

ANNEXURE 2 - baselining and aspiration setting

A	B	C	H	I	J	K
	Feature	Definition	Self-assessment of the city (for Pan-City Solution) 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	A smart city constantly shapes and changes course of its strategies incorporating views of its citizen to bring maximum benefit for all. (Guideline 3.1.6)	Scenario-4	<ul style="list-style-type: none"> - Created 1,50,000 smart volunteers who reached out to ~50% all households (~800,000) in the city getting roughly 3.2 million inputs under the current Smart City Program - Practicing participatory budgeting since 2007 - Online complaints management system - Engagement through facebook, YouTube, Instagram, Monthly newsletter, website, twitter - Citizen-to-administration communication through development of citizen-centric call center and app - PCC has been set up to channelize CSR funding by bringing together corporates and PMC and eminent citizens - Several NGOs (Janwani, Parisar, Prayas, etc) and citizen organizations like PIC, MCCIA working closely with PMC to improve quality of life in Pune 	Building on its strong legacy of involving citizens and current momentum gained under the SCP, Pune aspires to engage all the residents going forward in all major policy and project level decisions and solutions, both through offline and online channels (Scenario 4)	<ul style="list-style-type: none"> - Leverage the unparalleled ecosystem of partners from the corporate sector, media, intelligentsia, common citizens that has been created as part of the SCP to become a global role model in terms of participatory democracy - Create a platform to crowd source ideas and problems citizens may have through app, portal, etc - Create a vision community with maximum citizen participation - Create digital innovation hub in Pune with citizens at the Epicentre - Leverage technology like Punetel card to have two way communication with citizens.
2	Identity and culture	A Smart City has a unique identity, which distinguishes it from all other cities, based on some key aspect: its location or climate; its leading industry, its cultural heritage, its local culture or cuisine, or other factors. This identity allows an easy answer to the question "why in this city and not somewhere else?" A Smart City celebrates and promotes its unique identity and culture. (Guideline 3.1.7)	Scenario 3	<ul style="list-style-type: none"> - PMC gets second highest number of visitors in Maharashtra after, Mumbai - The city has 245 heritage sites spanning across grade 1 to grade 3; 3 of these sites are also preserved by the ASI - Confluence of rich culture, presence of natural endowments like hills and riverfront coupled with favourable climate makes the city an ideal tourist destination - Pune is often referred to as the cultural capital of Maharashtra given it was the seat of power during the Peshawas in the 17-18th century 	Bring out the unique identity of Pune as the most livable city in the country that is a melting pot of best minds in India making it one of the top 10 tourist destination in the country leveraging its massive riverfront potential, both for domestic and foreign travellers (Scenario 4)	<ul style="list-style-type: none"> - Iconic riverfront development - first in 3.5 sqkm in ABB region and later on throughout Mula-Mutha river criss-crossing the city - Create a start-up zone and CBD with multiple dining and retail outlets for a global tourist experience - Advertise the Sawai Gandharv festival, the biggest festival of classical music in India, to generate greater traction from local and global music lovers - Create Pune guides and apps to help tourists navigate the city - Pune city branding portal on the anvil, Pune coffee table book launched
Sc	Economy and employment	A smart city has a robust and resilient economic base and growth strategy that creates large-scale employment and increases opportunities for the majority of its citizens. (Guideline 2.6 & 3.1.7 & 6.2)	Scenario 3	<ul style="list-style-type: none"> - Pune is the 8th biggest city in India in terms of GDP contribution - Manufacturing constitutes ~22% of employment in the city compared to 10-12% for India - 2nd biggest IT hub in the country, accounting for 9% of India's IT exports - >40% of the city's workforce is at least graduate 	Leverage the inherent strengths of the city in terms of existing industrial base coupled with strong human capital to create >500,000 jobs in the next 15 years required for the young entrants to the workforce by making Pune the "Start Up" capital of the country providing the best eco system (Scenario 4)	<ul style="list-style-type: none"> - In its quest to become the "Start Up" capital of India, start with creating a CBD in the ABB area creating ~45000 high end service jobs and then replicate it across multiple places in the city - Create Pune Start-up hub which comprises of incubators, investors, VCs, accelerators to support select Start-ups
4	Education	A Smart City offers schooling and educational opportunities for all children in the city (Guideline 2.5.10)	Scenario 4	<ul style="list-style-type: none"> - 2nd biggest Varsity with more than 800 colleges, often referred to as the "Oxford of the East" - GER (Primary & Upper Primary) is at impressive levels of 102% - Teacher to student ratio is 31:1, almost equivalent to RTE norms 	Leveraging on its headstart, Pune aspires to become a global leader in providing international quality education meeting the 35 sq feet area per student, having one primary school within 10 minutes of walking distance and a secondary school within 15-20 minutes; special e-learning modules for the under-privileged	<ul style="list-style-type: none"> - Utilize amenity spaces fully to construct schools to bring affordable education to a large section of the population - Start by creating 3 world class schools over an area of 6596 sq metre meeting the international benchmark in the ABB area which will then be replicated going forward to other areas throughout the city - Pune City Connect to channel funds from CSR to municipal schools - csrforpmcschools.org launched
5	Health	A Smart City provides access to healthcare for all its citizens. (Guideline 2.5.10)	Scenario 2	<ul style="list-style-type: none"> - High and rising trend of Maternal Mortality Rate; from 86 (Per 100K births) in 2011-12 to 132 by 2014-15, which is considerably higher than 87 for Maharashtra - Infant Mortality of 22/1000 births is significantly better than average of 40 for India - Pune has 2.5 hospital beds/1000 population, against the benchmark of 4 and 3 for urban India, however, ~70% of the beds are in the private sector 	Greater emphasis in PMC budget coupled with increased use of technology, strong civil society and NGO network to strengthen the basic health care in the city, especially for the ~40% slum population in the city (Scenario 4)	<ul style="list-style-type: none"> - Start by creating 3 super speciality hospitals in the ABB area spread across 8211 sq metres to take the beds-to-population ratio to international benchmark of 4/1000 in the local area and then replicate the model across the city - Leverage m-health applications to cover greater population with reduced cost - use of ICT in health to increase outreach and create awareness

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6 Mixed use	A Smart City has different kinds of land uses in the same places; such as offices, housing, and shops, clustered together. (Guidelines 3.1.2 and 3.1.2)	Scenario 2	Though Pune allows for mixed use, overtime, the city has gotten segmented into niche areas, forcing people to commute, increasing average trip length, putting pressure on the infrastructure, reducing the speed impacting the quality of life - Jobs are getting created in city peripheries like Hinjewadi increasing the average trip length to almost 10 kms - Koregaon park is the preferred destination for dining and leisure, necessitating residents to travel from across the city	All new developments in the city to have mixed use allowing for housing, retail, and office buildings in close proximity to reduce the need to commute long distances thus increasing the quality of life. Encourage the development of walk-to-work concept in new mixed use development (Scenario 4)	- Mixed use development in the ABB area by creating 10 acre start-up zone and 36acres commercial space to generate 45,000+ jobs (by 2030) - 3.5 kms stretch of the ABB riverfront area to be converted into world class recreation hub - Overtime, this integrated model to be replicated across the city improving the citizen's quality of life significantly - New DC Regulations which have been proposed to the Government which are likely to be approved within 3 months promotes mixed use in the city
7 Compact	A Smart City encourages development to be compact and dense, where buildings are located close to one another and are ideally within a 10-minute walk of public transportation, forming concentrated neighborhoods. (Guidelines 2.3 and 5.2)	Scenario 2	- Pune has few compact areas like the old city core, etc. - Over the last decade however Pune is sprawling; PMC's population grew by 2% between 2001-11, compared to peripheral areas' growth of >5% - Average trip length has gone up to 10 kms from ~9kms in 7 years - Close to double digit growth of private vehicles at least over the last 5-7 years	Push on transit-oriented development, coupled with increased FSI and redevelopment/reclassification of hitherto agricultural land increases the compactness in the city by developing large parcels of un/under utilized land (Scenario 3).	- Local area (ABB) envisioned to be a compact development, with presence of jobs, recreation hubs, education and health, etc. all in the vicinity - New greenfield areas to be developed in future are compact where amenity space is used efficiently to have at least 15% open space, meeting the global benchmarks
8 Public open spaces	A Smart City has sufficient and usable public open spaces, many of which are green, that promote exercise and outdoor recreation for all age groups. Public open spaces of a range of sizes are dispersed throughout the City so all citizens can have access. (Guidelines 3.1.4 & 6.2)	Scenario 2	- Pune currently has just 7% area for public open spaces (including parks, hill tops, forest, etc) against a benchmark of 15% laid down by the ministry of environment	Increase open space in the city to meet the 15% international benchmark by utilizing the amenity spaces fully and leveraging the long riverfront stretch that Pune is endowed with. Open spaces should be well distributed in the city such that each resident is able to reach a garden within 5 minutes, walking on trail of connected footpaths (Scenario 4)	- Increase the public open space in the ABB area from 4% to more than 10% by creating a 3.5 kms long riverfront and developing 7 amenity spaces into gardens - Ensure each resident has 5 minute access to gardens in the city - Blend of riverfront and gardens to be replicated across the entire city leveraging ~40kms of riverfront stretch on Mula-Mutha flowing through the city.
9 Housing and inclusiveness	A Smart City has sufficient housing for all income groups and promotes integration among social groups. (Guidelines 3.1.2)	Scenario 1	- 28% of all households in the city live in slums, compared to 17% for urban India - Close to 60% of the households need some type of viability gap funding to make them afford housing	Slum free Pune by 2030 - - Swifter rehabilitation of slums under SRA through push from PMC and active involvement of civil society - Improved supply and demand conditions wrt affordable housing through higher FSI and better affordability through rising incomes, (Scenario 3)	- Construction of ~20,000 affordable houses every year to rehabilitate the slum population - Start by making the ABB region slum-free by redevelopment of 500 slum households in the area - PMC to push rehabilitation on lands owned by the corporation - Leverage strong citizen participation to build trust between the slum dwellers and developers

