection with ICCC and GIS and real time tracking of solid waste collection vehicles to be implemented. 100 % of collection, segregated, recycled and scientific disposal of waste is proposed.

RAJKOT SMART CITY PROPOSAL – ANNEXURE II

S.No	Feature	Self-assessment of the 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	Input/Initiative that would move the city from its current status to Advanced status (Scenario 4: Column G)
24	Safety and security	Scenario - 4	<ul style="list-style-type: none"> ● The city has high level of safety for all citizens including women, children and elderly. They feel safe and secure in most parts of city during most time of the day. The city bagged the ABP News Best City award for Law & Order in 2013 ● 24 * 7 Fire brigade service through 7 Fire brigade station with modern equipment and vehicles. ● 40 mtr high Aerial ladder platform to cover high rise buildings. ● RMC has set up and manages Emergency Response Centre (ERC) for Saurashtra region in Rajkot ● Exclusive Ambulance service with 108 helpline for emergency ● 112 CCTVs installed along BRTS corridor, centralized monitoring 	Scenario -4	<ul style="list-style-type: none"> ● 500 fixed cameras, 239 ptz cameras, 180 degree cameras, night vision cameras, ANPR, RLBD, etc. to be implemented with centralized monitoring system, ● Safety in movement - traffic and transportation system, LED streetlights covering entire area



ANNEXURE-III





TABLE OF CONTENT

EXHIBIT NO.	DESCRIPTION
1	CITY PROFILE
2	CITIZEN ENGAGEMENT
3	SWOT ANALYSIS, VISION, GOALS, STRATEGIC FOCUS AREAS
4	OPTIONS FOR AREA BASED DEVELOPMENT
5	ADVANTAGE BRTS CENTRAL DISTRICT (ABCD) - PROJECT BACKGROUND AND SIGNIFICANCE
6	ABCD-DESIGN APPROACH
7	ABCD-MASTER PLAN
8	ABCD-SMART URBAN FEATURES
9	ABCD-TRANSPORTATION NETWORK
10	ABCD-INITIATIVE-1 AND 2
11	ABCD-INITIATIVE-3 AND 4
12	ABCD-INITIATIVE-5 AND 6
13	ABCD-INITIATIVE-7 AND 8
14	PAN CITY SOLUTIONS
15	PAN CITY SOLUTIONS – SOLUTION ARCHITECTURE
16	A DAY IN A LIFE OF CITIZENS
17	SPV STRCUTURE
18	IMPLEMENTATION PLAN
19	FINANCIAL PLAN ABSTRACT
20	IMPACT OF SMART CITY PLAN

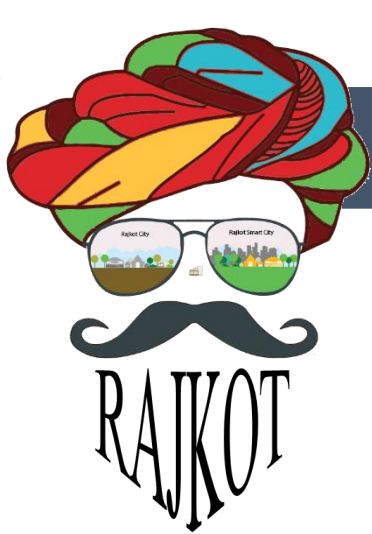
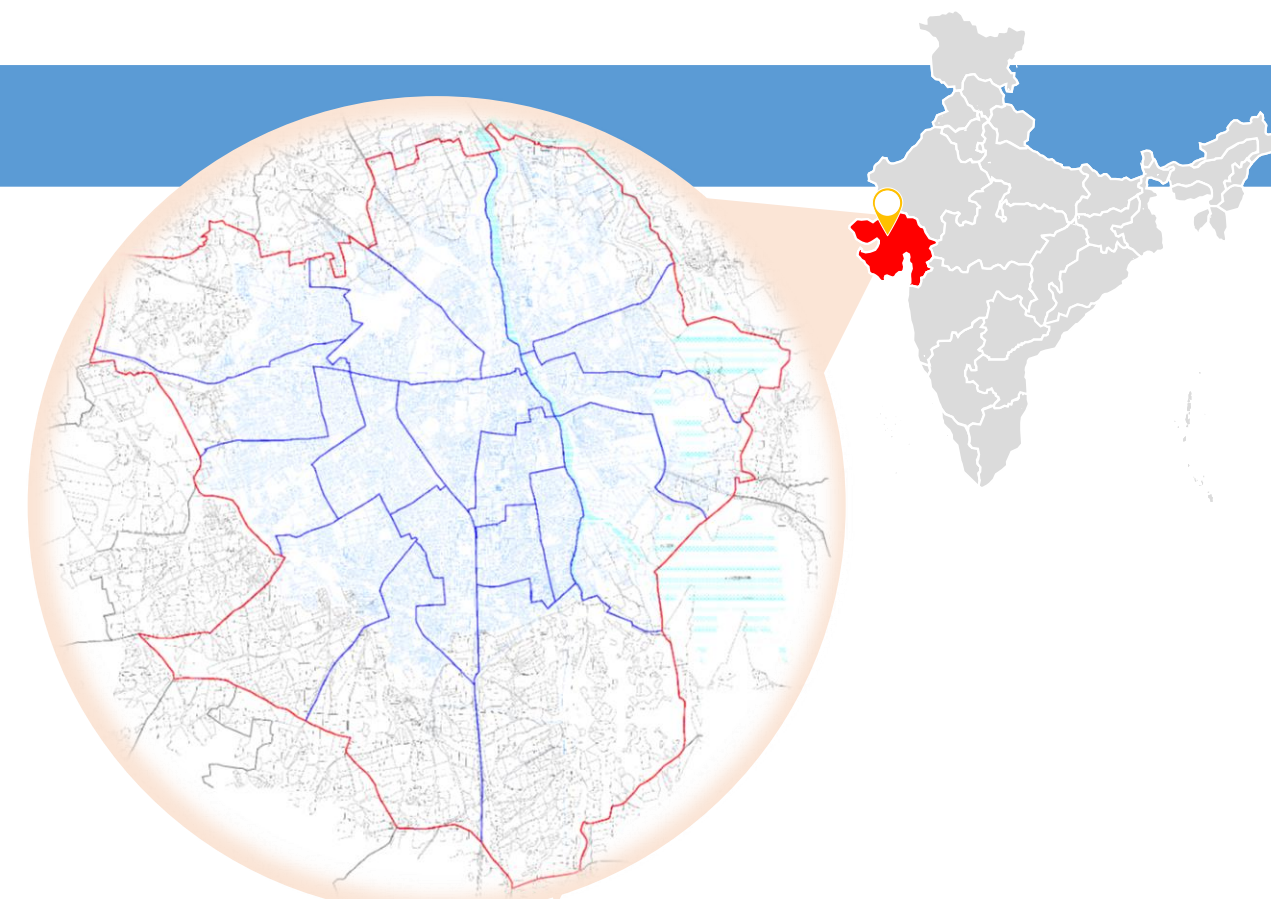


EXHIBIT 1

CITY PROFILE



Water

- **Water availability:** Improved from 210 to 270 MLD
- **Supply:** Improved from 110 to 128 lpcd
- **NRW:** Reduced from 35% to 28%



Waste Water

- **Present coverage:** 72% 90% by Mar-2018
- **Present treatment capacity:** 111 MLD 126 MLD in progress



Solid Waste

- **Swachh Bharat Ranking:** 7th
- **ODF city**
- **5 TPD WTE plant and 2 OWCs**
Swachhagraha: 160 schools, 1.5 lakh students, 70 schools plastic free



Transport

- **Road network:** 2600 Km, 10.7 KM BRTS
- **Fleet:** 90 City Buses, 10 BRTS Buses, 54000 Passengers a day



Awarded Best NMT project UMI Conference 2015 & Best City Bus Service at UMI Conference 2016

Energy

- **Power Supply:** 24 X 7 electricity with 100% grid connection
- **Street light conversion:** 53500 LEDs, 50% energy saving, 45.5 Cr saved
- **MNRE Solar City Programme:** Pilot Solar City, Model DES under UNEP



Safety

- **Surveillance:** 112 CCTV Cameras with Video Analytics and Video Wall



Best LAW and Order city by ABP News, 2013

Environment

- **Generation:** 25 wind mills (37.3 MW), and 56 Solar plants (0.6 MW)
- **Infra:** 21 KM NMT Infra, 48% NMT Modal Share
- **CO₂ emissions:** 7000 ton reduced 53500 LED streetlights



Open Spaces

- **Gardens:** 129, Pradyuman park - Zoological garden.
- **Amenities:** Race course with outdoor and indoor sports facilities and international cricket stadium



Education

- **Facilities:** 520 Schools, 74 Colleges, 13 Engineering and Medical Colleges
- **Proposed AIIMS**



Healthcare

- **Facilities:** 1200 medical facilities, 21 Urban Health Centers, 8 NQAS accredited
- **India's first and only NABH accredited UHC**
- **70 types of medicines through UHCs and Emergency Response system 108**



Culture

- **Population:** 1.3 Million
- **Famous 'Kathiyawadi' Culture and Garba**
- **Kaba Gandhi's Dhello, Mahatma Gandhi School, Rashtriya Shala, Wattson Museum**



Economy

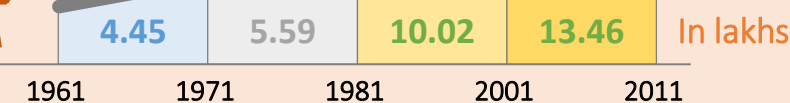
- **22nd-fastest-growing city in the world**
- **Center for Diesel Engines & automobile products, Famous for gems and jewelry, foundry, metal, machine tools and food products.**



City Snapshots



Population Growth



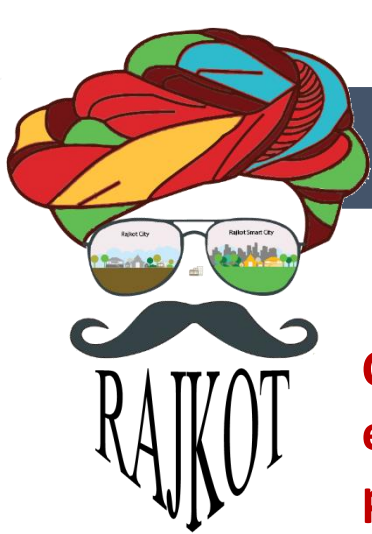


EXHIBIT 2

CITIZEN ENGAGEMENT

Citizen engagement plan

Inclusion

- Citizen group classification based on Age, sex, education, area they live in, trade, community, sector etc.
- Citizen engagement customization to include Youth, Women, Senior citizens etc.
- Online - off-line outreach, Focused

Deliberation

- Understand most important issues for citizens
- Constant feedback from citizens via various mediums
- Consensus building

Refinement

- Refinement of proposal
- Inform stakeholders about refined ideas

Feedback

- Feedback on various initiatives (ABD, Pan City)
- Feedback on overall proposal

Travel & Tourism Convention center
 Eastern Gateway to Gujarat
 Recycling Trade & business
 Smart Rajkot Investor friendly
 New Racecourse Inclusive city
 De-congested Infrastructure
 Hassle free service delivery
 My dream city Digital library
 CCTV surveillance 24/7 water supply
 Lighthouse of Saurashtra Smart cards
 Traffic Management
 Mahatma Gandhi Heritage Sport arena



Smart City Marathon Participation – **65000**
 Smart City Flower show Participation – **450,000**

Rajkot Smart City Mission



Total Participation more than

900,000

people, more than **70%** of total population

Vision contest participants: **100+**
 Smart City Essay participants: **70+**
 Smart Lab competition: **52 groups**
 Smart City cheering stations: **31 teams**

Student seminars participants: **3000+**
 Focus group discussions participants: **2500+**
 Citizen consultation workshops : **20**

RMC's Smart City video outreach: **20000+**
 Ward level consultation outreach: **15000+**

RMC twitter handle reach: **25000+**
 Likes & retweets: **40000+**

Discussions: **2**
 Poll: **3**
 Blog: **1**

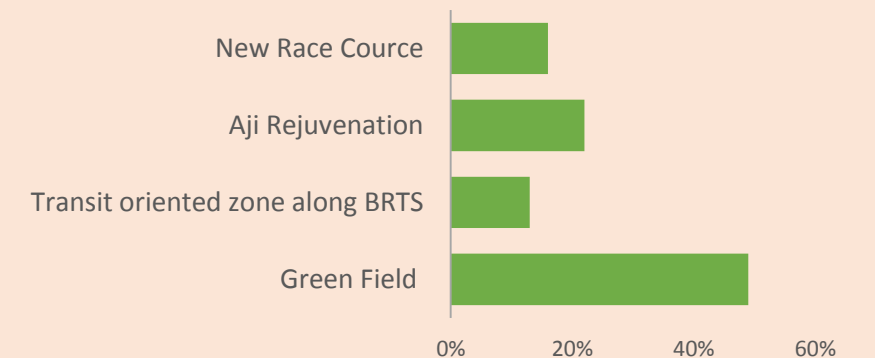
Outreach: **165000+**

Physical Forms: **200000+**
 Responses: **74800+**

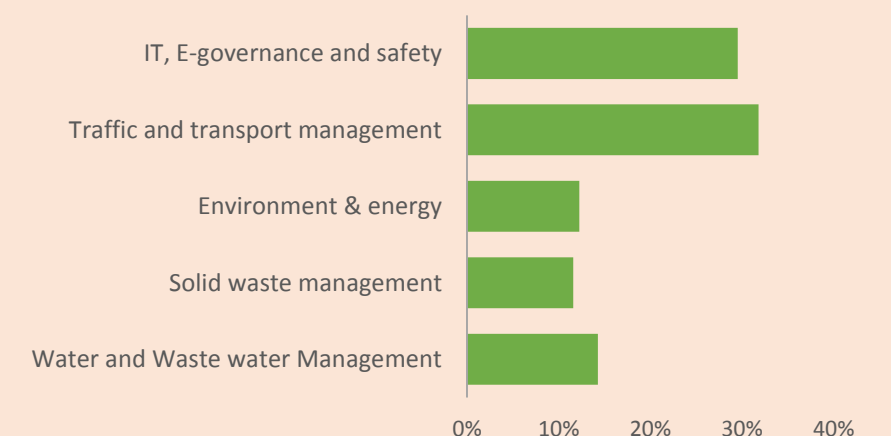
Responses on RMC website: **6000+**
 Website polls: **3**

Mass SMS: **230000+ citizens**
 Radio Jingles: **50 slots**
 News paper advertisements

AREA BASED DEVELOPMENT- CITIZEN POLL



PAN CITY INITIATIVES – CITIZEN POLL



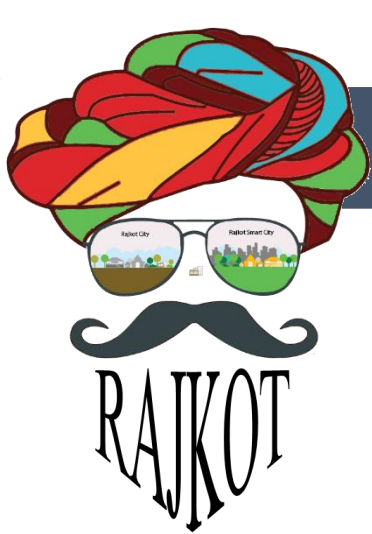


EXHIBIT 3

SWOT ANALYSIS, VISION, GOALS AND STRATEGIC FOCUS AREAS

City Vision



To develop Rajkot as **smart, livable** and **iconic city of Gujarat** with inclusive growth and sustainable development, by leveraging its historical strengths and providing state of the art infrastructure, delivery of services and empowering ecosystem by enabling citizens to realize their dreams.

- **Strong Manufacturing base** driven by entrepreneurial drive
- Local culture and Strategic location
- Good connectivity
- Very good infrastructure
- Education Hub for the Saurashtra region
- Internationally and nationally recognized sustainable initiatives

Strengths

Weakness

- Traffic and Transportation challenges in the central area of the city
- Inadequate tourism facilities and recreational areas
- Absence of well organized trade facilitation and business promotion facilities
- Inadequate marketing and facilities for promotion of local art and economies (gems, handicrafts, textiles etc.)
- Inadequate water sources and Water management
- Slums developed along the water bodies are challenging ecological sustainability

- Availability of Land banks and potential to guide future growth in a planned manner
- Potential to develop a new CENTRAL BUSINESS DISTRICT of Saurashtra and adjoining Kutch region
- Potential to develop as TOURISM CENTER
- Potential to emerge as best destination for Gandhi experiential center
- Potential to leverage on its Environmental sustainability initiatives
- Potential to scale up NMT and public transport system

Opportunities

Threats

- Increasing congestion & traffic in central city area
- Unorganized and ad-hoc development in central parts of the city; Lack of efficient systems to monitor or regulate Rise of slums in western regions
- Water scarce zone, which constrains development of water based industries and supply of water
- Increasing river pollution and air pollution.
- Rising income levels in some sections of the society and over congestion due to rise in private vehicles leading to choking of city
- Lack of infrastructure to support local businesses and arts may impact the city's competitiveness and livelihood of a huge population in the long run

City Goals



Ensure **continuous & assured 24x7 water supply**



To make Rajkot most **energy efficient city** in India and world



Safe & Secure Rajkot with **smart traffic management**



Inclusive city



Solve the **mobility challenge** in the public transportation system



To develop Rajkot as a **world-class tourism center**



Swachh Rajkot with **beautification** of the city



To develop Rajkot as India's one of best **Sports destinations**



Affordable housing



To develop Rajkot as a international **Trade & Business center**

Strategic Focus Areas

➤ **Responsive Governance**

➤ **Safe & Secure Rajkot with smart transport & traffic management**

➤ **Economically Vibrant Rajkot**

➤ **Inclusive Rajkot**

➤ **Sustainable Rajkot with focus on water & energy security**

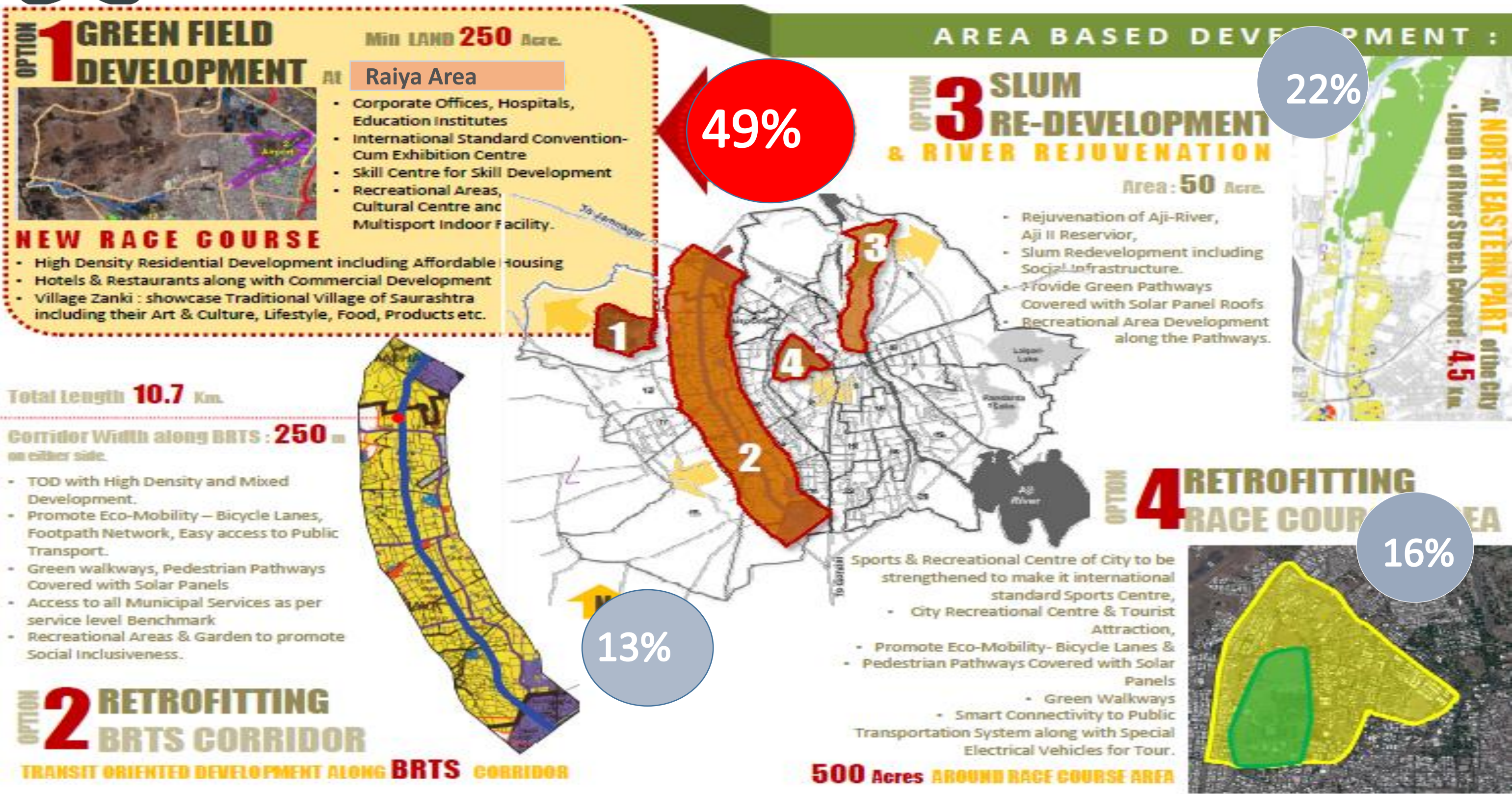
➤ **Swachh Rajkot with livable neighborhoods**



EXHIBIT 4

OPTIONS FOR AREA BASED DEVELOPMENT

ADVANTAGE BRTS CENTRAL DISTRICT



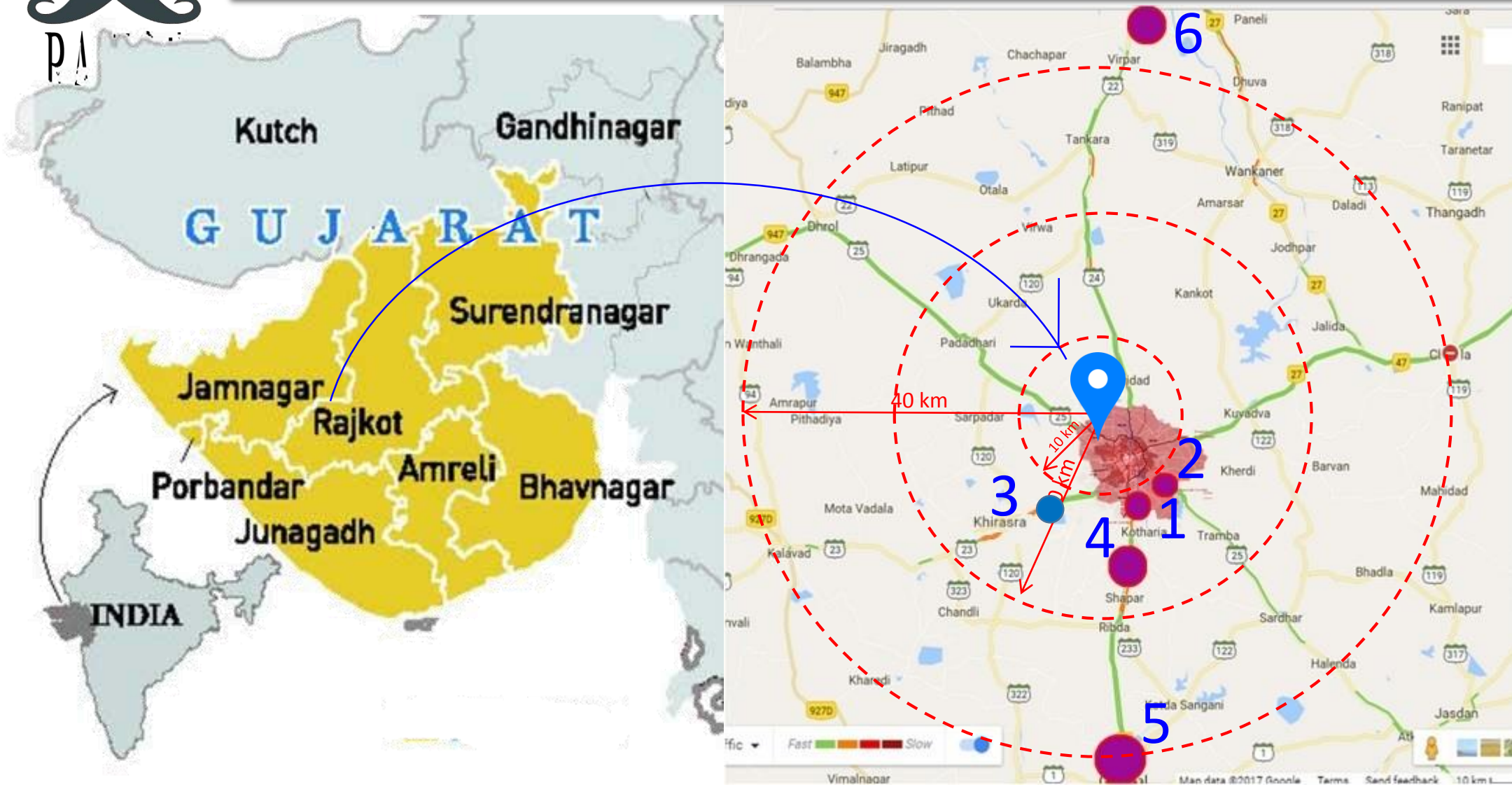
In addition to citizens' preference, green field development proposal is the need of the hour for Rajkot city in order to cater to the City's uni-directional growth towards west in a planned and sustainable manner; in synchronization with ongoing and proposed interventions under various National and state level schemes to improve the service delivery in the exiting areas



EXHIBIT 5

PROJECT BACKGROUND AND SIGNIFICANCE

ADVANTAGE BRTS CENTRAL DISTRICT



PROXIMITY MAP

	Proposed Site	00 km
	Bhaktinagar Industrial area	7.0 km
	Aji Industrial area	10.0 km
	Metoda	12 km
	Shapur Veraval industrial area	16 km
	Gondal	36 km
	Morbi	66 km

Development of ABCD as green field development will have following advantages:

- Affordable housing will meet housing demand for economy housing and also eliminate risk of life hazards in the flood prone areas by Aji river.
- Reinforce the city positioning as regional recreation & tourism by developing world class sports and recreational facilities.
- provision of gram haat will create a platform for local art and craft to exhibit and sell, hence supporting the rural economy to grow.
- Decongestion of central city area by freeing up 102 acres existing race course.
- Create business friendly plug-and-play facilities and infrastructure for industrial and commercial activities, to facilitate new investments

LOCATION AND BACKGROUND	REGIONAL	Morbi city is about 60 km towards north of the city is known for ceramic production. Country's 70% and world's 5% ceramic manufacture. Also manufactures country's 80% CFL. Another city "Gondal" is located towards south of the city 35 km from city is know for oil production and is having around 500 oil mills. Apart from these there are several industrial and trade hubs in close proximity to the proposed site.
	CITY	Rajkot is known for manufacturing of auto parts, submersible pumps, diesel engines etc. The city is having 26000 industrial units. Major industrial estates are Metoda, Shapur Veraval, Bhaktinagar & Aji Industrial estate. Development of smart city with facilities for technical skill enhancement, convention centers, exhibition centers will boost the economy of the city

ECONOMIC AND SOCIAL IMPACT



EXHIBIT 6

DESIGN APPROACH

ADVANTAGE BRTS CENTRAL DISTRICT

DESIGN IDEA

Natural elements + Public Realm

DESIGN CONSIDERATION

- REJUVENATION OF EXISTING LAKES
- INCLUSIVE PLANNING WITH FOCUS ON MIXED USE DEVELOPMENT
- ENHANCEMENT OF SPORTS AND RECREATIONAL FACILITIES
- PROMOTION OF LOCAL CULTURE AND TOURISM
- STRENGTHEN AND DIVERSIFY ECONOMIC BASE

DESIGN STRATEGY

- Eco-friendly mode of transportation within the city
- Sustainable Urban Environment with focus on Water & energy conservation
- Hierarchy in public transport
- Restricted vehicular movement inside the city
- Non vehicular green corridor connecting the water bodies

Economic activity zone

Sports activity zone

Recreational activity zone

Residential zone

Convention + incubation + exhibition + skill development + Hawkers zone

Business + IT park

Hotel

Commercial Facility (mail)

Indoor stadium

Out door stadium

Race course

Swimming pool

Amusement park

Lake Rejuvenation

Parks & gardens

Affordable housing


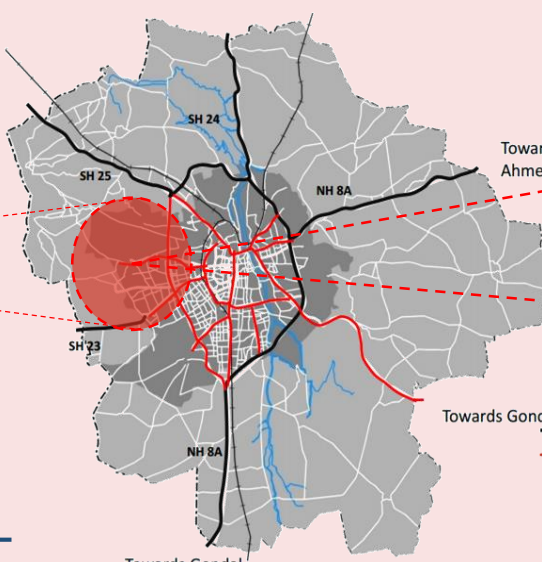
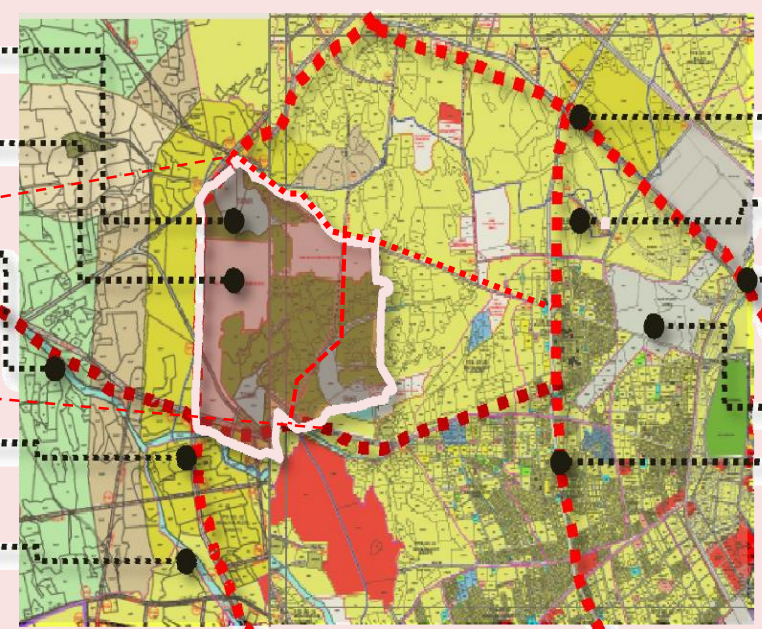
Township

Service apartments


SITE CONTEXT

Greenfield development at Raiya area

The site is a Greenfield measuring about 930 acres located at Westside of the city. Site features -3 existing Lakes Land Jurisdiction – RMC






Projected population



160000

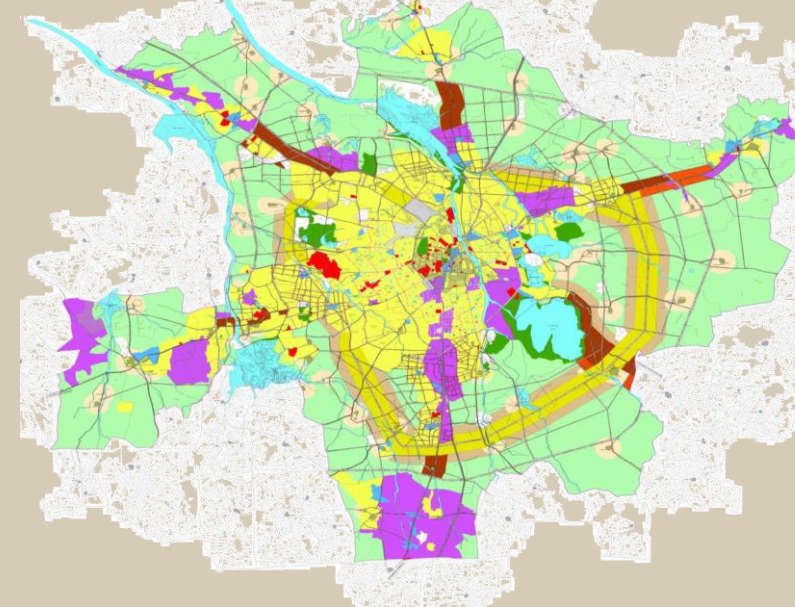
household units



Total 30000 Affordable Housing 5000


LANDUSE

Existing Land use – Rajkot city



Proposed Land use

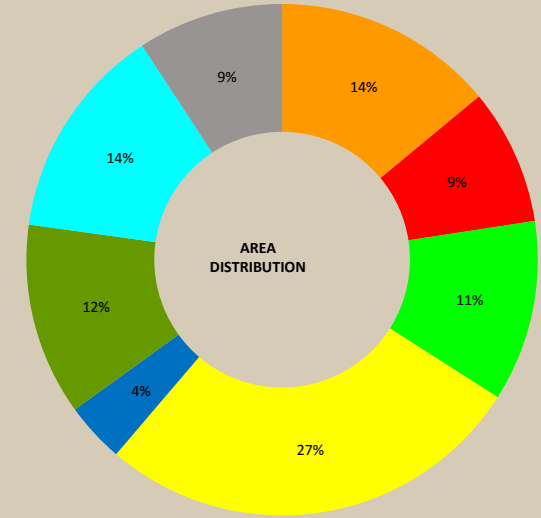
- Business park along outer periphery
- Commercial complex at junction for better connectivity from ABD as well as other parts of the city
- Mixed use retail space and residences along central boulevard
- Recreational spaces located adjacent to the existing lakes.



Legends:

- Mix use Zone
- Residential Zone
- Public buildings
- Commercial Zone
- Recreational Zone
- Utility Zone
- Existing Lake
- Sports Activity Zone

AREA DISTRIBUTION





ADVANTAGE BRTS CENTRAL DISTRICT



LEGENDS

- 1. Existing lake
- 2. Public Park
- 3. Management Convention center & 5 Star Hotel
- 4. Shopping mall
- 5. Multistoried residential complex
- 6. Mixed use (retail + residential)
- 7. Private bungalows
- 8. Affordable housing
- 9. Amusement park
- 10. Public buildings (healthcare and public welfare)
- 11. Retail shops
- 12. Race course
- 13. Incubation center
- 14. Integrated Command and Control Centre
- 15. Sports Arena (indoor stadium, Out door stadium swimming pool)
- 16. Public Building (school, library, learning and development center)
- 17. STP
- 18. Solar park
- 19. Water sports activity center
- 20. Multi level car parking
- 21. Outdoor exhibition center and Gram haat
- 22. Plaza



EXHIBIT 8

SMART URBAN FEATURES

ADVANTAGE BRTS CENTRAL DISTRICT



-  8.5 km BRTS outer ring road
-  Shopping complex
-  Multistory Residential complex housing 30000 household units
-  Bicycle track network
-  2MW capacity Solar energy harvesting park
-  6 km Green pedestrian promenade
-  Multistory business hub
-  1.5 km 60 m wide Boulevard
-  Public parks
-  Healthcare facility
-  Amusement Park
-  NMT road
-  Gram haat
-  Race course
-  Art and craft exhibition center
-  Multi level car parking 300 parking capacity each
-  Educational building
-  Sports city arena with indoor and outdoor stadium
-  51MLD capacity existing STP
-  Skill development center & world class library
-  Management Convention centre & 5 star hotel
-  Integrated Command & Control Centre

LEGENDS

-  Mixed use
-  Public Buildings
-  Residential
-  Utility
-  Commercial building



EXHIBIT 9

TRANSPORTATION NETWORK

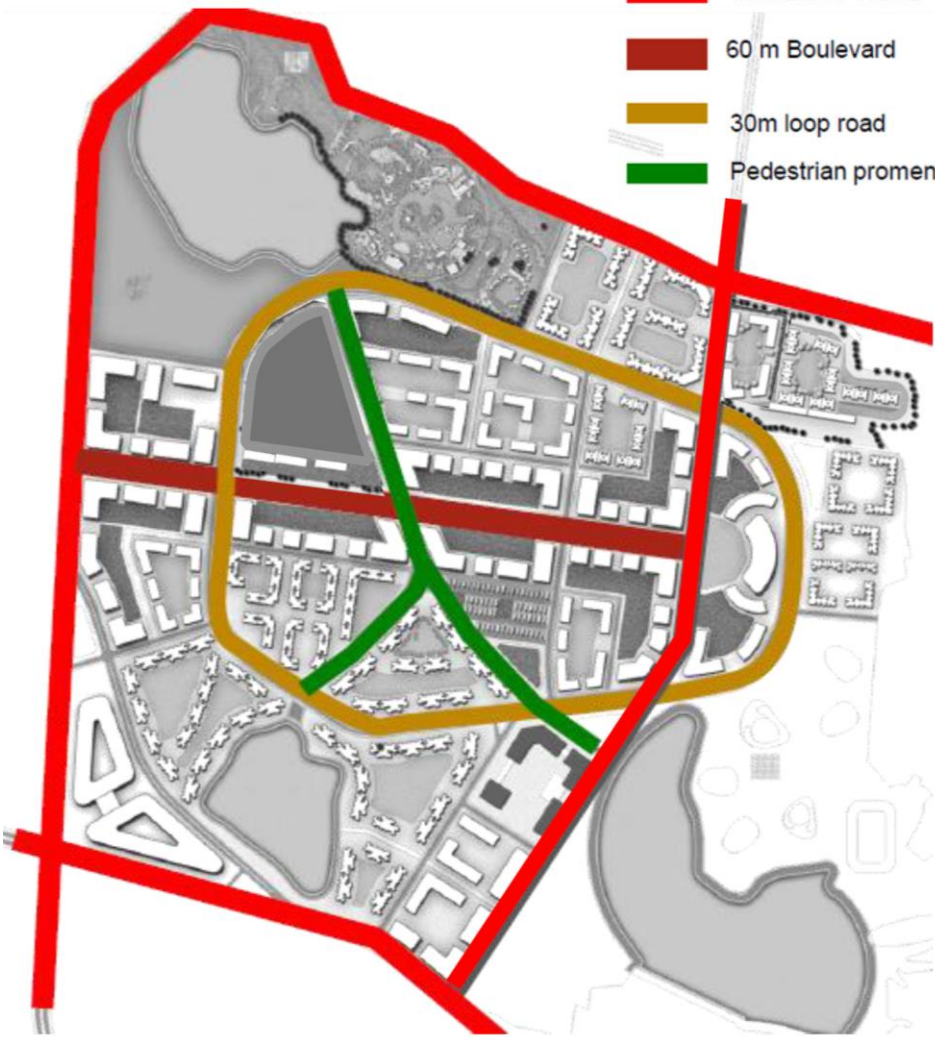
ADVANTAGE BRTS CENTRAL DISTRICT

ROAD TYPOLOGIES

- 45 M WIDE BRTS CORRIDOR RUNNING ALONG PERIPHERY
- INNER LOOP ROAD CONNECTING ALL CLUSTER
- 60 M WIDE AXIAL BOULEVARD WITH RETAIL/COMMERCIAL SPACES ON SIDES.
- GREEN PROMENADE CONNECTS EXISTING LAKES
- DEDICATED CYCLE TRACKS IN ALL INTERNAL ROADS
- DIFFERENTLY ABLE FRIENDLY TRANSPORTATION SYSTEM

Legends:

- █ 45m BRTS ROAD
- █ 60 m Boulevard
- █ 30m loop road
- █ Pedestrian promenade



ROAD NETWORK



- 8.5 km BRTS corridor
- 5km cycle track at racecourse
- 6km pedestrian green corridor
- 1.5km central boulevard



LEGENDS

- P MULTILEVEL CAR PARKING
- NMT CORRIDOR



LEGENDS

- BICYCLE TRACK
- C BICYCLE STAND



Typical road section (60 m wide)



Smart Bus stops



Pedestrian traffic



- Safe and well connected pedestrian walkways.
- Green vistas along walkways.



Bicycle traffic



- Dedicated cycle tracks in all internal roads.
- 5 km cycle track network in race course
- Bicycle sharing and rental facility
- 8 Cycle stands.
- 400 cycles



Typical section (Green promenade)



EXHIBIT 10

1: SUSTAINABLE ECONOMIC DEVELOPMENT & EMPLOYMENT GENERATION

ADVANTAGE BRTS CENTRAL DISTRICT

PROJECTS	<ol style="list-style-type: none"> 1. Management Convention Centre & Five Star Hotel 2. Indoor & Out door Exhibition 3. Incubation Centre 4. PROJECT KAUSHALYA 	FACILITIES	<ol style="list-style-type: none"> 1. 40 000 Sqm area management convention centre & 5 Star Hotel 2. 30 000 sqm area for indoor & Outdoor exhibition 3. 10000 Sqm area incubation centre 4. 5000 Sqm area skill Development centre 5. Space with All infrastructures for 500 Hawkers
	<p>WARDHAN SWAMAAN: Skill Development Centre & World class Library</p> <ol style="list-style-type: none"> 5. PROJECT UTHHAN: Smart Hawker's zone 		OUTCOME



2: SMART AND ROBUST INFRASTRUCTURE



Waste Water Recycle – 25 mld



Tertiary Treatment near STP



1200 LED Smart Street Lights



E-Public Toilet

PROJECTS	<ol style="list-style-type: none"> 1. Smart Electricity: <ul style="list-style-type: none"> ▪ Smart Grid distribution with redundant power supply ▪ Underground cable connectivity 2. Water Supply: <ul style="list-style-type: none"> ▪ 24x7 water supply 3. Waste Water: <ul style="list-style-type: none"> ▪ Dual Plumbing system ▪ 25 MLD Tertiary treatment ▪ Reuse of treated water 4. Storm Water Drainage: <ul style="list-style-type: none"> ▪ Collection network ▪ Level sensor at lakes with flood alert 	PROJECTS	<ol style="list-style-type: none"> 5. SWM & Sanitation: <ul style="list-style-type: none"> ▪ Smart bins ▪ 5 TPD waste to energy & OWC ▪ PROJECT SANMAN: 50 e - public toilets 6. Road: <ul style="list-style-type: none"> ▪ 19.5 km road network (30 to 60 mt. wide) including 8.5 km BRTS ▪ All roads have exclusive cycle track & pedestrian path 7. Other infrastructure: <ul style="list-style-type: none"> ▪ 40 km Utility duct for services ▪ 1200 Smart LED Street light ▪ 2 Environment monitoring station
-----------------	---	-----------------	--



EXHIBIT 11

3: INTELLIGENT TRAFFIC & INTEGRATED TRANSPORT MANAGEMENT

ADVANTAGE BRTS CENTRAL DISTRICT

PROJECTS

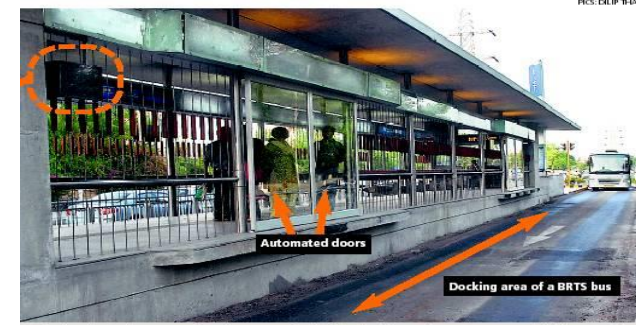
1. 16 Nos BRTS shelter and 20 AC. buses
2. 5 nos. Multi Level Car Parking at key locations to reduce traffic congestion inside the city
3. 51 km. Cycle track network to promote eco friendly transportation within city limit
4. 6 km. Dedicated cycle track at racecourse
5. 8 Nos cycle parking stand along with facility for charging station for e rickshaw



Minimum 300 car capacity Multi level car parking at 5 locations



Cycle track along major road



16 nos BRTS bus shelter

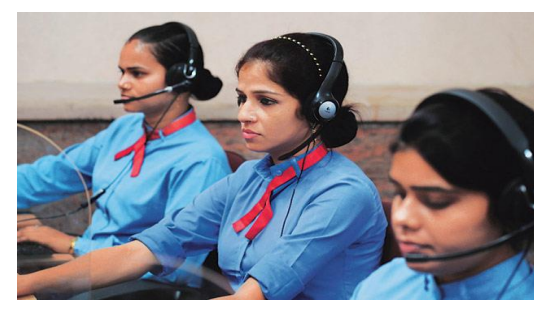


8 nos cycle parking stand

4: SAFETY & SECURITY FOR ALL



Smart CCTV Surveillance



Help Line Centre



Verangana Exp. Vehicles with Women staff



6 km Green pathways



Model Fire Station



F.O.B with facilities like ramp and lift for divyang and senior citizen

PROJECTS

1. Smart CCTV surveillance
2. PROJECT Veerangana Express exclusively for women & children
3. 24*7 Help Line Centre
4. Model Fire Station
5. Green way and pedestrian pathways
6. Foot Over bridge with escalator and lift for Senior Citizens and Divyang



EXHIBIT 12

5: HOUSING AND SOCIAL INCLUSION

ADVANTAGE BRTS CENTRAL DISTRICT

PROJECTS

1. Affordable housing: 3500 nos LIG units and 1500 nos EWS units as affordable housing which is 16% of total housing units. Ground floor units reserved for divyang and families with senior citizens only.
2. Project SAISHAV: 5 nos model Anganawadi for Economical weaker sections.
3. E-education: 2 nos school with digital education facility
4. Health centre: 2 nos NABH accredited health centre
5. Smart e library
6. Community Centre
7. PROJECT SAKSHAM RAJKOT: Shelter homes for women
8. Citizen Connect Program



Smart school



Smart Model Anganwadi



Citizen Connect program

6: ICONIC DEVELOPMENT



Race course



Lake Rejuvenation



Sports arena



Amusement Park



Gram Haat



Public Parks

PROJECTS

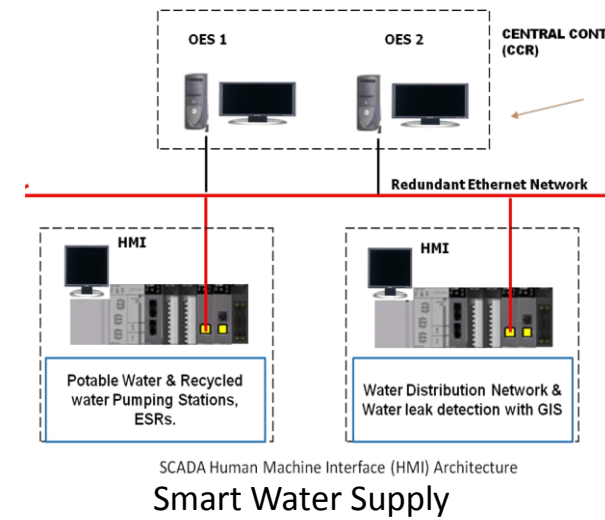
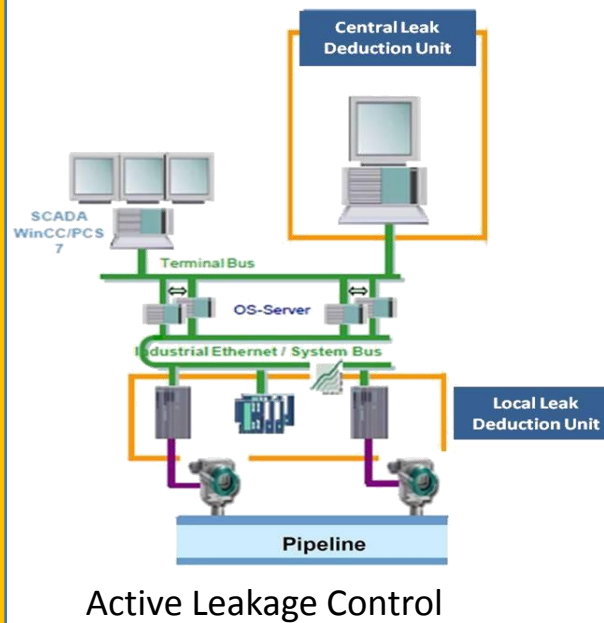
1. Rejuvenation of three lakes and amusement park.
2. Gram Haat & Cultural centre.
3. 112 acres - Sports Arena including 1 indoor stadium & 2 out door stadium
4. Parks & gardens- 30 acres
5. Racecourse- 100 acres



ADVANTAGE BRTS CENTRAL DISTRICT

PROJECTS

- 1. Water Supply :** 12000 Smart Consumer meters, SCADA, leak detection, NRW~10%
- 2. Power:** 30000 Smart Consumer meters.
- 3. High Speed Wi-fi :** 100% internet coverage
- 4. GIS mapping** of properties, utilities and service
- 5. Information Kiosks** at 50 places



High Speed WIFI



Information Kiosk

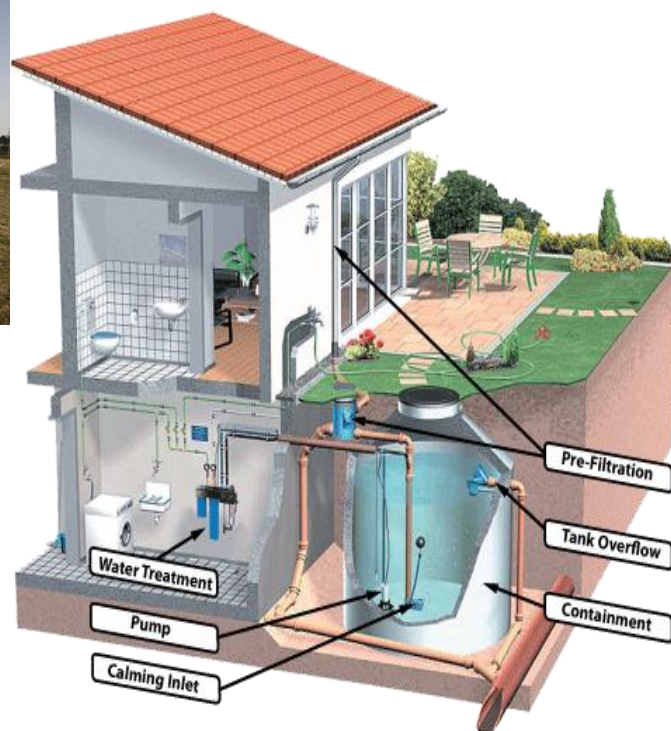


Bulk Meter

8: ENVIRONMENTAL SUSTAINABILITY



2MW capacity solar park



Rain water harvesting at house hold level



Mandatory solar roof top for all public buildings



100 % building with Green Building certification

PROJECTS

- 1. Solar Project :** 2 MW solar park, 30 km long cycle track with solar roof top, Mandatory solar roof top to meet minimum 10% energy requirements for all buildings.
- 2. Rain Water harvesting:** All buildings with RWH and Percolation pit at public places.
- 3. All building will be green building :** Dual plumbing, rain water harvesting in all buildings, Must have Green building certification.
- 4. Implementation of Green Building Program**

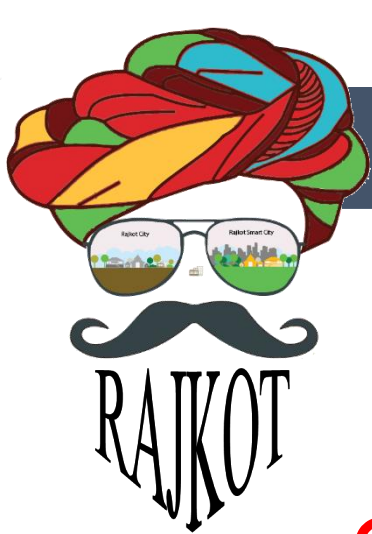


EXHIBIT 14

PAN CITY SOLUTIONS

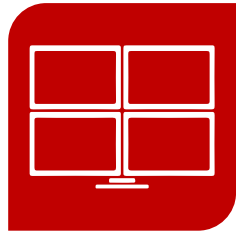
- 1 In Bus Passenger information system at bus stop
- 2 Smart Parking
- 3 'Rajkot Mitra' -Smart card for payment.
- 4 Smart bicycle sharing with auto dock and dispatch
- 5 ANPR, RLVD
- 6 Solar Wireless traffic controller
- 7 Integrated command and control centre – ICC
- 8 CCTV surveillance
- 9 Online Service Delivery (e-governance & m-governance)
- 10 Digital display
- 11 Public announcement system
- 12 Environment monitoring system
- 13 City Wi-Fi
- 14 Integrated SCADA systems for water distribution network & WTP
- 15 Integrated SCADA systems for Sewage management
- 16 GPS enabled Solid waste trucks
- 17 GPS enabled smart waste bins