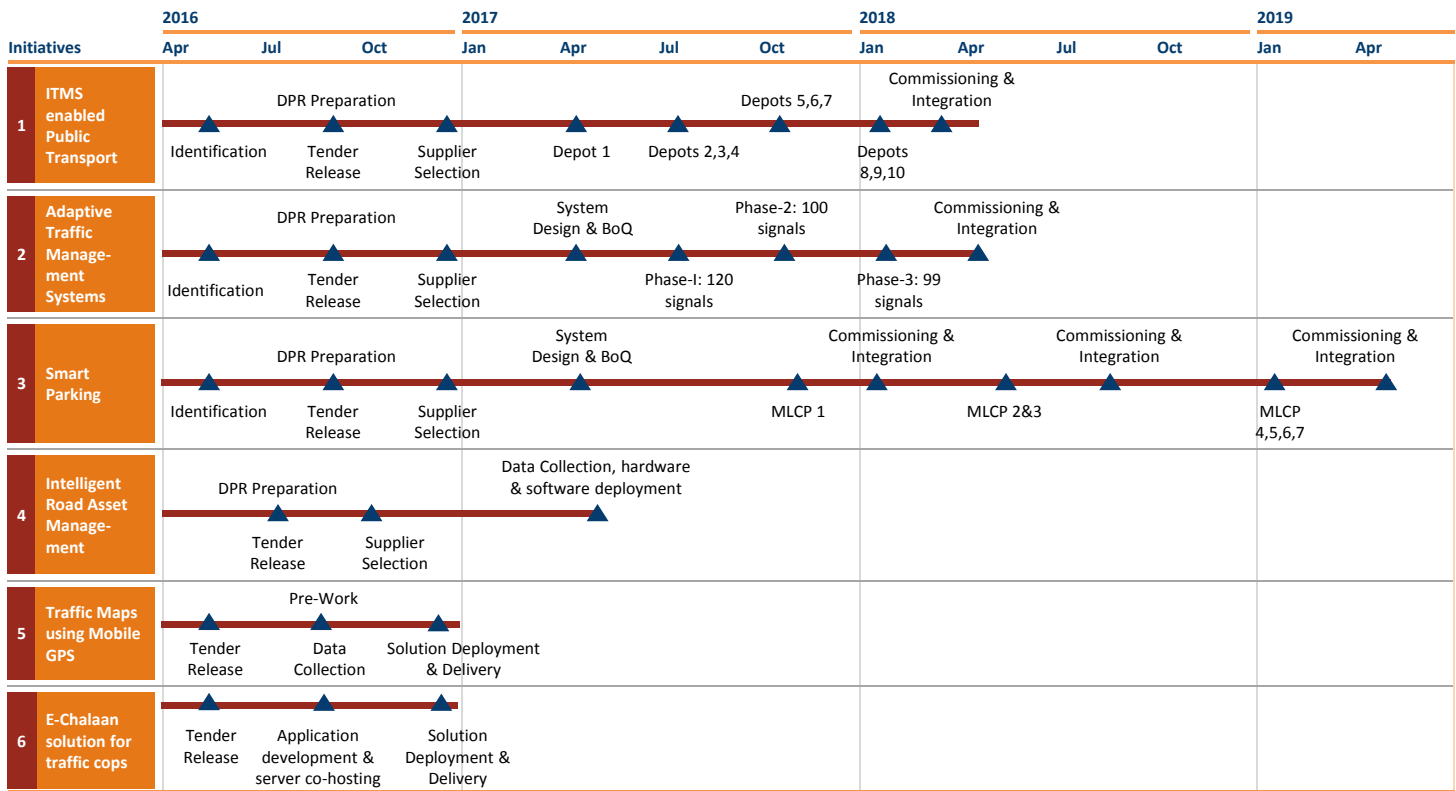
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10 Transport	A Smart City does not require an automobile to get around; distances are short, buildings are accessible from the sidewalk, and transit options are plentiful and attractive to people of all income levels. (Guidelines 3.1.5 & 6.2)	Scenario 1	<ul style="list-style-type: none"> - Pune only city of its size to not have a meaningful mass rapid transit and has a low bus fleet of 37 per lakh people against a benchmark of 55 - Low trip share of public transport at 19%, as against a norm of ~50% - Peak hour speed is down to ~18kms/hour from 22kms few years back - NMT share is also low at 33% 	Increased share of public transport by 2030 from 19% to 30% as a result of completing the 96kms BRTS network and 2 metro corridors measuring 31 kms, together with augmented bus fleet. NMT share also increases with the development of compact mixed-use development, further improving the traffic situation (Scenario 3)	<ul style="list-style-type: none"> - Reach steady state in the ABB area taking public transportation percentage to 50% from current 19% through 100 e-buses, 26 km BRT route, 54 bus stop overhaul and 100 e-rickshaws; take NMT to 8% from 1% through 27 km bicycle tracks, 60 km footpath redesign, etc - Affordable, clean Mass transit option complemented by augmented, refurbished bus fleets (~3500 buses) with feeder (~500 Mini Buses) by 2021, better route planning, premium options and systems of information dissemination - Policy changes to make parking expensive with stricter enforcements - Procurement of ~2,500/ITMS enable buses - Depot and terminal development - Public bicycle sharing system - Smart Redesign of 50 km of streets - Redesign of 75 Junctions - Full rollout of BRT Network, metro and 2 Ring Roads to be completed
11 Walkable	A Smart City's roads are designed equally for pedestrians, cyclists and vehicles; and road safety and sidewalks are paramount to street design. Traffic signals are sufficient and traffic rules are enforced. Shops, restaurants, building entrances and trees line the sidewalk to encourage walking and there is ample lighting so the pedestrian feels safe day and night. (Guidelines 3.1.3 & 6.2)	Scenario 1	<ul style="list-style-type: none"> - Pune has NMT at 33% and a low share of cycling - Almost half of the footpaths in the city have significant (>7) obstructions per km - Footpath is available on 2/3rd of the road network but needs significant improvement and redesign 	Improved NMT as a result of push on compact mixed use development, supported by better facilities for pedestrians and cyclists in terms of extensive street network coupled with cycle tracks along major stretches (Scenario 3)	<ul style="list-style-type: none"> - Creation and redesigning of 60kms of footpaths and 42kms of cycle track to be created in the ABB area, which then gets replicated throughout the city - Redesign of major streets to accommodate pedestrians and cyclists, with demarcated pedestrian zones on 100% of streets
12 IT connectivity	A Smart City has a robust internet network allowing high-speed connections to all offices and dwellings as desired. (Guideline 6.2)	Scenario 2	<ul style="list-style-type: none"> - 22% households have computers with internet - City is in process to identify zones where wifi and high speed internet spots will be implemented - PMC has involved major ISPs for providing high speed internet connectivity 	High speed optic fibre network to be laid down across the city using provision for Right of Way(RoW) Access points to be strategically chosen to give maximum reach (Scenario 4)	<ul style="list-style-type: none"> - Seamless wi-fi connectivity throughout the 900 acres area with 100+ access points and provision for 10000+ simultaneous devices connections with 1Mbps speed
13 ICT-enabled government services	A Smart City enables easy interaction (including through online and telephone services) with its citizens, eliminating delays and frustrations in interactions with government. (Guidelines 2.4.7 & 3.1.6 & 5.1.4 & 6.2)	Scenario 2	<ul style="list-style-type: none"> - Few major citizen centric services are online : Property Tax Self Assessment & Payment, Building Sanctions / Registrations, LBT Registration, etc - Pune shares significant number of statutory documents like DP, DCR, Budgets, etc on its website - Backend processes of most service delivery is not automated - Inter-departmental collaboration lacks seamlessness 	Implement suite of e-governance solutions across all citizen centric services to become one of the top 10 cities in terms of ease of doing business. PMC website is the single source of information for all government related information, providing real time update on various projects and policy changes. Information flows through the department in a seamless manner to avoid duplication and churn (Scenario 4)	<ul style="list-style-type: none"> - Leverage ICT solutions like integrated data across utilities, Geo enabled city operations for activities such as land management, tax assessment, etc. to set up command and control center which acts as an E-municipality across all functions in the ABB area ; - ABB online portal with multiple activities across all departments with citizen desk for physical verification, etc - Scale up these initiatives across the city to make Pune amongst top 10 ease of doing business places globally
14 Energy supply	A Smart City has reliable, 24/7 electricity supply with no delays in requested hookups. (Guideline 2.4)	Scenario 3	<ul style="list-style-type: none"> - The area within PMC limits doesn't have any official load shedding schedule and electricity goes off only during well announced maintenance or due to some catastrophic failure - In terms of coverage, 98% of households have electricity connections, compared to 93% in urban India 	PMC is able to provide 24*7 uninterrupted power to all its residents. There is 100% smart metering and grid in the city, together with 100% billing and collection efficiency (Scenario 4)	<ul style="list-style-type: none"> - Implement smart grid in the ABB area for 100% power supply and 3% reduction in AT&C losses from 9% to 6% - Pune should roll out smart metering and grid, with 100% households connected to the grid in due course
15 Energy source	A Smart City has at least 10% of its electricity generated by renewables. (Guideline 6.2)	Scenario 2	<ul style="list-style-type: none"> - Pune has pockets of areas using renewables to satisfy energy needs - Magarpatta city has a biogas plant and 7,000 solar water heating panels - PMC runs ~20 biogas plants of 5MT each to provide electricity to parts of the city streets - 300 MT waste to energy plant has just gone live with a capacity to produce 21,000 litres of Compressed Bio Gas 	PMC becomes a leader in India in terms of generating energy from renewal sources, primarily from solar and waste. Close to 15-20% of the city's energy requirements are met with green sources improving the city's pollution levels	<ul style="list-style-type: none"> - ABB area to be made maximum solar city with 15-20% of energy needs getting fulfilled through solar at zero cost, using RESCO model (PPP) - In the long run Pune should aspire to generate 15-20% of its energy requirements from solar

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16 Water supply	A Smart City has a reliable, 24/7 supply of water that meets national and global health standards. (Guidelines 2.4 & 6.2)	Scenario 2	<ul style="list-style-type: none"> - Pune has 1250 MLD of water, enough to meet current and future requirements - ~15% of the population gets less than 135 lpcd - NRW is estimated at 30% - Quality of water is good, with residents able to drink tap water without additional filtering 	<ul style="list-style-type: none"> - Pune is amongst a handful of cities providing 24*7 water to all its residents. Improvement is a result of: <ul style="list-style-type: none"> - Reduction in NRW from 30-35% to 15% due to systemic improvement in infrastructure - Reduction in wastage as a result of installation of water meters coupled with telescoping pricing based on consumption levels (Scenario 4) 	<ul style="list-style-type: none"> - Ensure every one gets 150 lpcd in the ABB area by strengthening core infrastructure like putting in smart meters, building reservoirs at Balewadi and Baner, laying of pipeline of ~50kms in the area, setting-up systems for waste water recycling, etc - In the long run move to DMA will ensure 24*7 water for everyone in Pune, a DPR for which has been prepared and approved by the General Body, implement smart solutions for water management, restructuring of water department into 3 verticals (O&M, Projects and PR)
17 Water management	A Smart City has advanced water management programs, including smart meters, rain water harvesting, and green infrastructure to manage stormwater runoff. (Guideline 6.2)	Scenario 1	<ul style="list-style-type: none"> - Currently only commercial establishments have meters out of which 50% are faulty and 25% are RdNa (Reading Not Available) - There is no bulk or domestic metering throughout the system - Distribution system is manually operated and relies on gravity for transmission of water 	<ul style="list-style-type: none"> - 100% smart metering across all commercial and domestic establishments - Green building codes with provision for rainwater harvesting - Pune manages to increase its storm water drainage to 100% (Scenario 4) 	<ul style="list-style-type: none"> - 100% smart metering across all commercial and domestic establishments in the ABB area; install smart bulk meters at the inlets and outlets of Warje WTP, 7 reservoirs, 3 pumping stations and all DMA's in the region; link all the data received via meters to a centralized dashboard with SCADA - Consumption based tariff to curb excess consumption and wastage - Ensure 100% of household and commercial establishments have rain water harvesting pits - Create society levels 'sumps' in which rain water is collected and then used for gardens, car washing etc. across all households
18 Waste water management	A Smart City treats all of its sewage to prevent the polluting of water bodies and aquifers. (Guideline 2.4)	Scenario 1	<ul style="list-style-type: none"> - More than 90% of the population is covered by Sewage network - Close to 65% of the waste water is treated - 355 MLD of mixed sewage + water is thrown into Mula-Mutha river via nala's and drains - Current BOD levels in Mula-Mutha river range from 50-80 mg3 	<ul style="list-style-type: none"> - Pune manages to utilize the JICA funding and grants under AMRUT to tackle all its sewage related deficiencies in terms of covering the entire population with sewage network, increasing the treatment capacity to tackle all the sewage generated in the city, creating ~120 kms of conveyance system to collect the sewage (Scenario 4) 	<ul style="list-style-type: none"> - Start by recycling 48 MLD sewage generated in ABB every day by enhancing the capacity of Baner STP by 30 MLD - PMC has gotten 990 crore JICA funding to take care of all its sewage and sanitation related infrastructure build out till 2031 through the construction of 10 STP's and 114.6 Km of pipeline, etc
19 Air quality	A Smart City has air quality that always meets international safety standards. (Guideline 2.4.8)	Scenario 2	<ul style="list-style-type: none"> - Pollution due to Particulate Matter (both, 2.5 and 10) and Nitrogen oxides is significantly higher than the prescribed norm (56, ~90 and 59 as against the benchmark of 40, 60 and 40 respectively) 	<ul style="list-style-type: none"> - As a result of multi-pronged strategy to increase public and NMT share of traffic, Pune aspires to bring down its pollution levels of both, particulate matter and poisonous gases to acceptable levels. Further, stress on creating more open spaces, move to renewables, etc all help Pune becomes city with one of the best air quality in the country. (Scenario 3) 	<ul style="list-style-type: none"> - Creation and redesigning of 60kms of footpaths and 42kms of cycle track to be created in the ABB area, supplemented by e-rickshaws and walk to work concept with increased open space will ensure that air quality in the ABB improves significantly - Multipronged strategy to beef up public transportation, facilitate NMT through redesign and augmentation of footpaths and cycle tracks and new philosophy of development maximizing open area
20 Energy efficiency	A Smart City government uses state-of-the-art energy efficiency practices in buildings, street lights, and transit systems. (Guideline 6.2)	Scenario 2	<ul style="list-style-type: none"> - PMC is the first urban local body in the country to take up implementation of environment friendly housing program since 2007 - Adopted green rating system (GRIHA) - which is a green building design evaluation system - Rooftop solar mandatory for certain buildings in PMC area 	<ul style="list-style-type: none"> - Achieve maximum savings on energy utilised and controlled under public realm such as Street lights, government buildings etc. - Promote the use of energy efficient technologies by putting in proper incentive structure (scenario 3) 	<ul style="list-style-type: none"> - Following projects proposed in local area <ul style="list-style-type: none"> - LED street lighting to go from the current level of 7% to 85% - Use of dimmers for sodium vapor lamps which cannot be replaced by LEDs - Incentive structure already in place to promote green buildings (extra FSI depending on the star rating of the building) - Increase in solar through RESCO model
21 Underground electric wiring	A Smart City has an underground electric wiring system to reduce blackouts due to storms and eliminate unsightliness. (Guideline 6.2)	Scenario 2	70% of the city is currently covered by underground distribution network	All electric wiring in the city goes underground, clearing the clutter and makes it safe for the residents (Scenario 4)	<ul style="list-style-type: none"> - Underground electric wiring is a part of DPR prepared from smart grid in ABB - As part of the T&D network strengthening project (Rs. 292 Cr.), 100% of overhead electric cables would be re-laid underground. MoU signed between PMC and MSEDCL wherein PMC has agreed to give 'Right of Way' permission wherever required by MSEDCL
22 Sanitation	A Smart City has no open defecation, and a full supply of toilets based on the population. (Guidelines 2.4.3 & 6.2)	Scenario 3	<ul style="list-style-type: none"> - ~3% population defecates in the open - The city is short of ~29,000 individual toilets 	Pune leverages Swachh Bharat Mission's funding to ensure that everyone has access to toilets - personal or community to eliminate open defecation	<ul style="list-style-type: none"> - Create 74 world class public toilets in the area and complete refurbishment of the 10 existing toilets to create a total of 84 public toilets to cater to 100% of the floating population in the area - 100% of population to have access to toilets (from 96.5% currently) with 29,000 toilets built over the next 2 years