EXHIBIT 15

SOLUTION ARCHITECTURE



Dashboard



Web browser



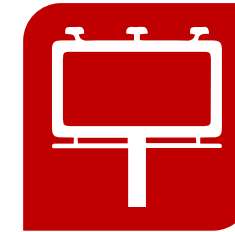
Mobile Device



Service Desk



Online service delivery



Digital Display



Public announcement system



Rajkot business portal

ERP

GIS

ICCC & ER



Data Centre & Disaster Recovery Site



City Wide Wi-Fi & optical fiber Network



Water- SCADA & smart metering



RFID Based Waste Bins



GPS integrated waste collection trucks



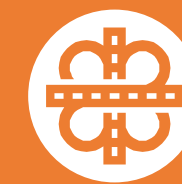
CCTV



Environment monitoring system



GPS & PIS



ANPR , RLVD, e-challan for traffic management



Smart Parking



EXHIBIT 15

A DAY IN LIFE OF CITIZENS



SENIOR CITIZEN



HOUSEWIFE



TOURIST



STUDENT

06:00	Takes a walk on green pathways	Registers a complaint for inconsistent water flow.	Hires a bicycle	Recharges smart card through one city one app
08:00	Books an appointment for consultation at urban health center through mobile app.	Checks vaccination schedule for her child on city portal/app	Uses city Wi-Fi for browsing, books a ticket for museum through Rajkot mobile app	Checks scholarship list on one city one app
10:00	Takes an e-rikshaw to UHC, Uses intelligent pedestrian crossing to cross the road	Drops child in model anganwadi	Takes BRTS to CBD	Goes to smart school
13:00	Calls senior citizen helpdesk to complain about unruly behavior in neighborhood	Buys fresh vegetables from hawker's zone	Visits Gram haat	Sees somebody jumping red signal and getting caught and given e-challan
15:00	Watches air quality data on screen	Listens to public announcement	Visits amusement park	Visits Sports Arena for watching a match
17:00	Visits exclusive park for senior citizens	Takes Veerangana express	Visits sports arena for watching hockey match	Visits convention and exhibition center with his parents
20:00	Checks the latest books available in e library	Takes skill development course online	Takes a boat ride in the lake	Visits Exclusive women and children park along with his mother

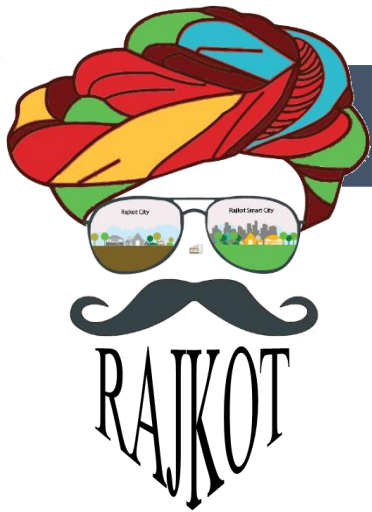
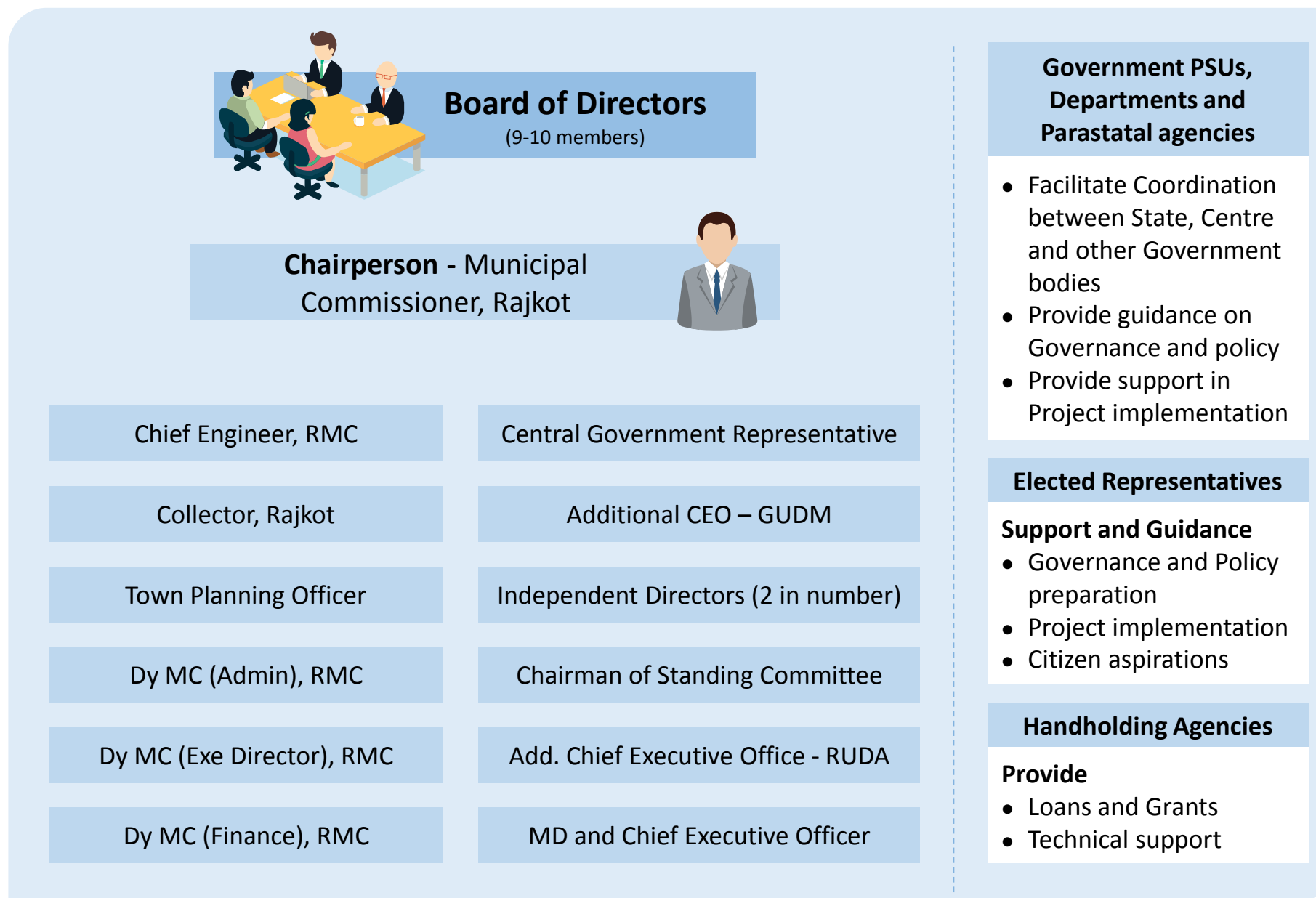


EXHIBIT 17

SPV Structure



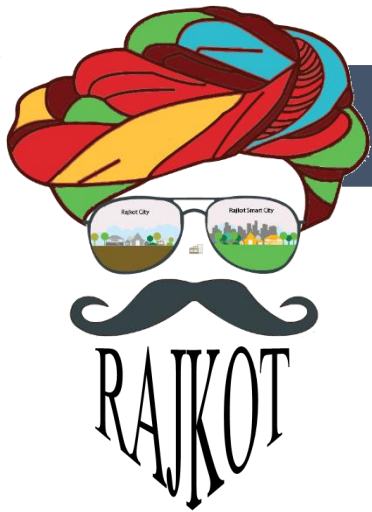


EXHIBIT 18

IMPLEMENTATION SCHEDULE

Consultancy firm appointment

June 2017

June 2017

ABD: Master planning & DPR

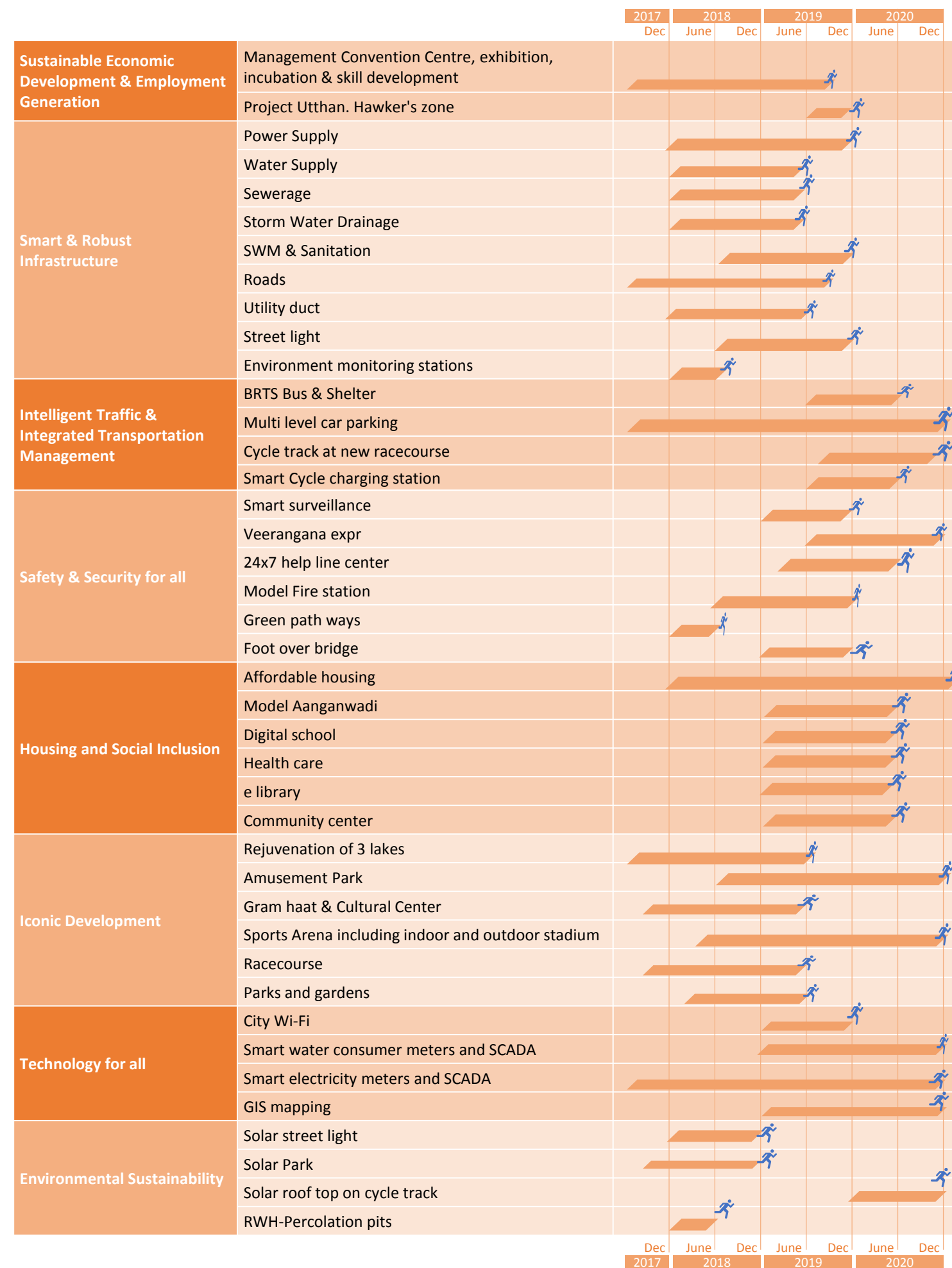
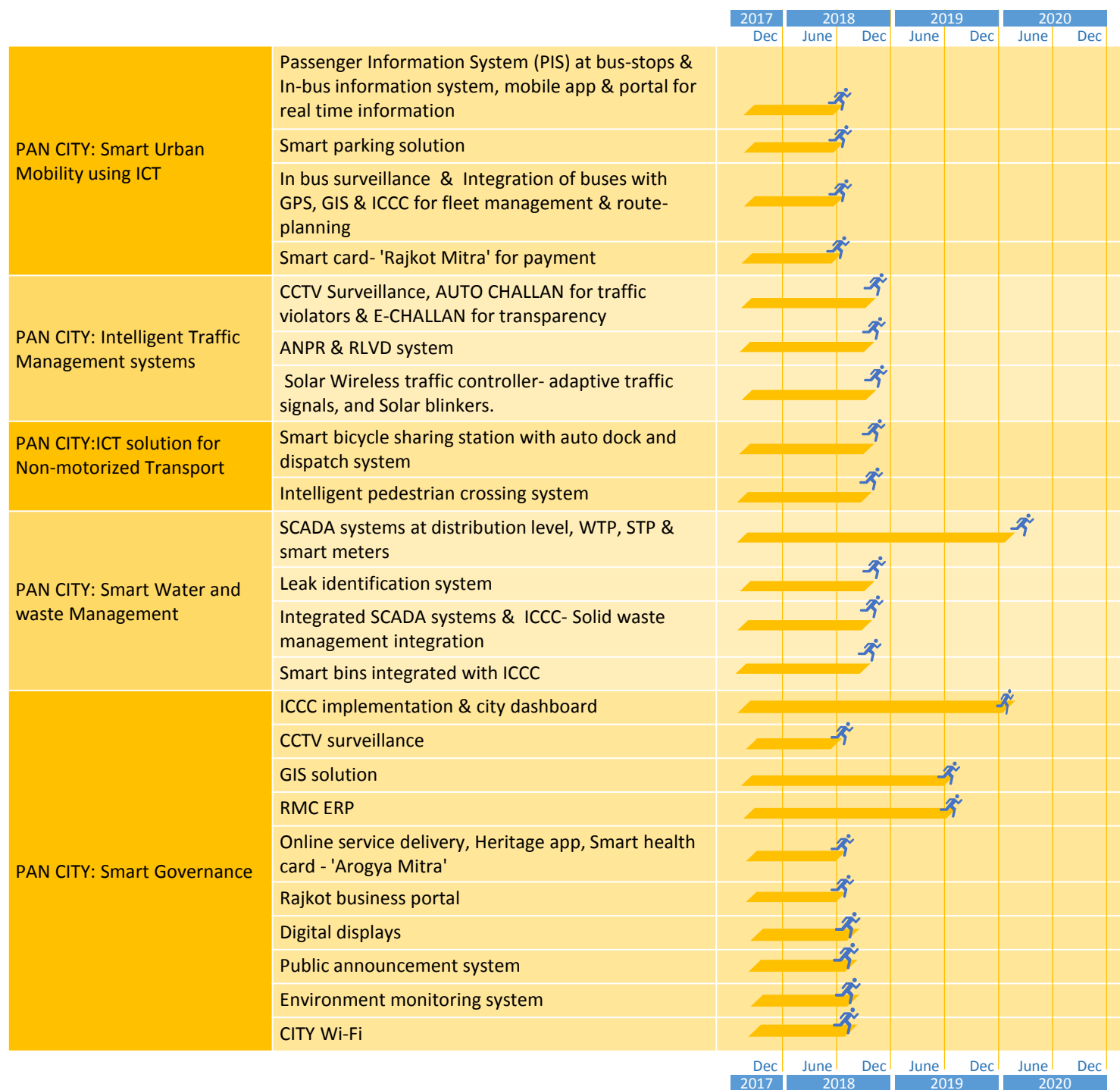
July 2017

December 2017

Pan city: Master Plan preparation

July 2017

August 2017



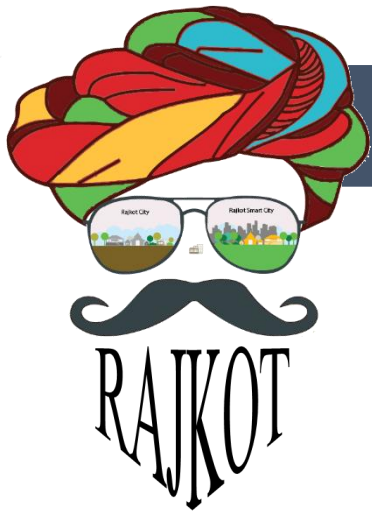
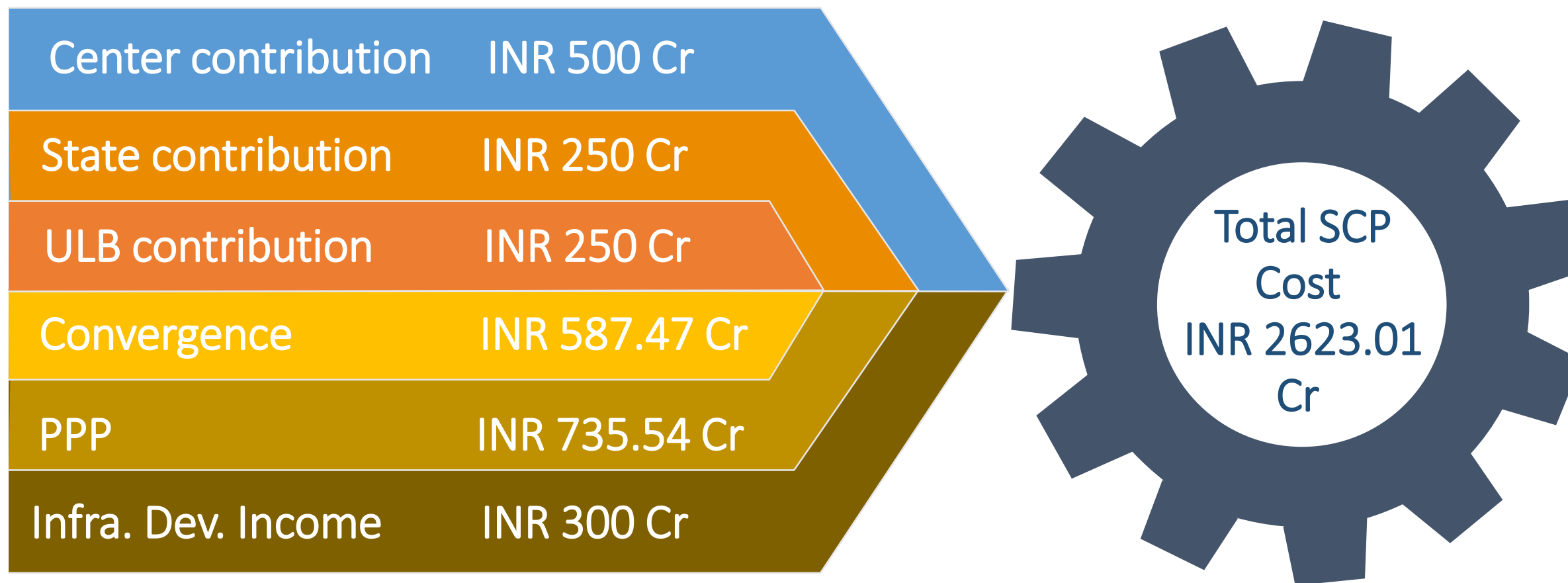
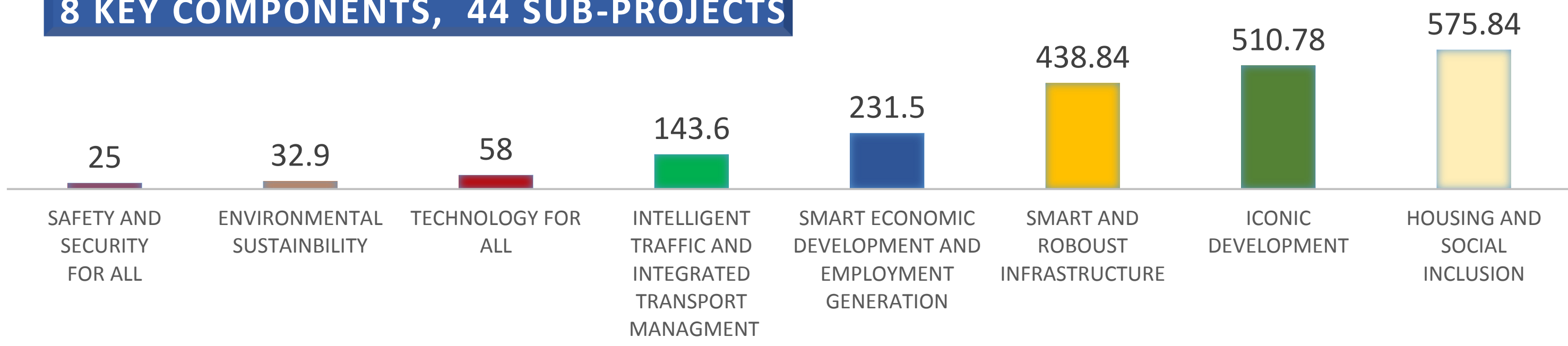


EXHIBIT 19

FINANCIAL PLAN ABSTRACT



**ABCD TOTAL COST INR 2177.46 CR.
8 KEY COMPONENTS, 44 SUB-PROJECTS**



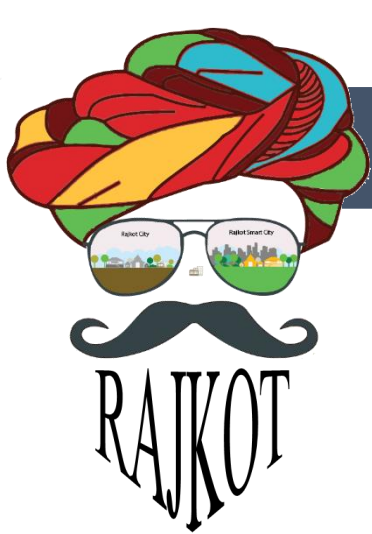
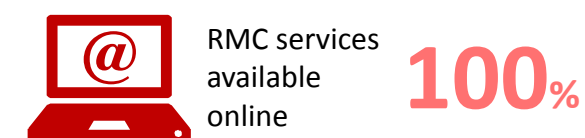
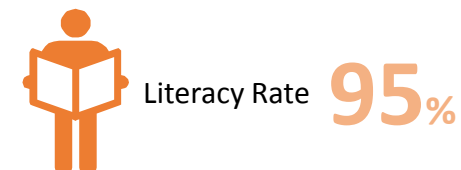
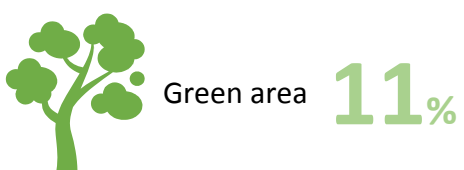
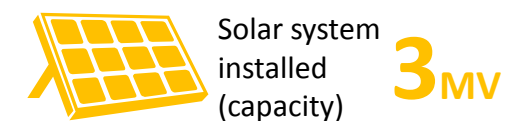
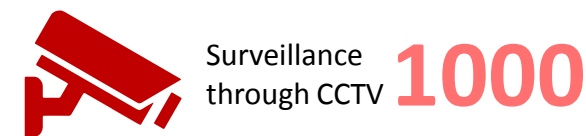
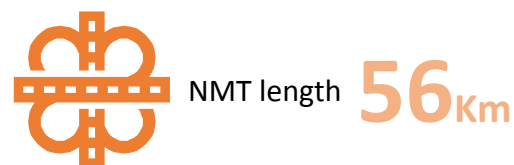
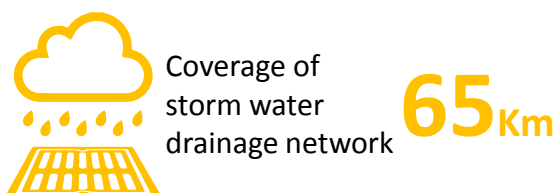
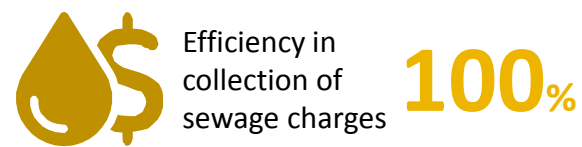
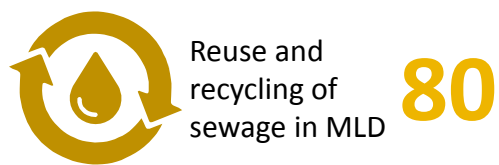
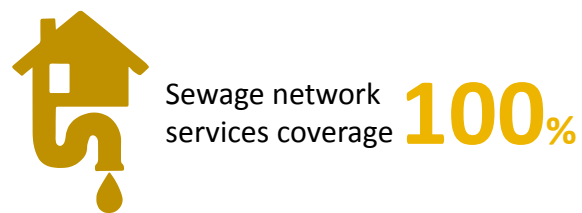
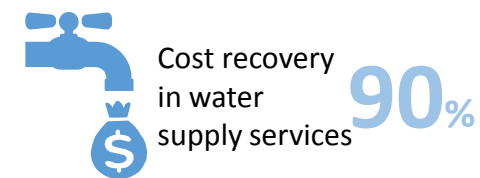
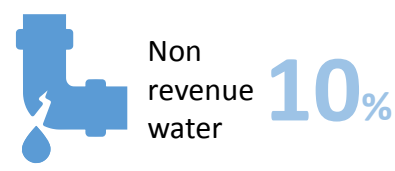
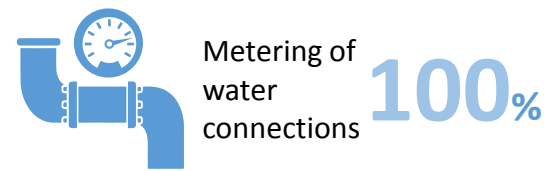
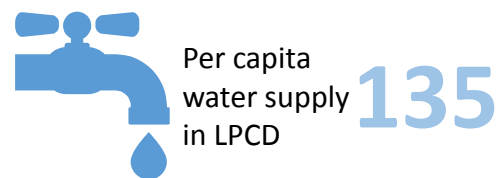


EXHIBIT 20

IMPACT OF SMART CITY PLAN



"I am really happy with exclusive senior citizens park that has opened where I can relax and enjoy with people like me. I take a stroll in the green walkways on the lake front every evening. The new 24*7 helpline has made me assured that help will always be available when I need it."

- Chandubhai, Farmer

"New veerangana express has made my journey safer and pleasant and I dont need to worry about day to day travel anymore. Water issues have almost vanished in thin air and if I face any issues, it is so easy to register a complaint and resolution happens in no time. My life has become so much easier, so much better."

- Manjula ben, Housewife



"I work in new CBD area which is at par with any high tech city in the world. International business seminars, trade expos and exhibitions in new management and convention center and exhibition centre has brought world businesses right at my doorstep. New skill development centre helps me upgrade my skills with time. I feel so confident about my future in Rajkot now."

- Kaushik, Professional





SMART CITY PROPOSAL ANNEXURE IV

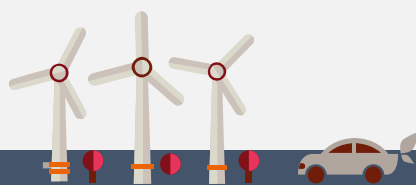


TABLE OF CONTENTS

EXHIBIT NO	DESCRIPTION
1	Resolution of the Corporation/Council approving Smart City Plan including Financial Plan
2	Resolution of the Corporation/Council for setting up Special Purpose Vehicle
3	Minutes of Task Force meeting for agreement/s with Para Statal Bodies, Boards existing in the City for implementing the full scope of the SCP and sustaining the pan-city and ABD
4	Institutional structure of the proposed SPV under SCM
5	GUDM letter to MoUD regarding Rajkot SCP Round III proposal submission
6	HPSC Meeting- Minutes of Meeting
7	Detailed Financial Plan
8	Mock Scores by WRI
9	RAJKOT City KPIs- Current and Aspiration
10	RUDA's part plan of DP indicating proposal for allocation of plot for Smart City Node and Notification of Gujarat Urban Planning and housing department for modification in DP
11	Capacity building project for Low carbon and Climate Resilient Building in India
12	Consent from Rajkot Rajpath Limited (RRL) for extension of BRTS corridor to the proposed ABD site
13	MoU with Sports Authority of Gujarat for development of Sports training facility
14	MoU with ICLEI for Promotion of 'Low Emission Urban Development Strategies'
15	Preparation of Master Plan for Solar city
16	Livability Index Report
17	MoU with Aji (G.I.D.C) Industrial Association
18	MoU with Builders Association of Rajkot
19	MoU with Indian Institute of Architects – Rajkot
20	MoU with Rajkot Chamber of Commerce and Industry
21	Letter of support - Gujarat Gas Limited
22	Letter of Support from Educational Institutions - a. GEC RAJKOT b. VVP ENGINEERING COLLEGE c. DARSHAN INSTITUTE OF ENGINEERING & TECHNOLOGY d. SRI LABHUBHAI TRIVEDI INSTITUTE OF ENGINEERING & TECHNOLOGY e. INDUBHAI PAREKH SCHOOL OF ARCHITECTURE f. ATMIYA INSTITUTE OF TECHNOLOGY & SCIENCE
23	RAJKOT SCP Presentation to HPSC of Govt. of Gujarat
24	HUDCO Design Award 2016
25	Best Urban Transport Award
26	Building Efficiency Accelerator (BEA) Workshop for Rajkot Presentation
27	LIST OF ACRONYM

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

રાજકોટ શહેરને સ્માર્ટ સિટી તરીકે વિકસાવવા માટે સ્માર્ટ સિટી પ્લાન મંજૂર કરવા અંગે કમિશનરશ્રીનો પત્ર નં.૩૮૦ તા.૨૦/૦૩/૨૦૧૭ લક્ષમાં લેવામાં આવે છે.

આ સંબંધમાં રિપોર્ટ કરતા કમિશનરશ્રી જણાવે છે કે, ભારત સરકારશ્રી દ્વારા સમગ્ર દેશમાં ૧૦૦ શહેરોને સ્માર્ટ સિટી તરીકે વિકસાવવાનું આયોજન કરવામાં આવેલ છે. જેમાં રાજકોટ શહેરનો સમાવેશ કરવામાં આવેલ છે. સ્ટે.ક.ઠ.નં. ૨૧૧ તા.૧૭/૦૭/૨૦૧૫ તથા જ.બો.ઠ.નં.૪૭ તા.૧૯/૦૮/૨૦૧૫ તળેના ઠરાવથી રાજકોટ મહાનગરપાલિકા દ્વારા રાજકોટ શહેરને સ્માર્ટ સિટી તરીકે વિકસાવવાનું મંજૂર કરવામાં આવેલ છે. રાજકોટ મહાનગરપાલિકાએ ત્રીજા રાઉન્ડમાં પસંદગી થવા માટે મોડીફાઇડ સ્માર્ટ સિટી પ્રપોઝલ ૩૧ માર્ચ-૨૦૧૭ સુધીમાં રજૂ કરવાની થાય છે. જે અન્વયે MoUDના Official Memorandum કે-કે-૧૫૦૬૧૬/૧૫૭/૨૦૧૫-એસ.સી.એસ.સી.(વોલ્યુ.II) અન્વયે સ્માર્ટ સિટી પ્રપોઝલ મોડીફાઇડ/અપગ્રેડ/રીવાઇઝ કરવા માટે કન્સલ્ટન્ટની નિમણૂક કરવા જણાવેલ છે. જે અન્વયે ગુજરાત રાજ્ય માટે MoUD તથા GUDM દ્વારા નક્કી કરાયેલ કન્સલ્ટન્ટશ્રીઓ પૈકી, મે. Tata Consulting Engineers Ltd. + PwC (JV)ની સ્માર્ટ સિટી પ્રપોઝલ પેનલ એક્સ્પર્ટના સુચનો અનુસાર મોડીફાઇડ/અપગ્રેડ/રીવાઇઝ કરવા માટે કન્સલ્ટન્ટ તરીકે સ્થાયી સમિતિ ઠરાવ નં.૩૫૮ તા.૨૦/૦૧/૨૦૧૭ તથા ૩૨૧ તા.૩૦/૦૧/૨૦૧૭થી નિમણૂક કરેલ છે. જે અન્વયે સદરહુ કન્સલ્ટન્ટશ્રી દ્વારા સ્માર્ટ સિટી પ્રપોઝલ મોડીફાઇડ/અપગ્રેડ/રીવાઇઝ કરવાની કામગીરી કરવામાં આવેલ છે. જે ૩૧ માર્ચ-૨૦૧૭ સુધીમાં ભારત સરકારશ્રીના MoUD સમક્ષ મંજૂરી અર્થે રજૂ કરવાની થાય છે.

“સ્માર્ટ સિટી મિશન” અંતર્ગત રાજકોટ મહાનગરપાલિકા દ્વારા “સ્માર્ટ સિટી બેસ્ટ વિઝન & ગોલ નક્કી કરવા ઇનોવેટીવ વ્યુહરચના શહેરીજનો પાસેથી મેળવવા બહોળી પ્રસિદ્ધિ અર્થે રાજકોટથી પ્રસિદ્ધ થતા દૈનિક વર્તમાનપત્રોમાં, રેડ એફ.એમ.રેડીયોમાં જીંગલ મારફત, બી.આર.ટી.એસ. રૂટ પર પર્યાપ્ત જગ્યા પર બેનર લગાવી જાહેરાત કરીને સુચનો મેળવવામાં આવેલ જે અન્વયે “ગાર્ડન એક્ઝીબીશન કમ ફ્લાવર શો-૨૦૧૭” નિમિત્તે તા.૧૭-૦૨-૨૦૧૭ના રોજ સ્માર્ટ સિટી રાજકોટ માટે વિઝન તથા ગોલ જાહેર કરવામાં આવેલ.

સ્માર્ટ સિટી મિશન અંતર્ગત સ્માર્ટ ઉપાયો ૧.એરિયા બેઇઝડ ડેવલપમેન્ટ (ABD) ૨.પાન સિટી સ્માર્ટ સોલ્યુશન નક્કી કરવાના ભાગરૂપે એરિયા બેઇઝડ ડેવલપમેન્ટ (ABD)માં રાજકોટ શહેરનાં જુદા જુદા ૪(ચાર) વિસ્તારો (૧) ગ્રીન ફીલ્ડ ડેવલપમેન્ટ-ન્યુ રેષકોર્ષ (૨) રેટ્રોફિટીંગ-ટ્રાન્ઝીટ ઓરીએન્ટેડ ઝોન એલોગ બી.આર.ટી.એસ. કોરીડોર (૩) સ્લમ રી-ડેવલપમેન્ટ & રીવર રીઝુવિનેશન (૪) રેટ્રોફિટીંગ-૫૦૦ એકર એરાઉન્ડ ધી રેષકોર્ષ એરિયા તથા પાન સિટી સ્માર્ટ સોલ્યુશનમાં જુદા જુદા ૫(પાંચ) વિસ્તારો (૧) પાણી વિતરણ તથા ગંદા પાણીનો નિકાલ (૨) ઘન કચરાના નિકાલનું વ્યવસ્થાપન (૩) પર્યાવરણ અને ઉર્જા (૪) વાહન અને પરીવહન વ્યવસ્થાપન (૫) આઇ.ટી.,ઇ-ગવર્નન્સ,સુરક્ષા નક્કી કરવામાં આવેલ. જે પૈકી વિકલ્પોની પસંદગી માટે દરેક વિસ્તારનો અગ્રતાક્રમ નક્કી કરવા માટે દરેક શહેરીજનોને ભાગ લેવા માટે જુદા જુદા માધ્યમો જેવા કે ભારત સરકારશ્રીની વેબ સાઇટ www.mygov.in, તથા રાજકોટ મહાનગરપાલિકાની વેબસાઇટ www.rmc.gov.in, તથા ઇ-મેઇલ mc_rmc@rmc.gov.in, rmc_smartcity@gmail.com, rmc_jnnurm@yahoo.com તેમજ વોર્ડ ઓફીસ, બી.આર.ટી.એસ. સ્ટેશન, સિવિક સેન્ટર ખાતે ડ્રોપ બોક્સ મારફત તેમજ “ગાર્ડન એક્ઝીબીશન કમ ફ્લાવર શો-૨૦૧૭” દરમિયાન શહેરીજનોને ફોર્મ વિતરણ કરીને અનુરોધ કરવામાં આવેલ. જે અન્વયે શહેરીજનો દ્વારા નક્કી કરવામાં આવેલ ઉક્ત બંને સ્માર્ટ ઉપાયો અંતર્ગત રજૂ કરવામાં આવેલ વિસ્તારોના અગ્રતાક્રમના પરિણામો નીચે મુજબ છે.

૧. એરિયા બેઇઝડ ડેવલપમેન્ટ (ABD)

ક્રમ નં.	વિસ્તારોની વિગત	અગ્રતાક્રમ	અગ્રતાક્રમની ટકાવારી
૧	ગ્રીન ફીલ્ડ ડેવલપમેન્ટ-ન્યુ રેષકોર્ષ	૧	૪૯%
૨	સ્લમ રી-ડેવલપમેન્ટ & રીવર રીઝુવિનેશન	૨	૨૨%
૩	રેટ્રોફિટીંગ-૫૦૦ એકર એરાઉન્ડ ધી રેષકોર્ષ એરિયા	૩	૧૬%
૪	રેટ્રોફિટીંગ-ટ્રાન્ઝીટ ઓરીએન્ટેડ ઝોન એલોગ બી.આર.ટી.એસ. કોરીડોર	૪	૧૩%

૨. પાન સિટી સ્માર્ટ સોલ્યુશન

ક્રમ નં.	વિસ્તારોની વિગત	અગ્રતાક્રમ	અગ્રતાક્રમની ટકાવારી
૧	વાહન અને પરીવહન વ્યવસ્થાપન	૧	૩૨%
૨	આઇ.ટી.,ઇ-ગવર્નન્સ,સુરક્ષા	૨	૩૦%
૩	પાણી વિતરણ તથા ગંદા પાણીનો નિકાલ	૩	૧૪%
૪	પર્યાવરણ અને ઉર્જા	૪	૧૨%
૫	ઘન કચરાના નિકાલનું વ્યવસ્થાપન	૪	૧૨%

રાજકોટ શહેરને સ્માર્ટ સિટી તરીકે વિકસાવવા માટે સ્માર્ટ સિટી પ્લાન અંતર્ગત ઉપરોક્ત વિગતોએ રજૂ થયેલા સ્માર્ટ ઉપાયોમાં એરિયા બેઇઝડ ડેવલપમેન્ટ(ABD)માં મુખ્ય ઘટકો જેવા કે મેનેજમેન્ટ કન્વેન્શન કમ ઇન્ફોર્મેશન સેન્ટર, સ્કીલ ડેવલપમેન્ટ સેન્ટર, સ્માર્ટ મીટર તથા આધુનિક સ્કાડા સીસ્ટમ દ્વારા ૨૪x૭ વોટર સપ્લાય, અંડરગ્રાઉન્ડ કેબલીંગ તથા સર્વિસીઝ માટે યુટીલીટી ડક્ટ, સ્માર્ટ મલ્ટી લેવલ કાર પાર્કિંગ, એન્વાયરમેન્ટ મોનીટરીંગ સ્ટેશન, જાહેર સલામતીના હેતુસર સર્વેલન્સ માટે સી.સી.ટી.વી. & પી.ટી.ઝેડ. કેમેરા, લીફ્ટ તથા એસ્કેલેટર સાથેના ફુટ ઓવરબ્રિજ, એફોર્ડેબલ હાઉસીંગ, એમ્યુઝમેન્ટ પાર્ક સાથે ૩ તળાવોનું નવિનીકરણ, ગ્રામ હટ અને કલ્ચરલ સેન્ટર, વર્લ્ડ ક્લાસ સ્પોર્ટ્સ એરેના સાથેનું ઇન્ફોર્મેશન સેન્ટર/આઉટડોર સ્ટેડીયમ, ન્યુ રેષકોર્ષ, ૨ મેગાવોટ કેપેસિટીના સોલાર પ્રોજેક્ટ, નોન-મોટરાઇઝ ટ્રાન્સ્પોર્ટ તથા ગ્રીન-વે, જુદા જુદા જાહેર સાર્વજનિક સ્થળોએ વાઇફાઇની સુવિધા વિગેરે તથા પાન સિટી સ્માર્ટ સોલ્યુશનમાં મુખ્ય ઘટકો જેવા કે સ્માર્ટ શહેરી પરીવહનની સુવિધા, સ્માર્ટ પાર્કિંગ સોલ્યુશન, સ્માર્ટ કાર્ડ સોલ્યુશન, ઇન્ટેલીજન્ટ ટ્રાફિક મેનેજમેન્ટ સીસ્ટમ, સ્માર્ટ વોટર સપ્લાય અને વેસ્ટ મેનેજમેન્ટ, સ્માર્ટ ગવર્નન્સ, ઇન્ટીગ્રેટેડ કમાન્ડ & કંટ્રોલ સેન્ટર, જી.આઇ.એસ. સોલ્યુશન, સ્માર્ટ ડીસ્પ્લે, આર.એમ.સી. ઇ.આર.પી., રાજકોટ બિઝનેશ પોર્ટલ, પબ્લીક એનાઉન્સમેન્ટ સીસ્ટમ, વિગેરે વિકાસકામો માટે અનુક્રમે રૂ.૨૧૭૭.૪૬ કરોડ તથા રૂ.૪૪૫.૫૫ કરોડ મળી, કુલ રૂ.૨૬૨૩.૦૧ કરોડનો ખર્ચ અંદાજવામાં આવેલ છે.

આમ, ઉપરોક્ત સમગ્ર વિગતો ધ્યાને લઇ, રાજકોટ શહેર માટે સ્માર્ટ સિટી પ્લાન રાજ્ય સરકાર મારફત કેન્દ્ર સરકાર સમક્ષ રજૂ કરવા અંગે, જરૂરી ઠરાવ અર્થે, કમિશનરશ્રીએ સ્થાયી સમિતિમાં દરખાસ્ત રજૂ કરેલ છે.

કમિશનરશ્રીનો ઉપરોક્ત રિપોર્ટ લક્ષમાં લેતા, રાજકોટ શહેરને સ્માર્ટ સિટી તરીકે વિકસાવવા માટે સ્માર્ટ સિટી પ્લાન અંતર્ગત રજૂ થયેલા સ્માર્ટ ઉપાયોમાં એરિયા બેઇઝડ ડેવલપમેન્ટ(ABD)માં મુખ્ય ઘટકો જેવા કે મેનેજમેન્ટ કન્વેન્શન કમ ઇન્ફોર્મેશન સેન્ટર, સ્કીલ ડેવલપમેન્ટ સેન્ટર, સ્માર્ટ મીટર તથા આધુનિક સ્કાડા સીસ્ટમ દ્વારા ૨૪x૭ વોટર સપ્લાય, અંડરગ્રાઉન્ડ કેબલીંગ તથા સર્વિસીઝ માટે યુટીલીટી ડક્ટ, સ્માર્ટ મલ્ટી લેવલ કાર પાર્કિંગ, એન્વાયરમેન્ટ મોનીટરીંગ સ્ટેશન, જાહેર સલામતીના હેતુસર સર્વેલન્સ માટે સી.સી.ટી.વી. & પી.ટી.ઝેડ. કેમેરા, લીફ્ટ તથા એસ્કેલેટર સાથેના ફુટ ઓવરબ્રિજ, એફોર્ડેબલ હાઉસીંગ, એમ્યુઝમેન્ટ પાર્ક સાથે ૩ તળાવોનું નવિનીકરણ, ગ્રામ હટ અને કલ્ચરલ સેન્ટર, વર્લ્ડ ક્લાસ સ્પોર્ટ્સ એરેના સાથેનું ઇન્ફોર્મેશન સેન્ટર/આઉટડોર સ્ટેડીયમ, ન્યુ રેષકોર્ષ, ૨ મેગાવોટ કેપેસિટીના સોલાર પ્રોજેક્ટ, નોન-મોટરાઇઝ ટ્રાન્સ્પોર્ટ તથા ગ્રીન-વે, જુદા જુદા જાહેર સાર્વજનિક સ્થળોએ વાઇફાઇની સુવિધા વિગેરે તથા પાન સિટી સ્માર્ટ સોલ્યુશનમાં મુખ્ય ઘટકો જેવા કે સ્માર્ટ શહેરી પરીવહનની સુવિધા, સ્માર્ટ પાર્કિંગ સોલ્યુશન, સ્માર્ટ કાર્ડ સોલ્યુશન, ઇન્ટેલીજન્ટ ટ્રાફિક મેનેજમેન્ટ સીસ્ટમ, સ્માર્ટ વોટર સપ્લાય અને વેસ્ટ મેનેજમેન્ટ, સ્માર્ટ ગવર્નન્સ, ઇન્ટીગ્રેટેડ કમાન્ડ & કંટ્રોલ સેન્ટર, જી.આઇ.એસ. સોલ્યુશન, સ્માર્ટ ડીસ્પ્લે, આર.એમ.સી. ઇ.આર.પી., રાજકોટ બિઝનેશ પોર્ટલ, પબ્લીક એનાઉન્સમેન્ટ સીસ્ટમ, વિગેરે વિકાસકામો માટે અનુક્રમે રૂ.૨૧૭૭.૪૬ કરોડ તથા રૂ.૪૪૫.૫૫ કરોડ મળી, કુલ રૂ.૨૬૨૩.૦૧ કરોડના ખર્ચ અંદાજ સાથેનો સ્માર્ટ સિટી પ્લાન રાજ્ય સરકાર મારફત કેન્દ્ર સરકાર સમક્ષ રજૂ કરવાનું મંજૂર કરવામાં આવે છે.

તા.૨૮/૦૩/૨૦૧૭

સર્વાનુમતે મંજૂર

પ્રમાણિત નકલ

મ્યુનિસિપલ સેક્રેટરી
રાજકોટ મ્યુનિસિપલ કોર્પોરેશન

(સહી)પુષ્કર પટેલ

ચેરમેન

સ્ટેન્ડિંગ કમિટી

રાજકોટ મ્યુનિસિપલ કોર્પોરેશન

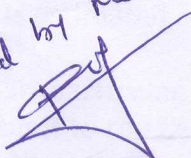
Resolution

The letter no. 380 dated 20/03/2017 from Municipal Commissioner for developing Rajkot city as Smart city has been taken into account.

In this context, the Commissioner states that the Govt. of India has launched Smart City Mission to develop 100 Indian cities as Smart City and Rajkot city is one of them. Govt. of India has launched Smart Cities Mission to develop 100 Indian cities as Smart City and Rajkot city is one of them. By the S.C.R.No. 211, dated 17/07/2015 and G.B.R.No. 47 Dated 19/08/2015 ,Rajkot Municipal Corporation had decided to develop Rajkot as Smart City. RMC has to submit the Modified Smart City Proposal by 31st March, 2017 to be selected in the 3rd Round of Smart City Mission. By the MoUD's Official Memorandum MoUD/O.M. K- 15016/ 157 / 2015-SC-I (Vol. II) Dated : 05/10/2016, MoUD had instructed the selected cities, to appoint consultants for Modification/Up gradation/Revision of Smart City Proposal. Hence, by Standing Committee Resolution No. 358 Dated 20/01/2017 and 321 Dated 30/01/2017, RMC had appointed the Joint Venture of Tata Consulting Engineers Ltd. and PwC, from the list of consultants decided by MoUD and GUDM for Gujarat, as the consultants to Modify/Up grade/Revise the Rajkot Smart City Proposal. The appointed consultant are working on the Modification/Up gradation/Revision of Smart City Proposal, which will be submitted to MoUD by the 31st March-2017 for approval.

Under the public consultation phase of "Smart City Mission"; to finalise the Smart City Best vision and goals, the citizens of Rajkot were urged to give their innovative suggestions through various mediums such as Newspapers, Jingles in Red FM Radio, and advertisements in Banners along the BRTS corridor. The finalised vision and goal was declared in the "Garden Exhibition cum Flower Show-2017" on the 17th Feb,2017.

To finalize the Area Based Development (ABD), four different areas of Rajkot (1) Green Field Development- New Race Course(2) Retrofitting-Transit Oriented Zone along BRTS Corridor (3) Slum redevelopment and River rejuvenation (4) Retrofitting- 500 Acres along the Race course area and five different solutions for PAN City Smart Solutions (1)Water and Wastewater Mgmt (2) Solid waste Mgmt (3) . Environment & energy (4) Traffic & Transportation Mgmt. (5) IT, E-governance & Safety were identified respectively. The Rajkot citizens were urged to prioritize the above options through various mass media such as MyGov(www.mygov.in), RMC's website(www.rmc.gov.in),e-mails through mc_rmc@rmc.gov.in, rmc.smartcity@gmail.com, rmc_jnnurm@yahoo.com, and physical submissions through Drop Boxes at RMC's Ward Offices, B.R.T.S Bus Shelters, the "Garden Exhibition cum Flower Show-2017". The options prioritized by the Rajkot Citizens are as below.

attested by me

Chiray Pandya
City Engineer
Rajkot Municipal Corporation

1. For AREA Based Development. (ABD).

Sr. No.	Details of the Area	Priority	Percentage
1.	Green Field Development- New Race Course	1	49%
2.	Slum redevelopment and River rejuvenation	2	22%
3.	Retrofitting- 500 Acres along the Race course area	3	16%
4.	Retrofitting-Transit Oriented Zone along BRTS	4	13%

2. PAN City Smart Solutions.

Sr. No.	Details of the Area	Priority	Percentage
1.	Intelligent Traffic & Transportation Mgmt	1	32%
2.	IT, E-governance & Safety	2	30%
3.	Water and Wastewater	3	14%
4.	Environment & energy	4	12%
5.	Solid waste Mgmt	5	12%

The finalised Greenfield Development option of Area Based Development(ABD) has many major components such as Management convention cum Indoor/Outdoor Exhibition Center, Skill Development center, Smart Meter and 24/7 Water supply by modern SCADA system, Underground Cabling and Utility Duct for various services, Smart Multi Level Car parking, Environment Monitoring Station, C.C.T.V and P.T.Z cameras for Public safety and surveillance, Foot over Bridges having facilities of Lift and Escalators, Affordable Housing, Amusement parks and Rejuvenation of 3 lakes, Village Gram Haat and Cultural Center, World class Sports Arena having Indoor/Outdoor Stadium, New Race Course, 2 Megawatt Solar Project, Non-Motorised Transport and Green way, Wi-Fi Facilities at various public places and and PAN City Smart solutions having major Smart components such as Inteligent Urban Transportation Facilities such as Smart parking Facilities, Smart Card Solution, Intelligent traffic management system, Smart Water Supply and Waste management, Smart Governance, Integrated command and control center, G.I.S. Solutions, Digital Display, RMC-E.R.P., Rajkot Business Portal, Public Announcement System etc.. The cost of the development of ABD and PAN City Smart solutions is estimated to be Rs. 2177.46 Crore and Rs. 445.55 Crore respectively and a total cost of Rs. 2623.01 Crore is estimated.

With reference to the aforementioned details and in particular with respect to the requirements of the resolution and to submit to the Central

checked by me

[Signature]

Chirag Pandya
City Engineer
Rajkot Municipal Corporation

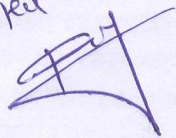
Government via State Government, Commissioner has presented the Smart City Plan to the Standing Committee in the hope of Approval.

Taking into account of the report by the Commissioner, This general board has approved to develop the Rajkot city as smart city with the finalised option of Area Based Development(ABD) having many major components such as Management convention cum Indoor/Outdoor Exhibition Center, Skill Development center, Smart Meter and 24/7 Water supply by modern SCADA system, Underground Cabling and Utility Duct for various services, Smart Multi Level Car parking, Environment Monitoring Station, C.C.T.V and P.T.Z cameras for Public safety and surveillance, Foot over Bridges having facilities of Lift and Escalators, Affordable Housing, Amusement parks and Rejuvenation of 3 lakes, Village Gram Haat and Cultural Center, World class Sports Arena having Indoor/Outdoor Stadium, New Race Course, 2 Megawatt Solar Project, Non-Motorised Transport and Green way, Wi-Fi Facilities at various public places and the major components of PAN City Smart solutions such as Intelligent Urban Transportation Facilities such as Smart parking Facilities, Smart Card Solution, Intelligent traffic management system, Smart Water Supply and Waste management, Smart Governance, Integrated command and control center, G.I.S. Solutions, Digital Display, RMC-E.R.P., Rajkot Business Portal, Public Announcement System etc., The Smart City Plan, comprising of the estimated cost of development of ABD and PAN City Smart solutions of Rs. 2177.46 Crore and Rs. 445.55 Crore respectively and the total cost of Rs. 2623.01 Crore is hereby approved, for submitting to the Central Government via the State government.