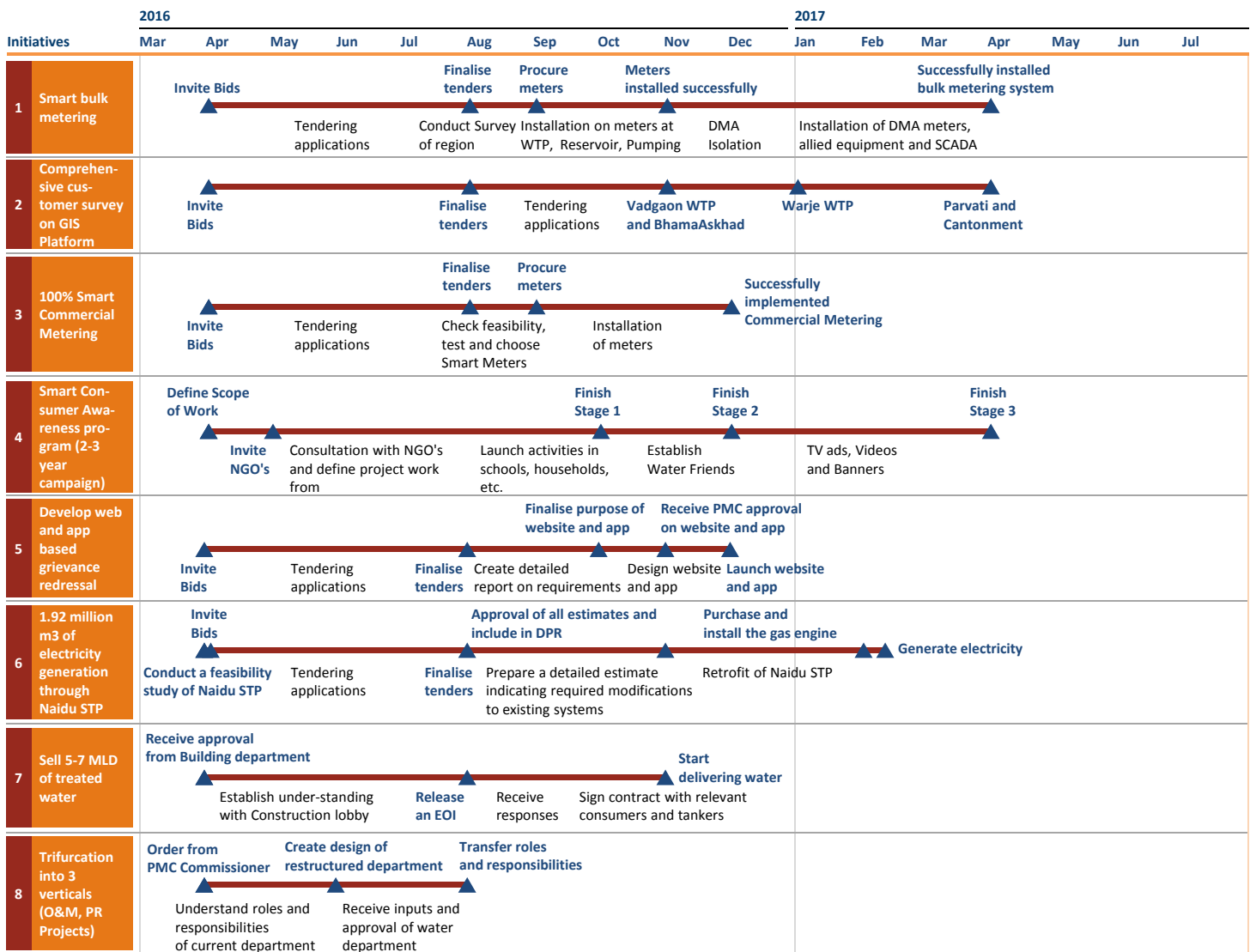
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23 Waste management	A Smart City has a waste management system that removes household and commercial garbage, and disposes of it in an environmentally and economically sound manner. (Guidelines 2.4.3 & 6.2)	Scenario 3	<ul style="list-style-type: none"> - Collection efficiency is 90% - More than 55% of the MSW is segregated - Enough installed capacity to treat all solid waste - PMC in advanced stage of talks to sign an MOU with SWaCH to cover the entire city with door-to-door collection, including slums 	PMC becomes the first city in the country to solve its MSW problem end to end - with 100% collection, treatment and disposal of waste in a scientific manner. (Scenario 4)	<ul style="list-style-type: none"> - In the ABB area, ensure 100% segregation at source, transport in closed containers, 100% recycled, all bio-degradable converted to compost and energy - PMC in agreement with SWaCH to cover 100% households in the city with door-to-door collection of MSW
24 Safety and security	A Smart City has high levels of public safety, especially focused on women, children and the elderly; men and women of all ages feel safe on the streets at all hours. (Guideline 6.2)	Scenario 3	<ul style="list-style-type: none"> - Pune has 200 policemen per lakh population, as opposed to 138 for India average - 1300 CCTV camera's located throughout the city - Pune's share of all million plus cities' crime has decreased - from 2.6 in 2012 to 2.3 in 2014 	Pune is able to reduce the incidence of crime and becomes the safest city in India. It adopts a slew of measures like: <ul style="list-style-type: none"> - Integration of surveillance with centralised emergency response center for reduced response time - Smart Walky talkies, phones and GPS in patrol cars to reduce communications lags - Increase policeman to people ratio - Installation of 400 additional cameas to achieve 100% CCTV surveillance (Scenario 4)	<ul style="list-style-type: none"> - Initiate 811 emergency service with response time of less than 10 minutes - Centralized command and control centre with camera feed from critical areas, emergency services through 5 SWAT vehicles - 100% verification of maids in households for senior citizen safety and special child safety zones around schools, playgrounds - Panic buttons on street light poles - City wide public address systems - Further strengthening of CCTV surveillance

Exhibit 28: Critical milestones & timelines of Pan-City initiatives

Transportation



Water & sewage



Note: Advanced Helium Leak identification across all 2688 Km will happen as a part of developing the distribution system in the 24x7 water supply project across the city

Exhibit 29: Implementation Plan for Local Area Solutions

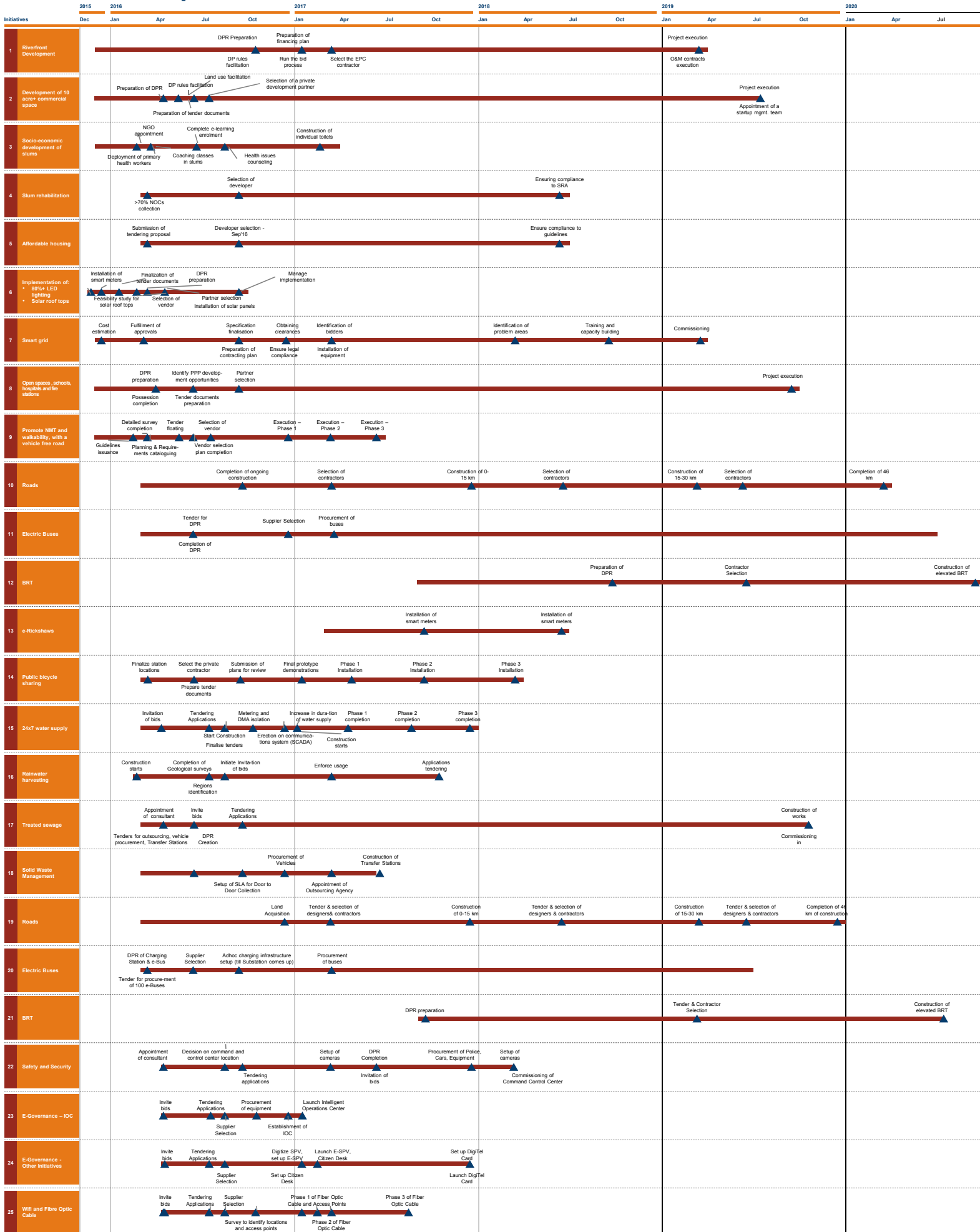


Exhibit 13: Planned 3.5 km of Riverfront Development in ABB

Now (from)



To

- Urban Farming • 18 Acres *
- Iconic Residential Mixed Use • 32 Acres
- Performance Gallery & Public Zone • 9 Acres
- River Promenade • 7 Acres
- Exhibition Retail Area • 9.7 Acres
- Public Utility & Green Area • 9.4 Acres
- Residential And Mixed Use • 29.6 Acres

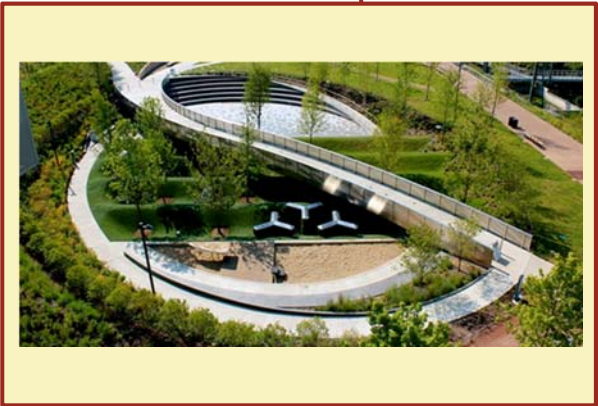
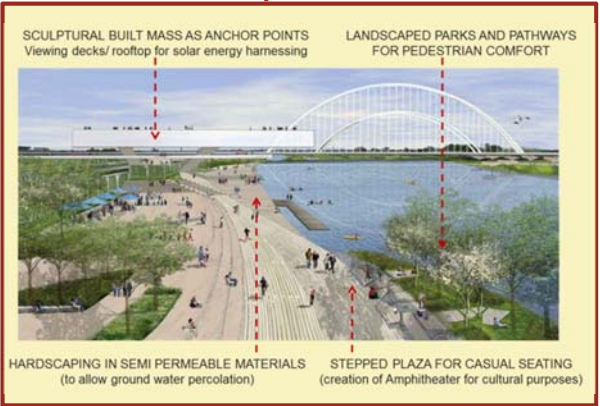


Exhibit 21: Solution components for public transport items

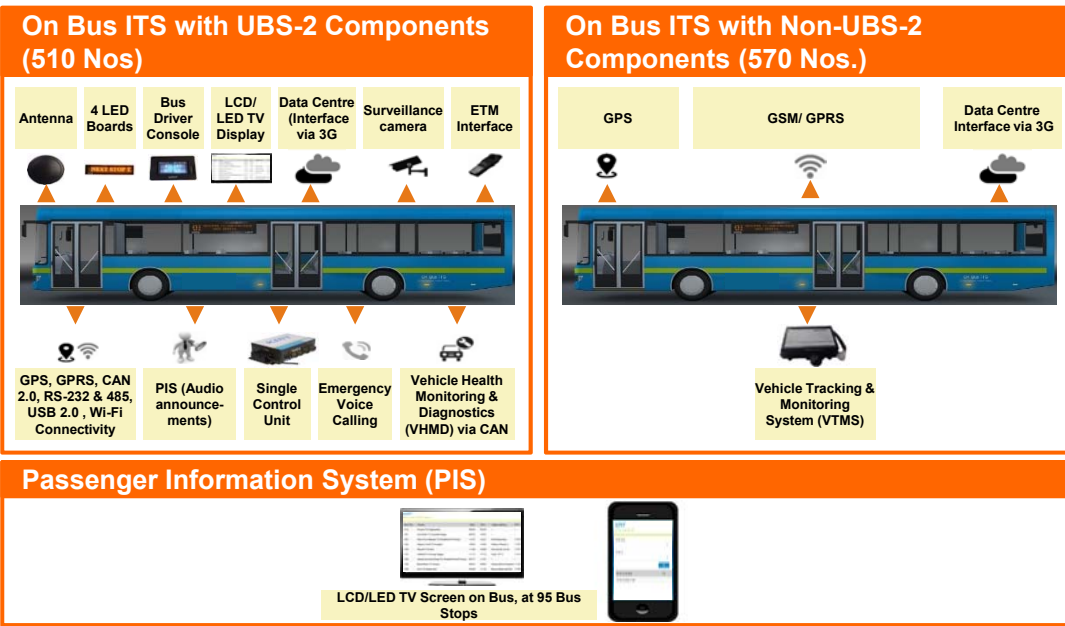


Exhibit 22: Adaptive traffic solution for Pune

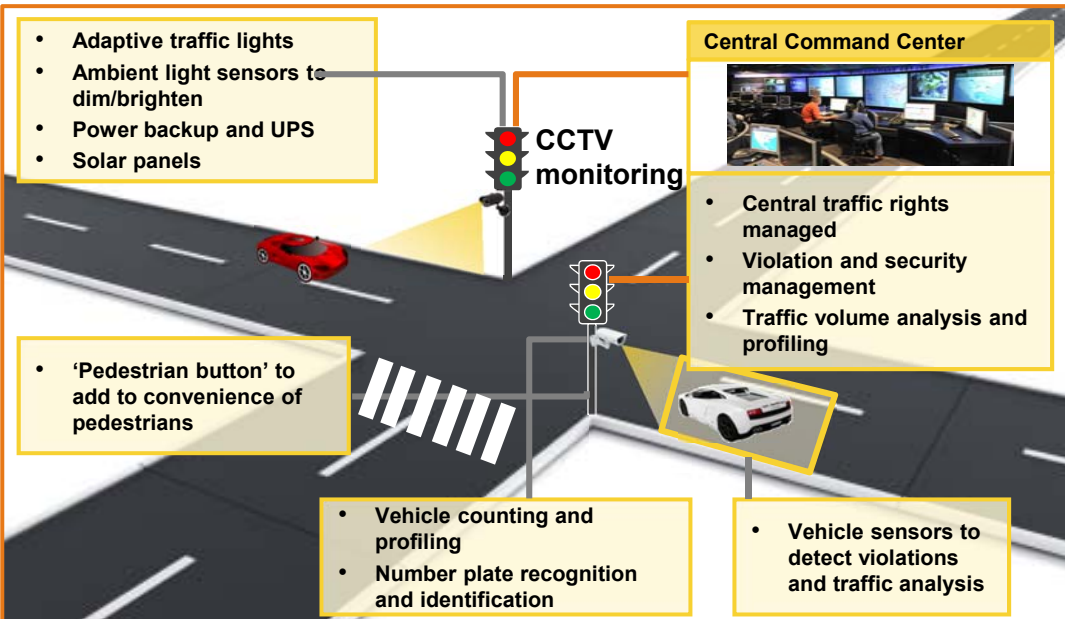


Exhibit 23: Parking solutions for Pune

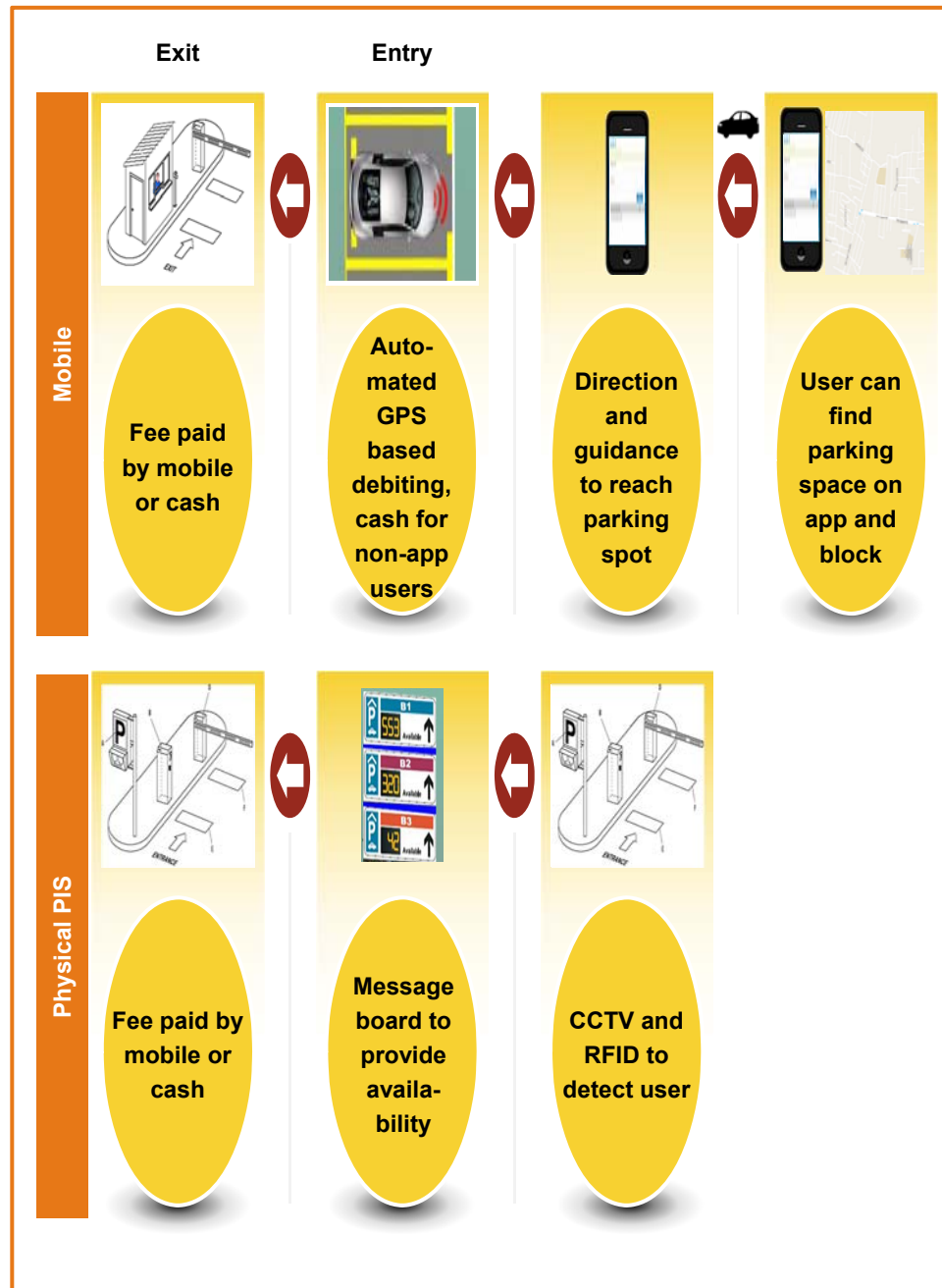


Exhibit 30: Relationship with government and non-government agencies

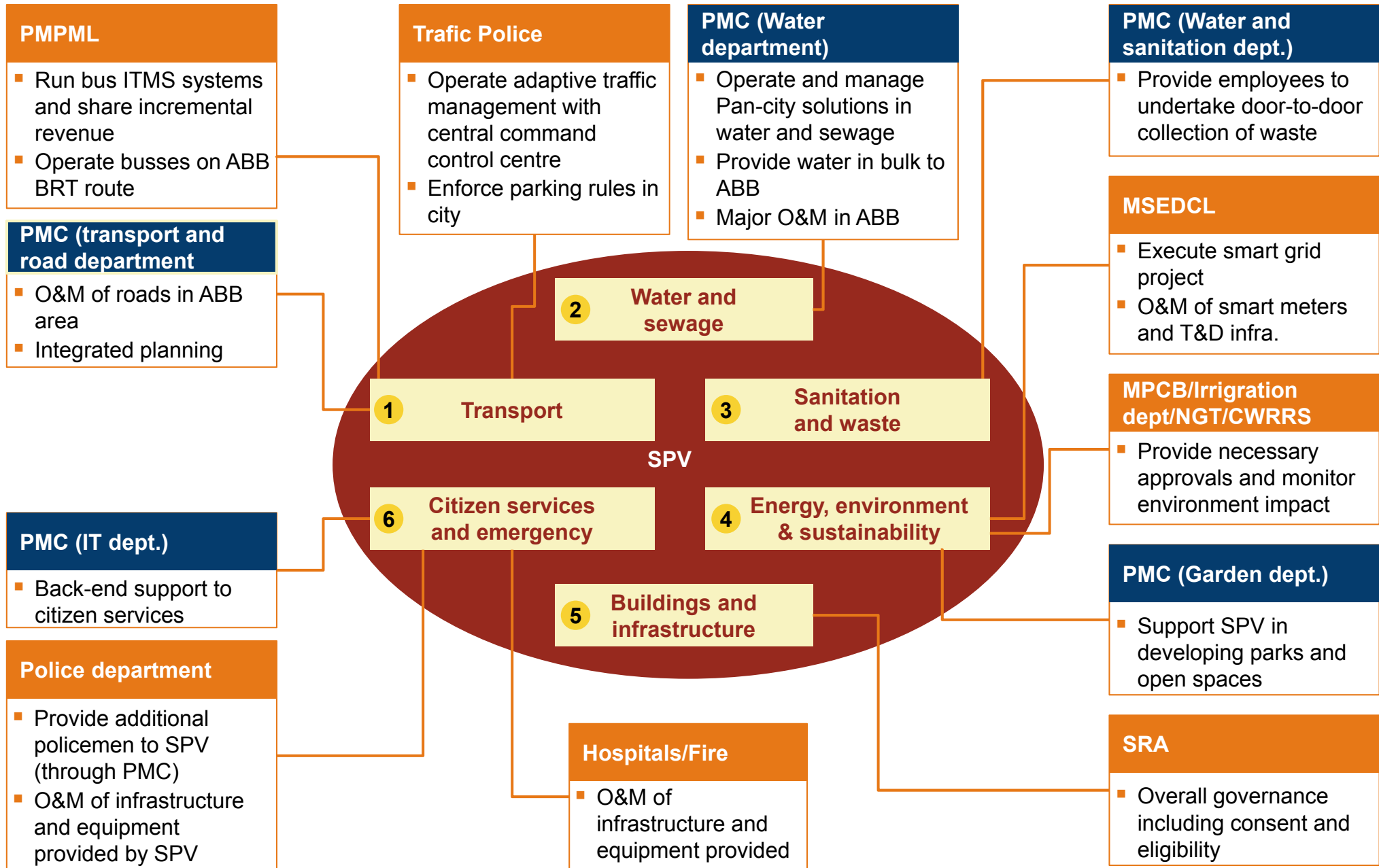


Exhibit 30: Organogram with linkages of SPV with ULB & parastatal agencies (Q.36)