Dt.28/03/2017

Approved Unanimously

Attested by Me



Chirag Pandya
City Engineer

Rajkot Municipal Corporation

(Sign) Pushkar Patel
Chairman
Standing Committee,
Rajkot Municipal Corporation

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

General Board Resolution No. 26 Dt. 18/06/2016

The letter no. 1 dated 17/06/2016 from Municipal Commissioner for creating a Special Purpose Vehicle (SPV) under Smart City has been taken into account.

In this context, the Commissioner states that, Rajkot has been included in the 100 cities that have been selected as Smart Cities by the Govt. of India. By the General Board Resolution No. 47 Dated 19/08/2015, and Administrative Approval No.35, Dated. 20/08/2015, it was decided to develop Rajkot as "Smart City", and by the General Board Resolution No. 47, Dated 19/08/2015, Administrative Approval No. 35 Dated 20/08/2015, Principal approval was given for forming a Special Purpose Vehicle (SPV), as per the Smart City Guidelines, for the implementation of Smart City Mission.

At present, The second stage of Smart City Challenge Competition Round-2, is being conducted by Rajkot Municipal Corporation and the probability of Rajkot being selected in the Second Round are considerably higher. The selected cities are entitled to receive Rs. 100 Crore grant from the Central Government and an equal amount on a matching basis will be contributed by the State/ULB. By Letter No.K-15016/61/2015-SC-I GoI MoUD Smart Cities Division, dated:27/05/2016, Mr.Sanjay Sharma-Under Secretary (Smart Cities-I) informed the selected cities to form a Special Purpose Vehicle (SPV), under the Companies Act-2013, as a Pro-active step to prevent the delay in the administrative process. Therefore Rajkot will have to create a Special Purpose Vehicle (SPV). The name of SPV will be **"RAJKOT SMART CITY DEVELOPMENT LIMITED"**, and the details of Chairperson and Board of Directors are as instructed.

With reference to the aforementioned details, and as per the Smart City Guidelines, To develop Rajkot city as Smart City, the requirement of resolution for creating a Special Purpose Vehicle (SPV) is necessary. The Commissioner has presented the resolution as Urgent business to the General Board, in the hope of Approval.

Taking into account of the report by the Commissioner that, Rajkot has been included in the 100 cities that have been selected as Smart Cities by the Govt. of India. This general board had approved to develop the Rajkot city as smart city via the aforesaid General Board Resolution No. 47 Dated 19/08/2015, and Administrative Approval No.35, Dated. 20/08/2015, and for the implementation of Smart City Mission, it has been decided to form the SPV, also the SPV's Chairperson and Board of Directors as mentioned in the table below are approved.

Table

1)	The Municipal Commissioner.	Chairperson.
2)	Chairman of The Standing Committee	Director.
3)	Deputy Municipal Commissioner (WZ)	Director.
4)	Deputy Municipal Commissioner (CZ)	Director.
5)	Deputy Municipal Commissioner (EZ)	Director.
6)	City Engineer	Director.
7)	Town Planning Officer.	Director.
8)	Collector.	Director.
9)	Chief Executive Officer (RUDA)	Director.
10)	Central Government Nominee Director	Director.
11)	Additional CEO-GUDM and State Mission Smart Cities.	Director.
12)	Managing Director/ Chief Executive Officer.	Director.

In favor:-38

Opposed:-34

Proposal Put Up by:(Sign) Mukesh Radadiya

Supported by : (Sign) Dalsukh Jagani

Approved by Majority

(Sign) Dr. Jaimin Upadhyay
Mayor
Rajkot Municipal Corporation

Attested by me

Chiranjiv Panthya
City Engineer
Rajkot Municipal Corporation

જ.બો.ઠ.નં.૨૬ તા.૧૮/૦૬/૨૦૧૬

સ્માર્ટ સિટી મિશન હેઠળ Special Purpose Vehicle (SPV) ની રચના કરવા અંગે મ્યુનિસિપલ કમિશનરશ્રીનો પત્ર નં.૧ તા.૧૭/૦૬/૨૦૧૬નો લક્ષમાં લેવામાં આવે છે.

આ સંબંધમાં રિપોર્ટ કરતા કમિશનરશ્રી જણાવે છે કે, ભારત સરકારશ્રી દ્વારા સ્માર્ટ સિટીઝ તરીકે પસંદગી થયેલ ૧૦૦ શહેરો પૈકી રાજકોટ શહેરનો સમાવેશ કરવામાં આવેલ છે. રાજકોટ શહેરને "સ્માર્ટ સિટી" તરીકે વિકસાવવા માટે જ.બો.ઠ.નં.૪૭ તા.૧૮/૦૮/૨૦૧૫, વહિ.મંજૂરી જા.નં.૩૫, તા.૨૦/૦૮/૨૦૧૫ કરવામાં આવેલ તેમજ સ્માર્ટ સિટીની માર્ગદર્શિકા મુજબ સ્માર્ટ સિટી મિશનના અમલીકરણ માટે Special Purpose Vehicle(SPV) બનાવવાનું જ.બો.ઠ.નં.૪૭ તા.૧૮/૦૮/૨૦૧૫, વહિ. મંજૂરી જા.નં.૩૫, તા.૨૦/૦૮/૨૦૧૫થી સૈધ્ધાંતિક મંજૂરી આપવામાં આવેલ.

હાલ રાજકોટ મહાનગરપાલિકા દ્વારા Smart City Challenge Competition Round -2 ની પ્રક્રિયા ચાલી રહેલ છે. રાજકોટ શહેરનો બીજા રાઉન્ડમાં સમાવેશ થવાની ઉજળી તકો રહેલી છે. પસંદગી પામેલ શહેરને કેન્દ્ર સરકારશ્રી તરફથી દર વર્ષે સ્માર્ટ સિટીની માર્ગદર્શિકા મુજબ રૂ.૧૦૦ કરોડનું અનુદાન મળવાપાત્ર છે તેમજ તેટલી જ રકમ રાજ્ય સરકારશ્રી/સ્થાનિક સ્વરાજ્યની સંસ્થાએ ફાળો આપવાનો રહેશે. સ્માર્ટ સિટી મિશન હેઠળ પસંદગી પામેલ શહેરોએ Sanjay sharma, Under Secretary(Smart Cities-1)ના Letter No.K-15016/61/2015-SC-1 GOI MOUD Smart Cities Division, Dated:- 27/05/2016માં જણાવ્યાનુસાર Special Purpose Vehicle(SPV)ની રચનાની વહિવટી પ્રક્રિયામાં વિલંબ ન થાય તે માટે Companies Act, 2013 મુજબ Special Purpose Vehicle (SPV)ની અગાઉથી (Pro-active step) રચના કરવા જણાવેલ છે. જે અન્વયે રાજકોટ મહાનગરપાલિકા દ્વારા Special Purpose Vehicle(SPV)ની રચના કરવાની થાય છે. જેનું નામ "RAJKOT SMART CITY DEVELOPMENT LIMITED" રહેશે. જેના ચેરપર્સન તથા બોર્ડ ઓફ ડિરેક્ટરની વિગત નિર્દિષ્ટ કર્યા મુજબ છે.

ઉપરોક્ત વિગતે, રાજકોટ શહેરને સ્માર્ટ સિટી તરીકે વિકસાવવા માટે સ્માર્ટ સિટી મિશનની માર્ગદર્શિકા મુજબ Special Purpose Vehicle(SPV)ની રચના કરવા માટે ઠરાવની જરૂરીયાતને ધ્યાને લઈ જરૂરી ઠરાવ અર્થે, કમિશનરશ્રીએ અરજન્ટ બિઝનેસ તરીકે સામાન્ય સભા સમક્ષ દરખાસ્ત રજૂ કરેલ છે.

કમિશનરશ્રીનો ઉપરોક્ત રિપોર્ટ લક્ષમાં લેતા, ભારત સરકારશ્રી દ્વારા સ્માર્ટ સિટીઝ તરીકે પસંદગી થયેલ ૧૦૦ શહેરો પૈકી રાજકોટ શહેરનો સમાવેશ કરવામાં આવેલ છે. રાજકોટ શહેરને "સ્માર્ટ સિટી" તરીકે વિકસાવવા માટે ઉપરોક્ત જ.બો.ઠ.નં.૪૭ તા.૧૮/૦૮/૨૦૧૫, વહિ. મંજૂરી જા.નં.૩૫, તા.૨૦/૦૮/૧૫ થી જનરલ બોર્ડમાં ઠરાવ કરવામાં આવેલ તેમજ સ્માર્ટ સિટીની માર્ગદર્શિકા મુજબ સ્માર્ટ સિટી મિશનના અમલીકરણ માટે Special Purpose Vehicle (SPV)ની રચના કરવાનું તેમજ તેના ચેરપર્સન તથા બોર્ડ ઓફ ડિરેક્ટર નીચે કોષ્ટકમાં દર્શાવ્યા મુજબ નિયત કરવાનું મંજૂર કરવામાં આવે છે.

કોષ્ટક

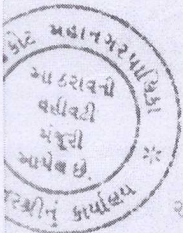
		Chairperson
(1)	Municipal Commissioner	Director
(2)	Chairman of The Standing Committee	Director
(3)	Deputy Municipal Commissioner (WZ)	Director
(4)	Deputy Municipal Commissioner (CZ)	Director
(5)	Deputy Municipal Commissioner (EZ)	Director
(6)	City Engineer	Director
(7)	Town Planning Officer	Director
(8)	Collector - Rajkot	Director
(9)	(Addl.) Chief Executive Officer (RUDA)	Director
(10)	Central Government Nominee	Director
(11)	Additional CEO-GUDM and State Mission Smart Cities	Director
(12)	Managing Director/Chief Executive Officer	Director

તરફેણ:-૩૮

વિરુદ્ધ:-૩૪

દ.મુ.(સહી)મુકેશ રાદડિયા

દે.આ.(સહી)દલસુખ જાગણી



મમાણિત નકલ

બહુમતે મંજૂર

મ્યુનિસિપલ સેક્રેટરી
રાજકોટ મ્યુનિસિપલ કોર્પોરેશન

(સહી)ડૉ.જૈમન ઉપાધ્યાય

મેયર

રાજકોટ મહાનગરપાલિકા

Minutes of Task Force meeting
for agreement/s with Para
Statal Bodies, Boards existing in
the City for implementing the
full scope of the SCP and
sustaining the pan-city and ABD



RAJKOT MUNICIPAL CORPORATION

In **NURM** Cell

Room No 10, West Zone Office, Bh. Big Bazar, 150 ft Ring Road, Rajkot – 360 005.
Ph: 0281-2331481 Fax: 0281-2332548 e-Mail: rmc_jnnurm@yahoo.com

No./RMC/JnNURM/ 449

Date: 07/12/2015

Minutes of Meeting- Interdepartmental (Govt / parastatal bodies and boards) Task Force on Rajkot Smart City Proposal

Agenda : Meeting of interdepartmental Taskforce comprising of parastatal bodies and boards, for dissemination of the Draft SCP (Area based Development and Pan City proposal) and to discuss the involvement of each agency during the implementation phase of the project and to get in-principle approval for the same.

Date: 5th Dec, 2015, 12.30 pm **Venue:** Conference Room, RMC Central zone office

Participants:

SN	Designation	Govt / Parastatal bodies and boards
1	Municipal Commissioner	Rajkot Municipal Corporation
2	Deputy municipal Commissioner (EZ, CZ, WZ)	Rajkot Municipal Corporation
3	Deputy commissioner of Police (Zone- 1)	Police department
4	Resident additional collector	Collector office
5	Senior divisional engineer	Western railways Rajkot division
6	Superintendent engineer	PGVCL
7	Chief executive officer	RUDA
8	Superintendent engineer	GIDC
9	Divisional controller	GSRTC
10	Regional transport officer	RTO
11	Executive Engineer	GPCB
12	Executive Engineer	R&B
13	Additional city engineers (EZ, CZ, WZ)	Rajkot Municipal Corporation
14	Executive engineer – water works	RMC
15	City engineer – drainage	RMC
16	Medical officer	RMC
17	City engineer and nodal officer (SCM)	RMC

Key points of discussion :

A meeting was organized with the Interdepartmental Task Force comprising of the representatives from departments identified above. The key points of discussion are as follows:

- A presentation on draft SCP was made to the Task Force. Followed by a detailed discussion on Area based Development and Pan City proposal along with the financing plan and convergence of various schemes implemented by different agencies/ parastatal bodies/ boards.
- Roles and responsibilities of task force during the Master Planning stage and implementation phase was highlighted.
- The parastatal bodies and boards involved were informed to initiate the preparatory work e.g. land demarcation, keeping a check on unauthorized development etc.
- It was decided that the detailed role of each parastatal body and board would be defined and discussed; and finalized during the detailing/ DPR preparation work.
- All the parastatal bodies and boards, which are part of this Task Force, agreed to extend all the necessary support for implementation of the full scope of the SCP including sustaining the pan-city and area-based developments.

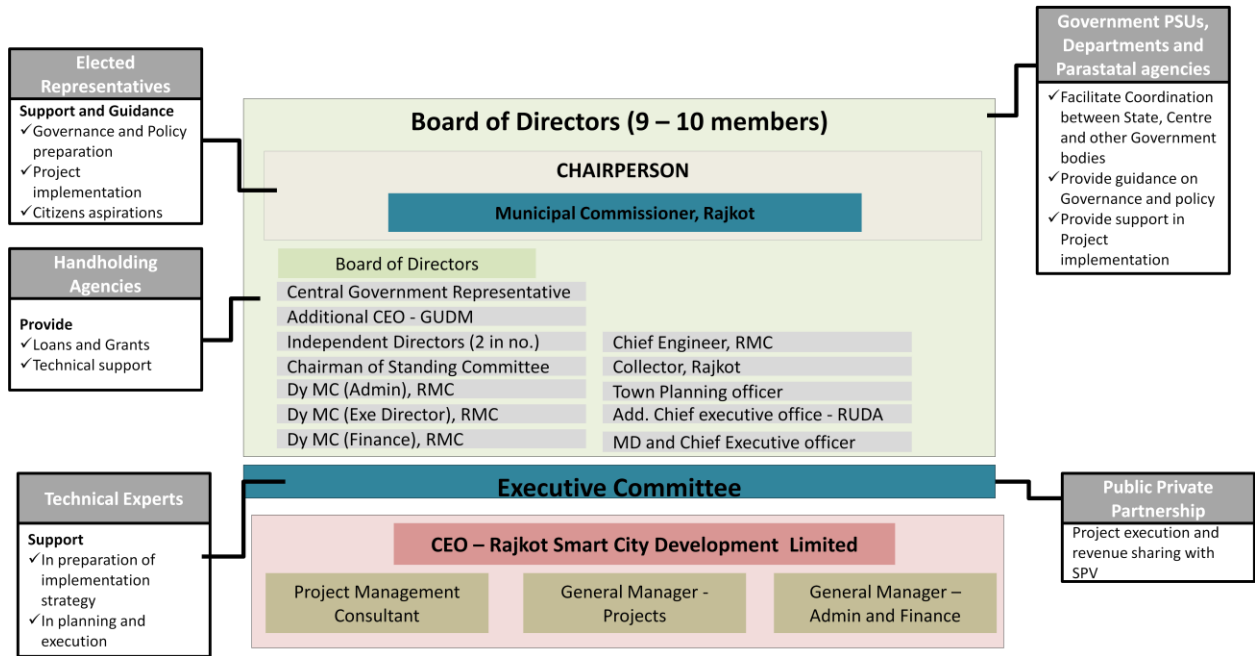
City Engineer
Nodal Officer- SCM
Rajkot Municipal Corporation

Copy respectfully submitted to:

- The Commissioner, RMC

Institutional structure of the proposed SPV under SCM

Institutional structure of the proposed SPV under SCM



**GUDM letter to MoUD
regarding Rajkot SCP Round III
Proposal submission**



Gujarat Urban Development Mission

Block No:-1, Ground Floor, Karmyogi Bhavan, Sector-10/A, Gandhinagar: 382010 Phone: 079-23257583 Fax: 079-23257582
Email: info@gudm.org Website: www.gudm.org

No: G.U.D.M./

Date: 28/03/2017

SC/SCP/Round-3/ 443

To,
The Director (SC-I)
Ministry of Urban Development,
Nirman Bhavan,
NEW Delhi- 110108

Subject: Submission of Smart Cities proposal Round-3 for Gujarat State

Sir,

Six cities of Gujarat have been shortlisted by the MoUD, Govt of India under Smart Cities Mission. In the first & second round of the City Challenge among these 6 cities Ahmedabad, Surat & Vadodara are selected. Now, remaining 3 cities Rajkot, Gandhinagar & Dahod have prepared their SCP in accordance to guidelines provided by the MoUD in this regard.

State Level High Powered Steering Committee (HPSC) has reviewed all these SCPs & approved for submission to MoUD, Govt. of India.

As per the requirement of the MoUD, SCPs are submitted along with following documents for participation in the Round-3 of the competition for Rajkot, Gandhinagar & Dahod of Gujarat State.

1. Smart City proposal Round-3 filled up templates with required Annexure-II + Annexure-III +Annexure-IV in 5 hard copies and DVD
2. Minutes of the Meeting of HPSC held on 15th March, 2017

You are requested to accept Smart City proposal submitted by all 03 cities of Gujarat for the third round of the competition & select these cities as all of proposed SCPs are well-poised to get converted as Smart Cities.

Thanking You,

Yours Sincerely,


(Milind Torawane)

**Mission Director (Smart City Mission) &
Additional Chief Executive Officer, GUDM**

Encl: as above

Copy Submitted to:- PA to ACS,UD & UHD

HPSC Meeting- Minutes of Meeting



Gujarat Urban Development Mission

Block No:-1, Ground Floor, Karmyogi Bhavan, Sector-10/A, Gandhinagar: 382010 Phone: 079-23257583 Fax: 079-23257582
Email: info@gudm.org Website: www.gudm.org

No: G.U.D.M./
GUDM/Smart Cities/4th HPSC /444

Date: 28/03/2017

Minutes of 4th meeting of "State Level High Powered Steering Committee (HPSC)" under Smart Cities Mission held on 15th March, 2017

The 4th meeting of HPSC was held on 15/03/2017 under the Chairmanship of the Chief Secretary, Govt. of Gujarat.

Agenda of the HPSC meeting was to review the progress of Selected Cities and approve the Smart City Proposals of remaining three cities to the MoUD, Govt of India under Smart City Mission. Detailed agenda of the meeting was as per attached Annexure No.1 and the members attended the meeting are as per Annexure No.2

At the outset Mission Director, Smart Cities and Member secretary, HPSC welcomed all the members of the HPSC and briefed about progress of selected 3 Smart Cities and SCPs of remaining 3 cities for round 3 of "City Challenge". Thereafter, with the kind permission of the Chair, agenda items were taken.

Agenda Item 1: Reading of the minutes of the Third (3rd) HPSC meeting held on 29th June, 2016

Mission Director, Smart Cities and Additional Chief Executive Officer, GUDM, Gujarat read the minutes of the meeting of the second HPSC meeting held on 29th Dec, 2016 and HPSC confirmed the same.

Agenda Item 2: Review of progress of selected Smart Cities

Mission Director, Smart Cities and Addl. Chief Executive Officer, GUDM, Gujarat presented the progress of the selected 3 cities viz. Ahmedabad, Surat & Vadodara. Additional Chief Secretary, UD&UHD instructed to review and monitor the status of projects to be grounded or completed before 2nd anniversary of launching of Smart Cities. The Chairman also instructed to expedite the progress of the projects under of selected 2 cities (Ahmedabad & Surat) and to complete the procedure of formation of SPV for Vadodara.

Agenda Item 3: Review of Smart City Proposals (SCPs) submitted by Three (03) Smart Cities and approval for the submission to MoUD, GoI for Round 3 of City Challenge.

Govt. of India has shortlisted six cities of Gujarat for Smart Cities Mission. (Ahmedabad, Surat, Rajkot, Vadodara, Gandhinagar & Dahod). In the First Round of the City Challenge of Smart City Ahmedabad & Surat were selected

among 20 cities announced by MoUD. Surat & Ahmedabad ranked 4th & 6th respectively. In Round 2, remaining 4 cities (Vadodara, Rajkot, Gandhinagar & Dahod) of Gujarat participated in City Challenge, Vadodara was selected amongst 27 cities all over the country. Remaining 03 potential (Rajkot, Gandhinagar & Dahod) smart cities have prepared their proposals for participation in the 'City Challenge round-3'. This is a crucial stage as each city's Smart City Proposal (SCP) is expected to contain the model chosen. All these SCPs were outlined and prepared through extensive consultations held with the city residents and other stakeholders. Cities have selected consulting firms for preparation of SCPs. All shortlisted cities have prepared and submitted SCPs to Mission Directorate. SCPs for Round-3 are prepared as per template provided by MoUD, Govt of India.

The Additional Chief Secretary, Urban Development and Urban Housing Department, Govt. of Gujarat has briefed members about SCP proposals and asked the Mission Director (Smart Cities) to make presentation before the HPSC committee. The brief of all potential Smart City proposals presented are as under:

Rajkot

Vision - "To develop Rajkot as smart, livable and iconic city of Gujarat with inclusive growth and sustainable development, by leveraging its historical strengths and providing state of the art infrastructure, delivery of services and empowering ecosystem by enabling citizens to realize their dreams."

- Area based Proposal (ABD): Greenfield area development - Advantage BRTS Central District (ABCD)
 - The site is centrally located in the vicinity of BRTS route and Ring Road II. Transit oriented development will happen in the proposed green field area of 930 acres.
 - The development is proposed by connecting the ABCD with the airport, Aji river rejuvenation and existing race course in line with the city's growth direction.
- 1. **Economy and employment** with initiative such as,
 - A. Management & Convention Centre (40,000 sqm)
 - B. Exhibition Centre (30,000 sqm)
 - C. Incubation Centre (10,000 sqm)
 - D. PROJECT KAUSHALYA WARDHAN SWAMAAN -Skill Development Centre (5000 sqm) and
 - E. PROJECT UTHHAN - Smart Hawker's zone.
- 2. **Smart and Robust infrastructure** such as,
 - A. Smart Electricity with underground cabling system

- B. Smart Water and Waste Water management with SCADA
 - C. PROJECT SANMAN - SWM & Sanitation
 - D. Road Infrastructure
 - E. Other infrastructure such as utility duct, Wi-Fi for all, smart LED Street lights etc.
3. **Intelligent Traffic and Integrated Transport Management** with
- A. 300 capacity multilevel parking at 5 locations
 - B. 51 KM cycle track along major roads including 6 km Green way.
 - C. 8 cycle parking stand
 - D. 16 BRTS bus shelters
4. **Safety and Security for all** with initiatives such as
- A. Smart CCTV surveillance
 - B. PROJECT VEERANGANA EXPRESS - exclusively for women & children
 - C. 24*7 Help Line Centre
 - D. Model Fire Station
 - E. Exclusive green way and pedestrian path ways
 - F. Foot Over Bridge with provision of escalator and lift for Divyang and Senior Citizens
 - G. Nirbhaya Centre for women.
5. **Housing and social inclusion** with 3500 LIG units and 1500 EWS units (16.67% total housing as affordable units), PROJECT SAISHAV - 5 model Aanganwadis, 2 Smart schools, 2 NABH accredited UHC, Smart e-library, community centre, citizen connect, PROJECT SAKSHAM – Shelter homes for women etc.
6. **Iconic development** with
- A. Rejuvenation of three lakes and Amusement park.
 - B. Gram Haat & Cultural centre for heritage development
 - C. Sports Arena in 112 acres including one Indoor and two Outdoor stadium
 - D. Parks & gardens- 30 acres
 - E. New Racecourse- 150 acres
7. **Technology for all** with
- A. Water - Smart Consumer Meters, SCADA, Leak Detection
 - B. Power: Smart Consumer Meters
 - C. High Speed Wifi
 - D. GIS Mapping integrated with ERP software
 - E. Information Kiosks

8. **Environmental Sustainability** with target of 15% of the energy requirement from renewable sources with projects such as 2 MW solar park, 2.5 MW solar roof top for cycle track and BRTS shelters and 100% building with green building norms including 10% energy from solar roof tops for all buildings, RWH structures, Percolation pit, Dual plumbing system for reuse of Grey water and Environment monitoring station.

• **Pan City Smart Solution**

1. INTELLIGENT TRAFFIC & INTEGRATED TRANSPORT MANAGEMENT

- a. Smart Urban Mobility using ICT (PIS, Smart Parking, AFCS, Multi modal Integration, 'Rajkot Mitra' - Smart card for payment etc.)
- b. Intelligent Traffic Management (ANPR, RLVD, E-challan etc.)
- c. ICT solution for Non-Motorized Transport (Smart Bicycle sharing, IPCS etc.)

2. Digital Rajkot

- a. SMART GOVERNANCE (ICCC, Dashboard, Surveillance, Dashboard, GIS, ERP, Online service delivery including heritage app and smart health card - 'Arogya Mitra' , Digital displays, PROJECT UDANT - Rajkot business portal etc.) -
- b. SMART WATER AND WASTE MANAGEMENT

• **Project Cost and Implementation**

Total estimated project cost proposed under SCP is Rs. 2,623.01 crore,

ABD cost = Rs. 2,177.46 Crore for

PAN city = Rs.445.55 crore

• **Funding sources (Rs in Crores)**

Central Government Share	Rs. 500	19.06%
State Government Share	Rs. 250	9.53%
ULB contribution	Rs. 250	9.53%
PPP	Rs. 735	28.04%
Infrastructure Development Fund (Income from premium FSI)	Rs. 300	11.43%
Convergence with other schemes	Rs. 588	22.41%
Total	Rs. 2623	

ANNEXURE - 1

Detailed Agenda of the Meeting for 4th HPSC Meeting for Smart City Mission

Date: 15.03.2017

Agenda No.	Details
1	Confirmation of Minutes of Third HPSC meeting held on 29 th June 2016
2	Progress of Selected Smart Cities (Ahmedabad, Surat & Vadodra)
3	Review of Smart City Proposals (SCPs) submitted by Remaining 03 shortlisted Smart Cities and approval for the submission to MoUD, Gol for Round 3 of Smart City Challenge
	1. Rajkot
	2. Gandhinagar
	3. Dahod
4	Recommendation for GIFT City to be incorporated with other Smart Cities
5	Any other agenda item, with the permission of the Chair

ANNEXURE - 2

**List of Members Attended the 4th HPSC Meeting under the
Chairmanship of Chief Secretary, Govt. of Gujarat**

Date: 15.03.2017

No.	Representative & Department
1	Additional Chief Secretary, Urban Development & Urban Housing Department
2	Principal Secretary, General Administration Department (Planning)
3	Principal Secretary, Water Supply Department
4	Secretary, Finance Department
5	Secretary (Home), Home Department
6	Secretary, Department of Science & Technology
7	Mission Director (Smart City) & Additional Chief Executive Officer (Gujarat Urban Development Mission)
8	Commissioner, Rajkot Municipal Corporation
9	Commissioner, Gandhinagar Municipal Corporation
10	Collector, Dahod City
11	General Manager, Gujarat Infrastructure Development Board
12	Chief Financial Officer, GIFT City, Gandhinagar

Detailed Financial Plan

REVENUE ASSUMPTIONS

S. No	Name of Initiative	Type of Initiative	Revenue streams	Is it a PPP project	Variable	Unit	Amount	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
1	Passenger Information System (PIS)	Pan City Initiative	Advertisement charges	No	Digital display board	No. of board	100			100	100	100	100	100	100	100	100
2				No	Licensing fee per display board	Monthly fee	6000		7,000	7,525	8,089	8,696	9,348	10,049	10,803	11,613	
3				No	No. of months per annum	No. of	12		12	12	12	12	12	12	12	12	
4				No	Annual escalation	In %		7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	
5	Smart Card System - Bus ticket fare payment	Pan City Initiative	Increase in Revenue due to increase in no. of users	Yes	Existing no. of users per day	In No.	54000										
6				Yes	No. of incremental users per day	In No.	16200		16200	16200	16200	16200	16200	16200	16200	16200	
7				Yes	Assumed growth for proportion of incremental users	In %	30%										
8				Yes	Per user tariff	In Rs.			17	18	19	20	21	22	23	24	
9				Yes	Assumed growth rate in tariff	In %			5%	5%	5%	5%	5%	5%	5%	5%	
10				Yes	No. of days per annum	In No.			365	365	365	365	365	365	365	365	
11	Digital Display board	Pan City Initiative	Advertisement charges	Yes	Share of SPV	In %	50%										
12				Yes	No. of display boards	In No.	30										
13				Yes	Size of Display board	In Sq. feet	100										
14				Yes	Advertising rate	In Rs. Per sq.	6		6.60	6.93	7.28	7.64	8.02	8.42	8.84	9.29	
15	Online Public Services (Website)	Pan City Initiative	Website usage	Yes	Growth in Advertisement rate	In %	5%										
16				Yes	Share of SPV	In %	0%										
17				Yes	Assumed no. of visitors per annum	In No.	4500000		47,27,813	48,46,008	49,67,159	50,91,337	52,18,621	53,49,086	54,82,814	56,19,884	
18				Yes	Growth in no. of visitors	In %	3%										
19				Yes	Average no. of clicks per visitor	In No	10		10	10	12	12	12	14	14	14	
20				Yes	Rate per click on website page	In Rs.	0.2		0.22	0.23	0.24	0.25	0.27	0.28	0.29	0.31	
21	Online Public Services (Application)	Pan City Initiative	Application usage	Yes	Growth in tariff for clicking on website page	In %	5%										
22				Yes	Share of SPV	In %	35%										
23				Yes	Assumed no. of visitors per annum	In No.	4500000	-	-	47,27,813	48,46,008	49,67,159	50,91,337	52,18,621	53,49,086	54,82,814	56,19,884
24				Yes	Growth in no. of visitors	In %	3%										
25				Yes	Average no. of clicks per visitor	In No	10		10.0	10.0	12.0	12.0	12.0	14.0	14.0	14.0	
26	Business Portal for Rajkot	Pan City Initiative	Usage charge	Yes	Rate per click on website page	In Rs.	0.2										
27				Yes	Growth in tariff for clicking on website page	In %	5%										
28				Yes	Assumed no. of visitors per annum	In No.	4500000		48,46,008	49,67,158	50,91,337	52,18,621	53,49,086	54,82,813	56,19,884	57,60,381	
29				Yes	Growth in no. of visitors	In %	3%										
30				Yes	Average no. of clicks per visitor	In No	10		10	10	12	12	12	14	14	14	
31				Yes	Rate per click on website page	In Rs.	0.2		0.22	0.23	0.24	0.25	0.27	0.28	0.29	0.31	
32	Environment Monitoring System at 10 locations	Pan City Initiative	Advertisement charges	Yes	Growth in tariff for clicking on website page	In %	5%										
33				Yes	Share of SPV	In %	50%										
34				No	No. of display boards	In No.	10										
35				No	Size of Display board	In Sq. feet	100										
36				No	Advertising rate	In Rs. Per sq.	6		6.6	6.9	7.3	7.6	8.0	8.4	8.8	9.3	
37	Water supply (Smart meter, Leak detection system, SCADA system etc.,)	Pan City Initiative	Reduction in Water Consumption	No	Growth in Advertisement rate	In %	5%										
38				No	No. of days per annum	In No	365	365	365	365	365	365	365	365	365	365	
39				Yes (Only O&M)	Existing water consumption	In MLD	240										
40				Yes (Only O&M)	Population	In No.	1500000	1500000	15,37,500	15,75,938	16,15,336	16,55,719	16,97,112	17,39,540	17,83,029	18,27,604	18,73,294
41				Yes (Only O&M)	Population growth	In %	2.50%										
42				Yes (Only O&M)	Water demand per person	In LPCD	128	135	135	135	135	135	135	135	135	135	135
43				Yes (Only O&M)	Non-Revenue water usage	In %	28%	10%	10%	10%	10%	10%	10%	10%	10%	10%	
44				Yes (Only O&M)	Water demand per person (considering 10% NRW)	In LPCD	178	150	150	150	150	150	150	150	150	150	150
45				Yes (Only O&M)	Water consumption (as per existing NRW of Smart Water supply system)	In MLD		267	274	281	288	295	302	310	317	325	333
46				Yes (Only O&M)	Water consumption post implementation of Smart Water supply system	In MLD		225	231	236	242	248	255	261	267	274	281
47				Yes (Only O&M)	Savings of Water	In MLD		-	-	44	45	46	48	49	50	51	52
48				Yes (Only O&M)	Water tariff	In Rs. Per	11000										
49	Yes (Only O&M)	No. of days per annum	In No.	365													
50	Yes (Only O&M)	Share of SPV	In %	15%													
51	Management convention Centre	Area Based Development	Rental fees	No	Conference Room 1	In No. of	200										
52				No	No. of events per annum	In No	180		200	210	220	230	240	250	260	270	
53				No	Average rent per event	In Rs.	30000		32,448	33,746	35,096	36,500	37,960	39,478	41,057	42,699	
54				No	Increase in rent	In %	4%										
55				No	Conference Room 2	In No. of	500										
56				No	No. of events per annum	In No	120		234	241	248	255	262	269	276	283	
57				No	Average rent per event	In Rs.	60000		66,150	69,458	72,930	76,577	80,406	84,426	88,647	93,080	
58				No	Increase in rent	In %	5%										
59				No	Conference Room 3	In No. of	1000										
60				No	No. of events per annum	In No	80		90	95	100	105	110	115	120	125	
61				No	Average rent per event	In Rs.	90000		1,01,124	1,07,191	1,13,623	1,20,440	1,27,667	1,35,327	1,43,446	1,52,053	

REVENUE ESTIMATES

S. No	Name of Initiative	Type of Initiative	Is it a PPP project?	Total Revenue	Unit	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10
	Other Sources														
66	Sale of Premium FSI (as provided RMC)	Area based development	No	300.0	(In Rs. Crore)			25	150	125					
67	Land Monetization	Area based development	No	1794.5	(In Rs. Crore)	-	-	494	518	181	191	200	210	0	0
68	Betterment charges	Area based development	No	75.3	(In Rs. Crore)	-	-	22.58	22.58	7.53	7.53	7.53	7.53	-	-
69	Property Tax	Area based development	No	198.4	(In Rs. Crore)	0	0	5.04	11.77	20.18	28.59	31.95	33.63	33.63	33.63
	Total - Pan City Initiative			114.6	(In Rs. Crore)	-	-	11.2	11.8	13.0	13.7	14.4	15.9	16.8	17.7
	Total - Area Based Development			2,707.0	(In Rs. Crore)	-	-	569.9	730.5	366.5	264.2	283.0	301.4	91.4	100.2
	Total			2,821.7	(In Rs. Crore)	-	-	581.1	742.3	379.5	277.9	297.4	317.3	108.2	118.0

CAPEX ASSUMPTIONS

S. No	Name of Initiative	Type of Initiative	Will it be financed through PPP?	Total	Unit	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10
1	Pan City Initiatives														
2	Passenger Information System (PIS) at bus-stops & In-bus information system, mobile app & portal for real time information, Multi-modal transport integration.	Pan City	No	48.0	(In Rs. Crore)	24.0	24.0	-	-	0	0	-	-	-	0
3	CCTV surveillance and Integration of buses with GPS, GIS & ICCC for fleet management & route-planning.	Pan City	No	10.0	(In Rs. Crore)	5	5	-	-	-	-	-	-	-	0
4	Smart card for payment in public transport.	Pan City	Yes	14.5	(In Rs. Crore)	7	7	-	-	-	-	-	-	-	0
5	Smart parking system.	Pan City	No	10.0	(In Rs. Crore)	5	5	-	-	-	-	-	-	-	-
6	ANPR and RLVD through CCTV Surveillance, AUTO CHALLAN for traffic violators & E-CHALLAN for transparency, Solar Wireless traffic controller- adaptive traffic signals, and Solar blinkers.	Pan City	Yes	31.5	(In Rs. Crore)	16	16	-	-	-	-	-	-	-	0
7	Smart bicycle storage with auto dock and dispatch system .	Pan City	No	8.1	(In Rs. Crore)	4	4	-	-	-	-	-	-	-	0
8	Intelligent pedestrian crossing system.	Pan City	No	1.2	(In Rs. Crore)	1	1	-	-	-	-	-	-	-	0
9	City Dashboard. Integrated command and control center	Pan City	No	40.0	(In Rs. Crore)	13	13	13	-	-	-	-	-	-	-
10	Automated CCTV surveillance systems at 1. Identified Major junctions 2. Public spaces (Commercial streets/ Open spaces) 3. In-bus surveillance.	Pan City	No	24.0	(In Rs. Crore)	12	12	-	-	-	-	-	-	-	0
11	Exhaustive Geographical Information System (GIS) for different layers.	Pan City	No	30.0	(In Rs. Crore)	10	10	10	-	-	-	-	-	-	0
12	RMC ERP	Pan City	No	25.0	(In Rs. Crore)	8	8	8	-	-	-	-	-	-	0
13	Digital Displays at 30 locations.	Pan City	Yes	3.0	(In Rs. Crore)	2	2	-	-	-	-	-	-	-	0
14	Online public services (portal/app)	Pan City	Yes	2.5	(In Rs. Crore)	1	1	-	-	-	-	-	-	-	0
15	A business portal for Rajkot.	Pan City	Yes	1.0	(In Rs. Crore)	1	1	-	-	-	-	-	-	-	0
16	Environment Monitoring Systems at 10 locations.	Pan City	No	15.0	(In Rs. Crore)	8	8	-	-	-	-	-	-	-	0
17	Public Announcement System	Pan City	No	2.0	(In Rs. Crore)	1	1	-	-	-	-	-	-	-	0
18	City Wifi	Pan City	No	2.0	(In Rs. Crore)	1	1	-	-	-	-	-	-	-	0
19	Smart meters at HH level with centralized monitoring.	Pan City	No	100.0	(In Rs. Crore)	33	33	33	-	-	-	-	-	-	0
20	Leak identification system.	Pan City	No	20.0	(In Rs. Crore)	10	10	-	-	-	-	-	-	-	0
21	Integrated SCADA systems for Sewage management integration of Sewage management system & Solid waste trucks with GPS, GIS and ICCC.	Pan City	No	20.0	(In Rs. Crore)	10	10	-	-	-	-	-	-	-	0
22	Smart bins integrated with ICCC.	Pan City	No	4.8	(In Rs. Crore)	2	2	-	-	-	-	-	-	-	0
23	Contingency (@3%)	Pan City	No	12.4	(In Rs. Crore)	5	5	2	-	-	-	-	-	-	-
24	DPR/PMC Cost (@ 5%)	Pan City	No	21	(In Rs. Crore)	9	9	3	-	-	-	-	-	-	-
25	Area Based Development														
26	SMART ECONOMIC DEVELOPEMENT AND EMPLOYMENT GENERATION														
27	Management Convention center and five star hotel	Area based development	No	0.00	(In Rs. Crore)										
28	Indoor and out door Exhibition	Area based development	No	140.00	(In Rs. Crore)	40	75	25							
29	Incubation centre	Area based development	No	60.00	(In Rs. Crore)	30	16	14							
30	Incubation centre	Area based development	No	20.00	(In Rs. Crore)		10	10							
30	Kaushalya Wardhan Swamman Project: Skill Development center	Area based development	No	10.00	(In Rs. Crore)		5	5							
31	Project Uthhan: Hawker's zone	Area based development	Yes	1.50	(In Rs. Crore)			2							

CAPEX ASSUMPTIONS

S. No	Name of Initiative	Type of Initiative	Will it be financed through PPP?	Total	Unit	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10
32	SMART AND ROBUST INFRASTRUCTURE	Area based development	No	0.00	(In Rs. Crore)										
33	Power	Area based development	No	53.00	(In Rs. Crore)		10	43							
34	Water Supply	Area based development	No	48.64	(In Rs. Crore)		30	19							
35	Waste Water	Area based development	No	47.70	(In Rs. Crore)		30	18							
36	Storm Water Drainage Drainage	Area based development	No	26.30	(In Rs. Crore)		13	13							
37	Solid Waste Management	Area based development	No	17.00	(In Rs. Crore)		6	11							
38	Project Sanman: Sanitation (Public Toilet)	Area based development	Yes	1.00	(In Rs. Crore)			1							
39	Road	Area based development	No	192.00	(In Rs. Crore)	62	81	49							
40	Utility ducting	Area based development	Yes	50.00	(In Rs. Crore)	10	20	20							
41	LED street light	Area based development	Yes	3.00	(In Rs. Crore)		2	1							
42	Environment Monitoring Stations	Area based development	No	0.20	(In Rs. Crore)		0								
43	INTELLIGENT TRAFFIC AND INTEGRATED TRANSPORT MANAGMENT	Area based development	No	0.00	(In Rs. Crore)										
44	Buses & BRTS shelter	Area based development	Yes	13.60	(In Rs. Crore)	6	8	-	-						
45	Multilevel car parking	Area based development	No	125.00	(In Rs. Crore)	15	30	30	50						
46	Cycle track in new racecourse	Area based development	No	1.00	(In Rs. Crore)			0	1						
47	Cycle Station & charging station of e-rickshaw	Area based development	No	4.00	(In Rs. Crore)			2	2						
48	SAFETY AND SECURITY FOR ALL	Area based development	No	0.00	(In Rs. Crore)										
49	Smart Surveillance	Area based development	No	10.00	(In Rs. Crore)			10							
50	Veerangana exp	Area based development	Yes	5.00	(In Rs. Crore)			2	3						
51	24x7 help line centre	Area based development	No	0.50	(In Rs. Crore)				1						
52	Model fire station	Area based development	No	5.00	(In Rs. Crore)		2	3							
53	Green pathways	Area based development	No	1.80	(In Rs. Crore)	1	1								
54	Foot Over Bridge	Area based development	Yes	2.70	(In Rs. Crore)			3							
55	HOUSING AND SOCIAL INCLUSION	Area based development	No	0.00	(In Rs. Crore)										
56	Affordable Housing	Area based development	Yes	555.84	(In Rs. Crore)		139	167	250						
57	Project Saishav: Model Anganwadi	Area based development	No	1.00	(In Rs. Crore)			1							
58	Digital school	Area based development	No	4.00	(In Rs. Crore)			4							
59	Health centre	Area based development	No	8.00	(In Rs. Crore)			8							
60	Digital library	Area based development	No	5.00	(In Rs. Crore)			5							
61	Community centre and Project Saksham Rajkot: shelter home	Area based development	No	2.00	(In Rs. Crore)			2							
62	ICONIC DEVELOPMENT	Area based development	No	0.00	(In Rs. Crore)										
63	Rejuvenation of lake and amusement parks	Area based development	Yes	97.09	(In Rs. Crore)	15	15	15	52						
64	Gram Haat & Cultural centre	Area based development	No	8.00	(In Rs. Crore)	2	5	1							
65	Sports Arena	Area based development	No	240.00	(In Rs. Crore)		4	42	195						
66	Parks and gardens	Area based development	No	60.69	(In Rs. Crore)		21	40							
67	Racecourse	Area based development	No	105.00	(In Rs. Crore)	15	40	50							
68	TECHNOLOGY FOR ALL	Area based development	No	0.00	(In Rs. Crore)										
69	Water-Smart meter, SCADA,	Area based development	Yes	20.00	(In Rs. Crore)			5	15						
70	Power-Smart meter	Area based development	No	24.00	(In Rs. Crore)		2	8	14						
71	Wifi and optical fibre cable	Area based development	No	8.00	(In Rs. Crore)			8							
72	GIS mapping	Area based development	No	5.00	(In Rs. Crore)			3	2						
73	Information Kiosks	Area based development	No	1.00	(In Rs. Crore)				1						

OPEX ASSUMPTIONS

S. No	Name of Initiative	Type of Initiative	Will it be managed by a Private Player on PPP	Total	Unit	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10
54	Affordable Housing	Area based development	Yes	9.7	(In Rs. Crore)				1.3896	1.3896	1.3896	1.3896	1.3896	1.3896	1.3896
55	Project Saishav: Model Anganwadi	Area based development	No	0.1	(In Rs. Crore)				0.01	0.01	0.01	0.01	0.01	0.01	0.01
56	Digital school	Area based development	No	0.3	(In Rs. Crore)				0.04	0.04	0.04	0.04	0.04	0.04	0.04
57	Health centre	Area based development	No	1.1	(In Rs. Crore)				0.16	0.16	0.16	0.16	0.16	0.16	0.16
58	Digital library	Area based development	No	1.1	(In Rs. Crore)				0.15	0.15	0.15	0.15	0.15	0.15	0.15
59	Community centre and Project Saksham Rajkot: shelter home	Area based development	No	0.1	(In Rs. Crore)				0.02	0.02	0.02	0.02	0.02	0.02	0.02
60	IONIC DEVELOPMENT	Area based development	No	0.0	(In Rs. Crore)										
61	Rejuvenation of lake and amusement parks	Area based development	Yes	17.5	(In Rs. Crore)					2.91276	2.91276	2.91276	2.91276	2.91276	2.91276
62	Gram Haat & Cultural centre	Area based development	No	1.7	(In Rs. Crore)				0.24	0.24	0.24	0.24	0.24	0.24	0.24
63	Sports Arena	Area based development	No	28.8	(In Rs. Crore)					4.8	4.8	4.8	4.8	4.8	4.8
64	Parks and gardens	Area based development	No	8.5	(In Rs. Crore)				1.2138	1.2138	1.2138	1.2138	1.2138	1.2138	1.2138
65	Racecourse	Area based development	No	7.4	(In Rs. Crore)				1.05	1.05	1.05	1.05	1.05	1.05	1.05
66	TECHNOLOGY FOR ALL	Area based development	No	0.0	(In Rs. Crore)										
67	Water-Smart meter, SCADA,	Area based development	Yes	6.0	(In Rs. Crore)					1	1	1	1	1	1
68	Power-Smart meter	Area based development	No	0.0	(In Rs. Crore)										
69	Wifi and optical fibre cable	Area based development	No	5.6	(In Rs. Crore)				0.8	0.8	0.8	0.8	0.8	0.8	0.8
70	GIS mapping	Area based development	No	1.8	(In Rs. Crore)				0.25	0.25	0.25	0.25	0.25	0.25	0.25
71	Information Kiosks	Area based development	No	0.3	(In Rs. Crore)					0.05	0.05	0.05	0.05	0.05	0.05
72	ENVIRONMENTAL SUSTAINBILITY	Area based development	No	0.0	(In Rs. Crore)										
73	Solar Project	Area based development	Yes	3.2	(In Rs. Crore)			0.246	0.246	0.456	0.456	0.456	0.456	0.456	0.456
74	GWR-percolation pit	Area based development	No	0.2	(In Rs. Crore)			0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
75	ADB loan repayment	Area based development	No	67.2	(In Rs. Crore)	-	-	-	10	10	10	10	10	10	10
76	SPV Administration cost	Area based development	No	55.5	(In Rs. Crore)	2	3	5	5	5	6	7	7	8	9
77	Total - Pan City Initiative			179.0	(In Rs. Crore)	0.0	0.0	14.1	23.6	23.6	23.6	23.6	23.6	23.6	23.6
78	Total - Area Based Development			307.9	(In Rs. Crore)	1.50	2.50	4.63	36.78	42.19	42.73	43.33	43.99	44.71	45.51
79	Total			486.9	(In Rs. Crore)	1.5	2.5	18.7	60.3	65.8	66.3	66.9	67.6	68.3	69.1

DEBT STRUCTURING

S. No	Particular	Total(Value in Rs. Crore)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
1	Development of Pan City initiatives	445.6	187.7	187.7	70.2	-	-	-	-	-	-	-
2	Development of Area Based Development Initiatives	2,177.5	211.4	629.9	689.5	646.7	-	-	-	-	-	-
3	Operation and Maintenance cost of Pan City Initiatives	179.0	-	-	14.1	23.6	23.6	23.6	23.6	23.6	23.6	23.6
4	Operations and Maintenance cost of Area based development initiatives	307.9	1.5	2.5	4.6	36.8	42.2	42.7	43.3	44.0	44.7	45.5
5	Information Education and Communication @ 1%	-	-	-	-	-	-	-	-	-	-	-
6	Total CAPEX	2,623.0	399.0	817.6	759.7	646.7	-	-	-	-	-	-
7	Total Cost	3,109.9	400.5	820.1	778.4	707.1	65.8	66.3	66.9	67.6	68.3	69.1
8	Interest during construction	-	-	-	-	-	-	-	-	-	-	-
9	Debt repayment	-	-	-	-	-	-	-	-	-	-	-
10	Convergence funds for Pan City Initiatives	111.0	46.0	48.0	17.0	-	-	-	-	-	-	-
11	Convergence funds for Area Based Development Initiatives	476.5	24.8	181.0	201.7	69.0	-	-	-	-	-	-
12	Revenue from Pan City Initiatives	114.6	-	-	11.2	11.8	13.0	13.7	14.4	15.9	16.8	17.7
13	Revenue from Area Based Development Initiatives	2,707.0	-	-	569.9	730.5	366.5	264.2	283.0	301.4	91.4	100.2
14	GoI Grant for SMART CITY PROJECT	500.0	200.0	200.0	100.0	-	-	-	-	-	-	-
15	State Equity Inflow for SMART CITY	500.0	200.0	200.0	100.0	-	-	-	-	-	-	-
16	PPP finance for Pan City Initiatives	52.5	26.3	26.3	-	-	-	-	-	-	-	-
17	PPP finance for Area based development Initiatives	683.0	12.6	168.2	178.2	324.1	-	-	-	-	-	-
18	Total funds	2,159.5	509.6	823.4	1,177.9	1,135.4	379.5	277.9	297.4	317.3	108.2	118.0
19	Commercial Loan Required	-	-	-	-	-	-	-	-	-	-	-
20	Debt taken	-	-	-	-	-	-	-	-	-	-	-
21	Interest on Debt	-	-	-	-	-	-	-	-	-	-	-
	<i>Surplus Debt at EoY</i>											
	Tenure of loan repayment (annual)	5.0										
	Interest rate (annual compounding)	0.1										
	PMT	-										
	Principal Remaining		-				-	-	-	-	-	-
	Loan repayment						-	-	-	-	-	-
	Principal Repaid		-	-	-	-	-	-	-	-	-	-
	Interest		-	-	-	-	-	-	-	-	-	-
	Loan repayment capacity					428.4	313.7	211.6	230.5	249.7	40.0	48.9

P & L STATEMENT

Year of Operation	Total	Unit	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
	-											
Corporate tax payable	626.36	In Rs. Crore	-	-	172.98	209.88	82.45	47.10	53.65	60.30	-	-
MAT payable	377.01	In Rs. Crore	-	-	97.42	129.43	50.84	29.04	33.08	37.19	-	-
Tax computation												
PBT as per companies Act			(1.50)	(41.83)	499.83	606.46	238.23	136.09	155.02	174.24	(35.55)	(26.61)
Add: Total Depreciation as per Co. Act			-	39.33	62.59	75.50	75.50	75.50	75.50	75.50	75.50	75.50
Less: Depreciation as per IT Act			-	54.03	139.40	205.72	223.25	189.76	161.30	137.10	116.54	99.06
Gross Taxable Income			(1.50)	(56.53)	423.02	476.24	90.48	21.83	69.22	112.64	(76.59)	(50.16)
Carry forward loss position			(1.50)	(58.03)	-	-	-	-	-	-	(76.59)	(126.75)
PBT as per IT act - carry forward of losses			-	-	364.99	476.24	90.48	21.83	69.22	112.64	-	-
Income tax liability			-	-	126.32	164.82	31.31	7.55	23.96	38.98	-	-
MAT payable			(0.32)	(8.93)	106.67	129.43	50.84	29.04	33.08	37.19	(7.59)	(5.68)
MAT eligible to be carried forward			-	-	-	-	19.53	21.49	9.13	-	-	-
Carry forward balance of MAT (end of year)			-	-	-	-	19.53	41.02	50.15	11.16	11.16	11.16
MAT credit utilized against the normal tax			-	-	-	-	-	7.55	23.96	38.98	-	-
Tax = (max of MAT / IT) minus MAT credit availed			-	-	126.32	164.82	50.84	29.04	33.08	-	-	-

CASH FLOW STATEMENT

Year of Operation	Total	Unit	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
			1	2	3	4	5	6	7	8	9	10
Cash flow Statement												
Cash Inflows												
Convergence funds for Pan City Initiatives	111	In Rs. Crore	46	48	17	-	-	-	-	-	-	-
Convergence funds for Area Based Development Initiatives	476	In Rs. Crore	25	181	202	69	-	-	-	-	-	-
GoI Grant for SMART CITY PROJECT	500	In Rs. Crore	200	200	100	-	-	-	-	-	-	-
State Equity Inflow for SMART CITY	500	In Rs. Crore	200	200	100	-	-	-	-	-	-	-
ULB Equity Inflow (Capital)	-	In Rs. Crore	-	-	-	-	-	-	-	-	-	-
Commercial Loan inflow	-	In Rs. Crore	-	-	-	-	-	-	-	-	-	-
Net Cash accruals = (PAT+depreciation)	1,931	In Rs. Crore	(2)	(3)	436	517	263	183	197	250	40	49
Total Inflows	3,518	In Rs. Crore	469	627	855	586	263	183	197	250	40	49
Cash Outflows												
CAPEX	1,887	In Rs. Crore	360	623	582	323	-	-	-	-	-	-
Interest during construction	-	In Rs. Crore	-	-	-	-	-	-	-	-	-	-
Debt repayment	-	In Rs. Crore	-	-	-	-	-	-	-	-	-	-
Total outflows	1,887	In Rs. Crore	360	623	582	323	-	-	-	-	-	-
Net cash inflow	1,631	In Rs. Crore	109	3	273	264	263	183	197	250	40	49
			109	3	273	264	263	183	197	250	40	49

BALANCE SHEET

Year of Operation	Total	Unit	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
			1	2	3	4	5	6	7	8	9	10
Balance Sheet												
Convergence funds	5,001.4	(In Rs. Crore)	71	300	518	587	587	587	587	587	587	587
GoI Grant for SMART CITY PROJECT	4,600.0	(In Rs. Crore)	200	400	500	500	500	500	500	500	500	500
State Equity Inflow for SMART CITY	4,600.0	(In Rs. Crore)	200	400	500	500	500	500	500	500	500	500
Commercial Loan inflow	-	(In Rs. Crore)	-	-	-	-	-	-	-	-	-	-
Reserves and Surplus	8,260.4	(In Rs. Crore)	(2)	(43)	330	772	959	1,066	1,188	1,362	1,327	1,300
Total	22,462	(In Rs. Crore)	469	1,056	1,849	2,359	2,547	2,654	2,776	2,950	2,914	2,888
Application of funds												
CAPEX	13,152.0	(In Rs. Crore)	360	944	1,463	1,710	1,635	1,559	1,484	1,408	1,333	1,257
	-	(In Rs. Crore)										
	-	(In Rs. Crore)										
Cash Accruals	9,309.7	(In Rs. Crore)	109	112	386	649	912	1,095	1,292	1,542	1,582	1,631
Total	22,462	(In Rs. Crore)	469	1,056	1,849	2,359	2,547	2,654	2,776	2,950	2,914	2,888

Mock Scores by WRI

Rajkot Smart city Proposal			
Mock Marking			
Date:27.03.2017			
City Level			Mock Score
Total Marks = 30			
No	Criteria	%	
1	Vision and goals	5	4
2	Strategic plan	10	6
3	Citizen engagement	10	6
4	Baseline, KPIs, self-assessment and potential for improvement	5	4
Area Based Development Criteria -(Green Field)			Total Marks = 55
No	Criteria	%	
1	'Smartness' of proposal	7	5
2	Citizen engagement	5	3
3	Results orientation	15	10
4	Process followed	3	2
5	Implementation framework, incl. feasibility & cost-effectiveness	25	15
PAN City Solution Criteria			Total Marks = 15
No	Criteria	%	
1	'Smartness' of proposal	3	2
2	Citizen engagement	1	0.5
3	Results orientation	5	3
4	Process followed	1	0.25
5	Implementation framework, including feasibility & cost-effectiveness	5	3
			63.75

Subject:	Rajkot SCP-3 mock score
From:	Vijay Anadkat (Vijay.Anadkat@wri.org)
To:	rnc_jnnum@yahoo.com; himrag_600@yahoo.com;
Date:	Monday, March 27, 2017 12:16 PM

Dear Sir,

As it is required to carry out mock marking by the mentoring agency, therefore, we have carried out mock scoring for Rajkot draft SCP-3 proposal an exercise as suggested by the MoUD for mock scoring

Please find attached herewith Mock Scoring of Rajkot SCP-3 proposal.