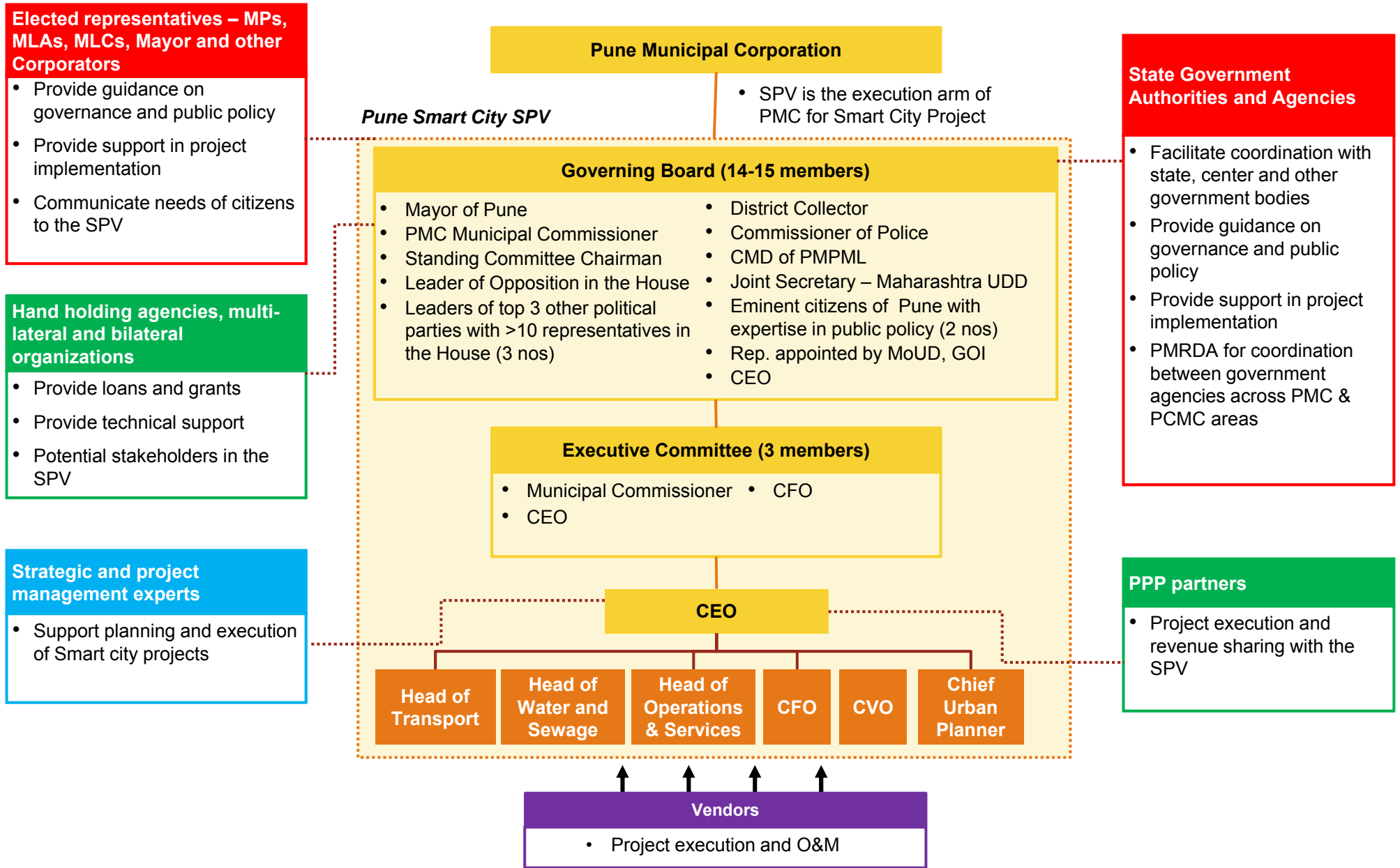
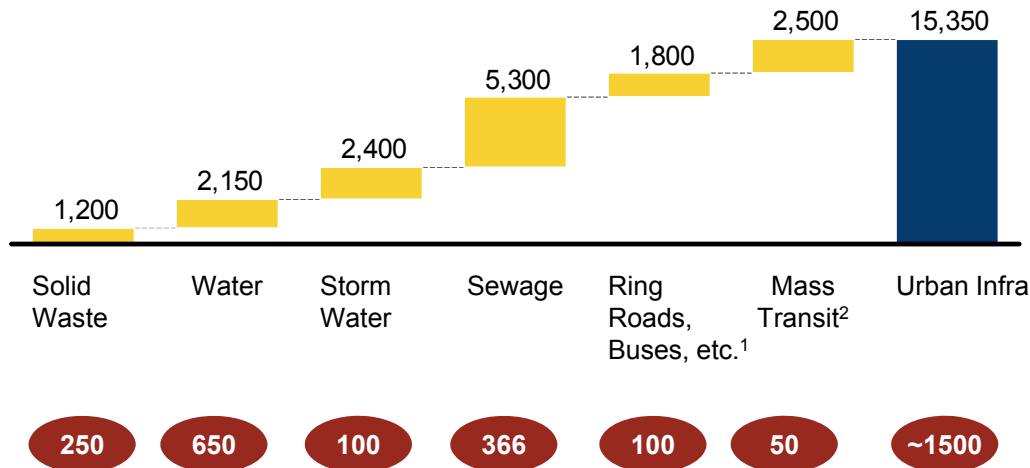


Exhibit 1

Funding requirement for PMC between 2015 and 2030

INR Crore



Additional spending of ~20,000 crores on housing

1 Assuming that Ring Roads will be constructed by PMRDA, PMC will bear 60% of bus cost (40% by PCMC)

2 Assuming that PMC will bear the 10% cost of constructing the Metro




SOURCE: McKinsey Urbanization Funding Models, PMC, Expert Interviews

Exhibit 2: Framework to solve Pune’s transport & mobility problem

	Short term <12-18 months	Medium term 18 months– 60 months	Long term >5 years
1 ICT solutions	<ul style="list-style-type: none"> Public transport ITMS <ul style="list-style-type: none"> GPS, real-time tracking, health monitoring in buses Smart bus stops with PIS Mobile apps for real time tracking Adaptive Traffic Management System across 319 signals: <ul style="list-style-type: none"> Pedestrian safety buttons Solar Panel & UPS backup Emergency response system Advanced traffic management <ul style="list-style-type: none"> E-challans Mobile GPS based traffic analysis Intelligent road asset mgmt 		
2 “Less is more” solutions	<ul style="list-style-type: none"> Private bus aggregator to complement public buses 	<ul style="list-style-type: none"> Procurement of ~2,500/ ITMS enable buses Depot and terminal development Public bicycle sharing system Smart Redesign of 50 km of streets Redesign of 75 Junctions 	<ul style="list-style-type: none"> Smart street redesign for entire Pune
3 High capex solutions		<ul style="list-style-type: none"> ~60 km of BRT Network ~31 km of Metro 2 Ring Roads to be completed 	<ul style="list-style-type: none"> ~10-20 km BRT network ~44 km metro network

SOURCE: City documents, PMPML, ITDP, PMC Transport Department

Exhibit 3: Comprehensive framework to solve water issues

	Short term <12 months	Medium term 1 year – 5 years	Long term >5 years
1  ICT solutions	<ul style="list-style-type: none"> Customer survey on GIS Platform Smart Bulk Meters with SCADA Grievance redressal and bill payment through website and mobile app Smart Metering for commercial establishments Smart Consumer awareness campaign 	<ul style="list-style-type: none"> Helium technology based Leak Identification across 2688Km. Generate 1.92 million units of electricity annually from Naidu STP 	<ul style="list-style-type: none"> Smart metering for domestic households through a "Give up water subsidy" campaign along with a revised telescopic tariff
2  "Less is more" solutions	<ul style="list-style-type: none"> Sell 5-7 MLD of treated water to industry, construction and railways Use standby lines to treat 355 MLD of mixed sewage water from Nalas/Drains 	<ul style="list-style-type: none"> Restructure water department into three verticals (O&M, Projects, PR) 	
3  High capex solutions		<ul style="list-style-type: none"> Initiate 24x7 water supply pilot across 5 DMA's (6000 connections) 	<ul style="list-style-type: none"> Do phase wise 24x7 water supply project across the city Installation on treatment mechanism to meet gap in installed treatment capacity of 177 MLD

SOURCE: Expert Interviews, PMC Officials, Desk researchx

Exhibit 4: Sources identified for Land Monetization, with potential to raise additional INR ~1250-1450 Cr annually

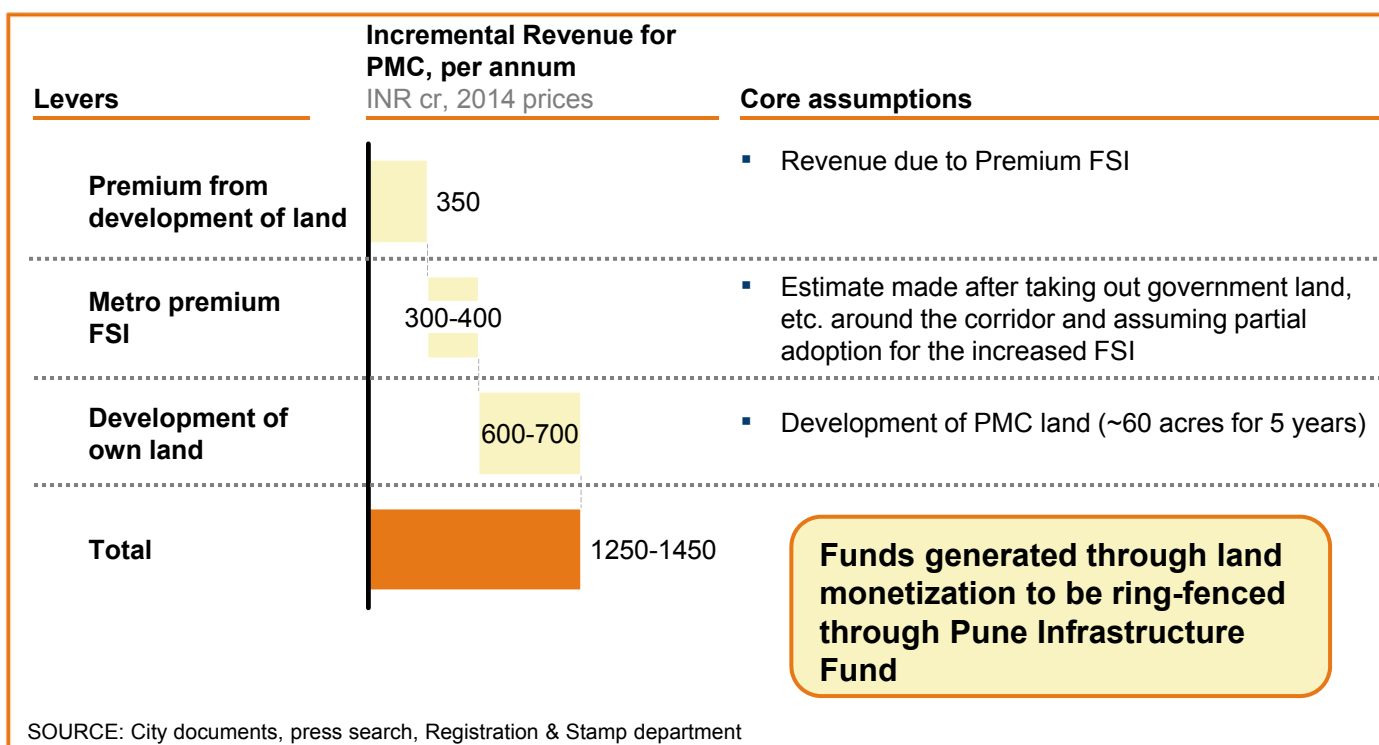


Exhibit 5: Extent of citizen engagement

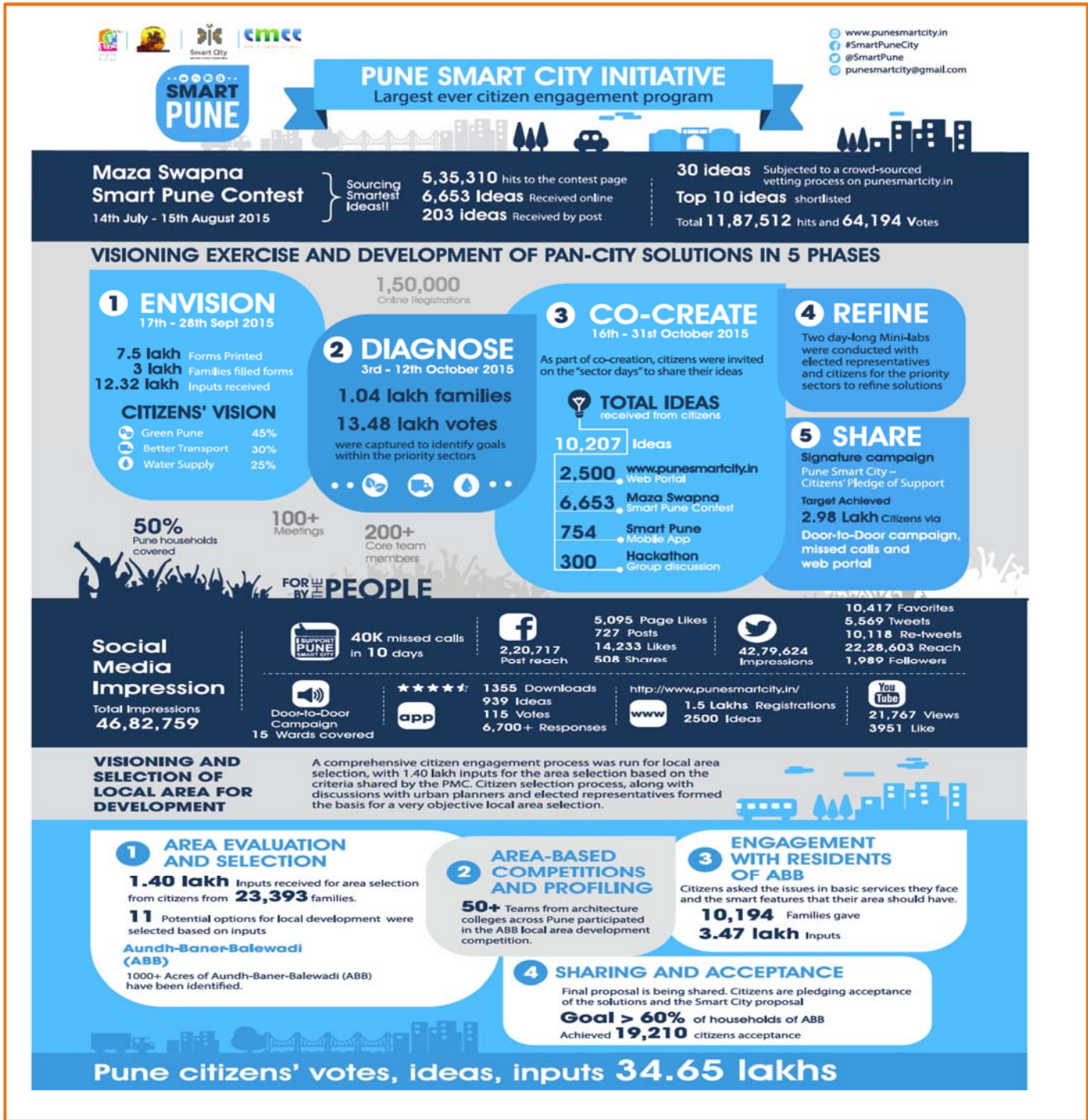


Exhibit 6: Vision and key issues



Exhibit 7: Citizen engagement: top issues by area

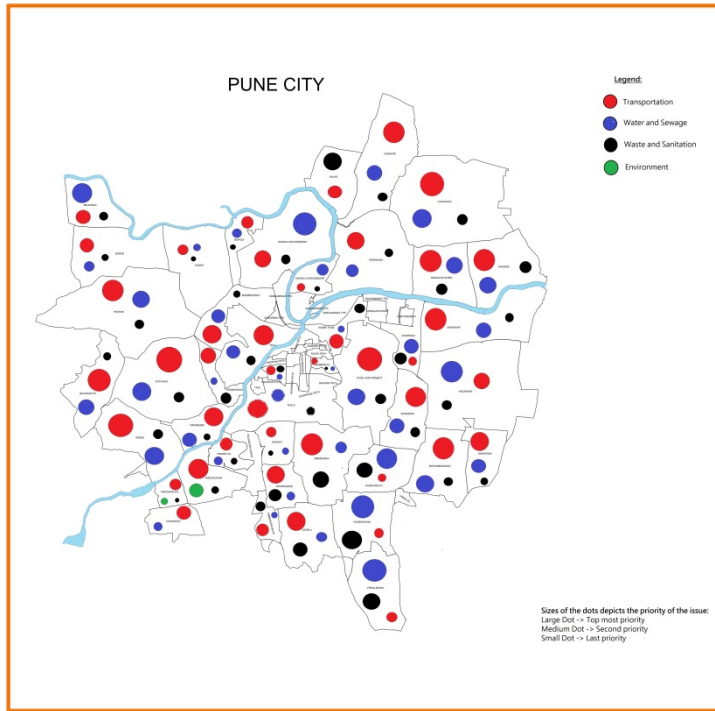


Exhibit 8: Top issues identified by citizens for solutioning



Exhibit 9: 11 contiguous areas initially shortlisted

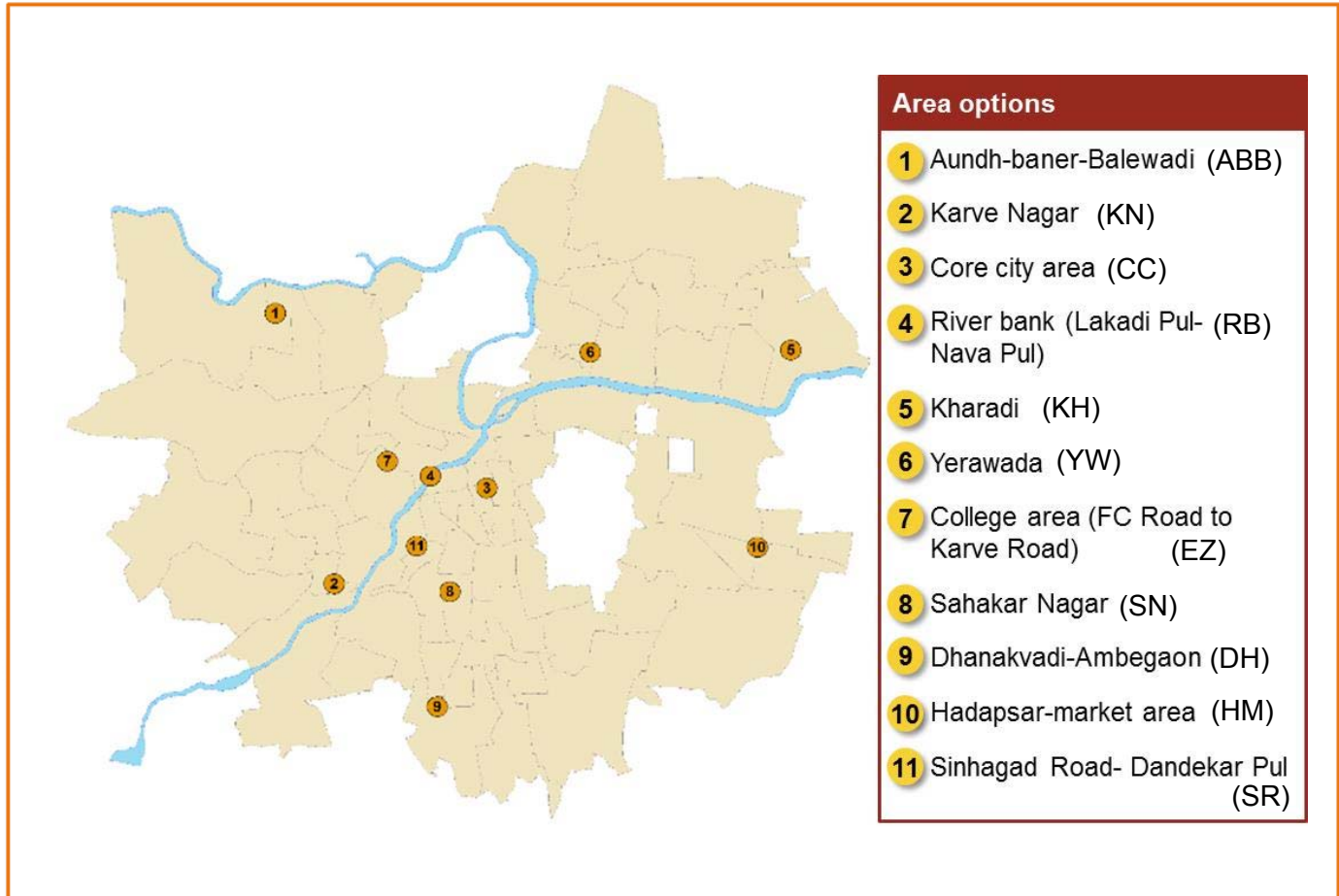


Exhibit 10.1: Criteria applied for area selection during citizen engagement

Area important for identity of Pune		Area you would like to live in		Area you would like to invest		Favourite destination for youth of Pune		Which area will benefit a larger cross section of society		Recreational hub for Pune	
Area Name	%	Area Name	%	Area Name	%	Area Name	%	Area Name	%	Area Name	%
CC	26%	ABB	17%	ABB	17%	EZ	21%	CC	15%	ABB	16%
ABB	20%	CC	15%	CC	14%	ABB	15%	ABB	12%	CC	13%
KN	10%	KN	13%	KH	13%	CC	11%	RB	10%	RB	12%
EZ	9%	EZ	8%	HM	10%	KH	8%	DH	10%	SR	10%
KH	7%	KH	8%	DH	8%	SR	7%	HM	9%	EZ	8%

Exhibit 10.2: Objective criteria applied by urban planners across 11 areas

Criteria for area selection	CC	RB	SN	KN	EZ	ABB	DH	SR	HM	YW	KH
1.Population density	H	M	M	M	L	M	H	M	M	M	L
2.Mixed Use	H	M	L	M	H	M	L	L	M	M	M
3.Identity / Heritage	H	H	M	M	H	M	L	L	L	M	L
4.Slums	L	L	L	L	L	M	M	H	H	H	M
5.Criticality to the city	H	L	M	M	H	M	H	M	M	M	L
6.Existing degree of liveability	L	M	M	H	H	H	L	M	M	L	M
7.Future proposals coming up	H	H	M	M	M	M	L	M	M	M	M
8.Replicability	H	H	H	H	L	H	M	M	M	L	H
9. Environmental concern	L	H	H	H	H	M	M	H	L	L	M
10. Ease of implementation	M	M	H	H	M	H	M	M	M	H	H
Probability of final selection	H	H	L	M	H	H	M	M	M	M	M

Legend: L: Low, M: Medium, H:High

Exhibit 11: ‘Aundh-Baner-Balewadi’ (ABB): 900 acres identified with many potential interventions possible