It has been found that the Rajkot Smart City Proposal -3 scores 63.75 marks out of total 100 marks as per attached .xls sheet

Score are derived based on followings:

1. Annexure-2 : Self Assessment made by the City based on scenario build
2. MoUD Smart city guidelines
3. MoUD Template Smart city Proposal dt 16.11.2015
4. MoUD OM No.K-15016/61/2015-SC-1 dt. 12.11.2015

It has been strongly recommended that, Annexures should have all evidence for citizen engagement, process follow, NOC from other line agencies, convergence schemes, land title etc.,

It is believed that, these time MoUD will select cites having at least "X" score (minimum datum line will be decided by MoUD)

Best wishes

Thanking you

Best regards

Vijay Anadkat

Fellow

Sustainable Cities

WRI India

WRI-India.org

Direct: +91 11 40550776 | Cell: +91 97145 03705

email: vijay.anadkat@wri.org | Skype: vanadkat | Twitter: Vijay_Anadkat@twitter

WRI India is an environmental group that works closely with leaders to turn big ideas into action to sustain India's natural resources - the foundation of economic opportunity and human well-being.

Attachments

- Mock Marking_Rajkot SCP.xls (23.00KB)

RAJKOT City KPIs- Current and Aspiration

KPI	INDICATOR	PRESENT STATUS	ASPIRATION PAN CITY (Excluding ABD)	ASPIRATION ABD AREA
Livability Index				
	Livability Index	59.63	70	85
Water Supply Services				
	Coverage of water supply connection (%)	98%	100%	100%
	per capita water supply in LPCD	128	135	135
	Extent of metering of water connections	1%	100%	100%
	Extent of non revenue water (%)	28%	10%	10%
	Continuity of water supply	20 minutes	24 hours	24 hours
	Efficiency of redressal of customer complaints (%)	90%	100%	100%
	Quality of water supplied (%)	100%	100%	100%
	Cost recovery in water supply services (%)	50%	90%	100%
	Efficiency in collection of water supply related charges(%)	60%	95%	100%
Waste Water Management				
	Coverage of toilets (%)	100%	100%	100%
	Coverage of sewage network services (%)	72%	100%	100%
	Treatment Capacity in MLD	111	317	25
	Collection efficiency of sewage network (%)	90%	100%	100%
	Adequacy of sewage treatment capacity (%)	80%	100%	100%
	Quality of sewage treatment (%)	96%	98%	100%
	Extent of reuse and recycling of sewage in MLD	0	80	25
	Extent of Cost recovery in sewage management (%)	100%	100%	100%
	Efficiency of redressal of customer complaints (%)	96%	100%	100%
	Efficiency in collection of sewage charges (%)	65%	100%	100%
Solid Waste Management				

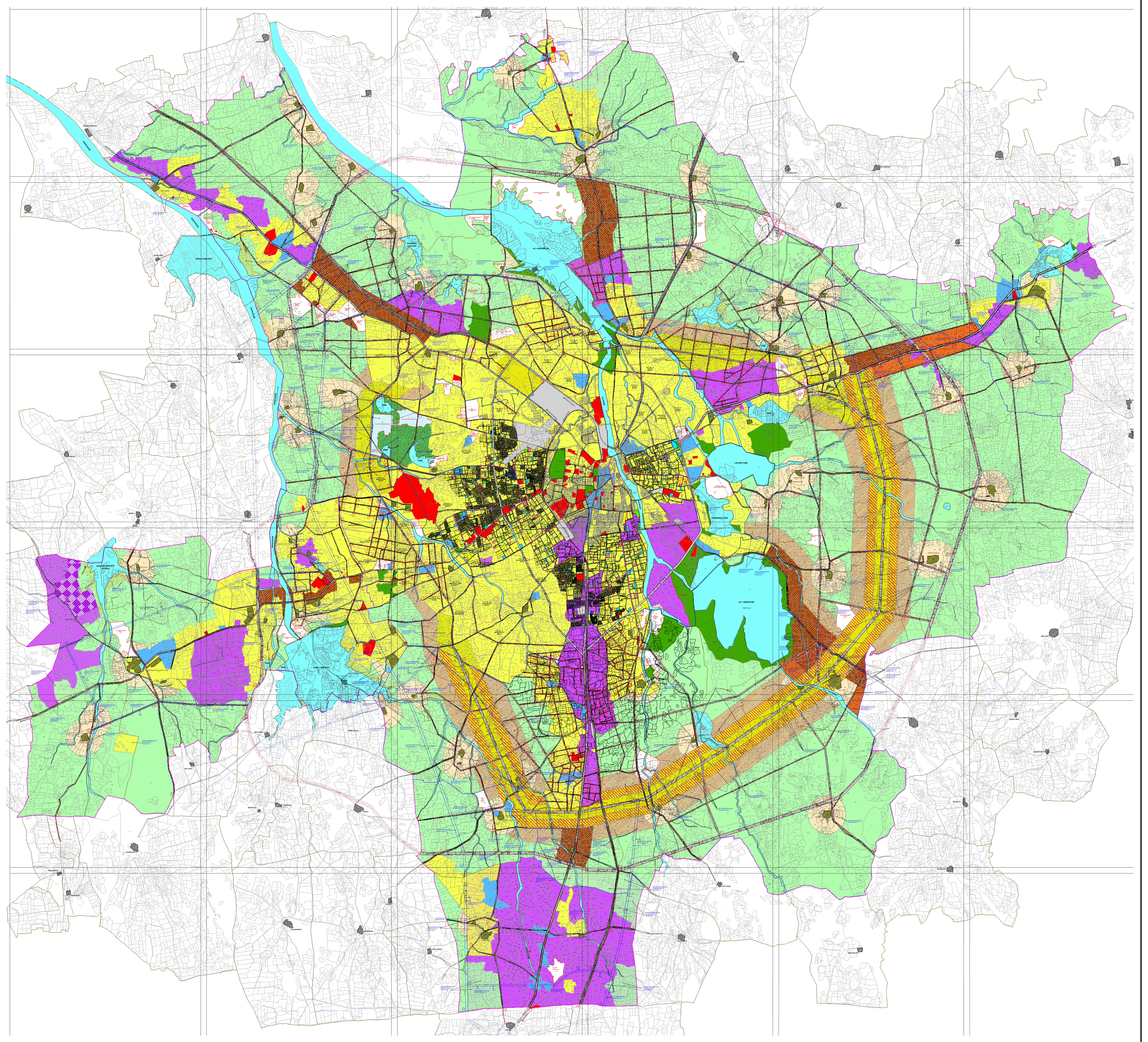
KPI	INDICATOR	PRESENT STATUS	ASPIRATION PAN CITY (Excluding ABD)	ASPIRATION ABD AREA
	HH level coverage of Solid Waste management services (%)	100%	100%	100%
	Efficiency of collection of municipal solid waste (%)	99%	100%	100%
	Extent of segregation of municipal solid waste (%)	20%	80%	100%
	Extent of municipal solid waste recovered (%)	97%	100%	100%
	Extent of scientific disposal of municipal solid waste (%)	100%	100%	100%
	Extent of cost recovery in SWM services (%)	32%	90%	100%
	Efficiency in redressal of customer complaints (%)	98%	100%	100%
	Efficiency in collection of SWM charges (%)	97%	100%	100%
	Waste to Energy in TPD	5	10	5
	Waste to compost in TPD	1	5	5
Storm Water Drainage				
	Coverage of storm water drainage network (in KM)	5	65	40
Transport				
	No of BRTS Buses	10	15	20
	BRTS network length	10.7 KM	15	8.5 KM
	Nos. of City Buses	90	150	30
	Nos. of City bus Route	44	65	15
	Public Transport usage	54000	350000	700000
	Digital Payment	0.01	0.4	0.4
	NMT length	22KM	56KM	51 KM
Safety				
	Surveillance through CCTV	112	1000	200
	Area Under Surveillance	1 Sq. KM	100 Sq. KM	3.76 Sq. KM
Energy				
	Capacity of Solar system installed	0.31 MW	3.0 MW	4.5 MW
Environment				
	Environment Monitoring system	2	12	2

KPI	INDICATOR	PRESENT STATUS	ASPIRATION PAN CITY (Excluding ABD)	ASPIRATION ABD AREA
	Gardens(Area)	5.8 Lakhs Sq. Meter	7.1 Lakh Sq. Meter	1.22 Lakh Sq. Meter
	% Green area of the total city	4%	11%	30%
Housing & Slum rehabilitation				
	Affordable housing	5400	15400	5000
Employment				
	Workforce Participation	35%	50%	60%
Education				
	Literacy Rate	87%	95%	95%
Online services				
	% of RMC services available online	25%	100%	100%

RUDA's part plan of DP
indicating proposal for
allocation of plot for Smart City
Node and Notification of
Gujarat Urban Planning and
housing department for
modification in DP

DRAFT DEVELOPMENT PLAN 2031 (Second Revised) of RAJKOT URBAN DEVELOPMENT AUTHORITY-RUDA

Published under Section - 17. (1) (a) (ii) of The Gujarat Town Planning & Urban Development Act - 1976



Proposed Landuse Map Under Section-16

Legend

- | | | | |
|--|--------------------------------|--|-----------------------------------|
| | Agriculture Zone | | Affordable-HSG Zone (RAH) |
| | Commercial Zone | | Gamtal |
| | Gamtal Extension | | T.P.S. Reservation |
| | Industrial Zone | | Water Body |
| | Info. & Tech. Zone | | F.P. No. |
| | Knowledge & Institutional Zone | | Survey No. |
| | Obnoxious Industrial Zone | | RailRoad/Airport/ST Existing Road |
| | Polycentric Node | | Proposed Road |
| | Public Purpose Zone | | Ruda Boundary |
| | Recreation Zone | | Old DP Boundary |
| | Residential Zone | | TPS Boundary |
| | Reservation | | RMC Boundary |
| | Transist Oriented Zone | | City Area A |
| | | | City Area B |
| | | | Village Boundary |
| | | | Survey No. Boundary |
| | | | Rail Track |
| | | | H.F.L. Line |

Proposed Modifications U/S -17 (1) (a) (ii)

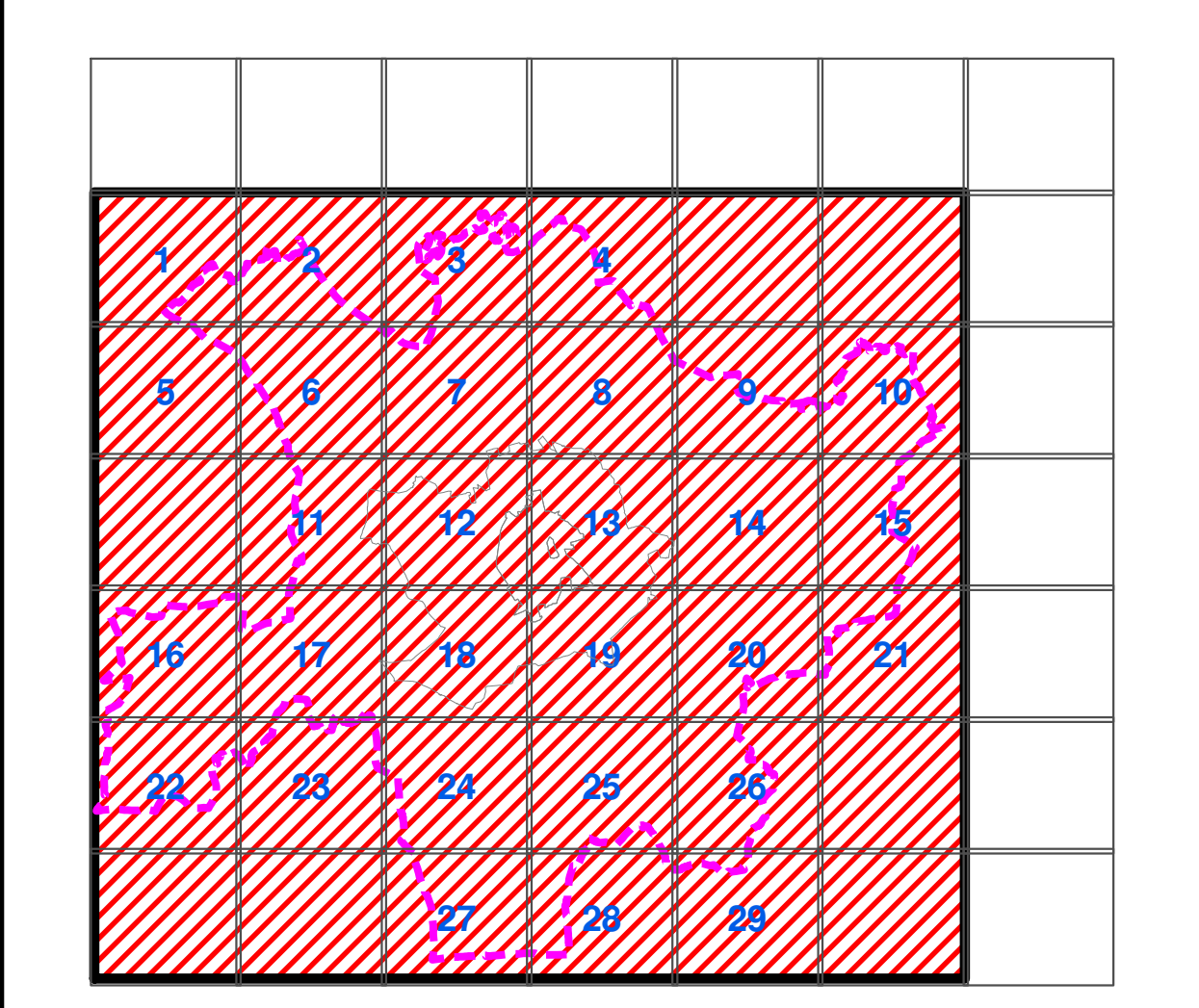
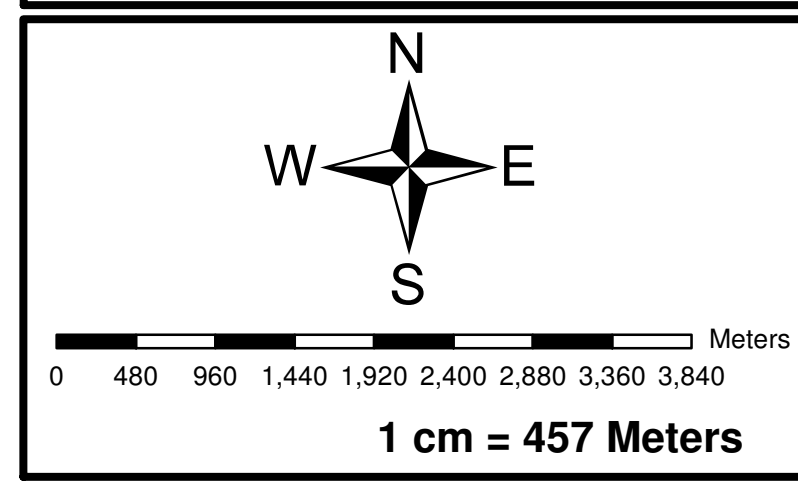
- | | | | |
|--|------------------------|--|---------------------------|
| | Agriculture Zone | | Affordable-HSG Zone (RAH) |
| | Commercial Zone | | Water Body |
| | Gamtal Extension | | New/ Modified Road |
| | Industrial Zone | | Deleted Road |
| | Transport Node | | |
| | Restricted Zone | | |
| | Smart City Node | | |
| | Public Purpose Zone | | |
| | Recreation Zone | | |
| | Residential Zone | | |
| | Reservation | | |
| | Transist Oriented Zone | | |

Proposed Modification in the Draft Revised Development Plan of Rajkot Urban Development Authority (RUDA) under Government Notification of Urban development & Urban Housing Department No.- GH/V/126 of 2016/DVP-13-2016-223702-1, Dated-15.06.2016.

(P.L. Sharma)
Chief Town Planner
Gujarat State

(Neela Manshi)
Officer on special Duty & Ex-Officio
Joint Secretary to the Government of Gujarat
Urban Development & Urban Housing Department

Sheet No:00




R U D A
RAJKOT URBAN DEVELOPMENT AUTHORITY

Capacity building project for
Low carbon and Climate
Resilient Building in India

Initiatives of the city for SCP

Capacity building project for Low carbon and Climate Resilient Building in India

 Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Embassy of Switzerland in India

Shri. Vijay Nehra (IAS)
Dhebarbhai Road,
Rajkot (Gujarat) - INDIA
Commissioner Office
Tele Phone: +91-281-2224133
Fax : +91-281-2224258
E-Mail : mc_rmc@rmc.gov.in

Our reference: 850 22 SINSH-ZIEDA
Contact person: Dr. Shirish Sinha
Phone: +91 11 4995 9570
Fax: +91 11 49959589
Mail: daniel.ziegerer@eda.admin.ch
New Delhi, 18.05.2015

Subject: Capacity Building Project for Low Carbon and Climate Resilient City Development in India (CapaCITIES)

Dear Shri Nehra,

Thank you for meeting our team on April 20, 2015 in your office in Rajkot. It was a pleasure to interact with you and discuss the possibilities of collaboration with Rajkot Municipal Corporation regarding the CapaCITIES project.

We also had good interactions with other stakeholders in the city.

After extensive analysis, we have selected Rajkot city to be part of the CapaCITIES project. The other three cities are Coimbatore, Udaipur and Siliguri. The fields of engagement in the city are being identified and we will consult with you before finalising them. We plan to organise a further consultation meeting and my office will be in contact with you in this regard.

We once again thank you and your staff for their time in discussing the priorities of the cities.

Sincerely yours,


Daniel Ziegerer
Counsellor and Director of Cooperation



Embassy of Switzerland in India
Climate Change and Development Division
Chandragupta Marg, Chanakyapuri, New Delhi - 110021
Phone: +91 11 4995 9570 Ext. 426
Fax: +91 11 4995 9589
Daniel.ziegerer@eda.admin.ch
www.eda.admin.ch/newdelhi

Shri. Vijay Nehra IAS
Commissioner
Rajkot Municipal Corporation
Rajkot (Gujarat)
Tele Phone: +91-281-2224133
Fax : +91-281-2224258
E-Mail : mc_rmc@rmc.gov.in

Our reference: 850.22 SINSH-ZIEDA
Contact person: Dr. Shirish Sinha
Phone: +91 11 4995 9570
Mail: shirish.sinha@eda.admin.ch
New Delhi, 12.10.2015

**Capacity Building Project for Low Carbon and Climate Resilient City Development in India
(CapaCITIES)**

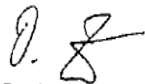
Dear Shri Nehra,

Thank you for your continued support in defining the next steps under the CapaCITIES project. Our team has benefitted from the interaction with you and your colleagues to refine the fields of cooperation and collaboration with the Municipal Corporation. The purpose of this letter is to inform you on the development of the project and its status.

After consultation with all four partner cities - Coimbatore, Rajkot, Siliguri and Udaipur - we have finalised the overall project design and the broader fields of cooperation. The summary of the CapaCITIES project is enclosed. Subsequently, we have published the global tender for selecting the implementing partner. The evaluation and selection of the implementing partner should be concluded by end of December 2015 and the first implementation phase should be ready for launching in April 2016.

We once again thank you and your staff for the past exchanges regarding the priorities of the project and look forward to further deepen our cooperation.

Sincerely yours,



Daniel Ziegerer
Director of Cooperation

CC: Ms Alpana Mitra, OSD, RMC (alpanamitra@gmail.com)

Encl.: Project Brief CapaCITIES

Content

1.	Introduction	3
2.	CapaCITIES project of the Swiss Agency for Development and Cooperation (SDC)	3
3.	Project design	4

1. Introduction

Estimates show that by the year 2032, India's urban population will exceed its rural populace. Cities are one of the major hot spots in terms of sources for greenhouse gas emissions as well as in terms of vulnerability to climate change. Furthermore, rapid urbanisation, population and economic growth are creating pressure on urban systems. Climate change is hence adding more stress on urban systems. Integrated, sustainable planning of urban systems is key for turning into a low carbon development pathway and strengthening the resilience of these fragile systems.

India's new cities are also likely to become a major source of energy consumption and greenhouse gas emissions. It is anticipated that with the current trends of urbanisation, India's per capita CO₂-emissions will triple by 2030 in comparison to 2012. However, since much of India's new urban development is now starting to happen, there is tremendous opportunity and potential for climate-proofing India's future urbanisation. This will require integration of low carbon development and climate resilience building measures into urban planning and its implementation. Infrastructure developments such as energy systems, buildings and roads can thus be realized in more energy efficient manner and include the promotion of renewable energy. Likewise, urban systems can be created which are more resilient to climate change impacts and extreme events/disasters.

The proposed project is in line with the Government of India's Smart City Mission, Atal Mission for Rejuvenation and Urban Transformation (AMRUT), Clean India Mission and the National Mission on Sustainable Habitat (NMSH) of the National Action Plan on Climate Change, which strives to address environment including climate change by integrating both adaptation and mitigation actions into urban planning.

2. CapaCITIES project of the Swiss Agency for Development and Cooperation (SDC)

Taking into account the challenges above, the Global Programme Climate Change (GPCC) of the Swiss Agency for Development and Cooperation (SDC) in India is developing a new "**Capacity Building Project for Low Carbon and Climate Resilient City Development in India (CapaCITIES)**". The goal of the CapaCITIES project is to "strengthen the capacities of city authorities to plan and implement measures for reducing greenhouse gas emissions and for coping with the effects of a changing climate in an integrated manner". SDC through the CapaCITIES project aims to work with 3-4 cities in the first phase (2015 – 18).

The planned CapaCITIES project focus on the cooperation with selected Indian cities in order to:

- Meet the challenges of urban growth, poverty and climate change risks;
- Exchange on know how regarding the integration of mitigation and adaptation actions into city action plans;
- Discuss and exchange on cities' needs regarding scientific and technical knowledge as well as on governance and finance issues in realizing integration of mitigation/adaptation measures into planning and implementation;
- Exchange and support regarding strengthening capacities of city authorities to plan and implement low carbon development and climate adaptation actions in implementation and decision-making.

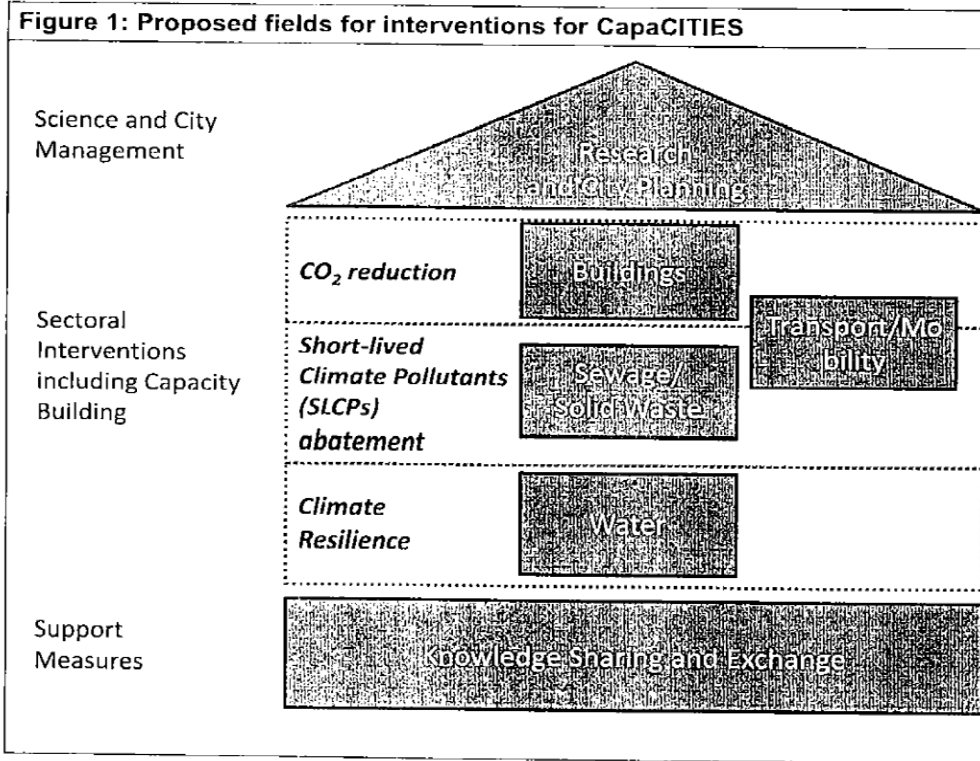
3. Project design

The preparatory phase of the project was so far used to map the Indian and Swiss policy landscape and to assess the need for integration of climate change concerns at city level in India. It was also used to identify relevant experience and knowledge that can be leveraged and shared from Switzerland. This resulted in a broad framework of strategic fields that were considered key for building sustainable cities in India. These nine strategic fields were: city management and planning (including spatial planning), buildings, transport, water, solid waste and sewerage, industry, city greening, integrated risks and hazard mapping, and communication and co-operation.

As a result of the scoping process and preliminary consultations with cities on their priorities for a possible collaboration in the framework of the CapaCITIES project, four partner cities were identified: Coimbatore (Tamil Nadu), Rajkot (Gujarat), Siliguri (West Bengal) and Udaipur (Rajasthan). These four cities are witnessing rapid urbanisation and are likely to be facing significant increases in energy demand and greenhouse gas emissions (CO₂ and short-lived climate pollutants such as methane and black carbon). At the same time, the four cities are vulnerable to risks posed by climate and non-climate induced extreme weather events and the impact of climate change on natural resources such as water. The emerging threats of climate change will compel significant adaptations in urban planning and infrastructure and measures towards mitigation of greenhouse gases.

Based on the scoping process and consultations, a project concept framework has been developed. It has four main areas of intervention (see Figure 1): 1) Research and City Planning; 2) Mitigating GHG emissions through long-term CO₂ reduction and through short lived climate

pollutants (SLCPs) in the areas of buildings, transport/mobility and sewage/solid waste; 3) Climate resilience for adaptation to climate change in the area of water; and 4) Knowledge Sharing and Exchange.



The focus of the thematic fields for engagement was driven by the climate change related challenges faced by the partner cities. As these four partner cities are rapidly growing, the city authorities are facing challenges for meeting the demands of citizens and ensuring availability of capable infrastructure to deliver services. Most of the current planning is based on socio-economic and population growth as drivers and fails to sufficiently take into consideration the long-term climate and environmental changes that will also impact these cities. Where initial efforts towards climate change conscious planning have been made (for example Rajkot is in the process of developing a Low Emission Development Strategy), it so far resulted in piecemeal rather than holistic solutions. The fact that some of the partner cities are revisiting their

City Development Plans and Master Plans, provides an opportunity for supporting city planning with climate science and research.

The strategic orientation of the CapaCITIES project is foreseen to include both mitigation and adaptation aspects jointly and shall follow a participatory work approach. To give the project a framework around the selected fields of intervention and allow for monitoring of the progress, some elements of the EEA (European Energy Award) methodology - like the set-up of an interdepartmental team (e.g. in the form of a City Development Committee), the definition of an action plan based on an initial study/research/review as well as the use of monitoring tools - could be integrated into the approach. Likewise, instruments of other relevant approaches and methodologies could be adapted to suit the needs of the project and integrated. Knowledge exchange shall be facilitated among cities as well as with cities from Switzerland and other developing countries. The basic strategy for each of the thematic fields (city planning, buildings, transport/mobility, municipal solid waste/sewage and water) as shown in Figure 1, is to mobilize appropriate expertise, provide capacity building of city authorities and other private and public stakeholders in each sector and support the development and implementation of specific action plans and measures. It is envisaged that in each of the strategic thematic fields, quick win measures will be identified, developed and implemented.

As the cities grow, their demand for energy to meet the lighting, space cooling/heating and transport will increase. Most of the partner cities are already facing increasing demand. This increase in energy demand will result in an increasing the greenhouse gas footprint of the city, especially in terms of carbon dioxide emissions. At the same time, most of the partner cities are struggling with the problems of methane emissions (from lack of scientific disposal of municipal solid waste and sewage) and air pollution and black carbon emissions from the transport sector, inferior quality or adulterated fuels in vehicles and congestions. In order to mitigate the risks of increase in greenhouse gas emissions, the CapaCITIES project aims to reduce the long-term carbon dioxide emissions by focusing on the building sector and reduce short lived climate pollutants (SLCPs) by focusing on scientific management and disposal (including recovering energy) from municipal solid waste and sewage (including addressing issues of soil and water pollution and pollution of water bodies and recovery of water from wastewater) as well as by addressing the problem of air pollution and black carbon through transport and mobility solutions.

Another key challenge for all the partner cities is their resilience to climate change impacts and variability. Most of the cities have not yet mapped potential climate change impacts. The CapaCITIES project therefore aims to assist cities in conducting an integrated vulnerability, risks and hazard analysis. This will provide an important basis for improved city planning. Linked to the absence of long-term climate impacts assessment is the issue of water security. As cities

grow, the demand for water will further increase while climate change is likely to impact its availability. The partner cities, while have secured water supplies to meet their current municipal services, yet need to reassess their water supply in view of future climate change impacts. Another focus of the the CapaCITIES project therefore is to support the cities in ensuring water security in order to enhance their resilience to climate change.

Based on consultation with the partner cities, specific priorities for each of the thematic fields within the project concept framework have been mapped. A detailed description of these possible activities in each thematic field has been discussed with the partner cities. This provides the basis for the planned scope of work. However, while an initial understanding on these priority issues has been reached with the partner cities, there is a need for maintaining some flexibility to modify and include evolving priorities of partner cities during the course of project implementation.

Identified Fields of Cooperation/Engagement in Partner Cities

Table 1. CapaCITIES: Fields of Intervention with Partner Cities						
Cities/Fields of Interventions	Research, City Planning	CO2 Reduction		Abatement of Short-lived Climate Pollutants	Climate Resilience	Knowledge Exchange
		Buildings	Transport/Mobility	Sewage/Solid Waste	Water	
Coimbatore	Research and Analysis for developing a low carbon and climate resilience plan from climate change impacts for the city.	<p>Technical support and assistance for inclusion of energy efficiency through retrofitting and renewable energy in existing government and municipal corporation buildings</p> <p>Technical support for integration of energy efficiency guidelines in building bye-laws for construction of new residential and commercial buildings</p>	<p>Technical support for promoting non-motorised transport</p> <p>Review City Mobility Plan to include low carbon solutions</p>	<p>Technical support and knowledge for waste management solutions including options for decentralized solid waste treatment facilities</p> <p>Technical assistance for developing micro sewage treatment plants infrastructure for recovery of water and address pollution of water bodies</p>	Research and analysis for long-term sustainability of water availability	Sharing best practices and knowledge in identified fields and in urban planning
Rajkot	<p>Research and Analysis for developing Resilience Plan from climate change impacts</p> <p>Technical assistance and support in implementing mitigation action plan identified as part of on-going Urban LEDS project</p>	<p>Focus: Affordable Housing Programme of RMC</p> <p>Technical Assistance for making RMC's affordable housing projects energy efficient</p> <p>Quick wins: Training programme/design charrette on energy efficiency in multi-storey residential buildings</p> <p>Project design for integrating energy efficient appliances in existing/to be completed affordable housing projects (1200 houses)</p>	<p>Niche technical solutions in transport sector. E.g.; electrification of public transport, conversion of existing BRTS into a green corridor</p> <p>Quick win Mobility Solutions for implementation based on UNEP Mobility Study for Rajkot</p>	<p>Technical assistance and support for scientific disposal and recovery of energy from waste</p> <p>Technical support for recovery of water and energy from treated wastewater (Waste water treatment infrastructure already under implementation, including decentralized treatment facilities)</p>	<p>Research and analysis for long-term sustainability of water availability and specific interventions for rejuvenation of water bodies (existing reservoirs), reducing pollution and groundwater recharge including urban watersheds</p> <p>Quick wins: Energy efficiency in water supply and distribution; capping water leakages</p>	Sharing best practices and knowledge in identified fields and in urban planning
Siliguri	<p>Research and Analysis for developing Resilience Plan from climate change impacts especially with focus on risks and vulnerabilities</p> <p>A city plan with a vision of making Siliguri a Green City</p>	<p>Technical support for energy efficiency in:</p> <ul style="list-style-type: none"> New buildings planned in the public and private sector Retrofitting energy efficiency measures in existing building stocks includ- 	City Mobility Plan in conjunction with Siliguri Jalpaiguri Development Authority to reduce vehicular emissions and air pollution	<p>Technical assistance and support for scientific disposal of municipal solid waste</p> <p>Recovery of energy from waste</p> <p>Technical support for suggesting alternative options</p>	Research and analysis for long-term sustainability of water availability	Sharing best practices and knowledge in identified fields and in urban planning

		<p>ing old buildings of SMC</p> <ul style="list-style-type: none"> • Assistance towards amendments in Building Byelaws for integrating energy efficiency <p><u>Quick wins:</u> Training programme/design charrette on energy efficiency in buildings</p>		<p>for sewage treatment such as decentralized options for recovery of water and energy from treated wastewater</p> <p>(Build on existing proposals under – Mahananda Action Plan and Sewerage network plan)</p>		
Udaipur	<p>Research and Analysis for developing a low carbon and climate resilience plan from climate change impacts for the city. This will include following aspects:</p> <ul style="list-style-type: none"> • Specific analysis on climate change impacts to support the newly drafted City Development Plan. • Low carbon planning related to Municipal Solid Waste (scientific disposal through landfill) and sewage linked to pollution of water bodies (lakes) <p>Risks and Hazard analysis mapping for city to support developing a city climate resilience plan</p>	<p>Technical Assistance for modifying building bye laws for integrating energy efficiency measures mandatory in multistorey residential buildings built by private sector/builders</p> <p>Technical assistance for design of projects and interventions for retrofitting energy efficiency in existing municipal and government buildings in the city.</p> <p><u>Quick wins:</u> Training programme/design charrette on energy efficiency in multi-storey residential buildings for private developers and for UMC staff</p>	<p>City Mobility Plan and support for implementation to reduce local air pollution and congestions</p>	<p><u>Quick wins:</u> Technical support for finding solutions for marble slurry waste, which is being disposed through existing drainage system and creating local pollution.</p>		<p>Sharing best practices and knowledge in identified fields</p>

Consent from Rajkot Rajpath
Limited (RRL) for extension of
BRTS corridor to the proposed
ABD site

- b. Consent from Rajkot Rajpath Limited (RRL) for extension of BRTS corridor to the proposed ABD site



RRL/O.W. No. 159

Date: 27/06/2016

To,
The Municipal Commissioner,
Rajkot Municipal Corporation,
Dr.AmbedkarBhawan,
Dhebarbhai road,
Rajkot -360001

Sub: Extension of BRTS to the proposed Smart City project area

Respected Sir,

We appreciate the efforts of RMC in preparing for the Smart cities Challenge. We have reviewed the Smart City proposal and concur with the city's development focus of facilitating the future growth of city by selecting an environmentally sustainable Greenfield development in Ward 1 under the Area Based Development Proposal.

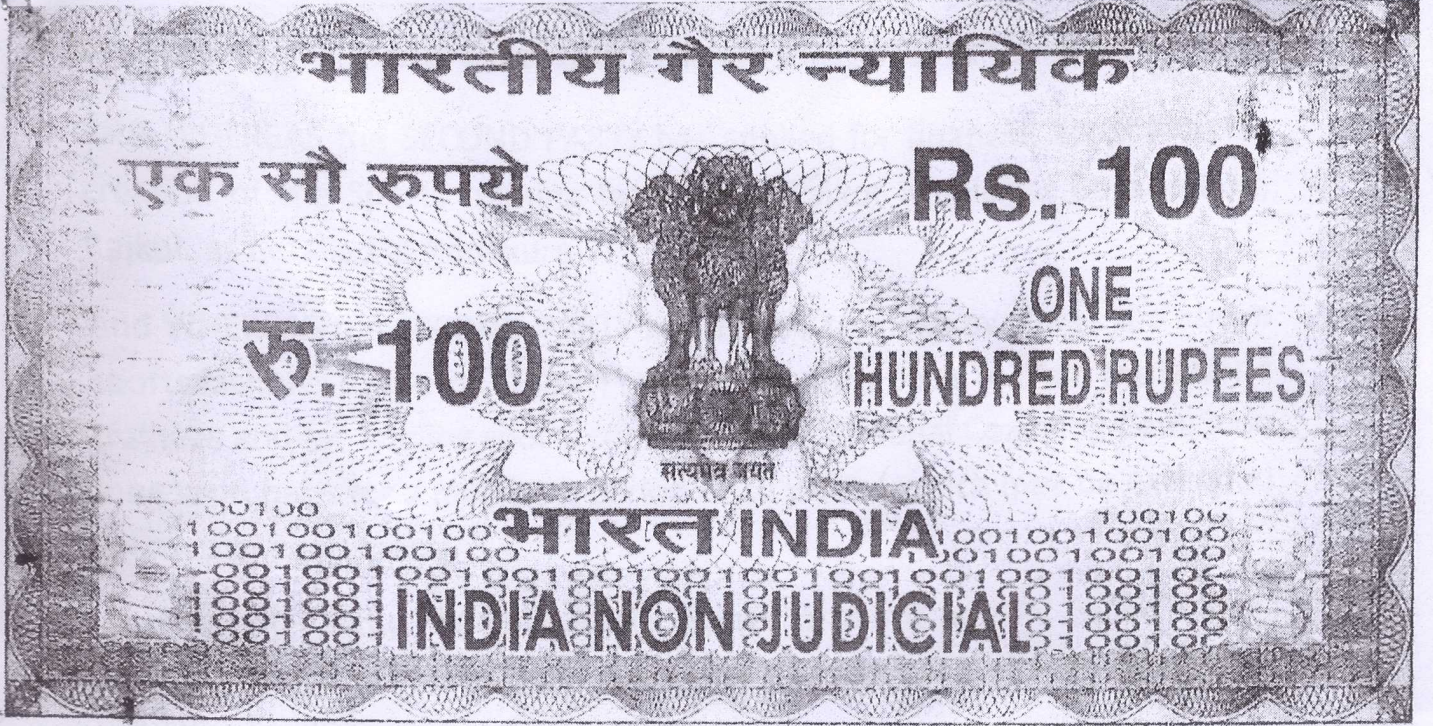
Based on our assessment, there is a strong potential for Bus Rapid Transit Systems (BRTS) in the proposed area which is also in line with the vision of the city of being a Clean and Green city. In this regard, we agree in principle to extend the existing BRTS system (10.7 Km stretch) to the Smart City Zone. We believe that the proposed ABD project is a great initiative and will act as a trigger for expediting the Transit Oriented Development along the Outer Ring Road.

We remain committed to the Smart City Vision and assure you of all support in realizing our dream of a "Smart Rajkot".

Regards,


General Manager
Rajkot Rajpath Ltd.

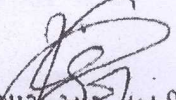
MoU with Sports Authority of
Gujarat for development of
Sports training facility



गुजरात गुजरात GUJARAT

AU 340997


रु. 100.....ना स्टैम्प पेपर नं. 340997
परीदनार. राजकोट.....ना रक्षीश
श्री. वि. राज. म. राज. राज. राज. राज.
डा. गुजरात.....ना. राजकोट.


श्री. वि. राज. म. राज. राज. राज. राज.
स्टैम्प/पेपर, डा. नं. 340997
रा. म्यु. कयरी, राजकोट.

AGREEMENT

1. This AGREEMENT is made and entered into on this day, 23rd of march 2016 between the Sports Authority of Gujarat (SAG) having its Office at Block 14,3rd floor, Dr.jivraj Mehta Bhawan, Gandhinagar (herein after called the "FIRST PARTY") and the Rajkot Municipal Corporation, Rajkot. (herein after called the "SECOND PARTY").




Secretary
Sports Authority of Gujarat
Gujarat State, Gandhinagar

... is implementing a number of sports promotion schemes in the state, viz., Center of Excellence Scheme, shaktidoot scheme etc.

AND WHEREAS the SECOND PARTY has applied for financial assistance for creation of the Sports training facilities at Rajkot Municipal Corporation, Rajkot. as detailed in Annexure-2.

And WHEREAS the SECOND PARTY has agreed to make available the above sports facilities to the FIRST PARTY on time sharing basis to train the latter's trainees and for holding sports competitions / National Coaching Camps on long term basis for a minimum period of 10 years (which may be extended on mutual agreement)

And WHEREAS the SECOND PARTY agrees to make an SPV called Rajkot Sports Promotion Foundation, hereinafter as mentioned as RSPF to run the sporting facilities

And whereas The SECOND PARTY has agreed that the decision to make available such properties for the purpose of the agreement, shall not be revoked by the SECOND PARTY, without the consent of the FIRST PARTY.

And whereas further the SECOND PARTY will take full responsibility, in meeting recurring expenses towards the maintenance and repair of the facilities created.

3. Now by these present, It is hereby agreed by and among the parties as under:

3.1 In pursuance of this agreement the "SECOND PARTY" authorizes the "RSPF" to ensure proper management of the property as enshrined in the scheme or otherwise for proper management, Sport Authority of Gujarat and Rajkot Municipal Corporation will form a company not for profit but to ensure that it's mainly meant to spread awareness of sports across different section of society, to promote and develop sport activities & to identify talent.

3.2 Since the property is situated in the premises of the second party, it will be the responsibility of the SECOND PARTY to ensure upkeep and safety of the premises/play field etc. In the event, "RSPF" cannot make property self sustainable, the SECOND PARTY will be fully responsible for the recurring expenditure of maintenance of synthetic playing surface e.g. watering,

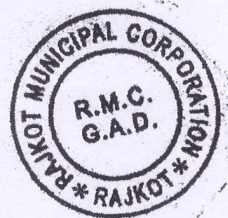
MUNICIPAL CORP.

Secretary, Gujarat

provision of electricity, man power and operation of sprinklers and other allied maintenance works, which also includes payment of property taxes, local taxes etc.

- 3.3 FIRST PARTY, i.e. SAG will give at least one month's advance notice period to SECOND PARTY if a state camp is to be scheduled in this centre. Both the parties, i.e. FIRST and SECOND PARTIES shall use the play fields on mutually agreed time-sharing basis so that optimum utilization of the synthetic playing surface/sports facility is ensured.
- 3.4 Both parties will be entitled to hold all important sports events of related function at the premises provided that it does not interfere with the training programme mutually agreed to.
- 3.5 Initially the agreement between two parties will be for a period of 10 years from the date of execution of the agreement which may be extended on mutual agreement.
- 3.6 In the event of any dispute or difference arising out of or in any way relating to or concerning all these presents, the same shall be referred to common arbitrator nominated by the first party and by the second party for arbitration. The award of the arbitrators shall be final and binding on the parties to these present. The arbitration procedure shall be in accordance with the provision of arbitration act, as applicable at that time. All disputes shall be subject to the jurisdiction of Gandhinagar Courts only and exclusively.

Gandhinagar



[Signature]
Secretary
Sports Authority of Gujarat
Gujarat State, Gandhinagar

witness whereof, the parties hereto have cause this agreement to be executed as on the day and year first above written.

Secretary
Sports Authority of Gujarat

Assistant Commissioner
Rajkot Municipal Corporation



Witnesses:

1. _____

2.
Assistant Manager
Rajkot Municipal Corporation

Annexure A

Details of sports infrastructure facilities/projects created by second party

RAJKOT SPORTS PROMOTION AGREEMENT

This RAJKOT SPORTS PROMOTION AGREEMENT ("Agreement") is made and entered into as ofby and between

SPORT AUTHORITY OF GUJARAT - a society formed under the Societies Registration Act, 1860 as applicable to the State of Gujarat, having its registered office at Block No.14/3 Dr. Jivraj Mehta Bhavan, Gandhinagar, through its authorized signatory Mr. D.D. Kapadia Secretary Sports Authority of Gujarat authorized through the Resolution dated hereinafter referred as "SAG" or "Society" (which expression shall mean and include its employees, contractors, agents, servants, successors and assigns) or party of the One part;

and

RAJKOT MUNICIPAL CORPORATION a local body governed by The Gujarat Provincial Municipal Corporations Act, 1949 and having its head office at Dr. Ambedkar Bhavan, Dhebar Road, Rajkot, through its authorized signatory Mr. Banchhanidhi Pani, Commissioner, IAS, authorized through the Resolution 574 dated 05/03/2015 hereinafter referred as "RMC" or "Municipal Corporation" (which expression shall mean and include its employees, contractors, agents, servants, successors and assigns) or party of the Second part;

and

RMC SPORTS PROMOTION FOUNDATION is a company incorporated under the section 8 of the Companies Act, 2013 and having its registered office at Rajkot through its authorized signatory Mr. Banchhanidhi Pani, Commissioner, IAS, authorized through the Board Resolution 574 dated 05/03/2015 hereinafter referred as "RSPF" or "the Company" (which expression shall mean and include its employees, contractors, agents, servants, successors and assigns) or party of the third part;



RECITALS

WHEREAS, RMC owns

- Synthetic Athletics Ground, Race Course.
- Turf Hockey Ground, Race Course,
- New Swimming Pool, Mavdi Area
- Sports Hostel, Eklavya School, Opp. Police Head Quarter

and desires to transfer the rights for operation, maintenance and management of the Sports complexes and also desires to provide the financial assistance to manage the running and maintenance costs on the terms and conditions set forth in this Agreement and to promote sports to the benefit of the people of Rajkot;

WHEREAS, the Government of Gujarat through SAG desires to provide financial assistance for operation, maintenance and management of the aforesaid sports complexes owned by RMC and has agreed to run excellence moderates and thereby provide those assistance on the terms and conditions set forth in this Agreement,

WHEREAS, RSPF desires to operate and maintain and manage both the aforesaid sports complexes owned by RMC and has agreed to provide those services on the terms and conditions set forth in this Agreement,

The parties to this agreement in order to Spread awareness of sports across different sections of society, to promote and develop sports activities relating and incidental thereto and identify and nurture sporting talent and thereby give the sporting talent and thereby give the sporting talent an opportunity to shine in the global sports arena by creating a sports-centric echo system in the district of Rajkot, have decided to enter into this agreement

NOW THEREFORE, in consideration of the mutual covenants, undertakings and conditions set forth below, the receipt and sufficiency of which are hereby acknowledged, the parties hereby agree as follows:



MoU with ICLEI for Promotion
of 'Low Emission Urban
Development Strategies'

- e. MoU with ICLEI for Promotion of 'Low Emission Urban Development Strategies'
– Urban LEDS

Memorandum of Understanding

For

**Project: "Promoting Low Emission Urban Development
Strategies in Emerging Economy Countries" (Urban – LEDS)**

Between

Rajkot Municipal Corporation

&

ICLEI – Local Governments for Sustainability, South Asia



ICLEI
Local
Governments
for Sustainability

Memorandum of Understanding

- 1. Subject:** Promoting Low Emission Urban Development Strategies in Emerging Economy Countries (Urban LEDS) for Rajkot City
- 2. Purpose:** The purpose of this document is to establish an operational understanding between the Rajkot Municipal Corporation and ICLEI (International Council for Local Environmental Initiatives- Local Governments for Sustainability, South Asia (referred as "ICLEI SA"), to support the promotion of low emission urban development strategies in developing economies like India, Brazil, Indonesia and S. Africa under the project "Promoting Low Emission Urban Development Strategies in Emerging Economy Countries" (Urban LEDS) funded by European Commission with support from the UN HABITAT as associate partners.
- 3. Partners:**

Key Partners: The key partner to Rajkot Municipal Corporation will be the ICLEI SA Office. Further partners involved in this project are: ICLEI World Secretariat, ICLEI Africa Secretariat, ICLEI European Secretariat, ICLEI Latin America and Caribbean Secretariat, ICLEI Southeast Asia Secretariat.

Special partner: UN-HABITAT

Further Partners: private sector and experts according to identified needs

Funding Agency: European Commission with funds to UN-Habitat

ICLEI South Asia is a Non Governmental Organization registered under Indian Trust Act and it will provide institutional, technical and advisory services for ground implementation of the project. The Rajkot Municipal Corporation will share relevant technical information and is expected to implement the low emission urban development strategies under the project.

4. About the Project

The global objective of the project is to support the promotion of low emission urban development in developing economies in each of the 4 participating countries – India, Indonesia, Brazil and South Africa. The project will enable Rajkot city to reduce greenhouse gas emissions and will also contribute to the scaling up, mainstreaming and integration of transformative low emission actions at all scales.