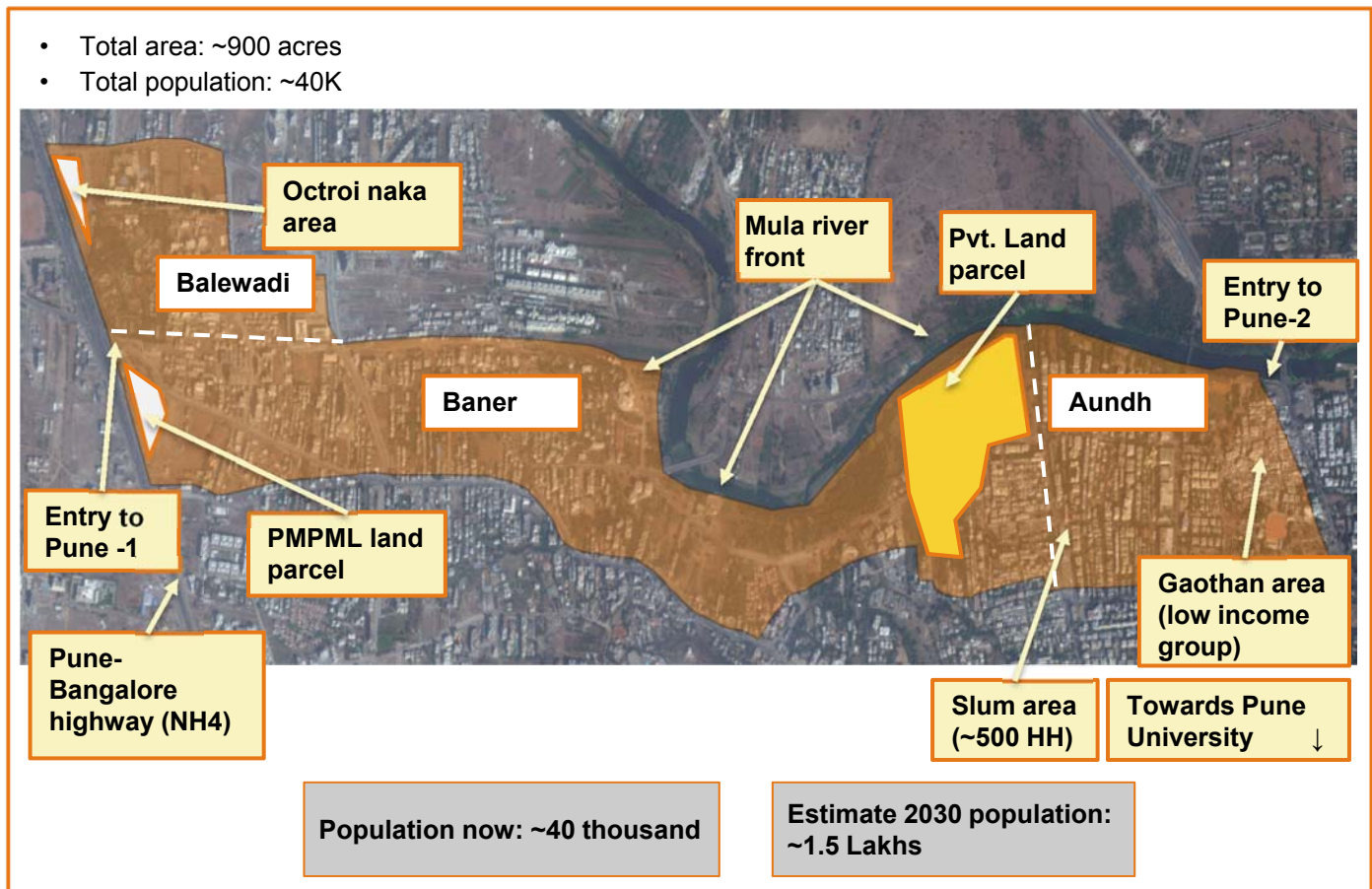


Exhibit 12: Aspirations for key metrics of livability in ABB












Sector	Metric	From	To	Benchmark
1 Transport and mobility 	• Public transport usage (% of trip share)	• 18%	• 40%	• >50%
	• Number of buses (# per Lakh population)	• 46	• 79	• >55
	• Non-motorized vehicles (NMT) usage (%)	• 30%	• 50%	• >50%
	• Average traffic speed (km/hr)	• 18	• 22-23	• -
2 Water and Sewage 	• Average water supplied (lpcd)	• 90-120	• 150	• >135
	• Water deficient areas (%)	• 60-70%	• 0%	• 0%
	• Sewage discharged into the river without treatment (%)	• 30%	• 0%	• 0%
	• Leakage and Non-revenue Water (%)	• 30%	• 15%	• <15%
3 Sanitation and waste 	• Households with rain water harvesting	• 0%	• 100%	• 100%
	• Door-to-door garbage collection coverage (%)	• 0%	• 100%	• 100%
	• Waste segregated at source (%)	• 55%	• 100%	• 100%
	• Public toilets (number per lakh of population)	• 23	• 50	• >50
4 Energy and Solar 	• Energy from renewable sources (0%)	• 0%	• 15-20%	• 20%
	• Energy efficient street-lights (% of total)	• 0%	• 100%	• 100%
5 Amenities 	• Open spaces (% of total area)	• 3%	• 10%	• 10%
	• Number of pedestrian roads	• 0	• 1	• -
	• Roads with adequate footpaths (>2 m footpath)	• 40%	• 0%	• 0%
6 Safety and security 	• CCTV security coverage	• 20%	• 100%	• 100%
	• Response time (minutes)	• 20-30	• <10	• <10
	• Number of security personnel per Lakh of population	• 60	• 120	• 136
7 E-governance and digital 	• Number of services provided via single window	• 0	• 20-25	• -
	• Public Wi-fi coverage	• 0%	• 100%	• 100%
	• Digital literacy	• 60-70%	• 100%	• 100%
8 Slum re-development 	• Number of HH living in slums	• 483	• 0	• 0
	• Unemployment (especially in slums, %)	• 6%	• 2%	• 2%
9 Affordable housing 	• # of affordable houses in the region	• 0	• 400-500	• 400-500
	• % of affordable houses in the region	• 0%	• 2%	• 10%
10 Health 	• Hospital beds per 10,000 population	• 104	• >40	• >40
11 Education 	• School area per student (sq ft of school area available per student)	• 29	• 35	• 35

Exhibit 14: Transit hub along with commercial development



Exhibit 15: Street redesign, road widening and placemaking

PERSPECTIVE OF PROPOSED BUS BAY, PARKING AND GREEN SPACE

BEFORE

PELICAN CROSSING

BEFORE

BEFORE

IMPROVED BUS BAY WITH SOLAR PANEL, PUBLIC INFORMATION SYSTEM, WI-FI AND TOILETS

BEFORE

BEFORE

SMART POLE WITH VEHICLE ACTUATED SIGNAL, CCTV & STREET LIGHT WITH SOLAR PANEL

BEFORE

BEFORE

TRAFFIC INFORMATION SYSTEM AND DIGITAL SINAGES

BEFORE

PLAN INDICATING PROPOSED IMPROVEMENTS FOR BUS BAY

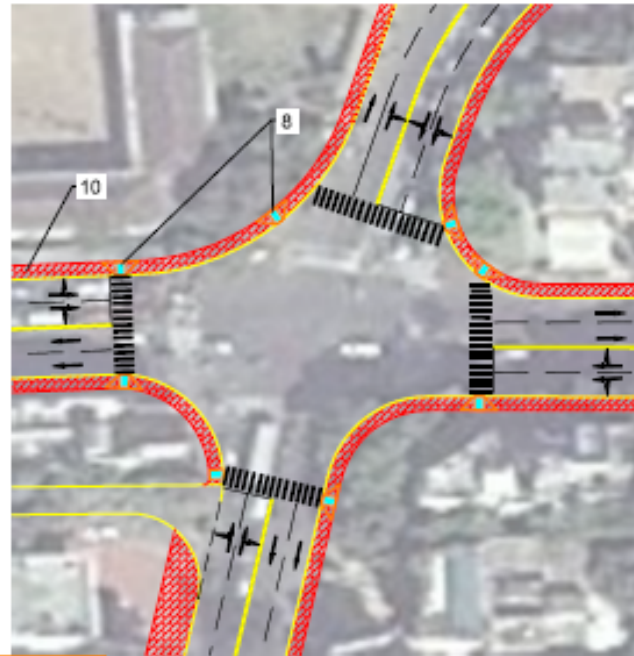
WALTER P MOORE ENGINEERING INDIA PVT. LTD.
 Down Town City Centre,
 Office No. 7B, 7th Floor,
 S, No 8-23/1/2, Near Mhatre Bridge,
 Erandwane, Pune - 411 004, INDIA
 91 9021182151

NOTES:
 THE INFORMATION SHOWN IS FOR CONCEPTUAL USE ONLY AND NOT FOR ESTIMATION & CONSTRUCTION. THESE OPTIONS WERE PREPARED WITHOUT ANY TOPOGRAPHICAL, TRAFFIC & GEOTECHNICAL DATA. THESE DRAWING SHALL NOT BE USED OR FURTHER DEVELOPED WITHOUT PRIOR CONSULTATION OF WALTER P MOORE ENGINEERING INDIA PVT.LTD.

SCALE: NTS

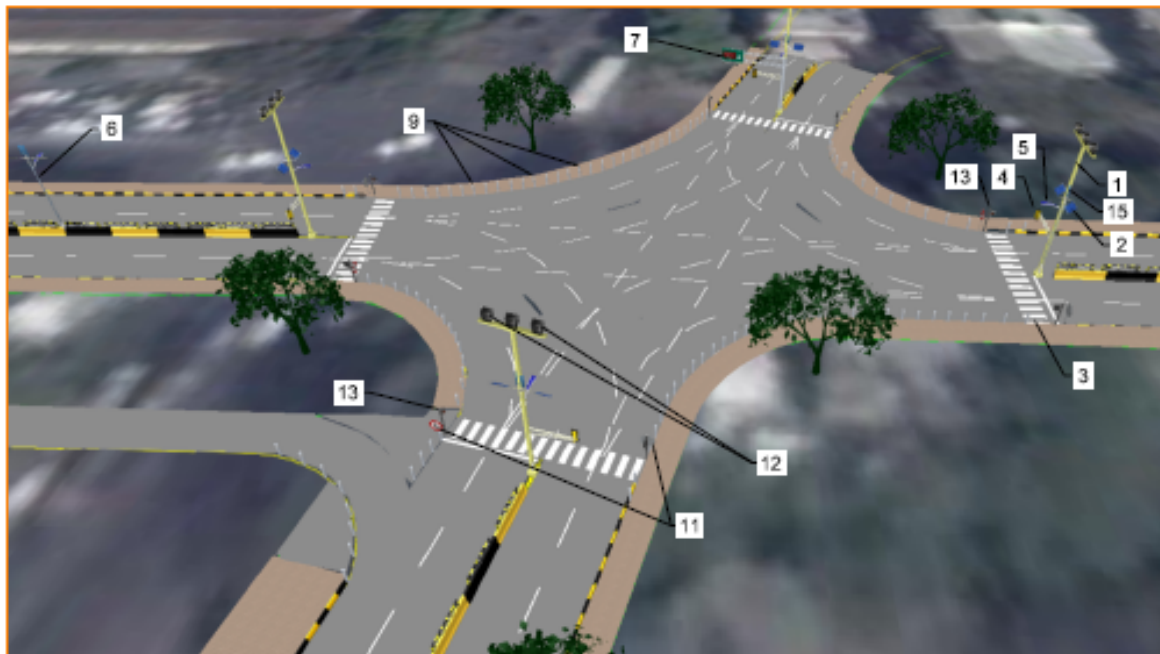
Exhibit 16: Redesign & Placemaking of Junctions

PARIHAR CHOWK INTERSECTION



LEGEND	
①	HIGH SMART POLE
②	SOLAR PANELS
③	CROSS WALK
④	SYNCHRONIZED SIGNAL & CCTV
⑤	TRAFFIC CAMERA
⑥	SMART LIGHT POLE
⑦	ITS SIGN BOARD
⑧	HANDICAP RAMP
⑨	BOLLARD
⑩	PEDESTRIAN FRIENDLY SIDEWALK
⑪	REGULATORY SIGN
⑫	STREET LUMINARIES
⑬	FLASHING CAUTION LIGHT
⑭	CIRCULATORY ISLANDS
⑮	SERVICE AREA
⑯	SOLAR BUS STOP

PROPOSED IMPROVEMENTS OVER EXISTING CONDITION



PERSPECTIVE OF PROPOSED CONDITION

Exhibit 17: Bicycle friendly redesign of roads with integrated Bicycle Network

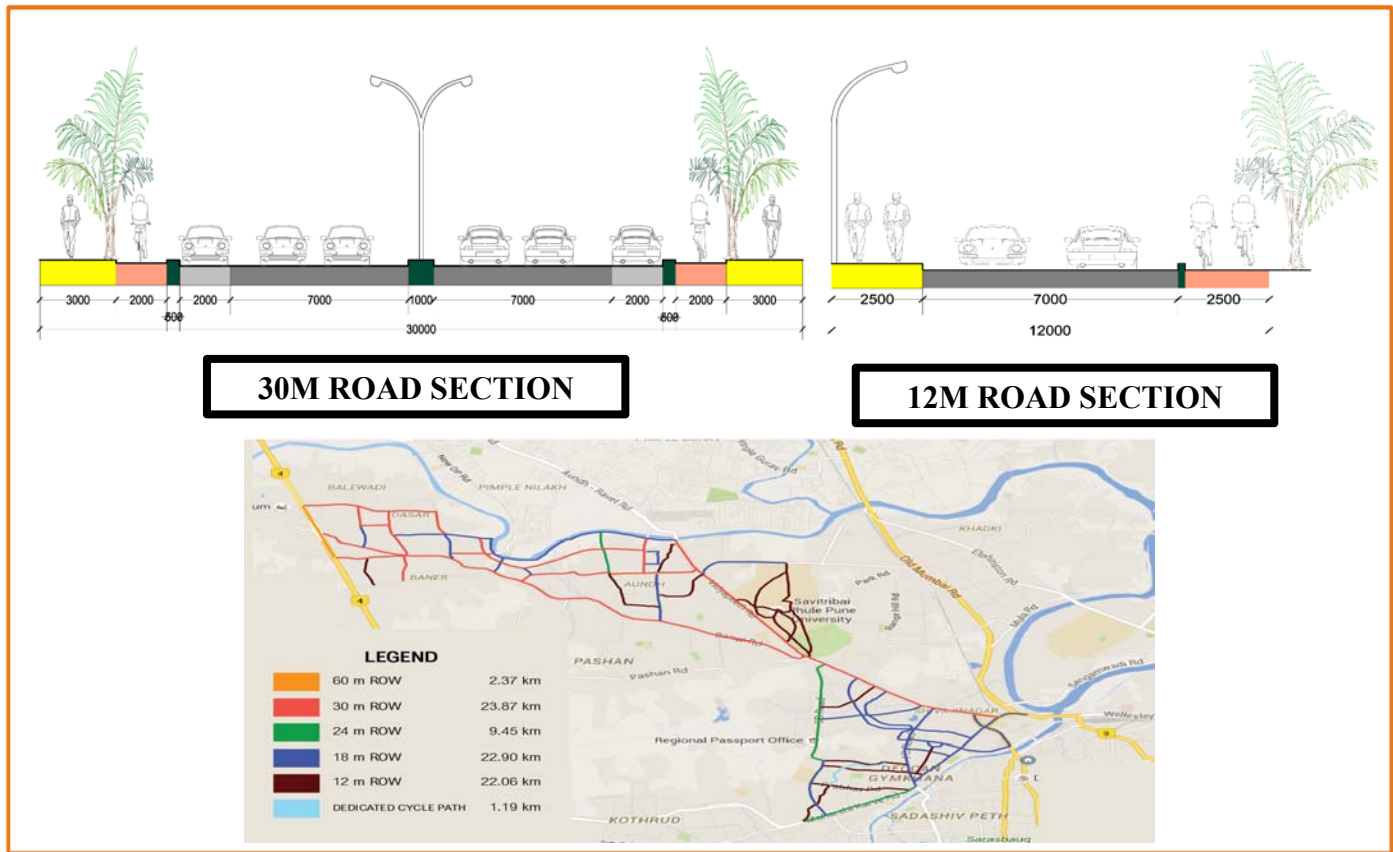


Exhibit 18: Few examples – World class amenity spaces in ABB

‘Aundh-Baner-Balewadi’ (ABB): ~7 acres of additional amenity space is planned to be used to ensure we meet the international benchmarks on Public social infrastructure