Specific objectives of the project include:

- Developing Rajkot city as one of the two model cities in India, to demonstrate and showcase low carbon development strategies under conditions of rapid growth and transition.
- Bringing in technical capacity to support low emission urban development strategies (Urban-LEDS), their implementation and management.
- Strengthening capacities of Rajkot Municipal Corporation staff by involving them in appropriate training and capacity building activities.
- Supporting the development of nationally appropriate mitigation actions at the local level (Urban-NAMAs), which can be replicated in other satellite cities.
- Developing appropriate technological and policy-related solutions for selected priority measures (e.g. renewable energy appliances, building retrofit, waste to energy, mobility solutions etc.) in the framework of the Low Carbon Development Strategy Sustainable Energy Action Plan.
- Defining and developing completed investment portfolios for tendering, based on identified solutions.
- Facilitating the transfer of knowledge and expertise from European cities, financial institutions and the private sector in the development of investments in Low Emission Development Strategies and in the identification of appropriate technological solutions.
- Applying identified international accounting and reporting protocols and standards through the adoption/development of a Monitoring Reporting Verification (MRV) system.
- Linking local mitigation actions in Rajkot to the international negotiation and reporting processes of UNFCCC COPs through international commitment and reporting processes including case studies and side events.
- Facilitating exchange of knowledge and information with other model and satellite cities in all project countries and with European local government leaders in this field.

Target group

Model Cities: Rajkot and Thane

Satellite Cities: Gwalior, Nagpur, Panaji- Chinchwad, Shimla and Coimbatore

Project Duration: 42 Months

Time Period: October 2012-20 15

5. Objectives and Scope of Collaboration for "Promoting Low Emission Urban Development Strategies in Emerging Economy Countries" (Urban-LEDS)

- 5.1 The Rajkot Municipal Corporation has proposed to participate in the "*Promoting Low Emission Urban Development Strategies in Emerging Economy Countries*" (Urban LEDS) and has agreed to all commitments requested in the Expression of Interest (EOI) issued by ICFEISA.

5.2 The objective of this MoU is to develop and maintain a framework for cooperation between the concerned parties and to support the promotion of low emission urban development for the city, which is part of the implementation of Solar Cities Master Plan of Rajkot city developed by ICLEI South Asia.

5.3 The intended beneficiaries of the collaboration are:

- The citizens of Rajkot
- The **Rajkot Municipal Corporation** and other cities/organizations that can benefit in the future.
- Stakeholders (private entrepreneurs, financing institutions, NGOs and academic institutes)

6. Roles and Responsibilities of the Partners

6.1 Rajkot Municipal Corporation

The tasks for **Rajkot Municipal Corporation** are, but not limited to the Development of Urban Low Emissions Development Strategies (LEDS) and implementation of the same along with sharing experiences with a wider group of cities

The **Rajkot Municipal Corporation** commits to execute the following activities to achieve the above said goal:

- appoint a Core Team for the "Project". The core team shall have a minimum of two members and shall include a Senior City Administrator and Project Engineers designated as in charge for the project. The core team will act as a single nodal point for the project
- identify relevant departments of the Rajkot Municipal Corporation which are managing activities impacting/affected by climate change and allocate roles and responsibilities to these departments in addition to stipulating roles for core team members
- coordinate necessary communication and collaboration with relevant departments of Rajkot Municipal Corporation
- work in conjunction with ICLEI SA to identify and create a stakeholder group from among NGOs, citizens groups, public and semi-public institutions/agencies etc.
- supervise all project related activities in the city
- assist in identification of all relevant data required for establishment of comprehensive database for developing low emissions development strategies (LEDS). Facilitate and share pertinent information and data related to the project with ICLEI SA staff and project associate
- support ICLEI SA in designing a low carbon action plan for the city following ICLEI's brand new Green Climate Cities (GCC) program.
- contribute a Local Government perspective for the development of a Decision-Support Framework
- develop a strategy and action plan for climate change mitigation and implement relevant pilot projects

- facilitate an effective integration of low emission development strategies into city activities through regular and periodic communication and consultation with ICLEI SA as a continual and ongoing process.
- report the progress of city activities to ICLEI SA office on regular basis.
- assist ICLEI SA in preparing various reports on policies, local GHG inventories, mitigation low carbon actions plans & climate change status etc.
- assist ICLEI SA project team in conducting training programmes, meetings and media briefings related to project activity
- participate in project meetings, awareness and training Programme - activities. Involve and engage the Municipal Corporation team during trainings, workshops and seminar related activities
- share experiences with a wider group of satellite cities.
- share project related information within the city government, at regional platforms and also with the national governments.
- where needed, share pertinent information with the international community.
- cooperate with selected European cities with regard to taking part in project exchange events, providing information and sharing advocacy.

6.2 ICLEI SA

Along with supporting partners ICLEI SA will:

- appoint a project associate (on contract for data collection and as local resource person) for the city for the duration of the project
- be the main responsible partner organization for execution of the project in India
- provide guidance and training for the project associate
- support relevant local government processes related to execution of the project
- provide training for staff involved in the city processes
- work on development of case studies
- work on development of briefing notes for local politicians
- provide technical support for developing and implementing methodological approaches
- provide technical support in the development of the pocket manual
- develop requisite relationships with national actors, for example relevant ministries
- organize partner meetings and transfer workshops
- assist Rajkot Municipal Corporation in identifying key stakeholders from local bodies, non-government and government organizations, academic and research institutions etc
- supervise the implementation of pilot projects and monitor the results of projects
- facilitate information sharing and capacity building between project/satellite cities
- outline ways in which national governments, local governments, investors and other actors can be linked to the project for a larger role at regional level.

7. Financial Implication

The cost of implementing the project in Rajkot Municipal Corporation shall be borne by project funds and hence, there will be no financial implication on Rajkot Municipal Corporation except for the provision of staff from the municipal corporation to carry out project activities in consultation with ICLEI SA. The participation in Urban-LEDS entails commitments from the city government towards the development of Urban Low Emissions Development Strategies and implementation of those strategies in the city. While the participation in Urban-LEDS and the development of low carbon strategies will be in consultation with ICLEI and do not include any financial implications, the city will implement relevant strategies in the city, after completion of the project.

8. Confidentiality

The parties should maintain confidentiality on internal information about other parties, which is not meant to be passed on to external parties.


The parties agree that this MOU sets forth the intent and goals of the signatories, and further agree that this MOU does not obligate funds or create any contractual rights and responsibilities.

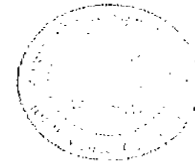
Rajkot Municipal Corporation and ICLEI- Local Governments for Sustainability, South Asia, acting through their duly authorized representatives, have caused this Memorandum of Understanding (MOU) to be signed in their names and delivered

Signature

Stamp

Name: Shri Ajay Bhadoo, IAS
Designation: Commissioner
Rajkot Municipal Corporation

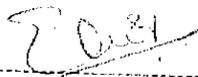




Date:

Place: COMMISSIONER
RAJKOT MUNICIPAL CORPORATION

Name: Shri Emani B V Kumar
Designation: Executive Director
ICLEI- Local Governments for
Sustainability, South Asia



Date:

Place:

Preparation of Master Plan for Solar city



First National Workshop
**"Renewable Energy and Energy Efficiency in Buildings and
Cities: Assessing Potential for District Energy Systems in Indian
Cities"**

Date: 9th May 2016

Venue: Hotel Fortune Park JPS Grand, Rajkot, Gujarat

PROCEEDINGS OF WORKSHOP



Preparation of Master Plan for Solar city – Rajkot



RAJKOT MUNICIPAL CORPORATION

RMC/C/ 848

Date: March 02, 2009

To,
The Director
Gujarat Energy Development Agency
4th floor, Block No. 11 & 12
Udyog Bhavan
Sector -11, Gandhinagar

Sub: Submission of Project Proposal for Solar Cities
Ref: 1. Letter from Department of Urban Development and Urban Housing Department, Government of Gujarat No.RMC/802008/GOI-12/P
2. Our letter no RMC/C/574 dated November 26th 2008.

Dear Sir,

This is in continuation to our earlier proposal, ref. above, to you regarding setting up of Solar city cell, appointment of the consultant for preparation of master plan and requesting for release of the first installment for the program "Solar City".

Initially, we had considered lump sum fees for the consultant (ICL ~~SA~~) and accordingly we prepared the planning for activities to be undertaken during next five years and submitted proposal to you. After this, ICLEI contacted us and demanded the fees of Rs. 8,95,200/-. Considering this, we have modified our proposal and submitted again for further approval. You are requested to kindly forward the same at the earliest, to the concerned authority in the ministry of New and Renewable Energy, New Delhi with your recommendations for further necessary approvals.

Brief information about the city of Rajkot and the contribution of Rajkot Municipal Corporation for generating awareness in the public about the non-conventional energy sources, its usage and importance, is enclosed herewith for your kind information.

Thanking you,

Yours sincerely,

(D.H. Brahmhatt)
Commissioner

Encl: 1. Proposal for Solar City
2. Rajkot city information

✓ Copy to: Adviser and Head, UICA Group, Ministry of New and Renewable Energy, New Delhi



RAJKOT MUNICIPAL CORPORATION

RMC/C/TP/ 209

Date: July 9, 2009

To,

The Executive Director
ICLE-Local Government for Sustainability
South Asia Secretariat
1st Floor, Tower -B, Logix Technopark
Sector 127, NOIDA- 201301
India

**Subject: Consultancy for preparation of Master Plan for
the city of Rajkot under "Solar City Program"**

Dear Sir,

We are in receipt of an email from you dated February 5th 2009 about the consultancy fees for the preparation of the master plan for the city of Rajkot under "Solar city" program.

With reference to this letter we had communication with the Ministry of New and Renewable Energy, New Delhi and as per the recent information provided to us by the ministry, the fees quoted by you seems to be on higher side.

Considering the above, you are invited for the negotiation and advised to submit the revised offer so that remaining part of administrative procedure can be taken up in hand.

Thanking you,

(Alpam Mitra)
OSD
Rajkot Municipal Corporation

Copy respectfully submitted:
Municipal Commissioner, for information pl.

RAJKOT CITY - LIVABILITY INDEX REPORT



Livability Index

Rajkot City

Prepared for Rajkot Municipal Corporation (RMC)

Prepared by:



**GLOBAL
SCIENTIFIC
INC.**

Client Name	Rajkot Municipal Corporation	Solution	Livability Index
Scope of the Document	Livability Index Report		

Livability Index

Livability - an assessment of what a place is like to live in, using particular criteria, for example, environmental quality, crime and safety, education and health provision, access to shops and services, recreational facilities and cultural activities.

Since past years, 100+ cities of the world have been compared using “Livability Index”. In 2016, Melbourne, Australia has been ranked first amongst all the cities compared on the same platform

Considering the demographics and growth rate of Rajkot, the thematic indicators chosen to calculate livability index are:

- Growth of the city
- State of Resources
- Urban Services
- Initiative for improving city environment

These major thematic indicators have preliminary indicators for action planning and diagnosis. These indicators symbolize the habitability of the city. Rajkot is thriving city of Gujarat state, with a decadal growth rate of 39.5% and population of 1.376 million. Considering challenges and the strength of Rajkot city, preliminary indicators have been framed. The below table show all preliminary indicators and the respective thematic indicators.

Thematic Indicators	Preliminary Indicators
Growth of the City	Demographic Growth (Decadal)
	Economic Growth
	Industrial Growth
	Spatial Growth
State of Resources	Land
	Air
	Water
	Energy
Urban Services	Human
	Water Supply
	Sewerage Sanitation
	Solid Waste Management
Initiative to Improve City Environment	Transport
	Environmental Education
	Waste Management
	Slum Improvement
	Traffic

Table 1: List of Thematic indicators and respective Preliminary Indicators

Client Name	Rajkot Municipal Corporation	Solution	Livability Index
Scope of the Document	Livability Index Report		

The above Preliminary Indicators has been framed considering the Class of City, basic needs of the city, employment classification and the region. Appropriate Data Variables are recognized under the Preliminary Indicators and are cross-checked with the profile of the city.

At the base of the indicator pyramid are the data variables. These are the values to be found in different departments of Municipal Corporation, Census Office, etc. E.g. population growth rate, growth in migrated population and percentage of slum population in the city are data variables. Their values are to be filled in by referring to municipal corporations.

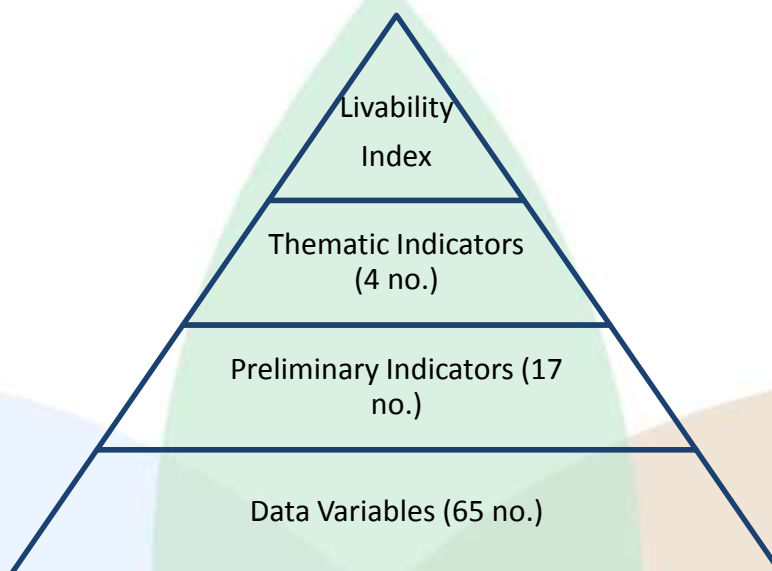


Fig 1: Levels of Indicators

Now, appropriate weightage is given to each thematic indicator according to the contribution of that theme into city environment. Separate weights are assigned to every data variables such that their sum total is 100. For example, the state of resources and urban services are critical hence they are assigned the highest weightage amongst all the indicators.

Sr. No.	Thematic Indicators	Weight
1	Growth of the City	20
2	State of Resources	30
3	Urban Services	30
4	Initiatives for improving city environment	20
Total		100

Table 2: Assigned Weight to Thematic Weight

Client Name	Rajkot Municipal Corporation	Solution	Livability Index
Scope of the Document	Livability Index Report		

These weights of data variables were then adjusted for number of total data variables in particular theme. This was done using following formula

Adjusted data variable weight

$= \{(Data\ variable\ weight \times Number\ of\ data\ variables\ under\ that\ theme) / Total\ number\ of\ data\ variables\}$

Sr. No.	Thematic Indicators	Weight	Adjusted Weight
1	Growth of the City	20	16.92
2	State of Resources	30	21.54
3	Urban Services	30	30.77
4	Initiatives for improving city environment	20	30.77
Total		100	100

Table 3: Weight assigned to Thematic Indicators and adjusted weight corresponding to the indicators

Since there are total 65 data variables and 11 data variables under theme of Growth of Cities the formula becomes:

$Adjusted\ data\ variable\ weight = (Data\ variable\ weight \times 11) / 65$

Client Name	Rajkot Municipal Corporation	Solution	Livability Index
Scope of the Document	Livability Index Report		

Defining Benchmarks for the data variables:

The best practices or an agreed upon industrial standard is a typical benchmark which is measure or judged by others. The most important task in calculating ‘Livability Index’ is defining the benchmarks as the score is based on the benchmark value.

These benchmarks are defined using various sources. For all the data related to the demography, benchmarks are defined by using census figures for state and country. For all the natural resources the benchmark values have been defined using standards defined by various agencies like GPCB, Central Pollution Control Board (CPCB), Urban Development Plans Formulation and Implementation (UDPFI), Central Public Health and Environmental Engineering Organization (CPHEEO) etc. for the variables related to urban services the benchmarks are defined by referring to various studies conducted. E.g. studies by agencies like Asian Development Bank (ADB), Gujarat Energy Development Agency (GEDA) etc. however some data variables were such that they didn’t have any defined benchmark. Benchmarks of all the data variables are discussed later in this chapter.

Scoring:

As stated earlier the scoring is done in such a way that maximum of the score will show the best environmental performance of the city.

Score of the data variables: The average score value selected is the benchmark score values. If the variable is pro-environment, the scoring of the variable is against the benchmark. For all the pro-environment variables higher the value than benchmark, better is the score and vice versa. For example, ‘Green area per 1000 person’ is a pro-environment variable. Thus if its value is higher than the benchmark then it will be given better score. On the other hand for water quality parameters crossing the benchmark value will lead to lesser score.

Score of preliminary indicators: Score of the preliminary indicator is sum of scores of all the data variables within it.

Score of thematic indicators: Score of the thematic indicators is the sum of scores of all the preliminary indicators within it.

Livability Index: This apex score is given by summing up scores of all the thematic indicators.

Client Name	Rajkot Municipal Corporation	Solution	Livability Index
Scope of the Document	Livability Index Report		

Growth of the Cities

Growth of the city invariably means more consumption of resources. Thus it is one of the crucial parameters. In order to consider all layers of city's growth there are 4 preliminary indicators under this theme.

Thematic Indicator	Primary Indicators	Data Variables
Growth of City	Demographic Growth (Decadal)	Decadal Population Growth Rate
		Growth in migrated population (% decadal)
		% of slum population to total population
	Economic Growth	Work participation ratio
		% of people below poverty line
		Average annual per capita income
		Ratio of municipal revenue to municipal expenditure
	Industrial growth	% share of industries in total electricity consumption
		Number of polluting industries
	Spatial growth (Decadal)	Population density
		% of slum area to city area

Table 4: Data Variables Associated with Growth of City

Client Name	Rajkot Municipal Corporation	Solution	Livability Index
Scope of the Document	Livability Index Report		

Demographic growth:

It is one of the major indicators as it determines the pressure on natural resources. It is a function of growth in urban poor, natural growth in population and growth in migrated population. Since the growth of the cities National and State growth rates are taken as average.

Economic Growth:

Along with demographic growth city also undergoes economic growth. Economic growth of the city helps in job opportunities which in turn bring revenue for municipal bodies. Employment level is indicated by work participation ratio. Standard of living is determined by population below poverty line and average annual income and financial condition of municipal body is determined by ratio of municipal revenue to expenditure.

Industrial Growth:

Natural resources are mostly contaminated and exploited by industrial growth. Under this to determine the industrial growth electric consumption is used. It is important to know the ratio of polluting to non-polluting industries hence it is dealt separately. While growth in non-polluting industries can be in favor of city increase in polluting industries can deteriorate the environment of the city.

Spatial Growth:

Spatial expansion is a result of demographic growth of the city. It measures the pressure on the land. Spatial growth is determined by population density; if both of them are not in congruence it might affect in built environment and have an effect on land price and slum population as well as the area. Slum area in the city is also an indicator to know the spatial growth of the city.

Client Name	Rajkot Municipal Corporation	Solution	Livability Index
Scope of the Document	Livability Index Report		

State of Resources

Natural resources like land, air, water and humans are dealt with in this indicator; also energy which is a man-made resource is included under this theme. However state of humans indirectly reflects the impact of various activities.

Thematic Indicator	Primary Indicator	Data Variable
State of Resources	Land	Landuse
		% Green area of the total city
		Green area per 1000 persons
	Air	Ambient Air Quality
		Noise
	Water	% of untreated industrial effluent discharge
		Water Quality-Sea
		Water Quality-River
		Water Quality-Lakes
	Energy	Per Capita energy Consumption
		Share of Renewable Energy
		Annual fuel consumption-Petrol
	Human	Crude Death Rate
		Infant mortality rate

Table 5: Data Variables Associated with State of Resources

Client Name	Rajkot Municipal Corporation	Solution	Livability Index
Scope of the Document	Livability Index Report		

Land:

The guideline provided by Urban Development Plan Formulation and Implementation (URDPIF) for the desirable landuse of the city is important. Hence, compliance with URDPIF norms is one of the indicators. Green areas are the lungs of the city. It is a critical parameter to determine health of the city.

Air:

Ambient Air Quality is used to determine the air quality of the city, which is polluted by vehicular and industrial emissions. It is one of the most important natural resource available to humans. Noise monitoring has been classified under AAQM (Ambient Air Quality Monitoring) by Pollution Control Board.

Water:

With the population, industrial, economic and spatial growth of the city; one of the major natural resource consumed is water resource. Hence water consumption is a data variable used under this indicator. Also with the industrial growth and water exploitation, contamination of water poses as a threat. To determine quality of water variables such as water quality of sea, river, lake and discharge of untreated industrial effluent are the indicators used.

Energy:

With the demographic and industrial growth, energy resources' consumption has increased many folds. But as the energy consumption increases, carbon emissions also increases and contributes to climate change. Hence, per capita consumption is the first data variable. Renewable energy is an alternate source of energy. Its share is another data variable. Various fuels are consumed as source of energy. It is important to know the annual fuel consumption by the city.

Humans:

It is one of the most important resources. It helps to determine the effects of environmental condition of the city. Hence, death rate and infant mortality rate are taken as indicators.

Client Name	Rajkot Municipal Corporation	Solution	Livability Index
Scope of the Document	Livability Index Report		

Urban Services:

Urban services define the quality of life in the city. Fur services are assessed, viz. water supply, sewerage, solid waste management and transportation. The coverage and quality is assessed under this indicator.

Thematic Indicator	Primary Indicators	Data Variables
Urban Services	Water Supply	Net LPCD
		% of hh connected by service connection
		Unaccounted for water
		Average tariff
		Staff per 1000 connections
	Sewerage Sanitation	% of population catered to by underground sewer network
		% area covered with collection to total city area
		% of slum population served by pay and use toilets
		% of untreated sewage
		Staff per 1000 connections
	Solid Waste Mgmt	Total SW generated per capita
		Life of landfill site
		% of waste disposed into landfill site to total waste generated
		% of waste collected to total waste
		Compliance with MSW Rules
		% biomedical waste treated to total BM waste
		% of Wet waste treatment at ward level
	Transport	Road area as % of ward area
		% of population travelling by public transport
		% of public vehicles running on CNG

Table 6: Data Variables Associated with Urban Services

Client Name	Rajkot Municipal Corporation	Solution	Livability Index
Scope of the Document	Livability Index Report		

Water supply:

The coverage of water supply is one of the critical data variables to be assessed along with the Net LPCD (liters per capita per day). It directly shows water availability. Unaccounted water and average tariff have an indirect relation with another, with the increase in unaccounted water the average tariff decreases which suggest unreasonable use of water. To measure the water supply at service level the data variable used is staff per 1000 connections.

Sewerage Sanitation:

The coverage is one of the critical indicators to be assessed along with coverage of underground sewerage network and slum populations served by pay and use toilets. The above data variables determine the hygiene of the city. Water pollution in the city is determined by the untreated sewerage as it goes directly into river or nallahs.

Solid Waste Management:

One of the major critical variables is the coverage as it determines health and hygiene conditions of the city. Per capita solid waste generation helps to determine the consumption against its disposal. Also, life of landfill site is an important parameter as it affects ground water, land, air and health of people directly. The untreated waste which is not disposed in the landfill, there are chances that it is dumped into some locations of the city hence it is necessary to know % of waste disposed into landfill site. Some service efficiency indicators are % waste to total waste, % of biomedical waste treated and % of wet waste treated. Compliance with Municipal Solid Waste Rules is a critical data variable.

Transport:

Vehicular emissions contribute to the contamination of air. Population travelling by public transport determines the state of public transport in the city which in turns determines the ownership of private vehicles plying in the city which causes air emissions. Traffic congestion is a major pressure in the city, to determine traffic % of road area to ward area is considered. % of accidents is considered as one indicator. Also, the ratio public transport running on CNG against another fuel.

Client Name	Rajkot Municipal Corporation	Solution	Livability Index
Scope of the Document	Livability Index Report		

Initiative taken for improving city environment

These questions are designed for four types of initiatives found common in the city. This section has been detailed out little more than the draft version of the Framework.

Thematic Indicators	Primary Indicators	Questions
Initiative taken for improving city environment	Environmental Education	Are there any training programmes for teachers for Environmental education?
		Are there any plantation schemes for schools?
		Is there community participation for managing gardens of the city?
	Waste Management	Is dry and wet waste collected separately?
		Are there any waste to Energy Projects on the city landfill site?
		Is there PPP in waste management for the city?
		Is there Methane Gas Recovery Project at city landfill site?
		Is there community participation for storage, collection and disposal of waste?
		Are there any funds allocated for Research and Development for Waste Management Technologies?

Client Name	Rajkot Municipal Corporation	Solution	Livability Index
Scope of the Document	Livability Index Report		

	Slum Improvement	Is there PPP for management of public toilets?
		Are there any public toilets managed by CBOs or NGOs?
		Are there community centres provided for slums?
		Are there any adult education schools or classes in slums run by ULB?
		Has the ULB provided for Community Health Centres?
	Traffic	Are there any paths dedicated to bicycle or pedestrian movement?
		Is there allocation of Public Transport Fund?
		Is there GPS-based On Line Bus Tracking System for the city transport?
		Are there Microprocessor based ticket vending machines for busses
		Is there Online ticket accounting system?
	Is there RFID & GPS based Smart Card system for public transport?	

Table 7: Data Variables Associated with Initiatives for Improving City Environment

Client Name	Rajkot Municipal Corporation	Solution	Livability Index
Scope of the Document	Livability Index Report		

Thematic Indicators	Primary Indicators	Data Variables	Data Variable Score	Thematic Indicator Score
Growth of the City	Demographic Growth (Decadal)	Decadal Population Growth Rate	0.48	10.96
		Growth in migrated population (% decadal)	2.4	
		% of slum population to total population	2.4	
	Economic Growth	Work participation ratio	0.48	
		% of people below poverty line	1.92	
		Average annual per capita income	0	
		Ratio of municipal revenue to municipal expenditure	0	
	Industrial growth	% share of industries in total electricity consumption	0.32	
		Number of polluting industries	0.72	
	Spatial growth (Decadal)	Population density	0.32	
% of slum area to city area		1.92		
State Resources of	Land	Landuse	0.6	18.06
		% Green area of the total city	0.36	
		Green area per 1000 persons	0.36	
	Air	Ambient Air Quality	3.6	
		Noise	0.48	
	Water	% of untreated industrial effluent discharge	3.6	
		Water Quality-Sea	2.52	
		Water Quality-River	0	
		Water Quality-Lakes	0	
	Energy	Per Capita energy Consumption	3	
		Share of Renewable Energy	0.84	
		Annual fuel consumption-Petrol	0	
	Human	Crude Death Rate	1.26	
		Infant mortality rate	1.44	
Urban Services	Water Supply	Net LPCD	1.8	18.21

Client Name	Rajkot Municipal Corporation	Solution	Livability Index
Scope of the Document	Livability Index Report		

		% of hh connected by service connection	1.8	
		Unaccounted for water	0	
		Average tariff	0.24	
		Staff per 1000 connections	0	
	Sewerage Sanitation	% of population catered to by underground sewer network	1.08	
		% area covered with collection to total city area	1.2	
		% of slum population served by pay and use toilets	0.75	
		% of untreated sewage	1.44	
		Staff per 1000 connections	0	
	Solid Waste Mgmt	Total SW generated per capita	0.72	
		Life of landfill site	1.2	
		% of waste disposed into landfill site to total waste generated	1.8	
		% of waste collected to total waste	1.8	
		Compliance with MSW Rules	0.6	
		% biomedical waste treated to total BM waste	0.72	
		% of Wet waste treatment at ward level	0.36	
	Transport	Road area as % of ward area	1.92	
		% of population travelling by public transport	0.48	
	% of public vehicles running on CNG	0.3		
Initiatives for improving city environment	Environmental Education	Are there any training programmes for teachers for Environmental education?	0	12.4
		Are there any plantation schemes for schools?	1.2	
		Is there community participation for managing gardens of the city?	0.8	
	Waste Management	Is dry and wet waste collected separately?	0	

Client Name	Rajkot Municipal Corporation	Solution	Livability Index
Scope of the Document	Livability Index Report		

		Are there any waste to Energy Projects on the city landfill site?	1.2	
		Is there PPP in waste management for the city?	0.6	
		Is there Methane Gas Recovery Project at city landfill site?	0	
		Is there community participation for storage, collection and disposal of waste?	0.6	
		Are there any funds allocated for Research and Development for Waste Management Technologies?	1	
	Slum Improvement	Is there PPP for management of public toilets?	0	
		Are there any public toilets managed by CBOs or NGOs?	0.8	
		Are there community centres provided for slums?	1.2	
		Are there any adult education schools or classes in slums run by ULB?	0	
		Has the ULB provided for Community Health Centres?	0.8	
	Traffic	Are there any paths dedicated to bicycle or pedestrian movement?	1.6	
		Is there allocation of Public Transport Fund?	1.4	
		Is there GPS-based On Line Bus Tracking System for the city transport?	0	
		Are there Microprocessor based ticket vending machines for busses	0	
		Is there Online ticket accounting system?	1.2	

Client Name	Rajkot Municipal Corporation	Solution	Livability Index
Scope of the Document	Livability Index Report		

		Is there RFID & GPS based Smart Card system for public transport?	0	
Total Livability Index for Rajkot			59.63	

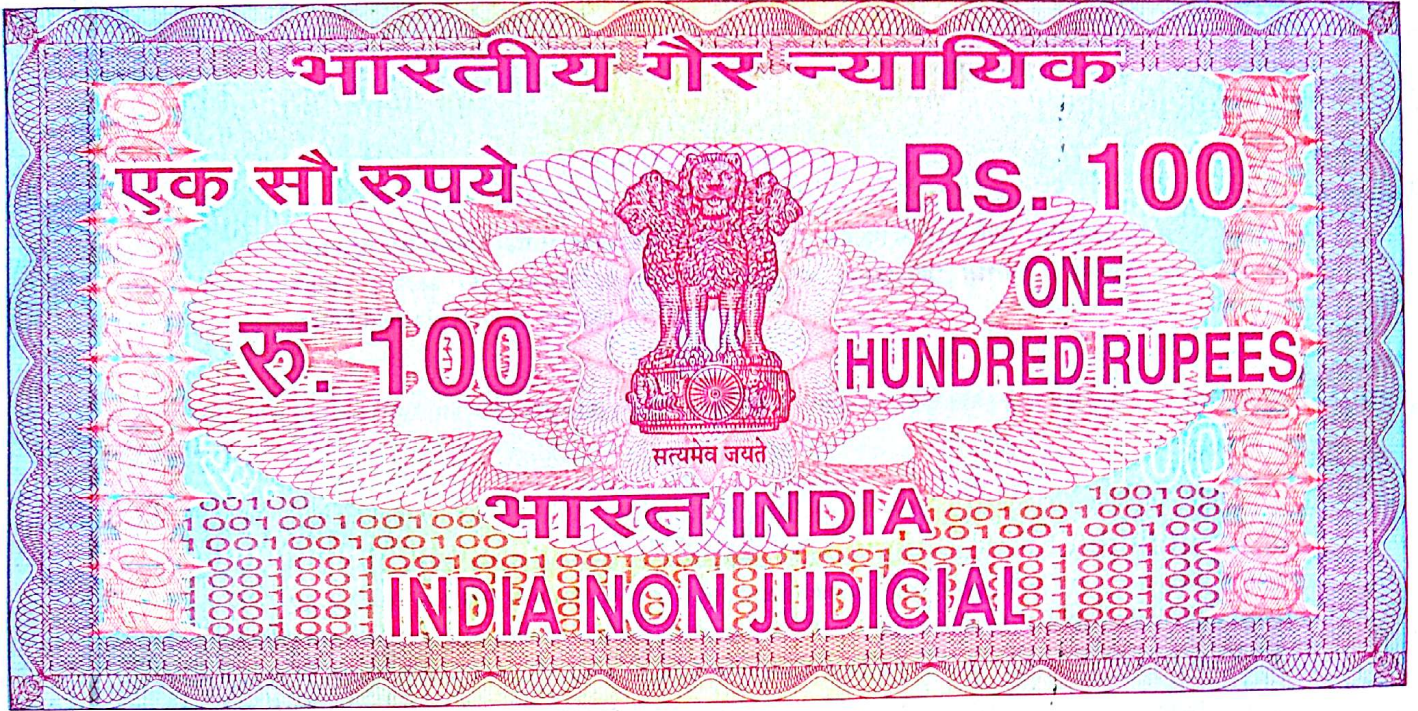
Total Livability Index for Rajkot

Thematic Indicators	Score	Total	Total	
Growth of the City	54.8	45.2	10.96	20
State of Resources	60.2	39.8	18.06	30
Urban Services	60.7	39.3	18.21	30
Initiatives for improving city environment	62	38	12.4	20
Total	59.63	40.37	59.63	100

Conclusion

As per the data available presently livability Index of Rajkot City stands at 59.63. It can be inferred from the report that there is scope of improvement in livability Index and various initiatives are already underway for this.

MoU with Aji (G.I.D.C)
Industrial Association



ગુજરાત ગુજરાત GUJARAT

BB 178530

7

₹. 100/-
भारतीय गैर न्यायिक
Rajkot & Rajkot
R.M.C. Room No. 6
Date: 14-3-17

P
भारतीय गैर न्यायिक
श. नं. ६०६-००३
प्लॉट नं. १२१, पोस्ट राजकोट,
राजकोट - ३६० ००३

MEMORANDUM OF UNDERSTANDING BETWEEN

AJI (G.I.D.C) INDUSTRIAL ASSOCIATION AND RAJKOT MUNICIPAL CORPORATION (RMC), RAJKOT

This is a "non-binding" Memorandum of Understanding (MoU) made in Rajkot, India on _____ of March, 2017 between the undersigned:

AJI (G.I.D.C) INDUSTRIAL ASSOCIATION (hereinafter referred to as "AGIA", which expression will include its successors and permitted assigns, unless repugnant to the context or meaning) having its headquarter at Plot No. 121, Aji Ind. Estate, RAJKOT-360 003 India, acting through its Shri Jivanlal L Patel of the first part

And

Rajkot Municipal Corporation (hereinafter referred to as "RMC", which expression will include its successors and permitted assigns, unless repugnant to the context or meaning) acting through its Municipal Commissioner Mr. Banchhanidhi Pani of the second part

AGIA and RMC are hereinafter individually referred to as "Party" and collectively as "Parties", as the context may require

Whereas

1. The Government of India has envisaged 'Smart Cities Mission' considering the need for an all-round, socio-economic development of the country. The initiative intends to develop 100 cities and towns in the country as smart cities and is expected to generate a large number of opportunities for the industry in terms of deploying state of the art technologies, provision of value added and sustainable services, and, investment opportunities.
2. AII GIDC INDUSTRIES ASSOCIATION (AGIA) was established by the industries located in AII GIDC Estate.
3. Rajkot Municipal Corporation (RMC) was established in 1973. RMC is responsible for the civic infrastructure and administration of the city of Rajkot in Gujarat state of India.
4. After some interactions at different levels, both parties intend to work together/collaborate to provide support transforming Rajkot into Smart Rajkot under Smart Cities Mission and will collaborate for any mutual Assistance other than financial obligation as mutually agreed.

NOW THEREFORE, in consideration of the mutual promises and covenants contained herein, the Parties agree as follows:

1. Purpose :

The parties are entering into this 'Non-binding' MOU to record the terms and conditions on which AGIA will help RMC for the development of Rajkot as a 'Smart City'.

2. Responsibilities

2.1. AGIA responsibilities

AGIA hereby agrees that it will undertake, either itself or through one or more of the Committee members, reasonable endeavors to

- (i) Provide any essential information/technical assistance as and when required by RMC for making Rajkot a smart city.

3. **Terms for Termination**

Both the Parties may terminate this MoU at any time by notice with immediate effect if it reasonably believes that other parties performance, or any aspect of it, results, or might breach any legal, regulatory, ethical or audit independence requirement in the jurisdiction, or any other reason.

4. **Other Terms:**

a. **Sharing of Information**

As may be appropriate from time to time, each Party may share information with the other on a regular basis regarding the arrangement under this MoU. Both the parties will be solely and entirely responsible for any third party information or materials, that they will share with each other, with regards to its requisite rights, authorizations or agreements, in place, enabling accessibility and usage of such information.

b. **Confidentiality**

The Parties agree and acknowledge that sensitive information and confidential data will be exchanged between the Parties pursuant to this MoU. Such data will be marked confidential ('Confidential Information'). Each Party agrees that it will maintain confidentiality of the Confidential Information disclosed to it by the other party under this MoU and will ensure that this clause is strictly adhered to by its officers, employees, agents, consultants and representatives. In case of expiry or termination of this MoU, each party will promptly return all confidential information, to the disclosing party upon request after expiry/termination of this MoU.

c. **Expense and No Liability**

Unless otherwise specifically agreed to in writing by the Parties for implementing the Scope of Services, for any future activity the financial Terms and Conditions will be decided on case to case basis as and when required.

d. **Counterparts**

Memorandum of Understanding (MoU) may be signed in any number of counterparts, all of which taken together will constitute one and the same instrument. AGIA and RMC may enter into the Memorandum of Understanding (MoU) by signing any such counterpart and each counterpart may be signed, executed and transmitted by facsimile transmission and will be as valid and effectual as if executed as an original.

e. Entire Agreement

This MoU contains the entire understanding between the Parties hereto and supersedes all prior arrangements, understandings and agreements, written or oral, on the subject hereof. Any part of this MoU which is not enforceable due to any reason whatsoever will be deemed to be inoperative and the rest of the MoU will continue to be valid and binding on the Parties hereto. This MoU may be amended in writing only duly signed by parties.

f. Representation

Each Party hereby represents to the other that it has all necessary power and authority to execute and deliver this MOU.

g. Co-operation

AGIA and RMC acknowledge that they have entered into the Memorandum of Understanding (MoU) in good faith and will cooperate in good faith to achieve the objectives set herein.

In witness whereof, the undersigned Parties have executed this MoU as of the date indicated above:

On Behalf of

On Behalf of

AJI (G.I.D.C) INDUSTRIAL ASSOCIATION (AGIA)

By:

Name: Mr. Jivanlal L Patel

Title: PRESIDENT

Date: 17-03-2017
Aji G.I.D.C. Industrial Association


President



Rajkot Municipal Corporation (RMC)

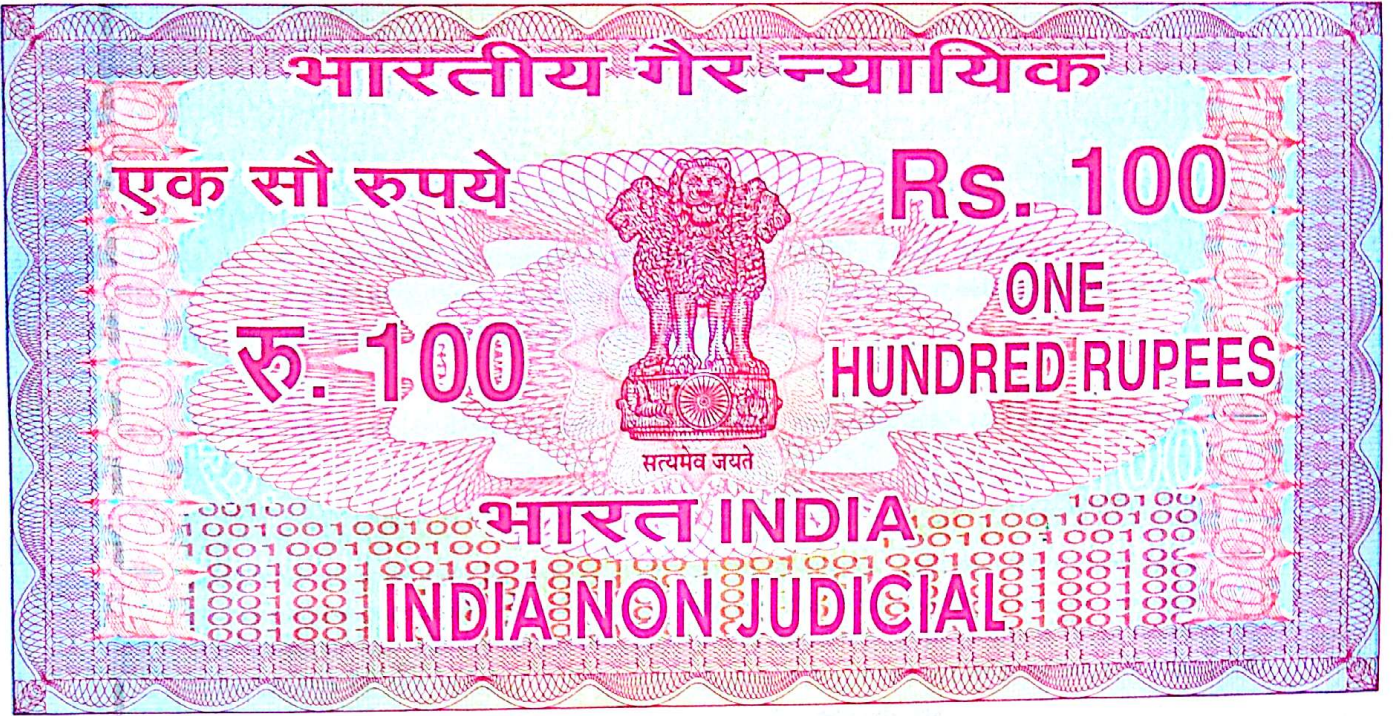
By:

Name: Mr. Banchhanidhi Pani

Title: Municipal Commissioner

Date: 17-03-2017

MoU with Builders Association of Rajkot



गुजरात गुजरात GUJARAT

BB 178528

100/- नये रुपये नं. 481... 6)
भारतीय गैर न्यायिक
RMC Reason No 6
K.J. Bhat 14/3/17

भारतीय गैर न्यायिक
नं. नं. ६०६-६३७
मु. लेखा. ऑफ, पोस्ट कोठीस,
राजकोट - ३६० ००१.

MEMORANDUM OF UNDERSTANDING BETWEEN
RAJKOT BUILDER ASSOCIATION (RBA)
AND
RAJKOT MUNICIPAL CORPORATION (RMC), RAJKOT

This is a "non-binding" Memorandum of Understanding (MoU) made in Rajkot, India on of March, 2017 between the undersigned:

Rajkot Builder Association (hereinafter referred to as "RBA", which expression will include its successors and permitted assigns, unless repugnant to the context or meaning) a consortium of builders and land developers, acting through its Vice-President (RBA) Dhruvik Talaviya of the first part

And

Rajkot Municipal Corporation (hereinafter referred to as "RMC", which expression will include its successors and permitted assigns, unless repugnant to the context or meaning) acting through its Municipal Commissioner Mr. Banchhanidhi Pani of the second part

RBA and RMC are hereinafter individually referred to as "Party" and collectively as "Parties", as the context may require

Whereas

1. The Government of India has envisaged 'Smart Cities Mission' considering the need for an all-round, socio-economic development of the country. The initiative intends to develop 100 cities and towns in the country as smart cities and is expected to generate a large number of opportunities for the industry in terms of deploying state of the art technologies, provision of value added and sustainable services, and, investment opportunities.
2. RBA was started in the year 1990. The RBA is a consortium of builders and land developers who have come together to share knowledge and to be of support to each other in strengthening their roles as the creators of tomorrow.
3. Rajkot Municipal Corporation (RMC) was established in 1973. RMC is responsible for the civic infrastructure and administration of the city of Rajkot in Gujarat state of India.
4. After some interactions at different levels both parties intend to work together/collaborate to provide support in transforming Rajkot into Smart Rajkot under Smart Cities Mission and will collaborate for any mutual Assistance other than financial obligation as mutually agreed.

NOW THEREFORE, in consideration of the mutual promises and covenants contained herein, the Parties agree as follows:

1. Purpose :

The parties are entering into this 'Non-binding' MOU to record the terms and conditions on which RBA will help RMC for the development of Rajkot as a 'Smart City'.

2. Responsibilities

2.1. RBA responsibilities

RBA hereby agrees that it will undertake, either itself or through one or more of the Committee members, reasonable endeavors to

- (i) Provide any essential information/technical assistance as and when required by RMC for making Rajkot a smart city.

3. Terms for Termination

Both the Parties may terminate this MoU at any time by notice with immediate effect if it reasonably believes that other parties performance, or any aspect of it, results, or might breach any legal, regulatory, ethical or audit independence requirement in the jurisdiction, or any other reason.

4. Other Terms:

a. Sharing of Information

As may be appropriate from time to time, each Party may share information with the other on a regular basis regarding the arrangement under this MoU. Both the parties will be solely and entirely responsible for any third party information or materials, that they will share with each other, with regards to its requisite rights, authorizations or agreements, in place, enabling accessibility and usage of such information.

b. Confidentiality

The Parties agree and acknowledge that sensitive information and confidential data will be exchanged between the Parties pursuant to this MoU. Such data will be marked confidential ('Confidential Information'). Each Party agrees that it will maintain confidentiality of the Confidential Information disclosed to it by the other party under this MoU and will ensure that this clause is strictly adhered to by its officers, employees, agents, consultants and representatives. In case of expiry or termination of this MoU, each party will promptly return all confidential information, to the disclosing party upon request after expiry/termination of this MoU.

c. Expense and No Liability

Unless otherwise specifically agreed to in writing by the Parties for implementing the Scope of Services, for any future activity the financial Terms and Conditions will be decided on case to case basis as and when required.

d. Counterparts

Memorandum of Understanding (MoU) may be signed in any number of counterparts, all of which taken together will constitute one and the same instrument. RBA and RMC may enter into the Memorandum of Understanding (MoU) by signing any such counterpart and each counterpart may be signed, executed and transmitted by facsimile transmission and will be as valid and effectual as if executed as an original.

..(4)...

e. Entire Agreement

This MoU contains the entire understanding between the Parties hereto and supersedes all prior arrangements, understandings and agreements, written or oral, on the subject hereof. Any part of this MoU which is not enforceable due to any reason whatsoever will be deemed to be inoperative and the rest of the MoU will continue to be valid and binding on the Parties hereto. This MoU may be amended in writing only duly signed by parties.

f. Representation

g. Each Party hereby represents to the other that it has all necessary power and authority to execute and deliver this MOU.

h.

i. Co-operation

RBA and RMC acknowledge that they have entered into the Memorandum of Understanding (MoU) in good faith and will cooperate in good faith to achieve the objectives set herein.

In witness whereof, the undersigned Parties have executed this MoU as of the date indicated above:

5. On Behalf of

Rajkot Builders association (RBA)

By:

Name: **DHRUVIK TALAVIYA**

Title: **VICE - PRESIDENT (RBA)**

Date: **17-03-2017**

On Behalf of

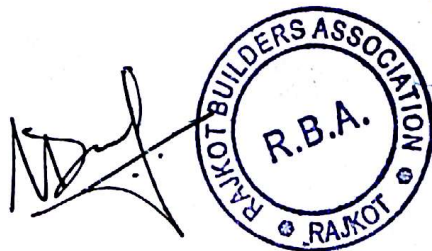
Rajkot Municipal Corporation (RMC)

By:

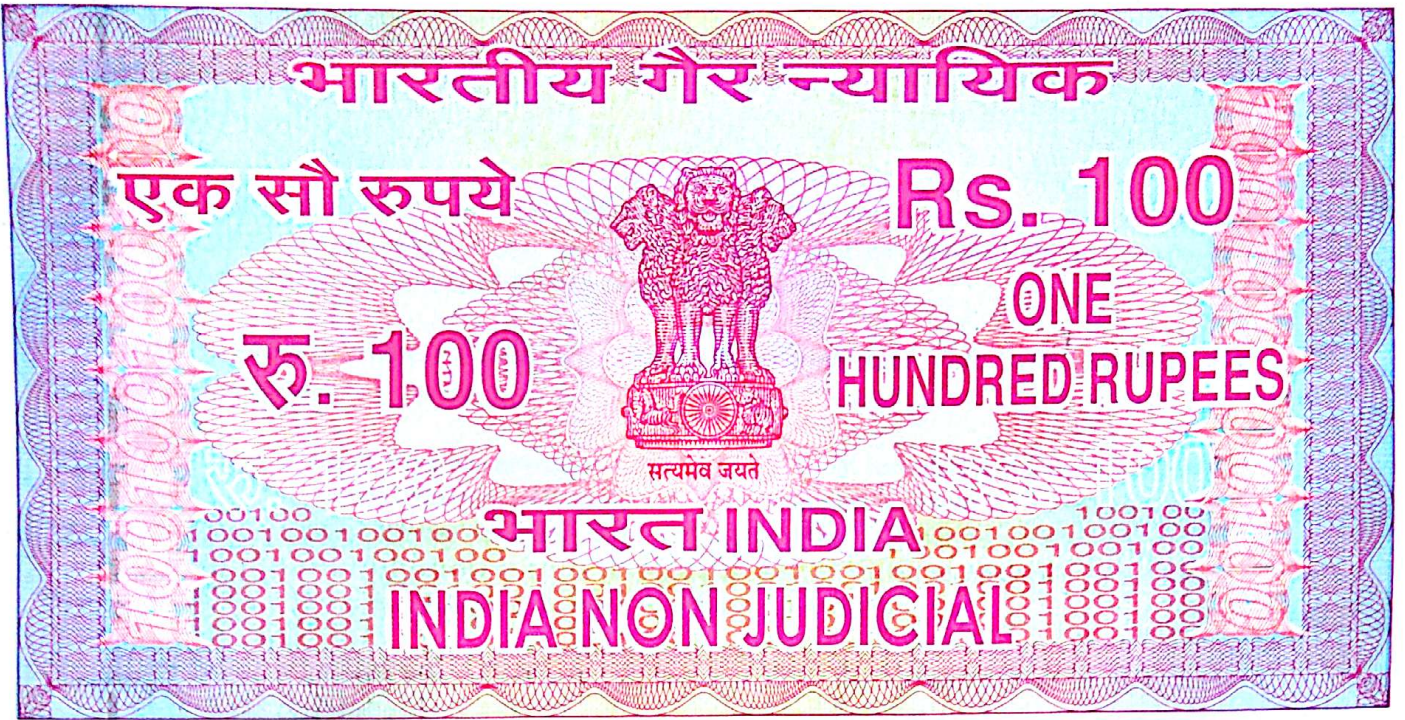
Name: **Mr. Banuchamidhi Bani**

Title: **Municipal Commissioner,**

Date: **17-03-2017**



MoU with Indian Institute of Architects – Rajkot



ગુજરાત ગુજરાત GUJARAT

BB 178529

✕

₹ 100/- નું એક સૌ રૂપિયા નું નોટ નંબર (7)
 પરીશ્રિત સંસ્થાનું નોટ નંબર પરીશ્રિત સંસ્થાનું નોટ નંબર
 નોટ નંબર નોટ નંબર
 સ્થાન: ક. ટ. બ. મ. તા. 14/3/17
 ભારતીય રજિસ્ટ્રાર પદ
 ઇ. નં. ૯૦૯-૬૦૬
 ગુ. ડેપો. ઓફ, પોસ્ટ ઓફીસ,
 રાજકોટ - ૩૬૦ ૦૦૧.

MEMORANDUM OF UNDERSTANDING BETWEEN
 THE INDIAN INSTITUTE OF ARCHITECTS (IIA) Saurashtra Centre
 AND
 RAJKOT MUNICIPAL CORPORATION (RMC), RAJKOT

This is a "non-binding" Memorandum of Understanding (MoU) made in Rajkot, India on of March, 2017 between the undersigned:

THE INDIAN INSTITUTE OF ARCHITECTS (Saurashtra Centre) (hereinafter referred to as "IIA-Saurashtra Centre ", which expression will include its successors and permitted assigns, unless repugnant to the context or meaning), acting through its Architect MAUKTIK TRIVEDI, Chairman IIA Saurashtra of the first part

And

Rajkot Municipal corporation (hereinafter referred to as "RMC", which expression will include its successors and permitted assigns, unless repugnant to the context or meaning) acting through its Municipal Commissioner Mr. Banchhanidhi Pani of the second part

IIA-Saurashtra Centre and RMC are hereinafter individually referred to as "Party" and collectively as "Parties", as the context may require

Whereas

1. The Government of India has envisaged 'Smart Cities Mission' considering the need for an all-round, socio-economic development of the country. The initiative intends to develop 100 cities and towns in the country as smart cities and is expected to generate a large number of opportunities for the industry in terms of deploying state of the art technologies, provision of value added and sustainable services, and, investment opportunities.
2. IIA-Saurashtra Centre was established in the year of 1991. **The Indian Institute of Architects (IIA)** is the National body of Architects in the country. Established in 1917, the institute today has more than 20,000 members and plays a major role in promoting the profession of architecture by organizing and uniting the Architects of India to promote aesthetic, scientific and practical efficiency of the profession both in Practice and in Education.
3. Rajkot Municipal Corporation (RMC) was established in 1973. RMC is responsible for the civic infrastructure and administration of the city of Rajkot in Gujarat state of India.
4. After some interactions at different levels, both parties intend to work together/collaborate to provide support in transforming Rajkot into Smart Rajkot under Smart Cities Mission and will collaborate for "Guidance, expertise of IIA-Saurashtra Centre in all the matters related to Architectural design, physical planning and development, town planning of the city. Consultation& suggestions. "As mutually agreed.

NOW THEREFORE, in consideration of the mutual promises and covenants contained herein, the Parties agree as follows:

1. Purpose :
The parties are entering into this 'Non-binding' MOU to record the terms and conditions on which IIA-Saurashtra Centre will "Guidance, Suggestions, Consultations in terms of design related solutions " to the RMC for the development of Rajkot as a 'Smart City'.
2. Responsibilities

IIA-Saurashtra Centre hereby agrees that it will undertake either itself or through one or more of the Committee members, reasonable endeavors to Guidance, expertise of IIA-Saurashtra Centre in all the matters related to Architectural design, physical planning and development, town planning of the city. Consultation& suggestions.

3. Terms for Termination

Both the Parties may terminate this MoU at any time by notice with immediate effect if it reasonably believes that other parties performance, or any aspect of it, results, or might breach any legal, regulatory, ethical or audit independence requirement in the jurisdiction, or any other reason.

4. Other Terms:

a. Sharing of Information

As may be appropriate from time to time, each Party may share information with the other on a regular basis regarding the arrangement under this MoU. Both the parties will be solely and entirely responsible for any third party information or materials, that they will share with each other, with regards to its requisite rights, authorizations or agreements, in place, enabling accessibility and usage of such information.

b. Confidentiality

The Parties agree and acknowledge that sensitive information and confidential data will be exchanged between the Parties pursuant to this MoU. Such data will be marked confidential ('Confidential Information').

IIA-Saurashtra Centre shall have to share, disclose, discuss with fellow professionals, staff, allied consultants certain information in order to carry out the provisions under the MoU for any project that it undertakes. IIA-Saurashtra Centre cannot take responsibility regarding confidentiality of information though it will try to the best of its ability to maintain confidentiality

c. Expense and No Liability

Unless otherwise specifically agreed to in writing by the Parties for implementing the Scope of Services, for any future activity the financial Terms and Conditions will be decided on case to case basis as and when required. It is generally agreed that the scope of work, scale of charges and schedule of payment shall be guided by the Council of Architecture norms.

d. Counterparts

Memorandum of Understanding (MoU) may be signed in any number of counterparts, all of which taken together will constitute one and the same instrument. IIA-Saurashtra Centre and RMC may enter into the Memorandum of Understanding (MoU) by signing any such counterpart and each counterpart may be signed, executed and transmitted by facsimile transmission and will be as valid and effectual as if executed as an original.

e. Entire Agreement

This MoU contains the entire understanding between the Parties hereto and supersedes all prior arrangements, understandings and agreements, written or oral, on the subject hereof. Any part of this MoU which is not enforceable due to any reason whatsoever will be deemed to be inoperative and the rest of the MoU will continue to be valid and binding on the Parties hereto. This MoU may be amended in writing only duly signed by parties.

f. Representation

Each Party hereby represents to the other that it has all necessary power and authority to execute and deliver this MOU.

g. Co-operation

IIA-Saurashtra Centre and RMC acknowledge that they have entered into the Memorandum of Understanding (MoU) in good faith and will cooperate in good faith to achieve the objectives set herein.

RMC agrees that it will seek guidance, expertise of IIA-Saurashtra Centre in all the matters related to physical planning and development, town planning of the city. RMC will ex-officio appoint IIA-Saurashtra Centre Chairman as a member of any committee related to such developmental works of Rajkot. IIA-Saurashtra Centre Chairman may appoint himself or depute any member as representative of the Association in such a committee.

In witness whereof, the undersigned Parties have executed this MoU as of the date indicated above:

On Behalf of
IIA-Saurashtra Centre

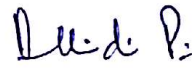
By:


Name: Ar. Mauktik Trivedi
Title: Chairman – IIA Saurashtra
Date: 17-03-2017

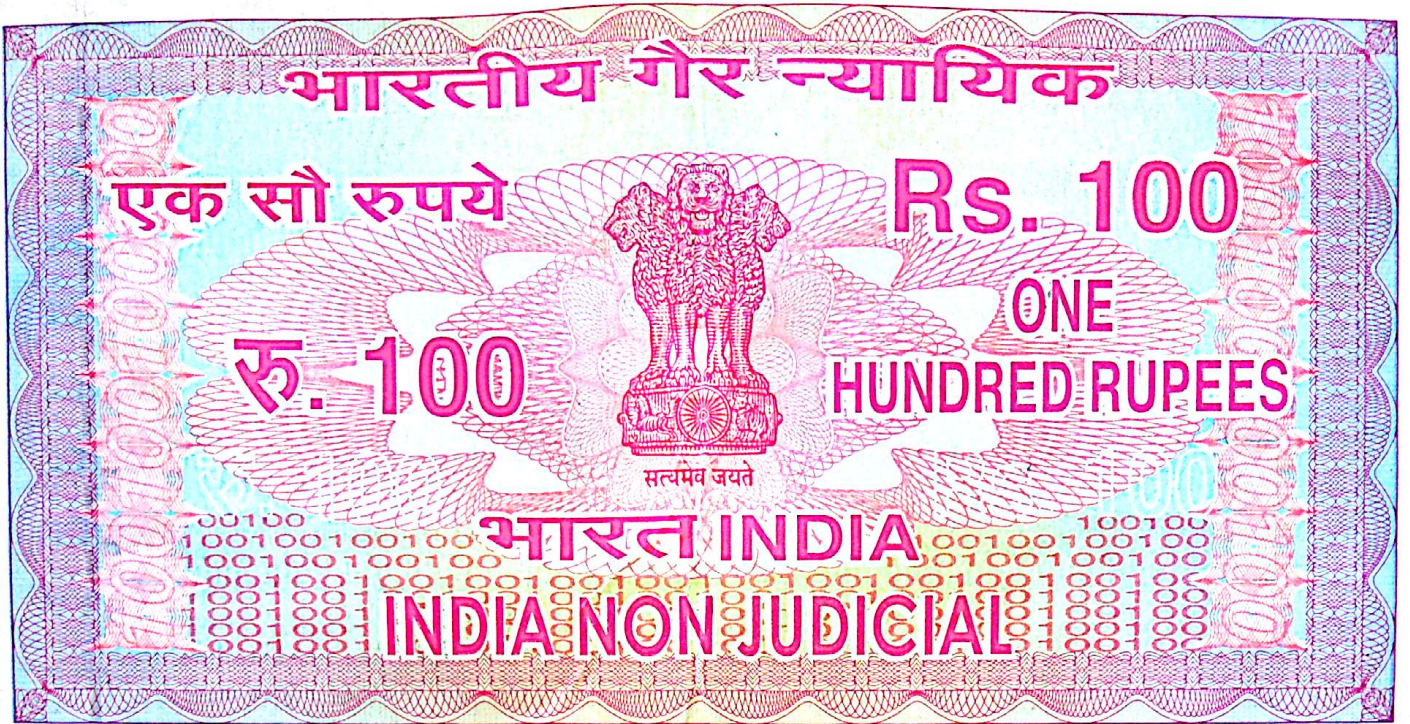


On Behalf of
Rajkot Municipal Corporation (RMC)

By:


Name: Mr. Banchhanidhi Pani
Title: Municipal Commissioner
Date: 17-03-2017

MoU with Rajkot Chamber of Commerce and Industry



ગુજરાત ગુજરાત GUJARAT

BB 178531

100/- રૂ. સ્ટેમ્પ વેલ્યુ 431... (9)
રાજકોટ મ્યુ. કોર્પો. ઓફ, પોસ્ટ...
RCCI RMC ROOM NO. 6
સ્ટેમ્પ ડિપોઝિટ... 14-3-17

ભારતીય સ્ટેમ્પ બોર્ડ,
બી. નં. ૯૦૯...
મ્યુ. કોર્પો. ઓફ, પોસ્ટ...
રાજકોટ - ૩૬૦ ૦૦૧.

MEMORANDUM OF UNDERSTANDING BETWEEN
RCCI AND RAJKOT MUNICIPAL CORPORATION (RMC), RAJKOT

This is a "non-binding" Memorandum of Understanding (MoU) made in Rajkot, India on _____ of March, 2017 between the undersigned:

Rajkot Chamber of Commerce and Industry (hereinafter referred to as "RCCI", which expression will include its successors and permitted assigns, unless repugnant to the context or meaning) having its headquarter at Center Point, Karansinghji Road, Rajkot 360001, acting through its Shri Sameerbhai Shah of the first part

And

Rajkot Municipal corporation (hereinafter referred to as "RMC", which expression will include its successors and permitted assigns, unless repugnant to the context or meaning) acting through its Municipal Commissioner Mr. Banchhanidhi Pani of the second part

RCCI and RMC are hereinafter individually referred to as "Party" and collectively as "Parties", as the context may require

Whereas

1. The Government of India has envisaged 'Smart Cities Mission' considering the need for an all-round, socio-economic development of the country. The initiative intends to develop 100 cities and towns in the country as smart cities and is expected to generate a large number of opportunities for the industry in terms of deploying state of the art technologies, provision of value added and sustainable services, and, investment opportunities.
2. RCCI, an industry association, has contributed significantly in the development of Saurashtra Region especially Rajkot in the area of Boeing Service, Saurashtra University, Doordarshan Kendra and Medical College etc.
3. Rajkot Municipal Corporation (RMC) was established in 1973. RMC is responsible for the civic infrastructure and administration of the city of Rajkot in Gujarat state of India.
4. After some interactions at different levels, both parties intend to work together/collaborate to provide support in transforming Rajkot into Smart Rajkot under Smart Cities Mission and will collaborate for any mutual Assistance other than financial obligation as mutually agreed.

NOW THEREFORE, in consideration of the mutual promises and covenants contained herein, the Parties agree as follows:

1. Purpose :

The parties are entering into this 'Non-binding' MOU to record the terms and conditions on which RCCI will help RMC for the development of Rajkot as a 'Smart City'.

2. Responsibilities

2.1. RCCI responsibilities

RCCI hereby agrees that it will undertake, either itself or through one or more of the Committee members, reasonable endeavors to

- (i) Provide any essential information/technical assistance as and when required by RMC for making Rajkot a smart city.

3. Terms for Termination

Both the Parties may terminate this MoU at any time by notice with immediate effect if it reasonably believes that other parties performance, or any aspect of it, results, or might breach any legal, regulatory, ethical or audit independence requirement in the jurisdiction, or any other reason.

4. Other Terms:

a. Sharing of Information

As may be appropriate from time to time, each Party may share information with the other on a regular basis regarding the arrangement under this MoU. Both the parties will be solely and entirely responsible for any third party information or materials, that they will share with each other, with regards to its requisite rights, authorizations or agreements, in place, enabling accessibility and usage of such information.

b. Confidentiality

The Parties agree and acknowledge that sensitive information and confidential data will be exchanged between the Parties pursuant to this MoU. Such data will be marked confidential ('Confidential Information'). Each Party agrees that it will maintain confidentiality of the Confidential Information disclosed to it by the other party under this MoU and will ensure that this clause is strictly adhered to by its officers, employees, agents, consultants and representatives. In case of expiry or termination of this MoU, each party will promptly return all confidential information, to the disclosing party upon request after expiry/termination of this MoU.

c. Expense and No Liability

Unless otherwise specifically agreed to in writing by the Parties for implementing the Scope of Services, for any future activity the financial Terms and Conditions will be decided on case to case basis as and when required.

d. Counterparts

Memorandum of Understanding (MoU) may be signed in any number of counterparts, all of which taken together will constitute one and the same instrument. RCCI and RMC may enter into the Memorandum of Understanding (MoU) by signing any such counterpart and each counterpart may be signed, executed and transmitted by facsimile transmission and will be as valid and effectual as if executed as an original.

e. Entire Agreement

This MoU contains the entire understanding between the Parties hereto and supersedes all prior arrangements, understandings and agreements, written or oral, on the subject hereof. Any part of this MoU which is not enforceable due to any reason whatsoever will be deemed to be inoperative and the rest of the MoU will continue to be valid and binding on the Parties hereto. This MoU may be amended in writing only duly signed by parties.

f. Representation

Each Party hereby represents to the other that it has all necessary power and authority to execute and deliver this MOU.

g. Co-operation

RCCI and RMC acknowledge that they have entered into the Memorandum of Understanding (MoU) in good faith and will cooperate in good faith to achieve the objectives set herein.

In witness whereof, the undersigned Parties have executed this MoU as of the date indicated above:

On Behalf of

On Behalf of

Rajkot Chamber of Commerce and Industry (RCCI)

By: *Sameer M. Shah*

Name: Shri Sameerbhai M. Shah

Title: President

Date: 17-03-2017



Rajkot Municipal Corporation (RMC)

By: *Banchhanidhi Pani*

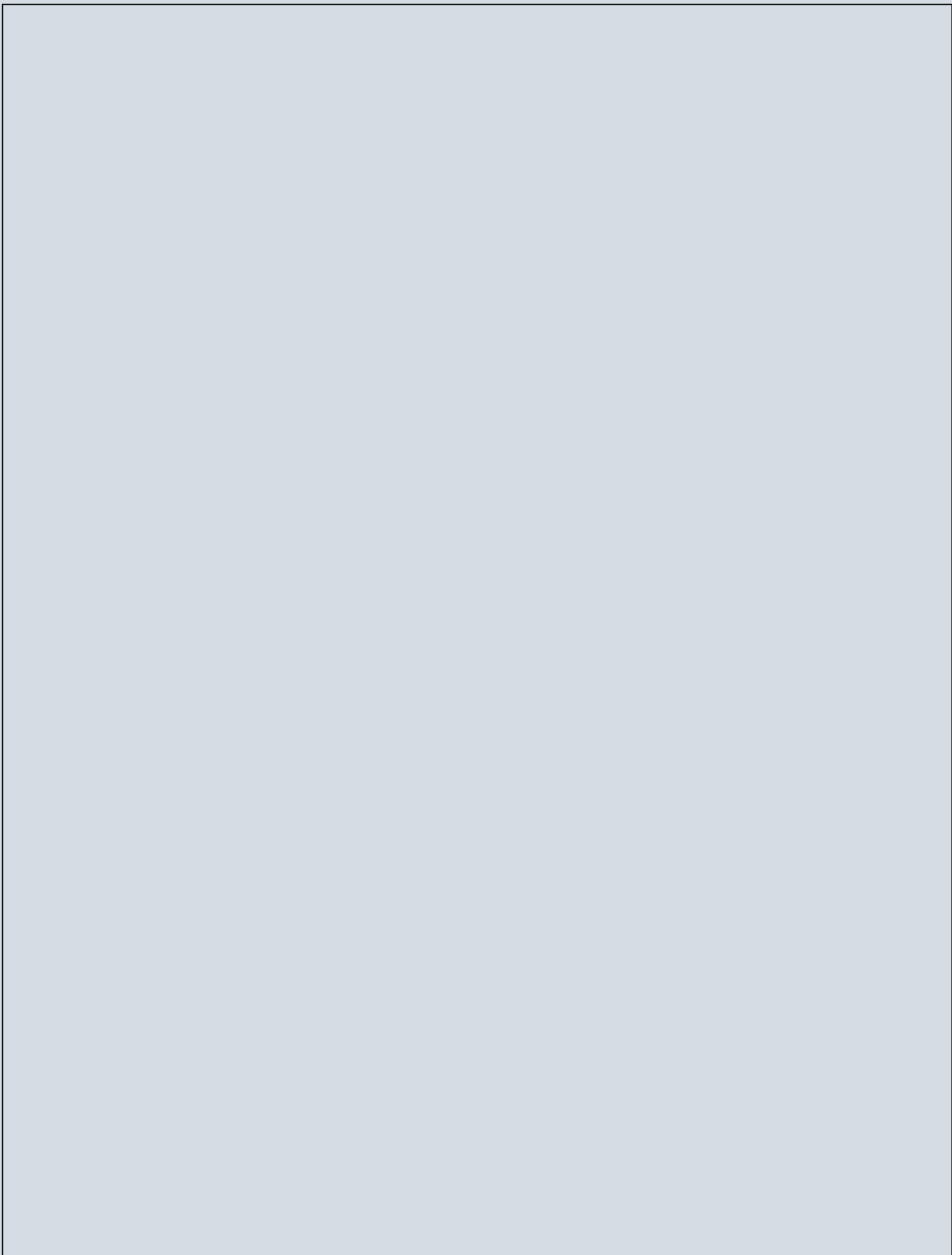
Name: Mr. Banchhanidhi Pani

Title: Municipal Commissioner

Date: 17-03-2017



Letter of support - Gujarat Gas Limited





GUJARAT GAS

Nitin Patil

Chief Executive Officer

Ref.: GGL/Rajkot/RMC/Smart City/01

Date: 24th March, 2017

To,
The Municipal Commissioner,
Rajkot Municipal Corporation,
Rajkot.

Sub: Contribution for development of Gas Pipeline Network under Smart City Project.

Respected Sir,

We refer to various meetings held in the captioned matter that were attended by us also. We take this opportunity to congratulate you and your team who are working for Smart City Project.

We understand and appreciate that the Government of India has envisaged 'Smart Cities Mission' considering the need for an all-round, socio-economic development of the country. The initiative intends to develop 100 cities and towns in the country as smart cities and is expected to generate a large number of opportunities for the industry in terms of deploying state of the art technologies, provision of value added and sustainable services, and, investment opportunities.

As per interactions at different levels with RMC, we believe GGL is invited to work together with RMC and collaborate to provide support in transforming Rajkot into Smart Rajkot under Smart Cities Mission and to collaborate for "Establishment of gas pipeline network " for the development of Rajkot as a 'Smart City'.

In this context, we, Gujarat Gas Ltd., hereby agree to undertake, reasonable endeavors to contribute for establishment and extension of our gas pipeline network for the development of Rajkot as Smart City.

Furthermore, the scope of services, for any future viable activity under this letter and/or related to the financial terms and conditions will be decided on case to case basis as and when required.

Thanking you and assuring our best possible support to the Rajkot Municipal Corporation.

Yours Sincerely,
For **Gujarat Gas Ltd.**,



Nitin Patil

GUJARAT GAS LIMITED (A GSPC Group Company – Government of Gujarat Undertaking) (Formerly known as GSPC Distribution Networks Limited)

Corporate Office : 2, Shanti Sadan Society, Near Parimal Garden, Ellisbridge, Ahmedabad - 380 006, Gujarat, India.

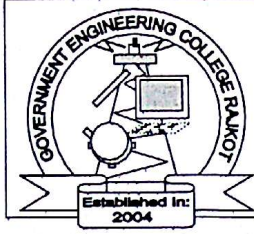
Tel.: +91 -79-26462980, 26460095 **Fax :** +91 -79-26461265

Registered Office : Block No. 15, 3rd Floor, Udyog Bhavan, Sector-11, Gandhinagar - 382 011, Gujarat, India.

Website : www.gujaratgas.com, www.gspcgroup.com **CIN :** L40200GJ2012SGC069118

LETTER OF SUPPORT

- GEC RAJKOT
- VVP ENGINEERING COLLEGE
- DARSHAN INSTITUTE OF ENGINEERING & TECHNOLOGY
- SRI LABHUBHAI TRIVEDI INSTITUTE OF ENGINEERING & TECHNOLOGY
- INDUBHAI PAREKH SCHOOL OF ARCHITECTURE
- ATMIYA INSTITUTE OF TECHNOLOGY & SCIENCE



GOVERNMENT ENGINEERING COLLEGE

(Department of Technical Education, Government of Gujarat)

Mavadi-Kankot Road, Rajkot

Website: www.gecrajkot.ac.in

Email :- gec_raj_2004@yahoo.co.in Ph. 9978287873



सत्यमेव जयते

GECR/2017/RMC-Smart City/ 2463

Date : 20/03/2017

To,
The Municipal Commissioner
Rajkot Municipal Corporation
(CZ) Dhebarbhai Road, Rajkot
Gujarat, India

Subject: Letter of Support for Rajkot Smart City Initiative under Smart City Mission

Dear Sir,

It is heartening to know that Rajkot is one of the strong contenders for Smart City Mission Round III. I firmly believe that this initiative will greatly benefit the city and its citizens. I sincerely thank you for engaging us during citizen consultation phase.

Further, our organization would extend full support to RMC for proposed "Smart City Project".

It will be our pleasure to be part of smart city projects and we look forward to working with RMC.

Thanking you,



Sincerely Yours,

Prof. (Dr.) G. J. Vala
Principal

Government Engineering College,
Rajkot.



V. V. P. ENGINEERING COLLEGE

Vajdi Virda, Kalawad Road, Rajkot - 360 005. Phone : +91-281-278 33 94, 278 34 86 Fax : +91-281 -278 34 87

VVPEC/EDC/1516

Date: 20th March 20, 2017

To,
Municipal Commissioner
Rajkot Municipal Corporation
(CZ) Dhebarbhai Road, Rajkot
Gujarat, India

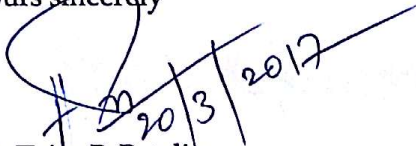
Subject: Letter of Support for Rajkot Smart City Initiative under Smart City Mission

Dear Sir,

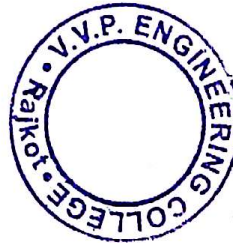
It is heartening to know that Rajkot is one of the strong contenders for Smart City Mission Round III. I firmly believe that this initiative will greatly benefit the city and its citizens. I sincerely thank you for engaging us during citizen consultation phase.

Our institute will extend all the possible support for proposed "Smart City Project" within our capacity and convenience.

Yours sincerely


20/3/2017

Dr. Tejas P. Patalia
Principal
V.V.P. Engineering College
Rajkot





Dedicated Faculty Committed Education

Darshan

Institute of Engineering & Technology

Approved by AICTE New Delhi - Affiliated to GTU

Tel. : + 91 2822 293010 / 11 | Email : info@darshan.ac.in

Fax : + 91 2822 293008 | Web : www.darshan.ac.in

At. - Hadala, Rajkot-Morbi Highway,
Nr. Water Sump, Rajkot - 363 650. (GUJARAT)

DIET/ESTA/041/2016-17

Dt-18/03/17

To,
Municipal Commissioner
Rajkot Municipal Corporation
(CZ) Dhebarbhai Road, Rajkot
Gujarat, India

Subject: **Letter of Support** for Rajkot Smart City Initiative under Smart City Mission

Dear Sir,

It is heartening to know that **Rajkot** is one of the strong contenders for **Smart City Mission Round III**. I firmly believe that this initiative will greatly benefit the city and its citizens. I sincerely thank you for engaging us during citizen consultation phase.

Further, I am writing to express my full support to **RMC** for proposed "**Smart City Project**". It will be our pleasure to be part of smart city projects and we look forward to working with **RMC** again.

Yours sincerely

Principal
Darshan Institute of Engg.
and Technology - Rajkot.



MAHATMA GANDHI CHARITABLE TRUST MANAGED
**SHRI LABHUBHAI TRIVEDI INSTITUTE
OF ENGINEERING & TECHNOLOGY**

Approved by AICTE, New Delhi & Affiliated to GTU, Ahmedabad

To,
Municipal Commissioner
Rajkot Municipal Corporation
(CZ) Dhebarbhai Road, Rajkot
Gujarat, India

Subject: Letter of Support for Rajkot Smart City Initiative under Smart City Mission

Dear Sir,

It is heartening to know that Rajkot is one of the strong contenders for Smart City Mission Round III. I firmly believe that this initiative will greatly benefit the city and its citizens. I sincerely thank you for engaging us during citizen consultation phase.

Further, I am writing to express my full support to RMC for proposed "Smart City Project". It will be our pleasure to be part of smart city projects and we look forward to working with RMC again.

Yours sincerely

Principal, SLTIET

Shri Labhubhai Trivedi
Institute of Engineering & Technology
Nr. Government Engineering College
Kalawad Road, Rajkot-360 005



VYAVASAYIVIDYAPRATISHTHAN
SANCHALIT

**INDUBHAI PAREKH
SCHOOL OF
ARCHITECTURE**

Date: March 18, 2017

To,
Municipal Commissioner,
Rajkot Municipal Corporation,
Dr. Ambedkar Bhavan,
Dhebarbhai Road,
Rajkot-360001
Gujarat, India

Subject: Letter of support for Rajkot Smart City Initiative under Smart City Mission

Dear Sir,

It is heartening to know that Rajkot is one of the strong contenders for Smart City Mission Round III. I firmly believe that this initiative will greatly benefit the city and its citizens. I sincerely thank you for engaging us during citizen consultation phase.

Further, I am writing to express my full support to RMC for proposed "**Smart City Project**". It will be our pleasure to be part of smart city projects and we look forward to working with RMC again in further endeavors.

Yours sincerely



(Prof. Devang Parekh)
Principal
Indubhai Parekh School of Architecture
Rajkot





ATMIYA[®]

SARVODAY KELAVANI SAMAJ MANAGED

INSTITUTE OF TECHNOLOGY & SCIENCE

Date:- 21/03/2017

To,
Municipal Commissioner
Rajkot Municipal Corporation
(CZ) Dhebarbhai Road, Rajkot
Gujarat, India

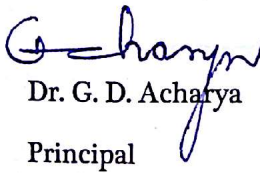
Subject: Letter of Support for Rajkot Smart City Initiative under Smart City Mission

Dear Sir,

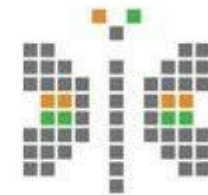
It is heartening to know that Rajkot is one of the strong contenders for Smart City Mission Round III. I firmly believe that this initiative will greatly benefit the city and its citizens. I sincerely thank you for engaging us during citizen consultation phase.

Further, I am writing to express my full support to RMC for proposed "Smart City Project". It will be our pleasure to be part of smart city projects and we look forward to working with RMC again.

Yours sincerely


Dr. G. D. Acharya 21/3/17
Principal

RAJKOT SCP Presentation to HPSC of Govt. of Gujarat

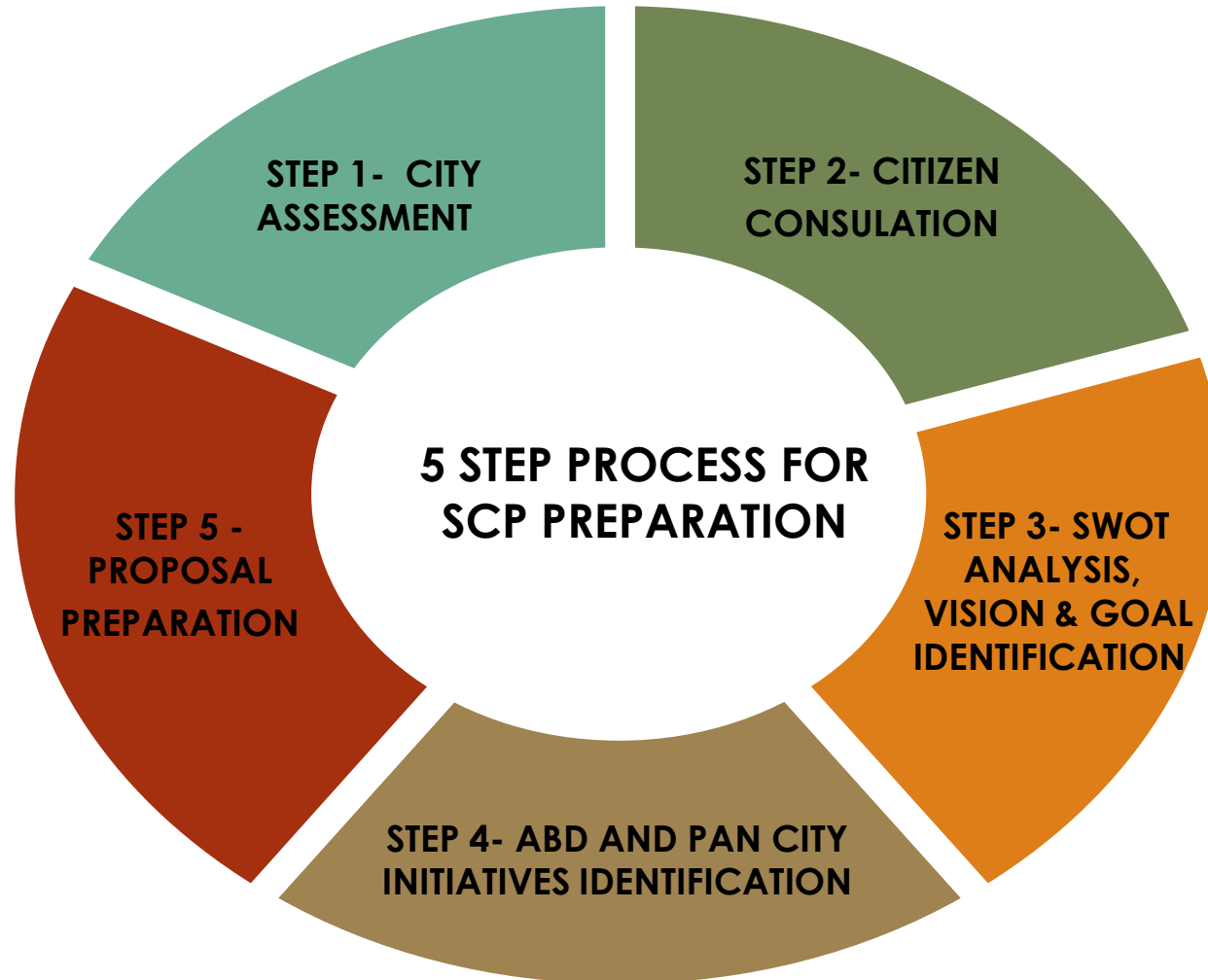


Smart City
MISSION TRANSFORM-NATION

Smart City Proposal (SCP) Round III Rajkot Municipal Corporation



RAJKOT SCP PREPARATION PROCESS



ADVANTAGE RAJKOT



LOCATION

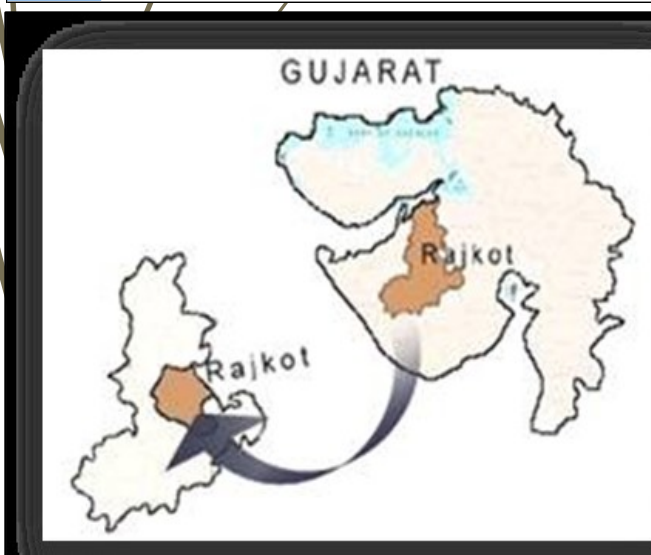
- City is a key node on the proposed “Economic Corridor” along the Surendranagar-Rajkot-Morbi-Kandla link which is testimony to Rajkot’s growing economic importance
- Gateway to tourism circuit of Dwarka, Somnath, Sasan and Gir
- Caters to the satellite towns of Morbi, Jetpur and Gondal

DEMOGRAPHY

- Total Population – 1442975
- Area - 129.21 sq. km
- Sex ratio – 908 female /1000 Male
- Children (0-6)- 158,052 (10.95%)
- Youth (18-45) – 7,05,107 (48.8%)
- Elderly – 86,417 (5.9%)
- Divyang- 30,735 (2.13%)
- Average Literacy (%) - 87.80 %

ECONOMY

- Rajkot is a major industrial hub of Saurashtra
- More than 43000 industrial units are located in Rajkot
- Rajkot has grown to be major center for the production of Diesel Engines.
- Engineering and Automobile Industries
- Castor Oil Industries
- Gold & Silver Jewelry.



CITIZEN CONSULTATION - ROUND III



ENGAGEMENT STRATEGY



Rajkot Smart City - Citizen Engagement for Round-III
Read More
Posted on: 06 Mar 2017

Smart City Rajkot Proposal - Pan City & ABD Initiatives
My Dream City - Smart City Rajkot

Maru Smart Rajkot - Round III - Poll for Pan City Initiatives

Maru Smart Rajkot - Round III - Poll for Area Based Development

Feedback on Rajkot smart city Citizen Consultation Process - Round III

Rajkot Municipal Corporation - Citizen Feedback Form

CITIZEN CONSULTATION- ROUND III



OUTREACH

Smart City Marathon
Participation - 65000
Smart City Flower show
Participation - 450,000

200000+ Physical forms,
Responses received-
74,800+

Competitions
Vision contest - 100+
participants, Smart City
Essay - 70+ participants
Smart Lab competition -
52 groups
Smart city Cheering
stations - 31 Teams

Student Seminars -
3000+ participants
Focussed Group
Discussions - 2500
participants
Citizen Consultation
Workshops - 20



**Rajkot Smart City
Mission**
Total Participation
more than 900,000
people, more than
70% of total
population



Mass SMS - 230,000
citizens
News Paper
Radio Jingles

Ward Level
consultation
Outreach -
15000+, RMC's Smart
city video - Outreach
20000+,

Social Media
Facebook outreach-
1.65 Lakh, RMC twitter
handle reach- 25000
, Likes & retweets -
40000+

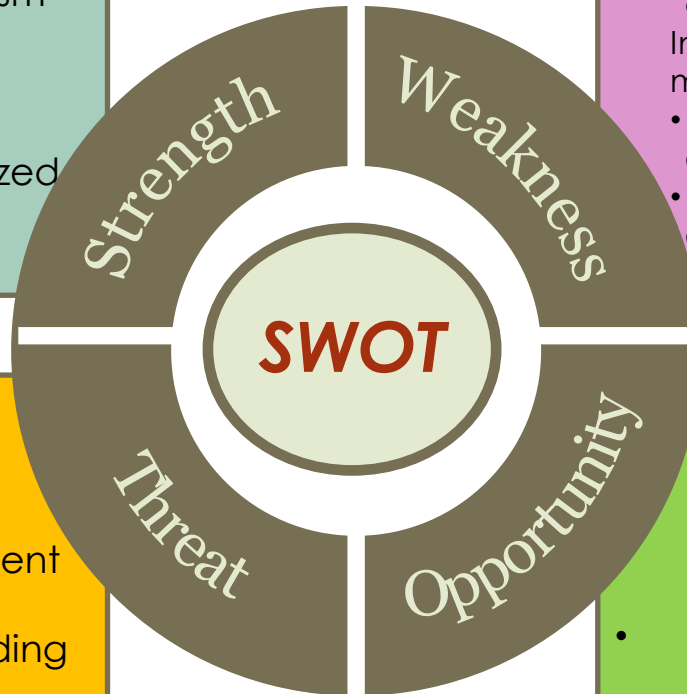
MyGov.In- 3 polls, 2
Discussions, 1 Blog
RMC website - 3 polls
Responses received -
6000+

SWOT ANALYSIS



- Strong Manufacturing base
- Strategic location and good connectivity.
- Local culture and tourism potential.
- Relatively good infrastructure
- Internationally recognized sustainable initiatives.

- Scarcity of water.
- Increasing river pollution and air pollution.
- Unorganized development in some parts of the city.
- Rising income levels leading to rise in private vehicles.
- Rise of slums in western regions.



- Lacks organized trade facilitation & business promotion facilities.
- Traffic & Transportation challenges in the core city area. Inadequate water sources & mgmt.
- Inadequate promotion of Local art and economies.
- Inadequate tourism facilities and recreational areas.

- Availability of Land banks
- Potential to develop a new Business District cum Trade Center of the region.
- Potential to develop as Tourism center.
- Opportunity to leverage on its Environmental sustainability initiatives.



VISION AND GOALS

Vision

To develop Rajkot as smart, livable and iconic city of Gujarat with inclusive growth and sustainable development, by leveraging its historical strengths and providing state of the art infrastructure, delivery of services and empowering ecosystem by enabling citizens to realize their dreams.

Continuous & assured 24x7 water supply

Safe & Secure Rajkot with smart traffic management

Solve the mobility challenge

Swachh Rajkot with beautification of the city





**AREA BASED
DEVELOPMENT:
ADVANTAGE BRTS
CENTRAL DISTRICT
(ABCD)**



OPTIONS IDENTIFIED FOR ABD

OPTION 1 GREEN FIELD DEVELOPMENT At **NEW RALYA AREA** Min LAND **250** Acre.

- Corporate Offices, Hospitals, Education Institutes
- International Standard Convention-Cum Exhibition Centre
- Skill Centre for Skill Development
- Recreational Areas, Cultural Centre and Multisport Indoor Facility.

NEW RACE COURSE

- High Density Residential Development including Affordable Housing
- Hotels & Restaurants along with Commercial Development
- Village Zanki : showcase Traditional Village of Saurashtra including their Art & Culture, Lifestyle, Food, Products etc.

49%

AREA BASED DEVELOPMENT :

OPTION 3 SLUM RE-DEVELOPMENT & RIVER REJUVENATION

Area: **50** Acre.

- Rejuvenation of Aji-River, Aji II Reservoir,
- Slum Redevelopment including Social Infrastructure.
- Provide Green Pathways Covered with Solar Panel Roofs
- Recreational Area Development along the Pathways.

22%



Total Length **10.7** Km.

Corridor Width along BRTS : **250** m on either side.

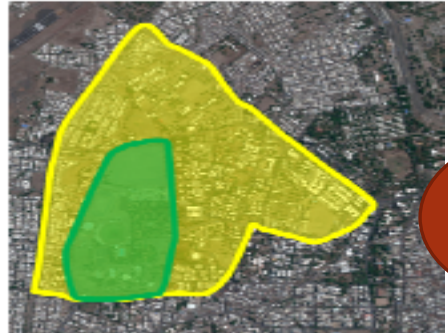
- TOD with High Density and Mixed Development.
- Promote Eco-Mobility – Bicycle Lanes, Footpath Network, Easy access to Public Transport.
- Green walkways, Pedestrian Pathways Covered with Solar Panels
- Access to all Municipal Services as per service level Benchmark
- Recreational Areas & Garden to promote Social Inclusiveness.



OPTION 4 RETROFITTING RACE COURSE AREA

- Sports & Recreational Centre of City to be strengthened to make it international standard Sports Centre,
- City Recreational Centre & Tourist Attraction,
- Promote Eco-Mobility- Bicycle Lanes & Pedestrian Pathways Covered with Solar Panels
- Green Walkways
- Smart Connectivity to Public Transportation System along with Special Electrical Vehicles for Tour.

13%



16%

OPTION 2 RETROFITTING BRTS CORRIDOR

TRANSIT ORIENTED DEVELOPMENT ALONG BRTS CORRIDOR

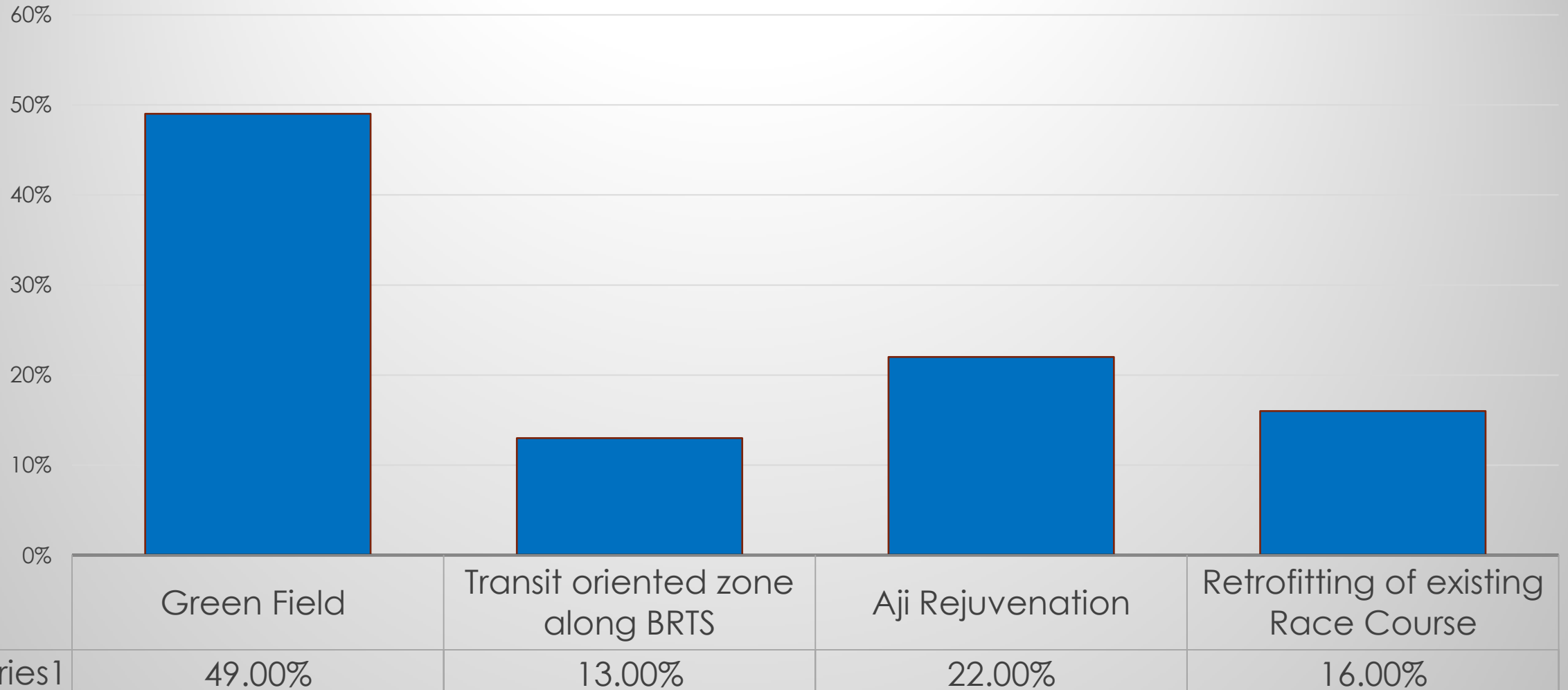
500 Acres **AROUND RACE COURSE AREA**

In addition to citizens' preference, green field development proposal is the need of the hour for Rajkot city in order to cater to the City's uni-directional growth towards west in a planned and sustainable manner; in synchronization with ongoing and proposed interventions under various National and state level schemes to improve the service delivery in the exiting areas

CITIZEN ENGAGEMENT ABD POLL RESULTS



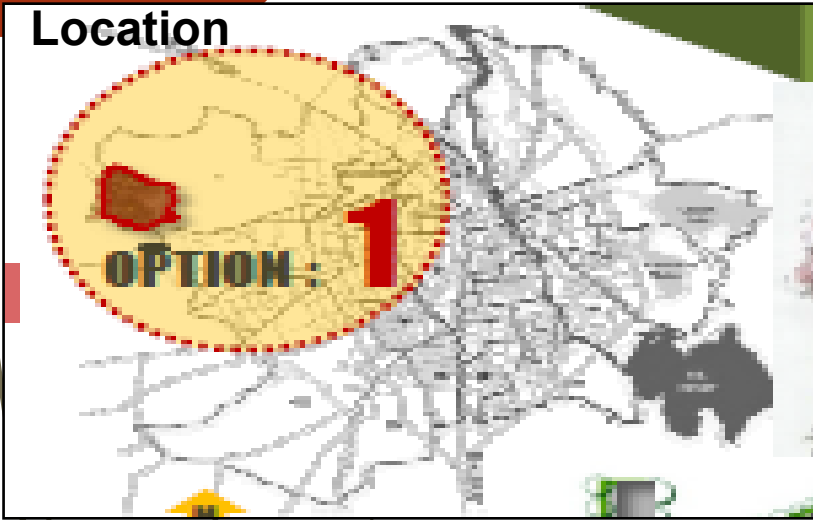
AREA BASED DEVELOPMENT- CITIZEN POLL



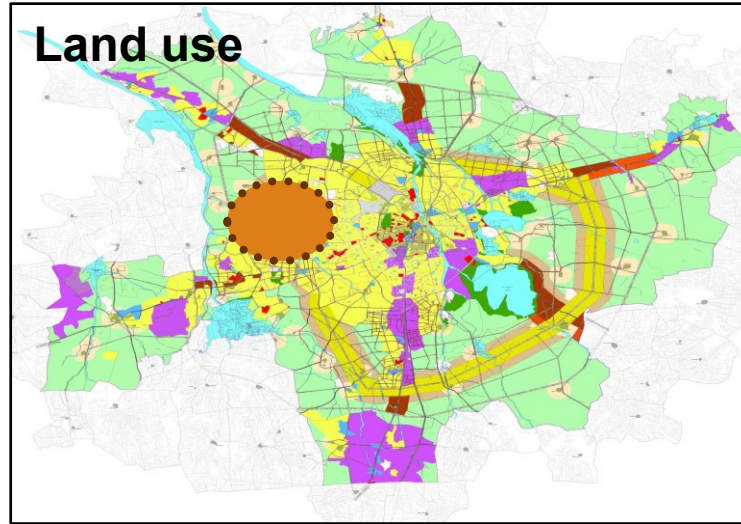
ADVANTAGE BRTS CENTRAL DISTRICT (ABCD)



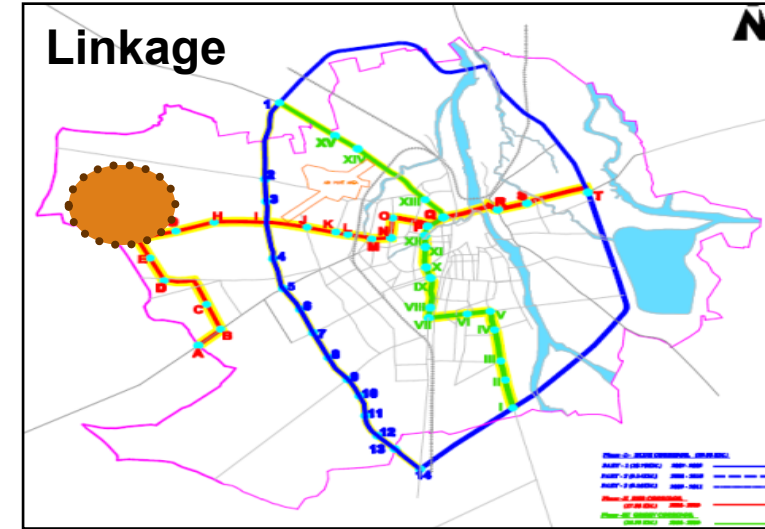
Location



Land use



Linkage



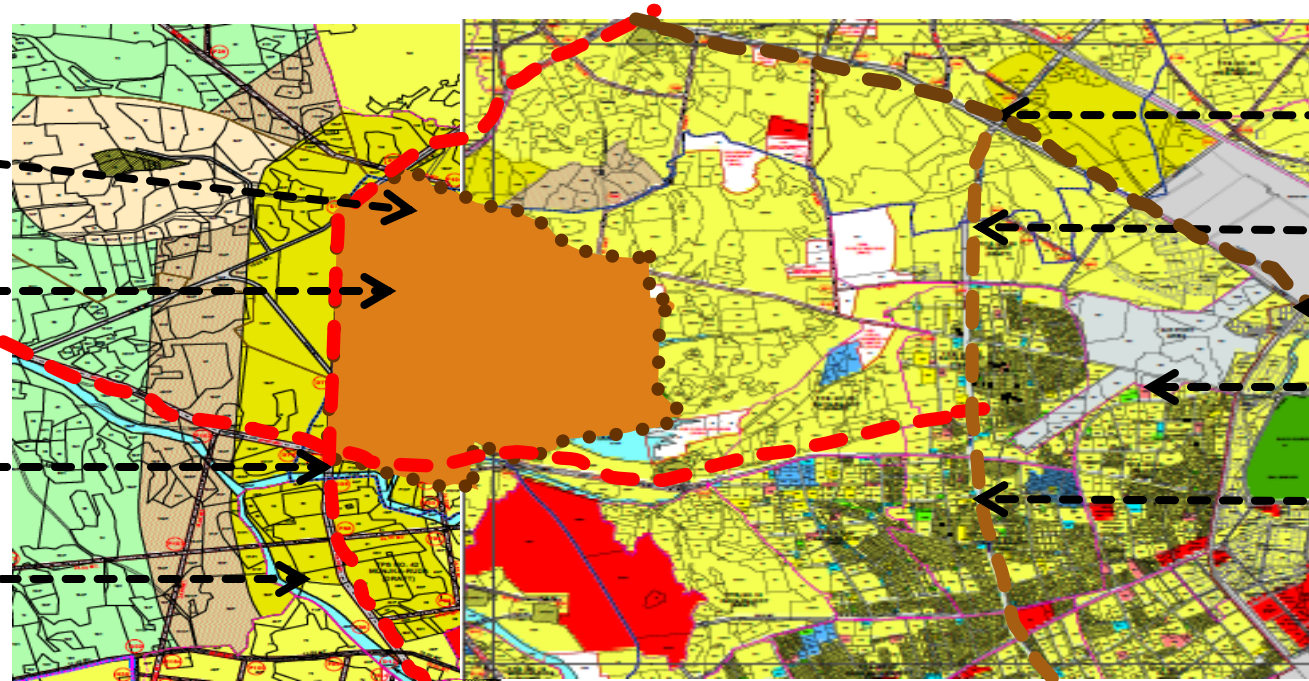
Site area – 930 acres
Land jurisdiction RMC

3 existing water bodies

Proposed Land use – Smart City Node - (TOZ)

Raiya road in south
45 m proposed ring road -2 abutting on west

Proposed abutting land use - TOZ



Madhapar circle – last stop of existing BRTS

Existing BRTS Route

Jamnagar road

Airport

Ring road 1

Positioning of ABD proposal vis-à-vis city's wider growth plan – PROPOSAL IMPACT



Racecourse Decongestion



Site located in ToZ as per proposed DP

Aji river development plan

Legend

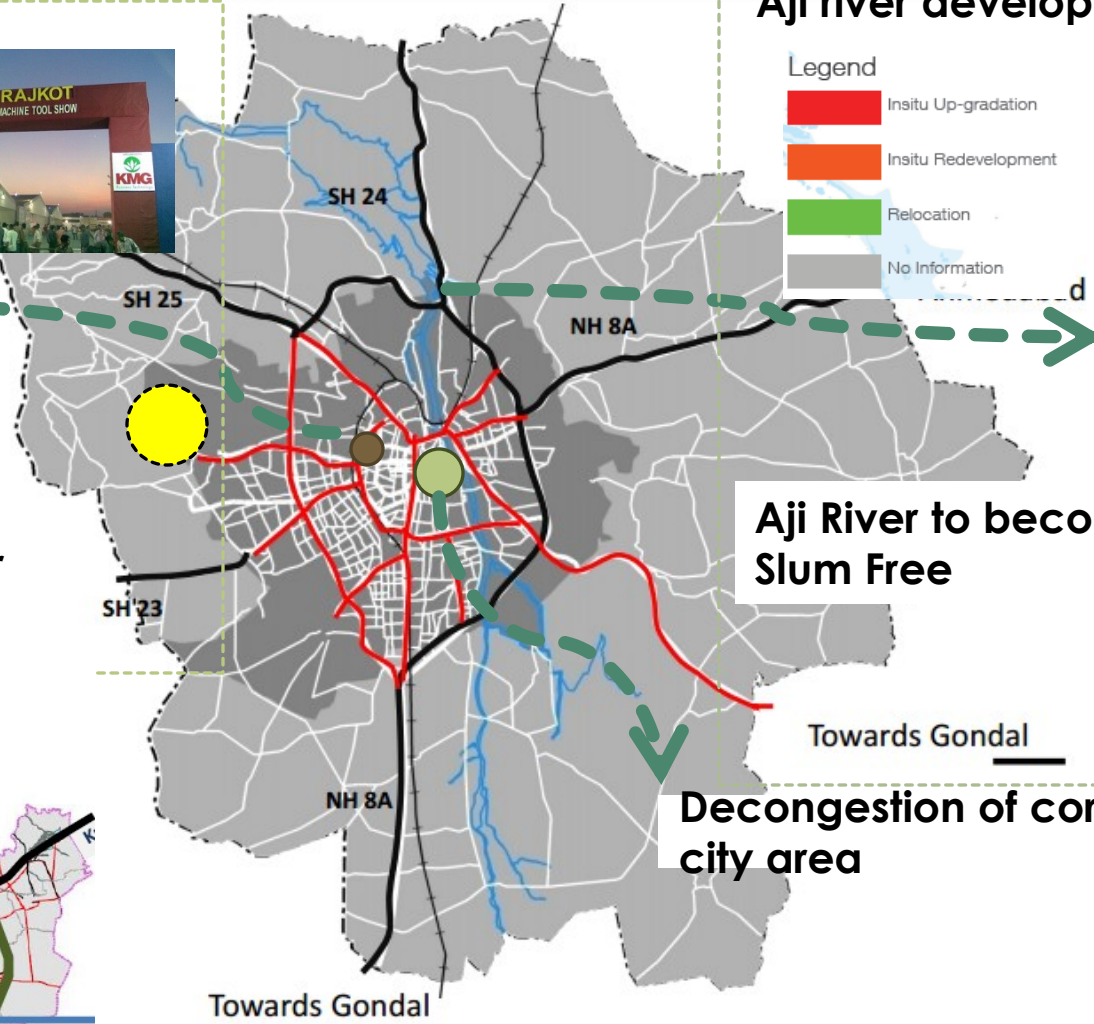
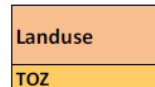
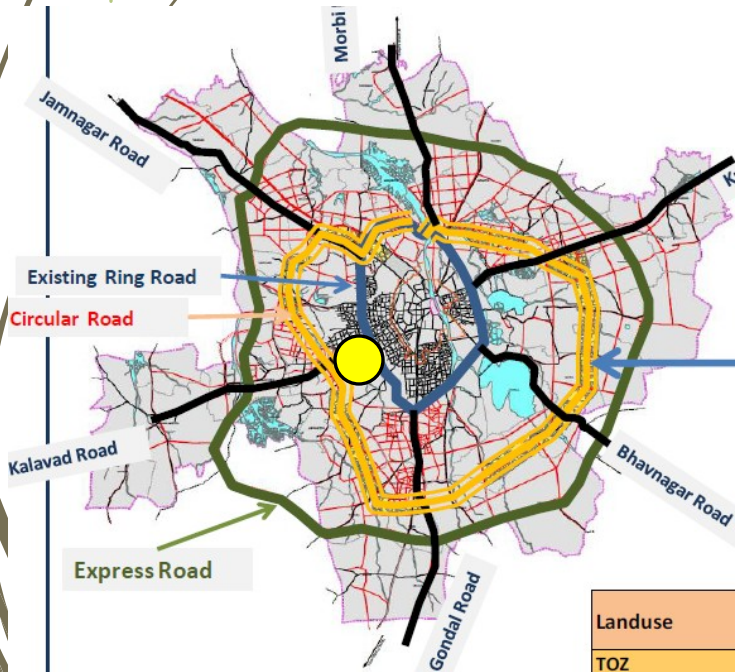
- Insitu Up-gradation
- Insitu Redevelopment
- Relocation
- No Information



Aji River to become Slum Free

Decongestion of core city area

Transit Oriented Development with the Advantage of BRTS



Towards Gondal

Towards Gondal

INITIATIVES MAPPING IN LINE OF VISION & GOALS



GOALS

Continuous & assured 24x7 water supply

Safe & Secure Rajkot

Solve the mobility challenge

Swachh & beautiful Rajkot

Energy efficient city

Affordable Housing

Inclusive City

World Class Tourism Centre

Sports destination Rajkot.

Trade & Business centre.

KEY COMPONENTS

AREA BASED DEVELOPMENT

1. Economy & employment
2. Smart & Robust Infrastructure
3. Intelligent Traffic & Integrated Transport Management
4. Safety & Security for all
5. Housing and Social Inclusiveness
6. Iconic Development
7. Technology for All
8. Environmental Sustainability

PAN CITY

1. INTELLIGENT TRAFFIC AND INTEGRATED TRANSPORT
2. **DIGITAL RAJKOT**
 - Smart Governance
 - Smart Water and Waste Management



ABCD INITIATIVES

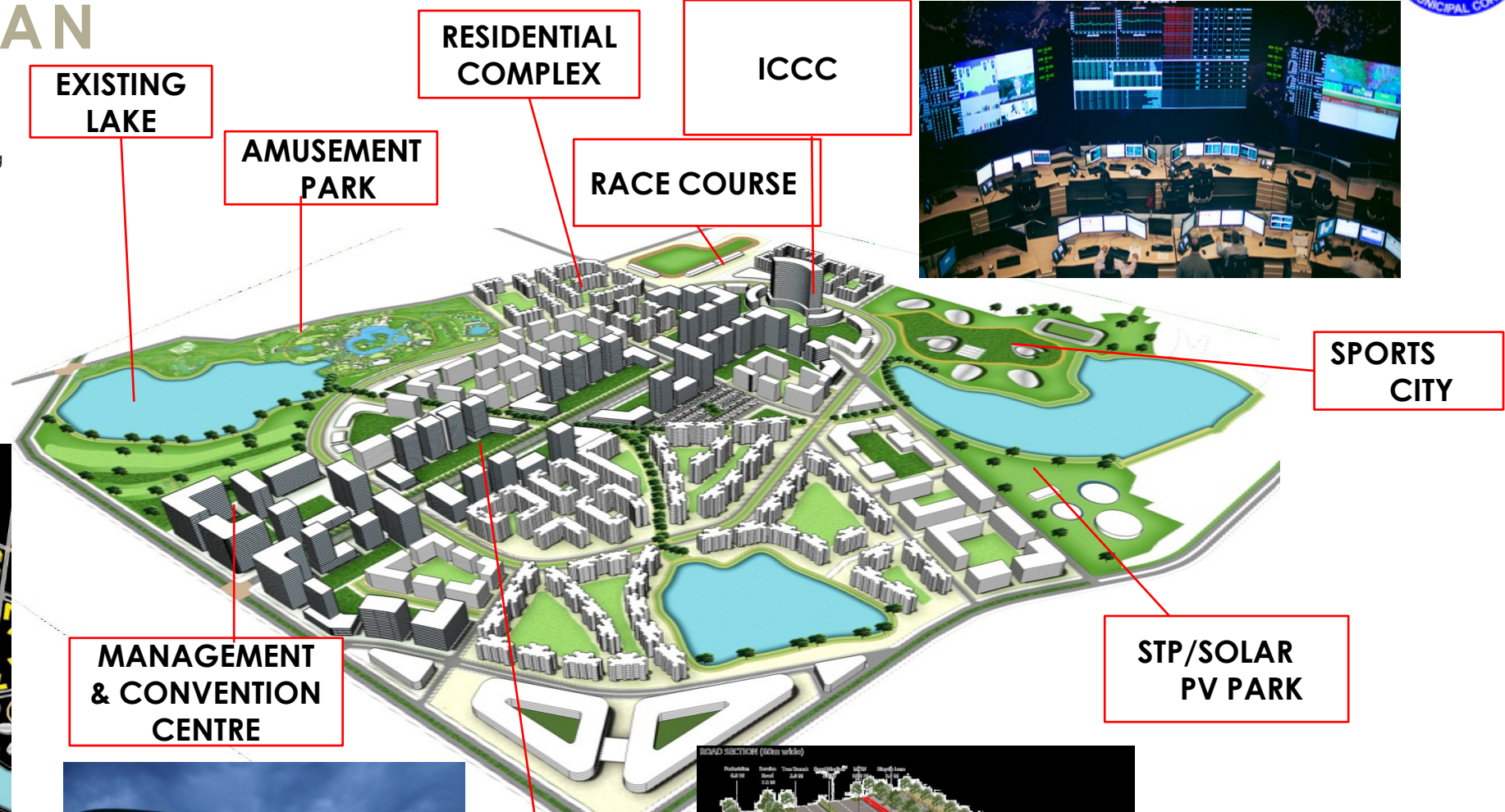
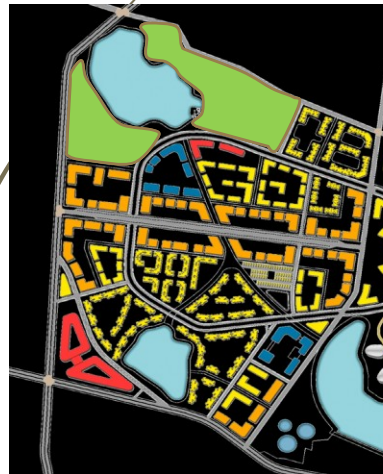
SMART LANDMARKS IN ABCD



ABD PLAN

Legends:

- Commercial building
- Residential building
- Public building (school, hospital etc.)
- Commercial building
- Recreational space
- Sports facility



EXISTING LAKE

RESIDENTIAL COMPLEX

ICCC

AMUSEMENT PARK

RACE COURSE

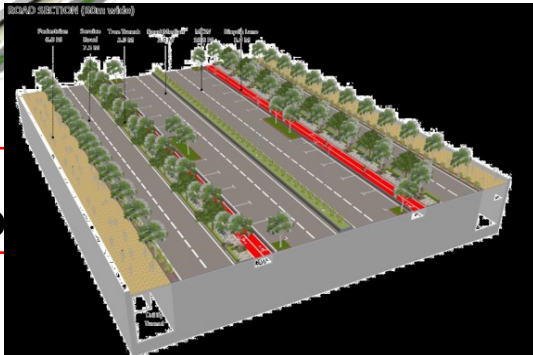
SPORTS CITY

MANAGEMENT & CONVENTION CENTRE

STP/SOLAR PV PARK



60 M BOULEVARD





ABCD INITIATIVE 1. ECONOMY AND EMPLOYMENT

5 PROJECTS

1. 40 000 sqm Management & Convention Centre
2. 30 000 sqm Exhibition Centre
3. 10000 sqm incubation centre
4. 5000 sqm skill Development centre
5. Smart Hawker's zone (Project Utthan)

Outcome

- Increased business opportunities & employment
- Skill development will provide 12000 employment annually.



ABCD INITIATIVE 2. SMART & ROBUST INFRASTRUCTURE



7 PROJECTS :

1. Smart Electricity:

- Smart Grid distribution with redundant power supply
- Underground cable connectivity

2. Water Supply:

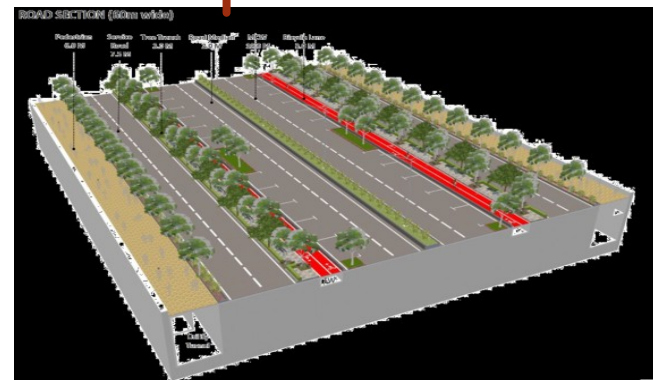
- 24x7 water supply
- Scada & Smart meter

3. Waste Water:

- Dual Plumbing system
- 25 MLD Tertiary treatment
- Reuse of treated water

4. Storm Water Drainage:

- Collection network
- Level sensor at lakes with flood alert



Central boulevard

5. SWM & Sanitation:

- Smart bins
- 5 TPD waste to energy & OWC
- 50 e - public toilets

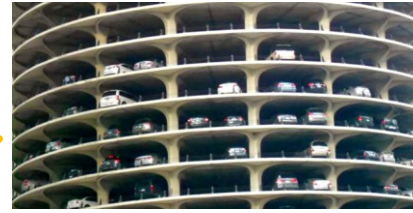
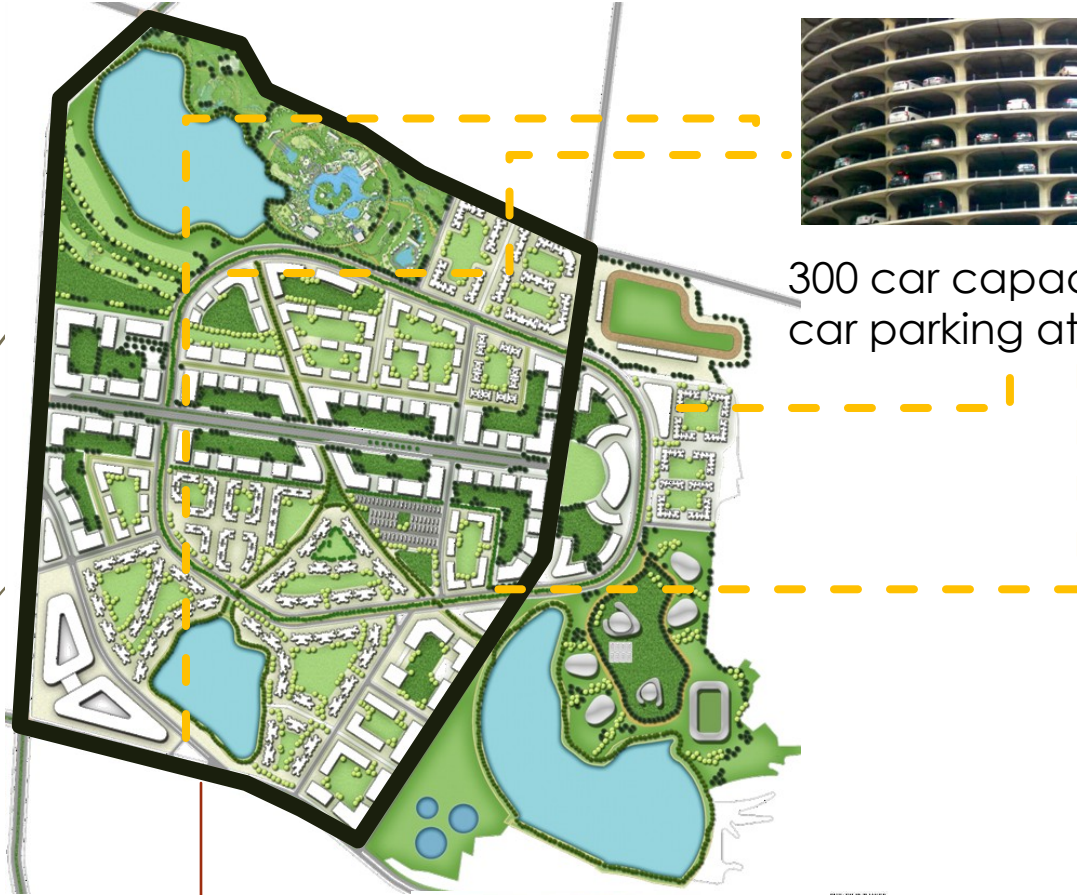
6. Road:

- 19.5 km road network (30 to 60 mt. wide) including 8.5 km BRTS
- All roads have exclusive cycle track & pedestrian path
- 5 km. exclusive green way connecting lakes

7. Other infrastructure:

- Utility duct for services
- Wi fi for all
- Smart LED Street light
- Environment monitoring station

ABCD INITIATIVE 3. INTELLIGENT TRAFFIC & INTEGRATED TRANSPORT MANAGEMENT



300 car capacity Multi level car parking at 5 locations



39 Km Cycle track along major road



16 nos BRTS bus shelters



8 nos cycle parking stand

ABCD INITIATIVE 4. SAFETY & SECURITY FOR ALL

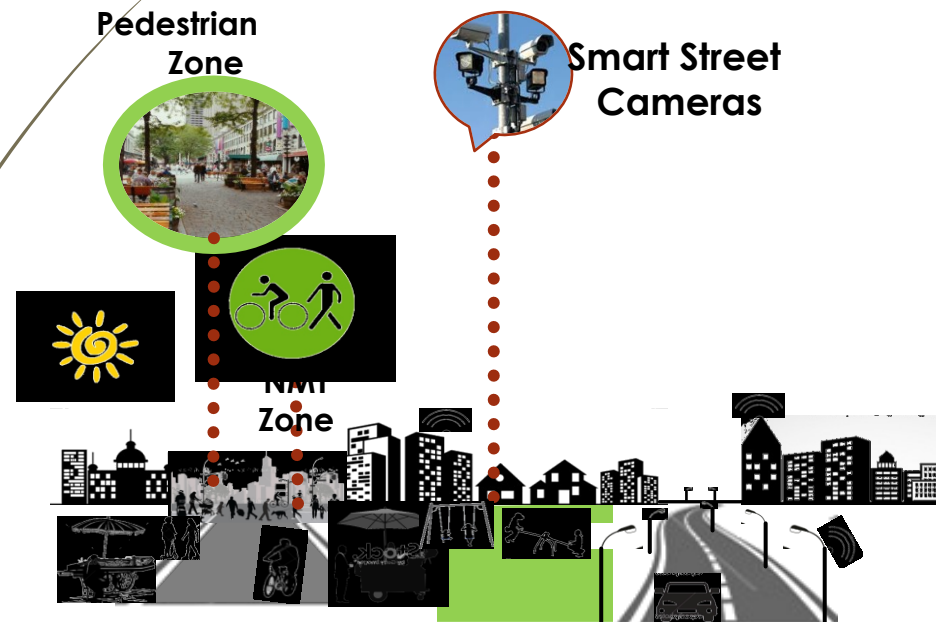


7 PROJECTS :

1. Smart CCTV surveillance
2. Veerangana Express exclusively for women & children
3. Help Line Centre
4. Model Fire Station
5. Exclusive Green way and pedestrian path ways
6. Foot Over bridge with provision of escalator and lift for Divyang and Senior Citizens.
7. Nirbhaya Centre for Women



Veerangana Exp: Vehicles with Women staff



F.O.B with facilities like ramp and lift for divyang and senior citizen

ABCD INITIATIVE 5. HOUSING AND SOCIAL INCLUSION



7 PROJECTS :

- 1. Affordable housing:** 3500 nos LIG units and 1500 nos EWS units as affordable housing which is 16% of total housing units. Ground floor units reserved for divyang and families with senior citizens only.
- 2. Project Shaishav :** 5 nos model Anganwadi for Economical weaker sections.
- 3. E-education:** 2 nos Smart schools
- 4. Health centre:** 2 nos NABH accredited health centre
- 5. Smart e library**
- 6. Community Centre**
- 7. Citizen Connect Program**



Model Anganwadi



Smart School



Citizen Connect program

ABCD INITIATIVE 6. ICONIC DEVELOPEMENT



5 PROJECTS :

1. Rejuvenation of three lakes and amusement park.
2. Gram Haat & Cultural centre.
3. Sports Arena
4. Parks & gardens- 30 acres
5. Racecourse- 150 acres



Plaza Along Central Boulevard



Green Promenade With Cycle Track



Shopping Complex

Amusement Park



Race course

Parks exclusively for senior citizens



Sports arena

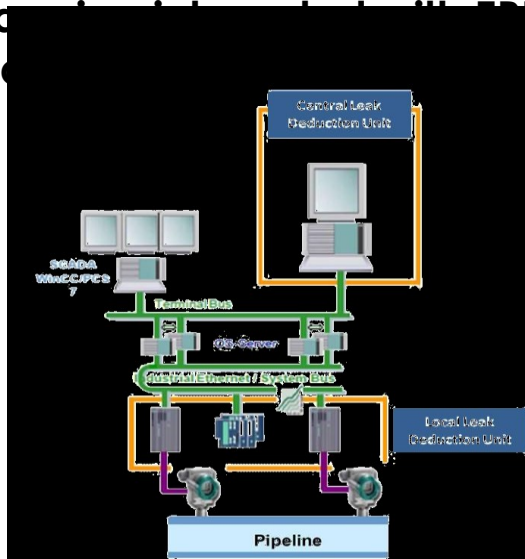


ABCD INITIATIVE 7. TECHNOLOGY FOR ALL

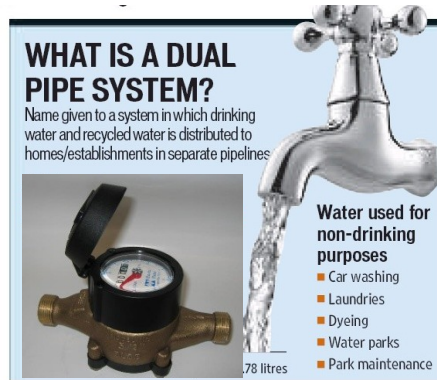


5 PROJECTS :

- 1. Water Supply :** Smart Consumer meters, SCADA, leak detection >> NRW~10%
- 2. Power:** Smart Consumer meters.
- 3. High Speed Wifi**
- 4. GIS mapping software for water supply & ERP SOFTWARE**
- 5. Inform**

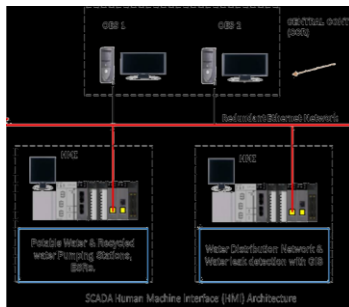


Active Leakage Control



Bulk Meter

SMART WATER SUPPLY



SCADA



High Speed WIFI



Information Kiosk

ABCD INITIATIVE 8. ENVIRONMENTAL SUSTAINABILITY



3 PROJECTS :

- 1. Solar Project :** 2 MW solar park, 38 km long cycle track with solar roof top, Mandatory solar roof top for all houses.
- 2. Rain Water harvesting:** Percolation pit in public places
- 3. All building will be green building :** Dual plumbing, roof top solar for 10% power generation, rain water harvesting in all buildings.



Solar roof top - 38 km cycle track



2MW capacity solar park



100 % buildings with Green Building certification

FINANCIAL PLAN FOR ABD



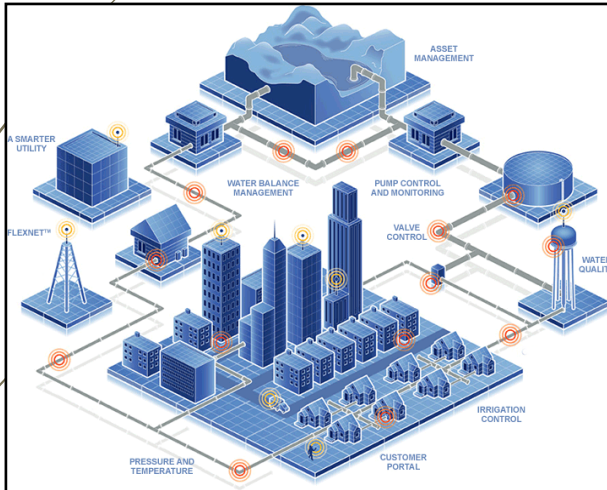
Sr.No.	Key Components	Amount (INR Cr)
1	Economy and employment	231.50
2	Smart and Robust Infrastructure	438.84
3	Intelligent Traffic & Integrated Transport Management	143.60
4	Safety and security for All	25.00
5	Housing and Social Inclusive	575.84
6	Iconic Development	510.78
7	Technology for all	58.00
8	Environmental Sustainability	32.90
	Sub Total	2016.46
	PMC/DPR Cost @ 5%	101.00
	<u>Contingency@ 3%</u>	60.00
	Total-ABD cost	2177.46

PAN CITY – OPTIONS FOR POLL

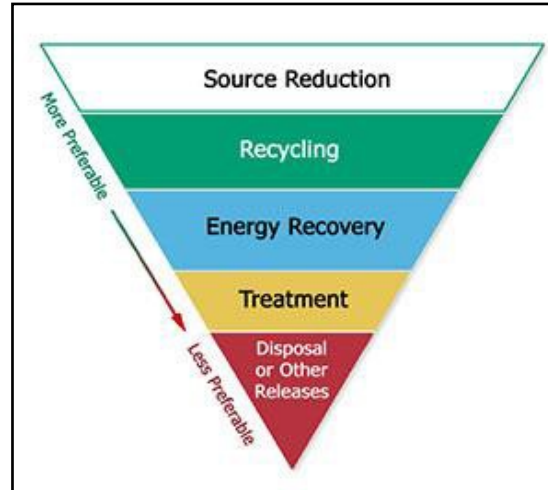


Pan City Smart Solutions - Five areas and options identified; followed by prioritization of focused area and 15 different solutions based on Intensive and Extensive Consultation process

1. Water and Wastewater



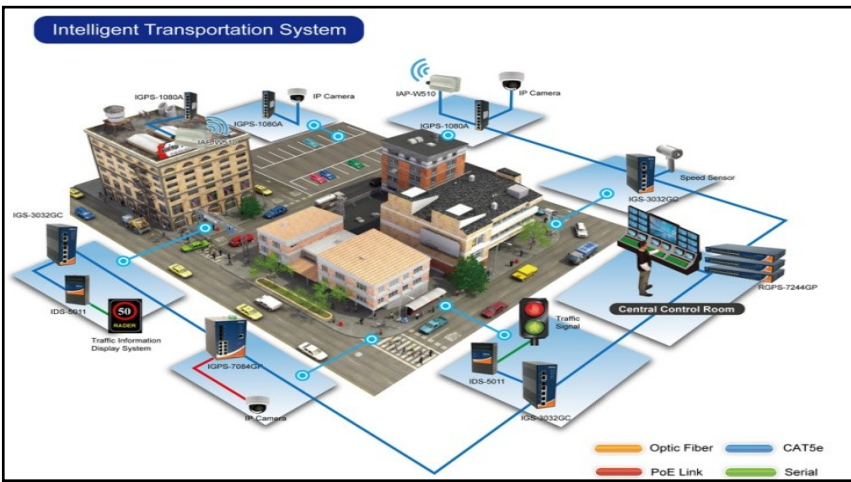
2. Solid waste Mgmt



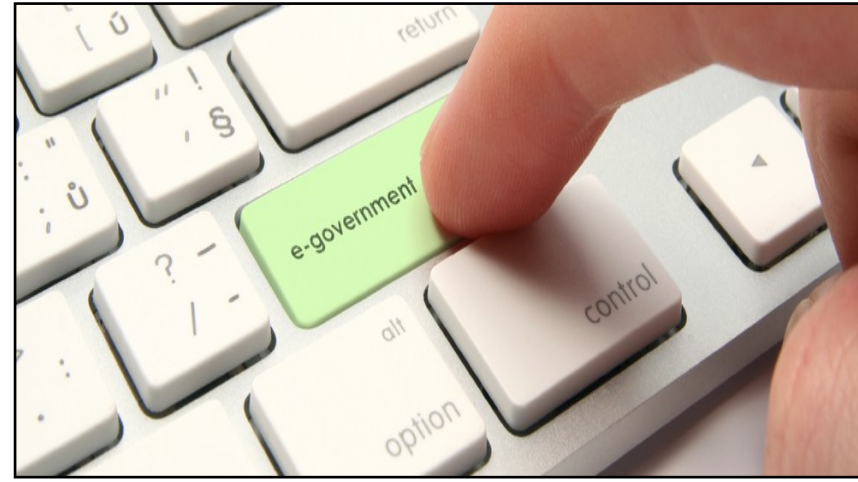
3. Environment & energy



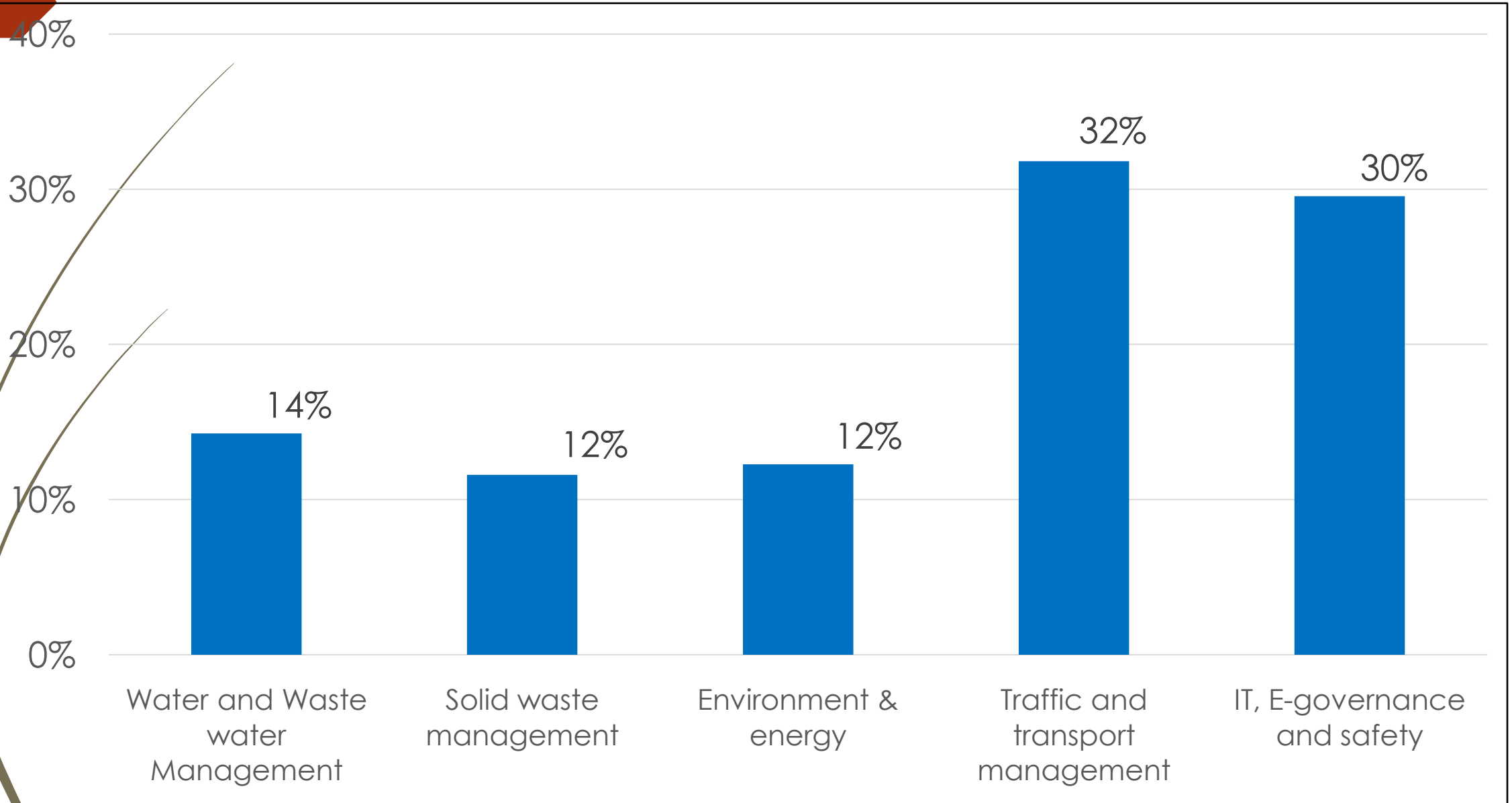
4. Intelligent Traffic & Transportation Mgmt



5. IT, E-governance & Safety



PAN CITY - CITIZEN POLL RESULTS





PAN CITY INITIATIVES



PAN CITY INITIATIVES

INITIATIVE 1 - INTELLIGENT TRAFFIC & INTEGRATED TRANSPORT MANAGEMENT



1. Multi-modal transport integration for BRTS, RMTS & Rickshaws 2. Passenger Information System (PIS) at bus-stops & In-bus information system, mobile app & portal for real time information 3. Smart parking solution 4. CCTV surveillance and Integration of buses with GPS, GIS & ICCV for fleet management & route-planning 5. Smart card for payment.



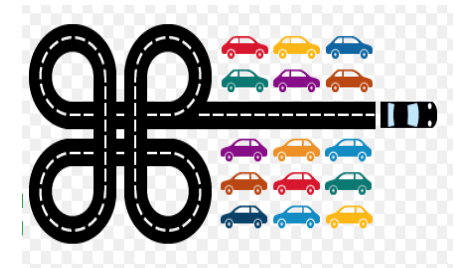
Smart Urban Mobility
using ICT



ICT solution for Non-motorized Transport

1. Smart bicycle storage with auto dock and dispatch system 2. Intelligent pedestrian crossing system.

INTELLIGENT TRAFFIC AND INTEGRATED TRANSPORT

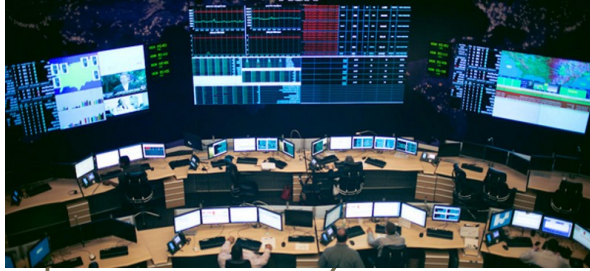


Intelligent Traffic Management

1. CCTV Surveillance, AUTO CHALLAN for traffic violators & E-CHALLAN for transparency 2. ANPR & RLVD system 3. Solar Wireless traffic controller- adaptive traffic signals, and Solar blinkers.

PAN CITY INITIATIVES

INITIATIVE 2 – DIGITAL RAJKOT



Business Portal

city portal
EVERYTHING ABOUT OUR CITY

ERP
ENTERPRISE RESOURCE PLANNING



wifi

2.1 - SMART GOVERNANCE

1. Integrated command and control centre (ICCC)
2. CCTV SURVEILLANCE
3. RMC ERP
4. CITY DASHBOARD
5. GIS SOLUTION
6. ONLINE SERVICE DELIVERY
7. RAJKOT BUSINESS PORTAL
8. DIGITAL DISPLAY
9. PUBLIC ANNOUNCEMENT SYSTEM
10. AIR QUALITY MONITORING SYSTEM
11. City Wi-Fi
12. LED Monitoring through CCMS

PAN CITY INITIATIVES



INITIATIVE 2 – DIGITAL RAJKOT

2.2 - SMART WATER AND WASTE MANAGEMENT



1. Integrated SCADA systems for water distribution network & WTP
2. Smart meters at HH level with centralized monitoring
3. Efficient billing collection solution
4. Leak identification system to reduce internal water leakage.
5. Integrated SCADA systems for Sewage management, integration of Sewage management system & Solid waste trucks with GPS, GIS and ICCC.
6. GPS, GIS and ICCC integrated Smart Bins

PAN CITY INITIATIVES- COMPONENT WISE FINANCIAL PLAN

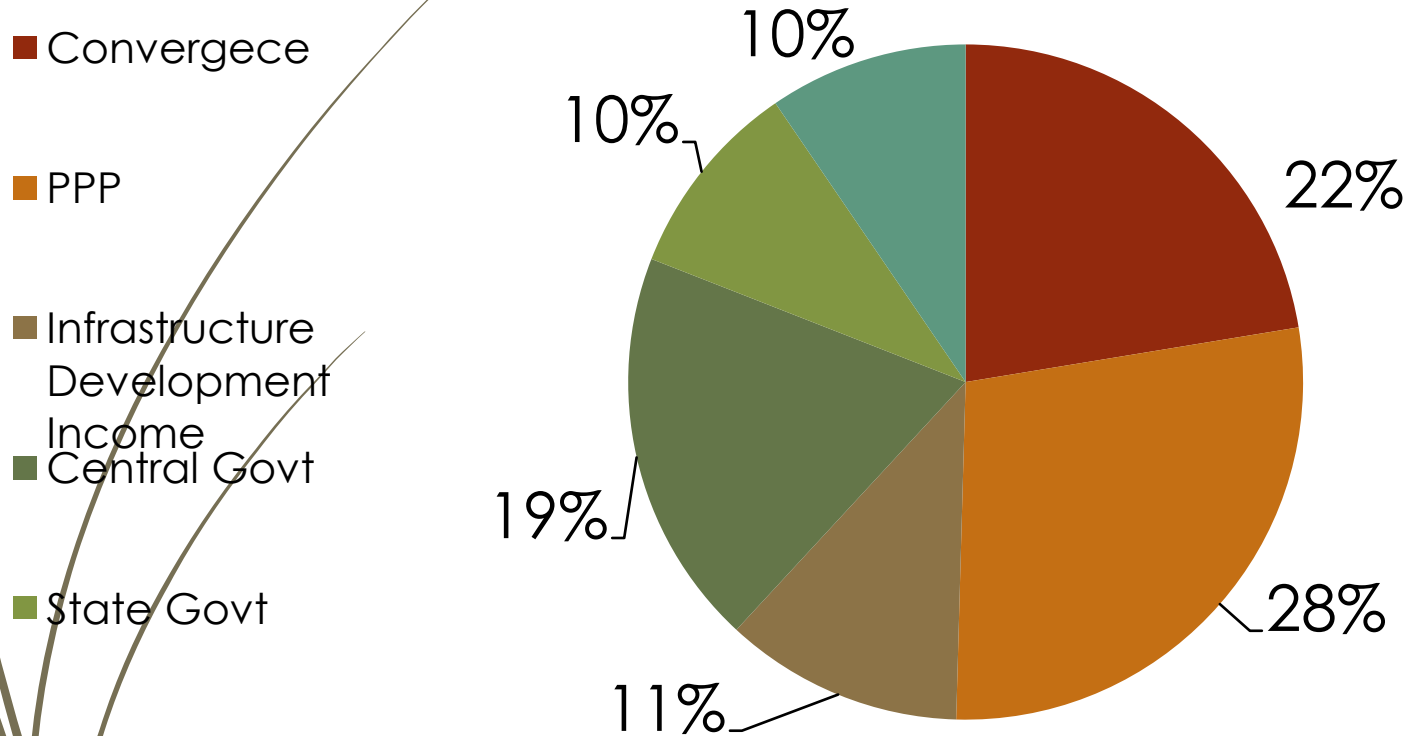


INITIATIVE	SUB COMPONENTS	Amount (Cr)
INTELLIGENT TRAFFIC & INTEGRATED TRANSPORT		
	SMART URBAN MOBILITY USING	82.5
	INTELLIGENT TRAFFIC MANAGEMENT	31.5
	ICT SOLUTION FOR NON MOTORIZED TRANSPORT	9.2
DIGITAL RAJKOT		
	SMART GOVERNANCE	
	-INTEGRATED COMMAND & CONTROL CENTER (ICCC)	
	- CCTV SURVEILLANCE	
	- RMC ERP	
	- CITY DASHBOARD	
	- GIS SOLUTION	
	- ONLINE SERVICE DELIVERY	
	- RAJKOT BUSINESS PORTAL	
	- DIGITAL DISPLAY	
- PUBLIC ANNOUNCEMENT SYSTEM		
- ENVIRONMENT MONITORING SYSTEM		
- City Wi-Fi	144.5	
	SMART WATER AND WASTE MANAGEMENT	144.8
3% CONTINGENCY		12.3
5% DPR /PMC COST		20.5
	Total	445.5

OVERALL FINANCIAL PLAN AND CONVERGENCE



Total Project COST- SCP : INR 2623.01 cr.
 Area based Development (ABD) : INR 2177.46 cr.
 Pan City Initiatives : INR 445.55 cr.



Funding Sources	
Convergence	587.47
PPP	735.54
Infrastructure Development Income	300.00
Central Govt	500.00
State Govt	250.00
ULB	250.00
Total fund	2623.01

Details of Convergence

AMRUT	SASGUJ	ADB	SJMMSVY	Digital india	PMAY	IPDS	PGVCL	SBM	14th Finance comm.	Sports Autho. Guj	GEDA	GOG	Total
55.11	10.00	48.64	212.00	14.00	48.60	25.00	62.00	18.00	10.00	40.00	9.12	35.00	587.47

CHECKLIST



Sr. No.	Details	Status
1	Resolution of the Corporation/ Council approving Smart City Plan including financial Plan	Smart City Plan approved, Financial Plan approval in progress.
2	Resolution of the Corporation/ Council for setting up Special Purpose Vehicle	Completed
3	Agreements/s with Para-Statal Bodies, Boards existing in the city for implementing full scope of the SCP and sustaining the pan-city and the area-based developments	Completed
4	Preliminary Human Resource Plan or SPV	Completed
5	Institutional arrangement for the operationalization of the SPV.	Completed
6	If any other SPV operation in the City, the institutional arrangement with the existing SPV	MOUs in place with RRL and RSPF.
7	Additional documents/s as appropriate	Notification completed for Smart city node in DP 2031.



THANK YOU

HUDCO Design Award 2016



ऊषा प्रसाद महावीर

महा प्रबंधक (डिजाइन तथा विकास/शहरी एवं क्षेत्रीय नियोजन)

Usha Prasad Mahavir

General Manager (Design & Development / Urban & Regional Planning)

हाउसिंग एंड अर्बन डेवलपमेंट कॉर्पोरेशन लिमिटेड
(भारत सरकार का उपक्रम)

आई.एस.ओ. 9001 : 2008 प्रमाणित कम्पनी

कोर- 7ए, हडको भवन, भारत पर्यावास केन्द्र,
लोधी रोड, नई दिल्ली-110 03

दूरभाष : 011-24627094 फैक्स : 011-24627094

ईमेल : ushapmahavir@hudco.org Visit us at : www.hudco.org

सीआईएन : U74899DL1970GOI005276

Housing and Urban Development Corporation Limited
(A Government of India Enterprise)

AN ISO 9001:2008 CERTIFIED COMPANY

Core - 7A, HUDCO Bhawan, India Habitat Centre,
Lodhi Road, New Delhi-110 003

Tel.: 011- 24627094 Fax : 011-24627094

Email : ushapmahavir@hudco.org Visit us at : www.hudco.org

CIN : U74899DL1970GOI005276

No.H/DD/Winners_HDA 2016 /2017

10
09.02.2017
By Speed Post

The Commissioner
Rajkot Municipal Corporation
Krushnanagar Civil Centre
Rajnagar Chowk,
Rajkot - 360004
Gujarat

Sub: Announcing the winners of HUDCO Design Awards 2016

Dear Sir,

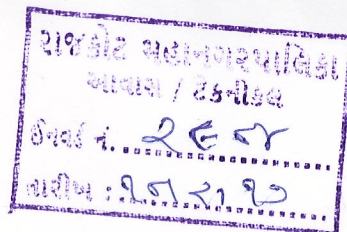
It is a pleasure to inform you that the entry titled **Affordable Housing for EWS, Rajkot, Gujarat** jointly submitted by Municipal Corporation, Rajkot and Architect Parag Udani has been selected for the **First Prize** by the Jury under the category **Cost Effective Rural/Urban Housing Including Innovative / Emerging and Disaster Resistant Housing** of HUDCO DESIGN AWARDS 2016. We convey our heartiest congratulations to you for winning the First Prize. The categorywise, complete list of winners of HUDCO Design Awards 2016 is available at HUDCO website: www.hudco.org.

We request you to confirm the exact name to be printed on cheque for payment of the award money as well as name(s) to be printed on the Trophy and Certificate by email at designawards@hudco.org or hudco.design.award@gmail.com. The awards will be given on HUDCO Annual Day function during last week of April 2017. Further details regarding the same will be communicated to you shortly.

Thanking you,

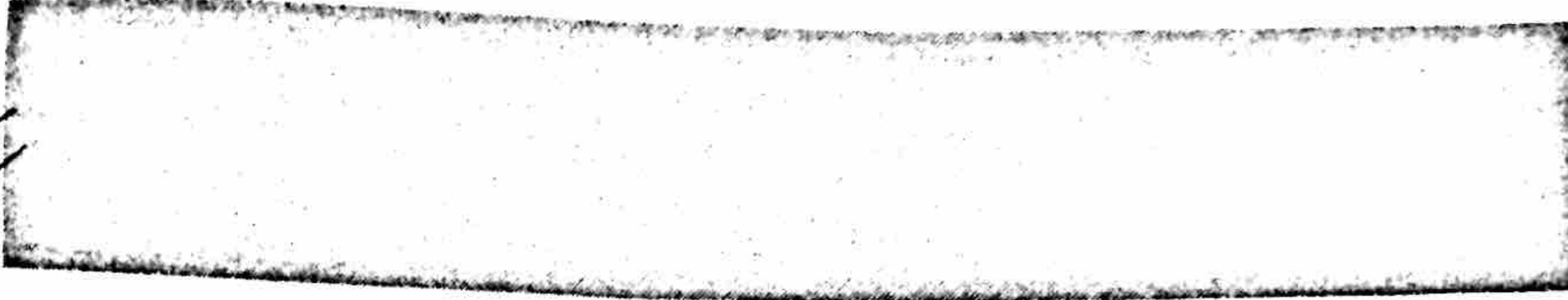
Yours sincerely,


Usha P Mahavir



Ashishok
18/2/17

Best Urban Transport Award



R K Singh
Director (UT)
Tel. 23062798
Fax 23063304

भारत सरकार
शहरी विकास पंचालय
निर्माण भवन
GOVERNMENT OF INDIA
MINISTRY OF URBAN DEVELOPMENT
NIRMAN BHAWAN
नई दिल्ली - 110011, नारायण 20
New Delhi-110011, Dated the 20

D O. No. K-14011/32/2016- UT IV
Dated : 1st November, 2016.

Subject:- UMI Awards – Best Practice Projects in Urban Transport

Dear Shri Y. K. Goswami

I have the pleasure to inform you that based on the recommendations of the Awards Selection Committee, the Hon'ble Minister of Urban Development has approved Special Award (commendable initiative) for your project "Rajkot City Bus Service" under the category of "Best City Bus Service Project". The Award shall be given by Hon'ble Minister of State for Urban Development, Government of India at the Valedictory Session (1300 – 1415 hrs) on 11th November, 2016 (the concluding day of UMI – 2016) at Gandhinagar, Gujarat. It would be appropriate if the award could be received by the concerned Minister of the State or the Head of the Department in person along with your team.

2 Kindly let us know in advance as to who all would attend the Award Ceremony through

- E-mail – awards@utindia.org
- Ms. Anindita Ghosh, 08373971537
- Ms. Baveena K.V. 08447335845

With regards,

Yours sincerely,


(R.K. Singh)

Shri Y. K. Goswami
General Manager,
Rajkot Municipal Corporation
Multi Activity Centre, Nanamara Chowk,
Opposite BRTS Station, 3rd Floor, 150 ft. Ring Road,
Rajkot – 360 001



**Building Efficiency
Accelerator (BEA) Workshop
for Rajkot Presentation**



**Building Efficiency
Accelerator**



**GLOBAL ENERGY EFFICIENCY
ACCELERATOR PLATFORM**

Building Efficiency Accelerator (BEA) Workshop for Rajkot

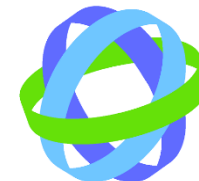
Work Plan Approval workshop– 16 March 2017

Bandish Patel, bandish.patel@iclei.org

Project Officer, Energy & Climate, ICLEI South Asia



WORLD
RESOURCES
INSTITUTE



WORLD
GREEN
BUILDING
COUNCIL



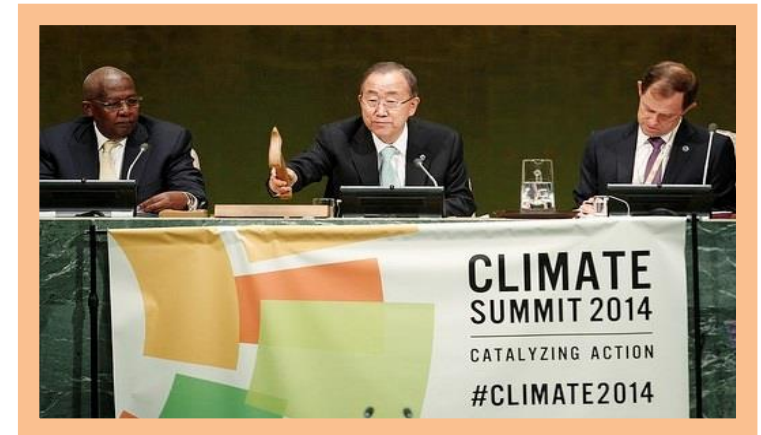
BEA – Project Background

UN Sustainable Energy for All

One Goal:

Achieving Sustainable Energy for All by 2030

Three Objectives:



 **ENSURING**
universal access
TO MODERN ENERGY SERVICES.

 **DOUBLING THE GLOBAL RATE OF IMPROVEMENT IN**
energy efficiency.

 **DOUBLING THE SHARE OF**
renewable energy
IN THE GLOBAL ENERGY MIX.

Energy Efficiency Accelerators

The Global Energy Efficiency Accelerator Platform was established to support specific sector-based energy efficiency accelerators

Lighting

Global market transformation to efficient lighting



Appliances & Equipment

Global market transformation to efficient appliances & equipment



Vehicle Fuel Efficiency

Improve the fuel economy capacity of the global car fleet



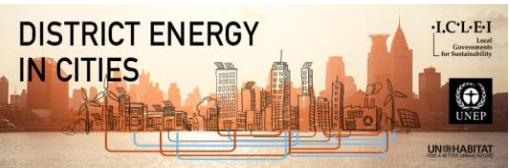
Buildings

Promote sustainable building policies & practices worldwide



District Energy

Support national & municipal governments to develop or scale-up district energy systems



Industry

Implementing Energy Management Systems, technologies & practices



Power Sector Accelerator is under development

Building Efficiency Accelerator (BEA)

partnership

Coordinating partner:



WORLD
RESOURCES
INSTITUTE

WRI ROSS CENTER FOR
SUSTAINABLE
CITIES

NGOs/Associations/Multilaterals:



WORLD
GREEN
BUILDING
COUNCIL



World Business Council for
Sustainable Development



Service Providers/Companies:

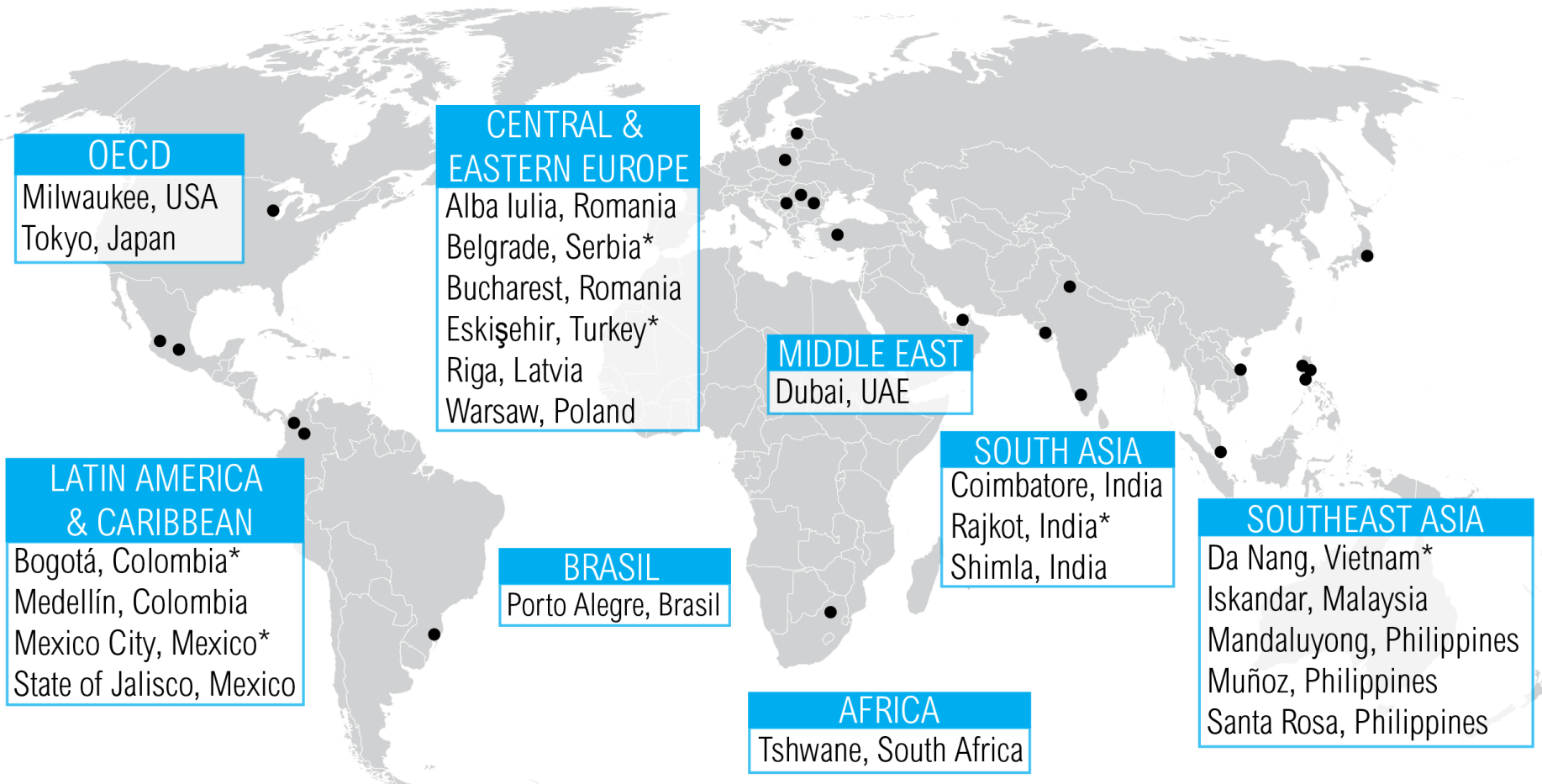


Building Efficiency Accelerator (BEA) partnership

Subnational Jurisdictions:



BEA Partner Jurisdictions



*City selected for "Deep Dive" engagement

What does the BEA provide?

**Local action
prioritization process**



Collaborative, multi-stakeholder assessments and workshops to define and prioritize policies and projects

**Tools, expertise and
solutions**



Technical support through trainings, tools. Access to network of subject matter experts and service providers.

Funding opportunities



Connect projects in need to financial partners who can provide funding to efficiency actions

**International
recognition and
collaboration**



Recognition of efficiency actions at international events. Knowledge sharing through a global network of peers.

BEA city engagement process- In

Rajkot

*Agreement
(April'16) & MOU
(June'16)*

*Kick-off
workshop
(Nov'16)*

*Work plan approval
(Mar'17)*

*Policy and project implementation
(Apr 2017+)*

Commitment

Assessment

Development

Implementation

Improvement

- **Partnership agreement** signed by city and Accelerator
- **Areas of interest** and activity agreed with city authorities

- High-level assessment, using available tools and data, to **identify locally-appropriate actions** to improve building efficiency.
- Access relevant best practice **technical solutions and expertise** through Accelerator network.

- Organization and facilitation of **multi-stakeholder engagement** focused on prioritizing actions in areas of interest.
- **Plan of action** for implementing prioritized energy efficiency policies, programs or projects
- Solicit **technical and financial assistance** from Accelerator partners.

- Policy/project **funded and staffed**
- Policy/project **implementation** initiated

- Establish building efficiency **performance baseline** and track improvements.
- Participate in peer-to-peer, **best practice sharing**.
- Develop **continuous improvement** approach to building efficiency and identify new actions.

BEA Work Plan for Rajkot City (Till Sept'17)

What are the actions selected?

Overarching commitment:

double the rate of building energy efficiency by 2030 in targeted sector within the jurisdiction

Implement one enabling **policy**

Public Policy

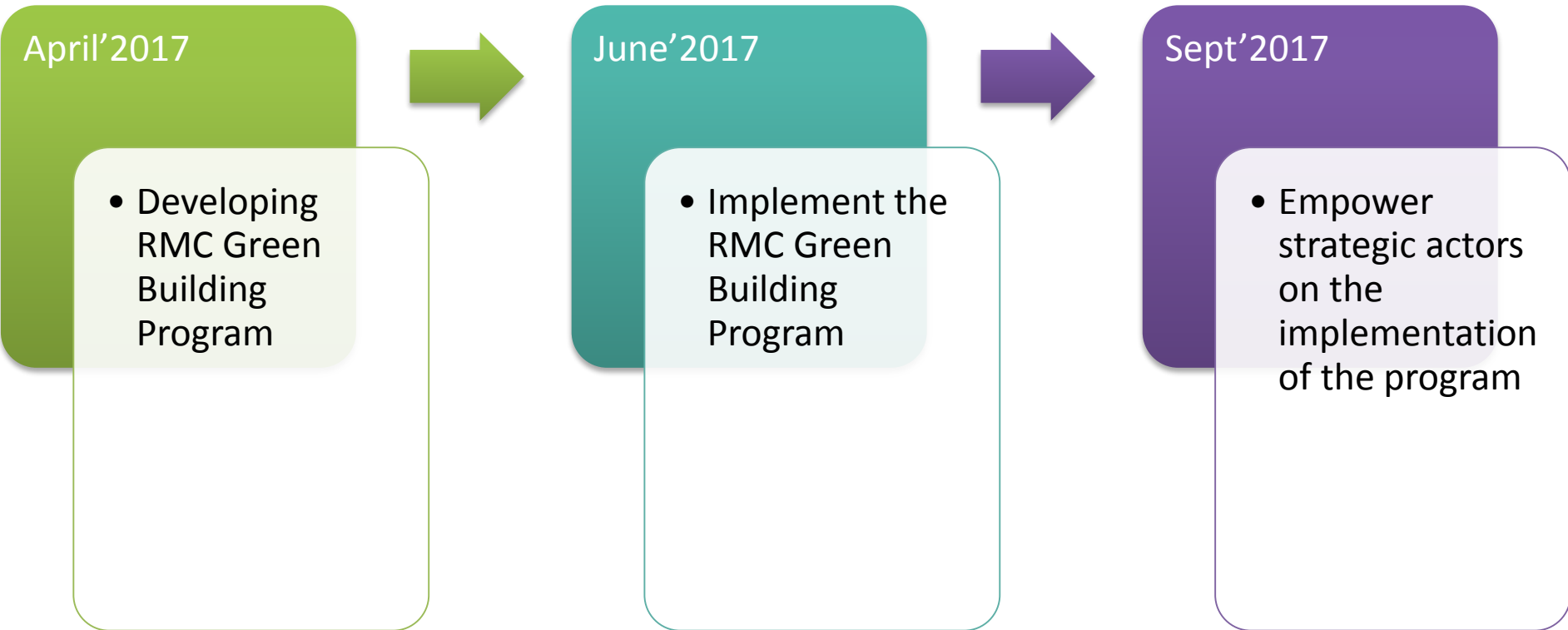
Implement one demonstration **project**

Retrofitting Project

Create a baseline, **track and report** annual progress, and **share experiences** with other governments

Tracking & communication

Public Policy – Goals & timeline



Retrofitting Project– Goals & timeline

April'2017

- Conduct feasibility study analysis of municipal building for green building potential



July'2017

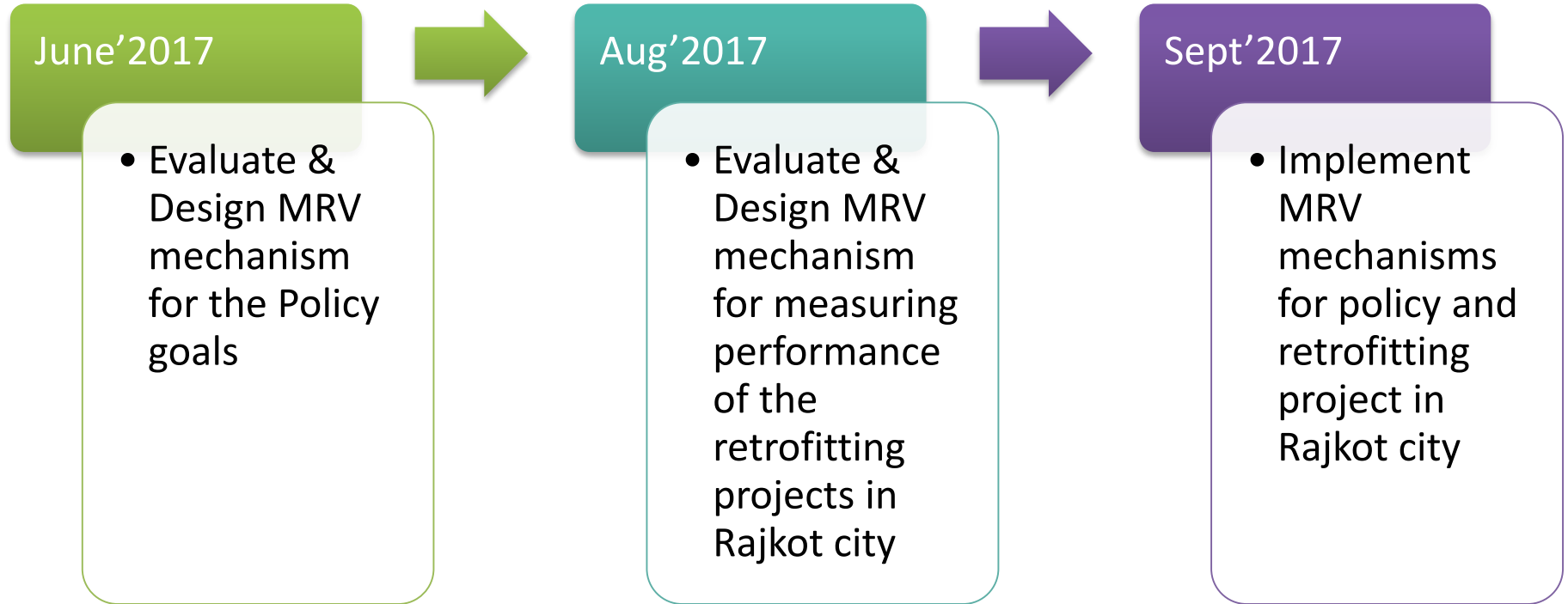
- Design strategies for increasing building efficiency



Sept'2017

- Awareness generation & capacity building through SMART Energy Lab.

Tracking progress – Goals & timeline



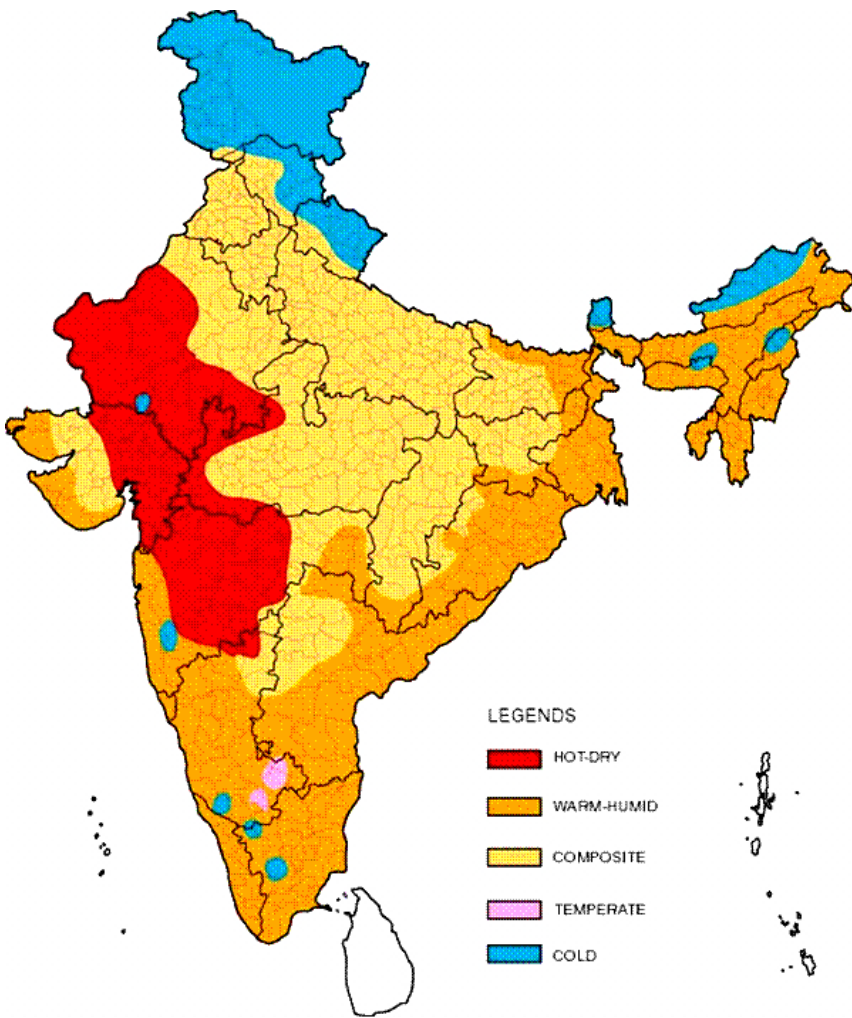
RMC Green Buildings Program

RMC Green Building Program

- Background
- Scope
- Rating system – to be developed
- Institutional structure – to be developed
- Certification process
- **Assessment Criteria**
- **Incentives**
- Way forward

Background

- Among the top **100 SMART cities**
- **6th fastest** growing urban area in India and the **22nd fastest** growing urban areas in the world.
“ (City Mayor’s World Congress)
- **20-25k new houses** are built annually
- **Increasing pressure on land** - Rajkot to be among the top 25 most densely populated cities by 2022 (Economic Times)
- **Leader** in climate change & sustainability initiatives
- Customized green building norms for Rajkot



- **High temperature** in summer and **cold in winter**
- Low humidity in summer and high in monsoons
- **High direct solar radiation** in all seasons except monsoons high diffused radiation
- Hot winds in summer, cold winds in winter and strong wind in monsoons
- Soil is made of hard rock, therefore **availability of ground water is limited**

Rajkot - Composite Climate

Scope

- All new Residential buildings
- Later extend to commercial, institutional & government sector
- Inclusion of traditional architectural methods & practices along with national & global best practices
- Assessment criteria will be divided into the seven broad categories
- Will include both mandatory & voluntary measures
- Detail document to provide- Anticipated Benefits, Strategies, Submittal requirements and examples for achieving each proposed measure

Institutional structure

- RMC Green Building Cell – within RMC
- Third party verification – independent experts, Education institutions
- MRV mechanism under BEA

Certification process

Town planning dept.

RMC Green Building Cell

Third party verification

Awarding of certificate

Site Planning



Locate the site close to basic amenities (1 km of housing) (Min 5 basic amenities)



Public transport



ATM / Bank



Clinic/ Hospital



School



Grocery store
/Supermarket



Pharmacy



Garden/public
park



Restaurant

Benefits Anticipated

- Discourage use of vehicles for common chores

Remove topsoil and preserve for reuse on site or send to RMC designated sites



Benefits Anticipated

- To preserve and reuse nutrient rich topsoil for landscaping

Prevent soil erosion during construction

Strategies



Sedimentation basin



Contour trenching



Mulching



Benefits Anticipated

- Prevent soil erosion by proper storm water management

Preserve existing site features



Existing vegetation on site (integrate large trees in development)



Existing topography/
contours

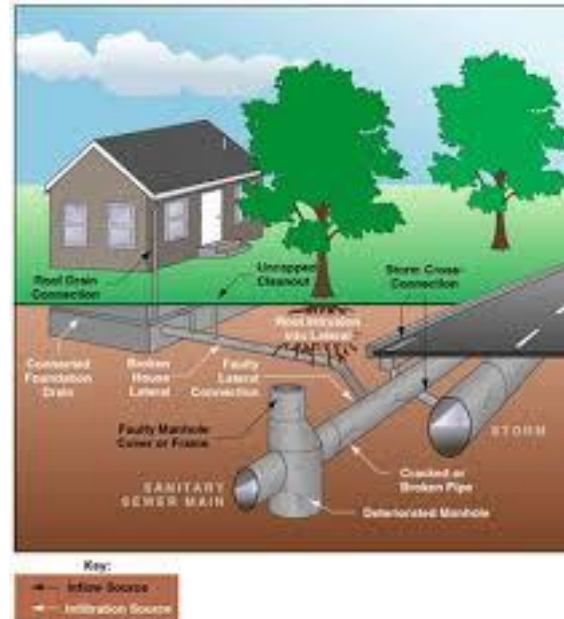


Existing water bodies

Benefits Anticipated

- To protect vegetation; carbon sequestration; reduce soil erosion
- To minimize site damage

Proposed drainage pattern of the site should not alter the existing drainage pattern



Benefits Anticipated

- To minimize erosion
- Design with minimum disruption of site
- Drainage following existing slopes/contours would minimize addition pumping cost

Reducing the 'heat island effect'

Strategies



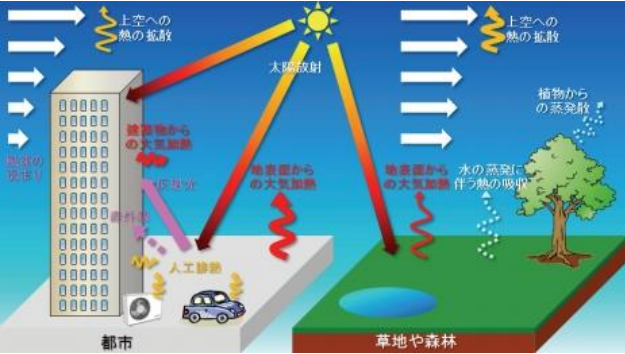
Provide shade on at least 40% of non-roof impervious surfaces on the site, including parking lots, walkways, plazas etc



Place a minimum of 50% of parking space underground or plan covered parking with a reflective roof



Use light coloured (Solar Reflectance index >0.5) for pavements, walkways etc



Benefits Anticipated

- To reduce micro climate temperature rise

Provide for green space (min. 10% of total built up area)



Benefits Anticipated

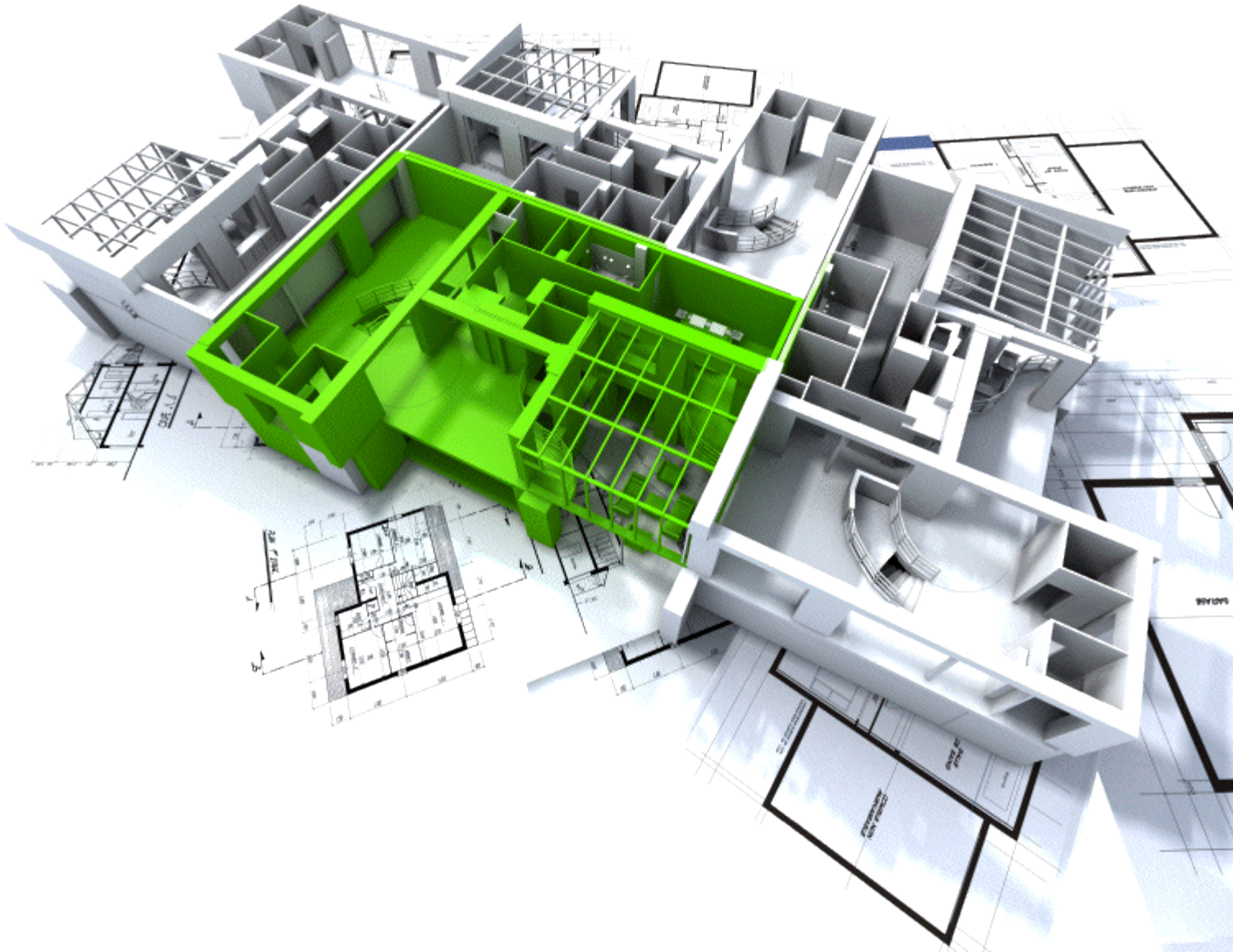
- Provides habitat for landscaping & vegetation
- Mitigation of heat island effect
- Increases storm water penetration

Compliance with Construction and Demolition (C&D) Waste Management Rules 2016 issued by MoEFCC



- segregate it into four categories— **concrete, soil, steel and wood, plastics, bricks and mortar**
- environment management plan and waste management plan

Architecture & Design



Adopt passive architectural design features

Climate-responsive concepts & design

- Proper Orientation of buildings
- Provide buffer spaces (staircases, lifts, store, toilets, double wall w/o opening) on at least 50% of west wall
- Window shading to be determined through solar path analysis
- Position windows of living area within 0–30deg of prevalent wind direction
- Total area of openings (inlet and outlet) should be a minimum of 30% of floor area

Benefits Anticipated

- To enable energy efficiency, thermal and visual comfort

Climate-responsive concepts & design

- Window shutter provided should be open able and not sliding
- Window shutter shall be partially glazed
- For cross ventilation, siphon effect can be provided through OTS portion acting as duct
- Possible orientation of bedroom should be towards N & S
- Provision of cavity wall on south side

Benefits Anticipated

- To enable energy efficiency, thermal and visual comfort

Climate-responsive concepts & design



Passive cooling/heating technologies like Wind towers, Earth tunnel, Geothermal technologies etc.



Min. 50% of regularly occupied spaces with day lighting

Benefits Anticipated

- To reduce micro climate temperature rise

Adopt vernacular architectural methods

- Our ancestors worshipped five elements of nature: **Prithvi as Earth, Agni as Fire, Jal as Water, Vayu as Air and Akash as Sky.**
- It indicates emphasis on the **optimum utilization and conservation of these resources.**
- **Renovation and the innovative use** of such materials and design techniques keep them relevant to the modern building standards

Benefits

- Recycled almost everything
- Use of local materials
- Buildings are well lit and ventilated
- Reduce dependence on expensive mechanical cooling and heating

Strategies may include (but not limited to) the following:-



Courtyards



Wind towers

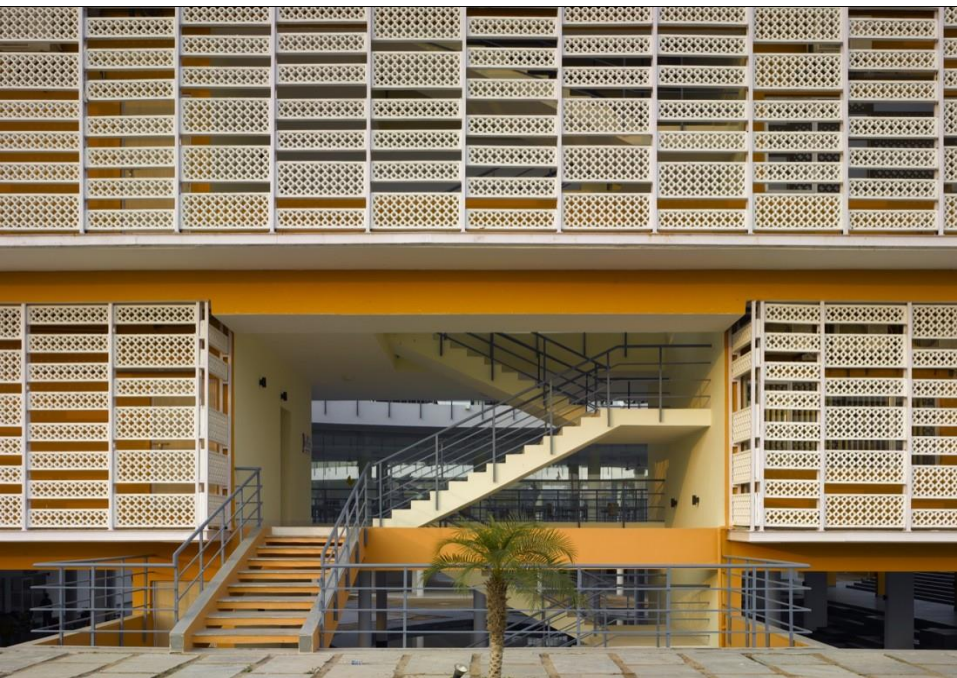


Jallis



Step well

Case study - Pearl Academy of Fashion, Jaipur, India



Jaali

- Thermal buffer between the building and the surroundings
- Serves the function of 3 filters- air, light, and privacy

Stepwell

- Fed by the recycled water helps in the creation of a microclimate through evaporative cooling
- Temperatures of about twenty degrees lower than the outside

Open-to-sky Courtyard

- Control the temperature of internal spaces
- Good ventilation & daylight



Green roof – 75% of the exposed roof area to be developed with High reflective material or vegetation or Solar PV



Benefits Anticipated

- To prevent roof heat gain
- Reduce ambient temperature in urban areas
- Reduced cooling load, electricity consumption
- Decreased GHG emissions

Improved accessibility for differently abled

Strategies



Preferred car park spaces



Braille and audio assistance



**Benefits
Anticipated**

- People with special needs can move freely and safely

Energy efficiency



On site Renewable Energy



Benefits Anticipated

- To reduce conventional energy demand
- Decreased GHG emissions

Occupancy sensors - Apply control devices to turn lights on and off for non essential lighting



Benefits Anticipated

- Energy efficiency

All electrical systems to meet minimum efficiency criteria as specified by ECBC



Benefits Anticipated

- Energy efficiency

Provide for solar water heating system



Benefits Anticipated

- To reduce conventional energy demand for water heating

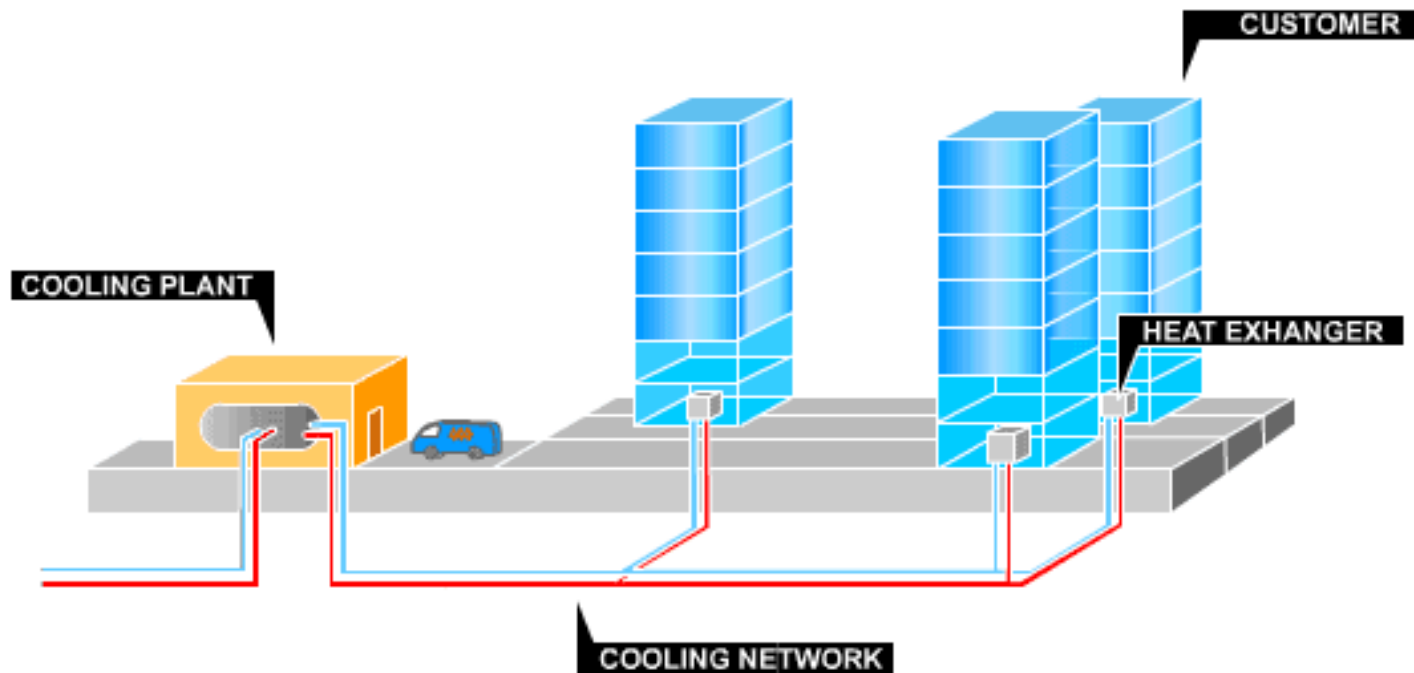
Use of LED lighting & fixture



Benefits Anticipated

- Energy efficiency

Provide for District cooling for large scale projects



Benefits Anticipated

- Energy efficiency

Water efficiency



All faucets and fixtures should be low flow to maintain flow rates not exceeding 8 lpm

SIMPLE AND EASY TO USE

Everything about the Integrated Profile™ system functions like a normal toilet suite with the only difference being the cistern is filled in a different way.



1 After the toilet suite is used, full or half flush buttons integrated into the spout design are used to flush the toilet. Water is discharged from the cistern to flush waste from the bowl.



2 At the same time the flush cycle is activated, fresh water enters the cistern separately via an inlet valve connected to the water supply.



3 Rather than fill the cistern tank, the inlet valve re-directs fresh water to the spout.



4 Water flows into the basin, allowing sufficient time for a thorough hand washing.



5 The water used for hand washing then flows from the basin into the cistern tank.



6 When the tank is filled to the required water level, the inlet valve closes and water flowing from the basin spout ceases.



7 Used hand washing water is stored in the cistern ready for next flush cycle activation.



Benefits Anticipated

- Minimise water use

Plant native/indigenous species with low water requirement



Benefits Anticipated

- Efficient water use for gardening

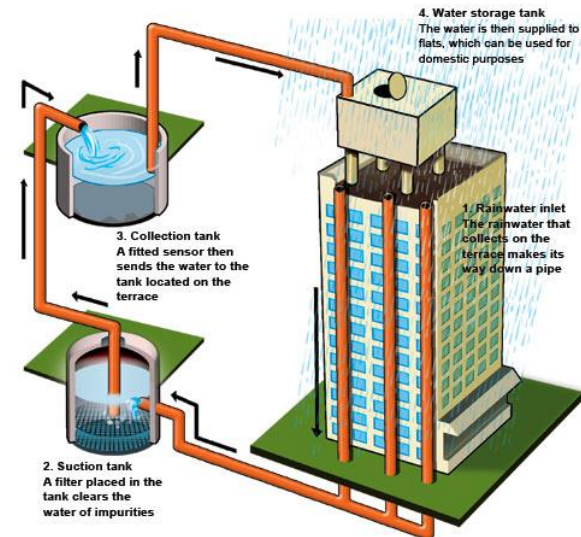
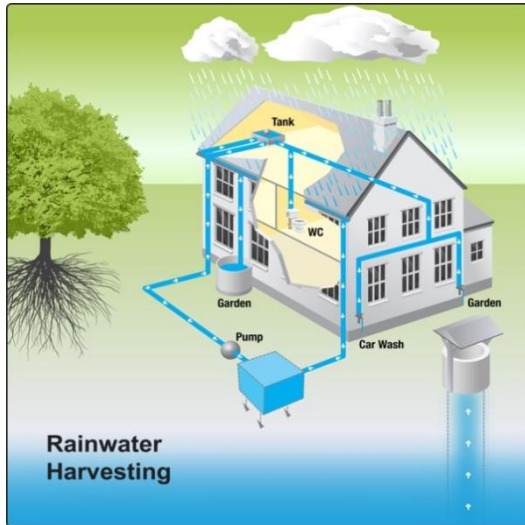
Use sprinklers to water lawns and drip irrigation for trees



Benefits Anticipated

- Efficient water use for gardening

Provide for Rainwater Harvesting



Benefits Anticipated

- Preserve the available water resource.
- Utilise the available resource effectively and minimise load on sewage treatment plant
- Reduce dependency on municipal water supply
- Improves ground water recharge

On site waste water treatment & reuse through non energy intensive and eco friendly technology



Benefits Anticipated

- To improve environmental conditions and meet the growing demand for water
- Helps in avoiding water pollution

Material efficiency



Base materials for R.C.C. and steel systems - Mandatory use of 25% pozzolana material Blended Portland Cement (BPC)



Benefits Anticipated

- To reuse/ recycle waste products and prevent landfills

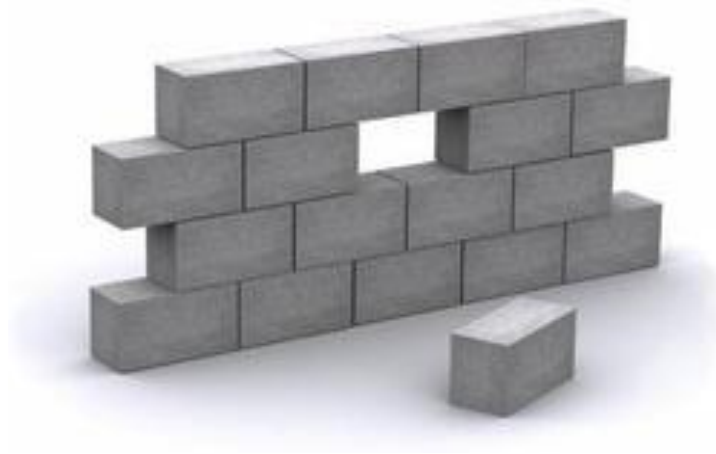
Timber if used, must be renewable timber from government certified forest/ plantation



Benefits Anticipated

- To protect rainforest from excessive logging

Use of Autoclaved Aerated Concrete (AAC) Blocks in construction instead of red bricks



Benefits Anticipated

- To reuse/ recycle waste products and prevent landfills

SWM



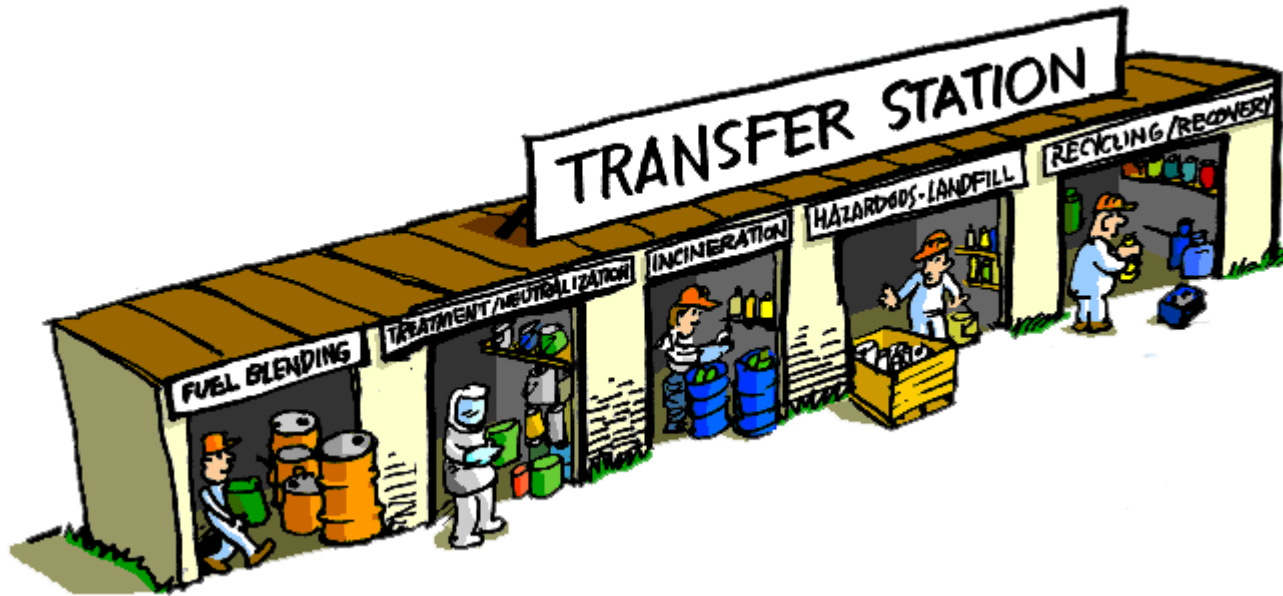
Shall provide separate bins for collection and separation of biodegradable, non-biodegradable, recyclable and hazardous wastes



Benefits Anticipated

- To efficiently manage the wastes and recover resources

Contract with local dealers for collection and transportation of recyclable materials



Benefits Anticipated

- To efficiently manage the wastes and recover resources

Set up treatment plant (anaerobic digestion or in-vessel composting /vermicomposting) for the treatment of organic wastes



Benefits Anticipated

- To efficiently manage the wastes and recover resources

Innovative Measures



Provide for Urban farming



Provide electrical charging point for charging of electric vehicles



Maintenance manual and public awareness program for individuals and households

Incentives

- Rebate on property tax
- Additional FSI
- Discount on chargeable FSI
- Annual Energy Leaders Award
- Recognition by awarding plaque to every green building from RMC
- Rebate on betterment/development charges
- Planning permission fees relaxation
- RMC Privilege card – Provides free entry to RMC events like Marathon, cultural programs, seminars & workshops etc. + access to RMC facilities like library, gymnasium, sports complex etc.

Way forward

- Analysis & integration of stakeholders suggestions, traditional, national & international green building norms
- Developing Rating System
- Formation of Institutional mechanism
- Preparation of Draft document
- Finalization Publication of the RMC green building program
- Implementation

Rajkot SMART Energy Lab



RAJKOT SMART ENERGY LAB

JOIN HANDS TOWARDS RAJKOT SMART CITY MOVEMENT

SMART ECO CAMPUS

Campus Energy
Campus Waste
Campus Water

RAJKOT ENERGY PORTAL

Energy Calculator
Energy Guide
Energy Leaders

SMART VOLUNTEERS

Photography
Film making
Graphic Design
Web Design
Street plays
& much more

TO PARTICIPATE IN THIS MOVEMENT

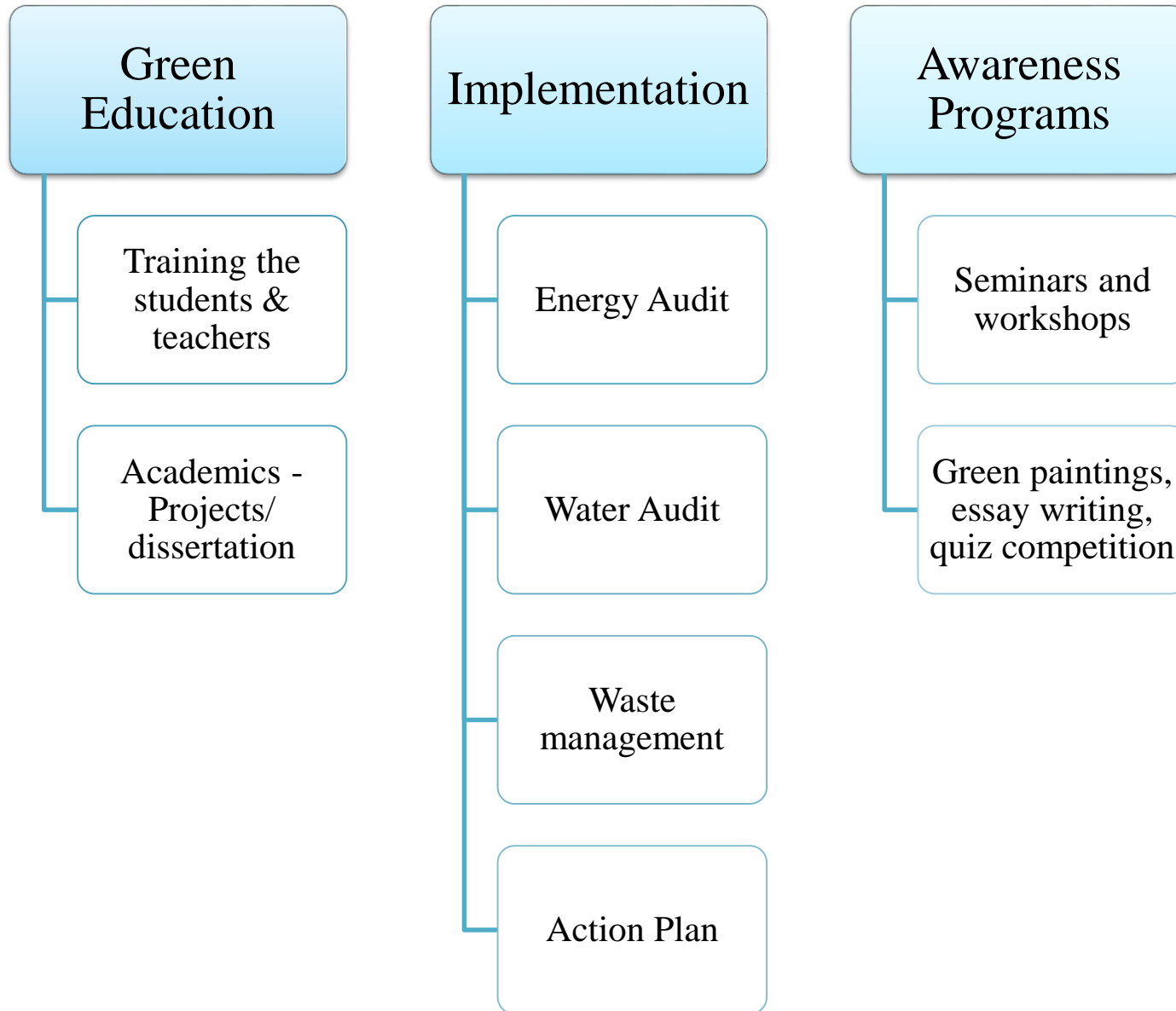
ANKIT MAKWANA
9998342046

BANDISH PATEL
9909976576

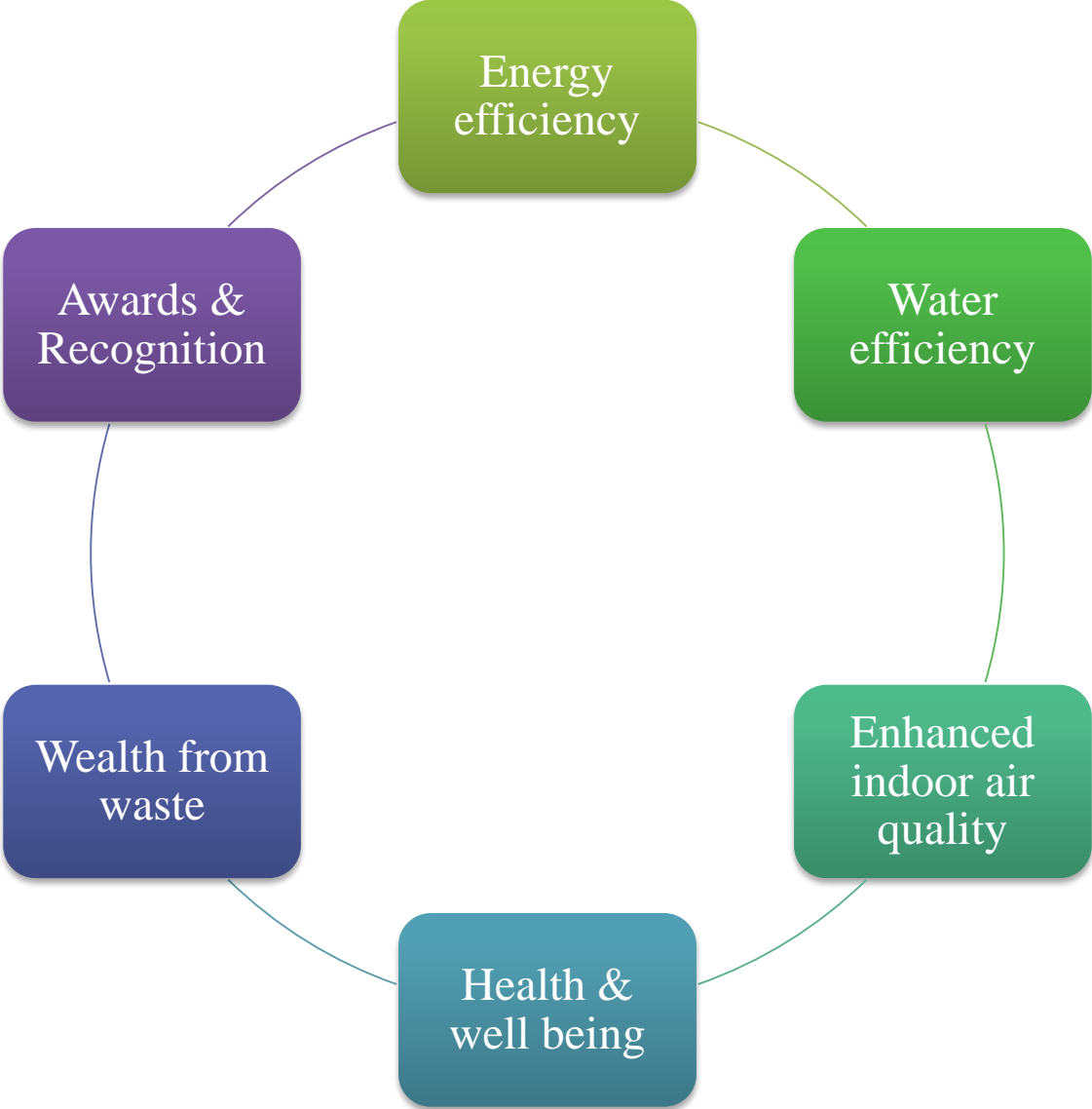
DHYEY KAMANI
8758807716

- Platform to link policy makers, private sector, educational institutions and citizens of Rajkot in the mission of bringing about sustainable, eco-friendly and energy efficient development
- Facilitate dialogue and sharing of ideas
- Three key pillars of the SMART energy labs

SMART Eco-campus - Activities



SMART Eco-campus - Benefits



SMART Eco-campus – Way forward



Mar-Apr'17

- Presentation
- Formation of eco-clubs



June-July'17

- Implementation activities
- MRV designing



Aug-Sept'17

- Action plan preparation
- Awareness activities



Nov-Dec'17

- Documentation
- Awards & recognition

SMART Volunteers program

- Citizens of Rajkot can directly participate in various activities to bring about a change in Rajkot city.



Participation certificate

Annual Awards to best volunteers

Exciting educational opportunities like attending webinars, seminars, workshops etc.

Networking opportunities for students and professionals.

SMART Volunteers program - Activities

Citizen Engagement through surveys, polls, outreach campaigns

Administrative Support including data entry, email communication

Social media support

Photography

Film making

Graphic Design

Web design and programming

Community Mapping

Documentation including writing reports, newspaper articles

Event Management

Quiz competition

Street plays

Best idea competition/StartUp Rajkot

Energy calculator



- Solar PV, LED, Wind energy etc.
- energy & cost savings

Energy guide



- Available technologies, benefits, applicability etc.
- Sector-wise schemes and policies of the govt.
- List of vendors providing RE & EE technologies in Gujarat

Energy Leaders



- Stories, Awards & Recognitions

WIND ENERGY

It's more than just energy



Every day 8,000 beavers perished



Rajkot SMART Energy Lab

Rajkot SMART Energy Lab is a local networking initiative seeking to link policy makers, private sector, educational institutions and citizens of Rajkot in the mission of bringing about sustainable, eco-friendly and energy efficient development.

Volunteer

Bandish Patel
Dhyey Kamani
Jaydeep Parmar
Anup Malhotra

About Us

RMC's
(Rajkot Muni. Corp.)
BEA

Blogs

Bear Population
The Ozone Layer
Spring Melody
Save Tropic Forests

- Website to act as a virtual Energy Lab
- Facilitate direct participation of citizens towards making Rajkot energy efficient and smart city
- News & Media
- Blogs & Suggestions

THANK YOU

- ICLEI – Local Governments for Sustainability at: www.iclei.org
- ICLEI – Local Governments for Sustainability, South Asia at: www.iclei.org/sa

Ashish Verma

(Manager – Energy & Climate)

- Contact no. – (+91) 9210469881
- Email id – ashish.verma@iclei.org

Bandish Patel

(Project Officer – Energy & Climate)

- Contact no. – (+91) 9909976576
- Email id – bandish.patel@iclei.org

Ankit Makvana

(Project Officer– Energy & Climate)

- Contact no. – (+91) 9998342046
- Email id – ankit.makvana@iclei.org

LIST OF ACRONYMS

LIST OF ACRONYM

ACRONYM	EXPANSION
RMC	RAJKOT MUNICIPAL CORPORATION
ABCD	ADVANTAGE BRTS CENTRAL DISTRICT
SPV	SPECIAL PURPOSE VEHICLE
RRL	RAJKOT RAJPATH LIMITED
BRTS	BUS RAPID TRANSIT SYSTEM
CCC	COMMAND AND CONTROL CENTER
NMT	NON-MOTORIZED TRANSPORT
UMI	URBAN MOBILITY INDIA
DPR	DETAILED PROJECT REPORT
MORTH	MINISTRY OF ROAD TRANSPORT AND HIGHWAYS
MLD	MILLIONS OF LITERS PER DAY
LPCD	LITERS PER CAPITA PER DAY
NRW	NON REVENUE WATER
DEA	DEPARTMENT OF ECONOMIC AFFAIRS
ADB	ASIAN DEVELOPMENT BANK
ODF	OPEN DEFECATION FREE
MoUD	MINISTRY OF URBAN DEVELOPMENT
OWC	ORGANIC WASTE CONVERTER
BARC	BHABHA ATOMIC RESEARCH CENTRE
TPD	TONS PER DAY
JNNURM	JAWAHARLAL NEHRU NATIONAL URBAN RENEWAL MISSION
MNRE	MINISTRY OF NEW AND RENEWABLE ENERGY
UNEP	UNITED NATIONS ENVIRONMENT PROGRAMME
DES	DATA ENCRYPTION STANDARD
PGVCL	PASCHIM GUJARAT VIJ COMPANY LTD
PPP	PUBLIC-PRIVATE PARTNERSHIP
PMAY	PRADHAN MANTRI AWAS YOJANA
HUDCO	HOUSING AND URBAN DEVELOPMENT CORPORATION LIMITED
GIS	GEOGRAPHIC INFORMATION SYSTEM
GPRS	GENERAL PACKET RADIO SERVICE
RTI	RIGHT TO INFORMATION
SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
SFCPOA	SLUM FREE CITY PLAN OF ACTION
CBD	CENTRAL BUSINESS DISTRICT
ICLEI	INTERNATIONAL COUNCIL FOR LOCAL ENVIRONMENTAL INITIATIVES
WRI	WORLD RESOURCES INSTITUTE
ICT	INFORMATION AND COMMUNICATIONS TECHNOLOGY
RWH	RAIN WATER HARVESTING
ICCC	INTEGRATED COMMAND AND CONTROL CENTER
ANPR	AUTOMATED NUMBER PLATER RECOGNITION

LIST OF ACRONYM

ACRONYM	EXPANSION
RLVD	RED LIGHT VIOLATION DETECTION
ITITMS	INTELLIGENT TRAFFIC AND INTEGRATED TRANSPORT MANAGEMENT SOLUTION
EWS- LIG	ECONOMICALLY WEAKER SECTIONS - LOW INCOME GROUPS
GSPL	GUJARAT STATE PETRONET LTD
NSIC	NATIONAL SMALL INDUSTRIES CORPORATION LIMITED
GIDC	GUJARAT INDUSTRIAL DEVELOPMENT CORPORATION
GPCD	GUJARAT POLLUTION CONTROL BOARD
RTO	REGIONAL TRANSPORT OFFICE
RCC	RAJKOT CHAMBER OF COMMERCE
CCTV	CLOSED-CIRCUIT TELEVISION