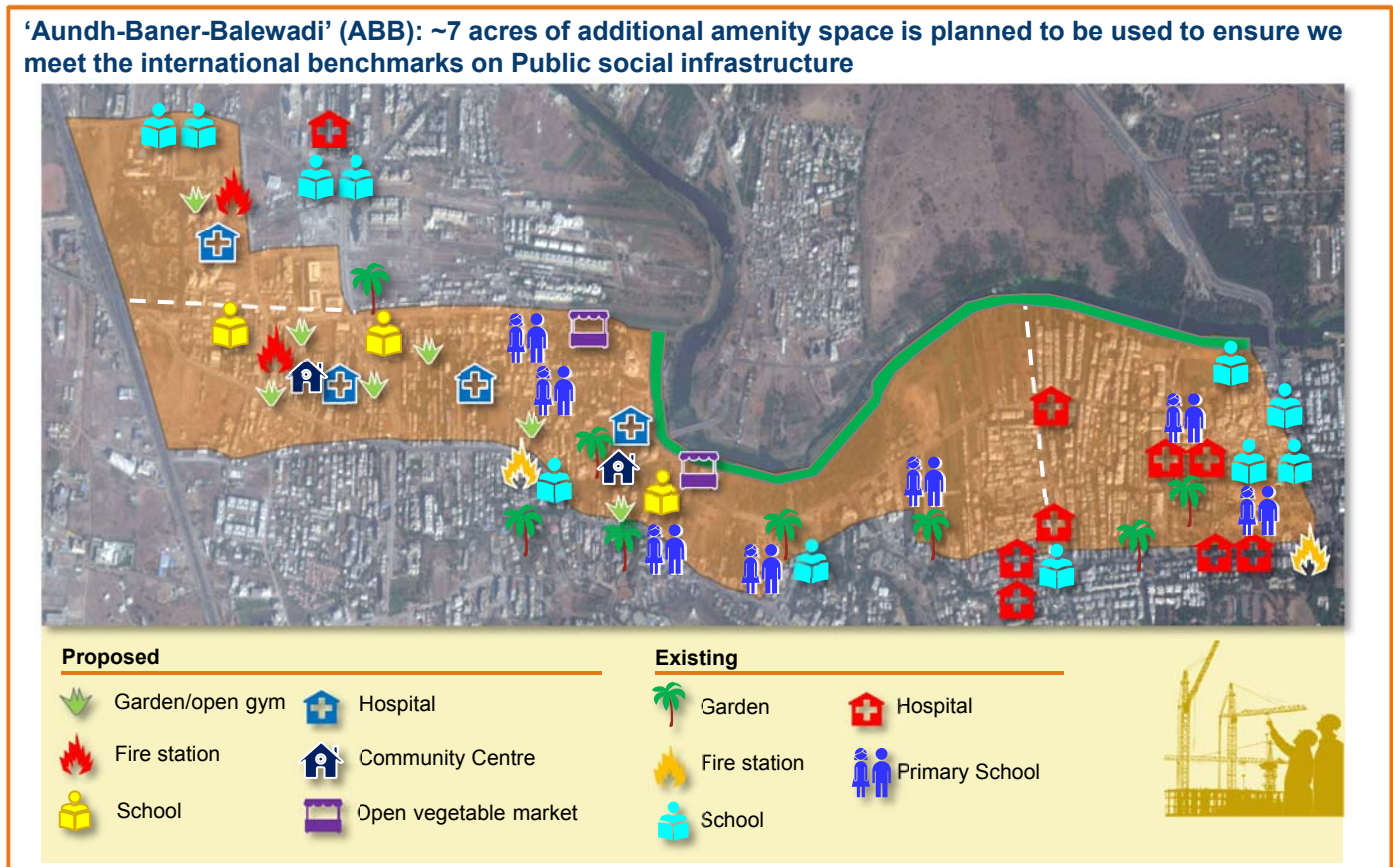


Exhibit 19: Google map traffic image at 7:30 pm on Monday

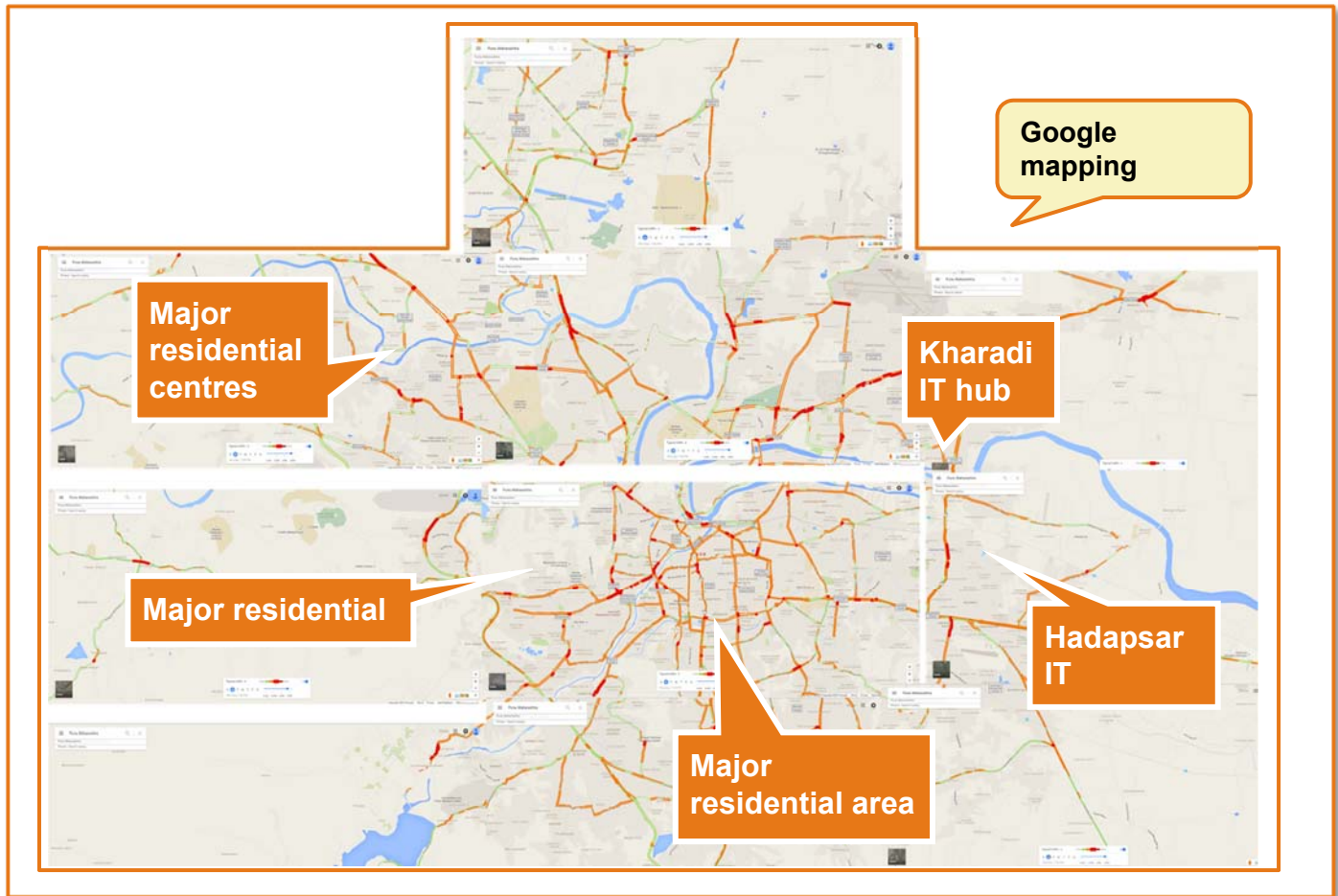


Exhibit 20: Challenge of water inequality in Pune

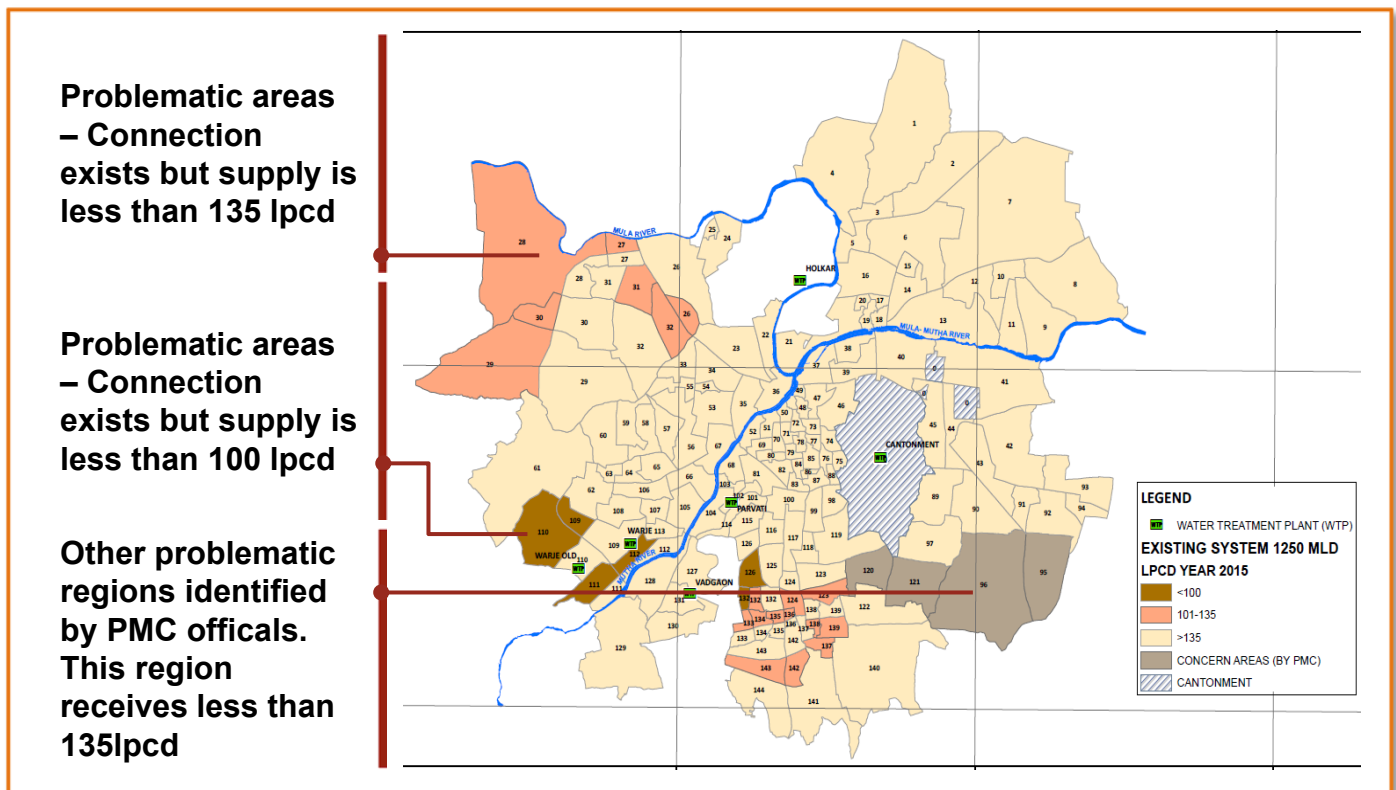


Exhibit 24: 5 DMAs to pilot 24x7 water

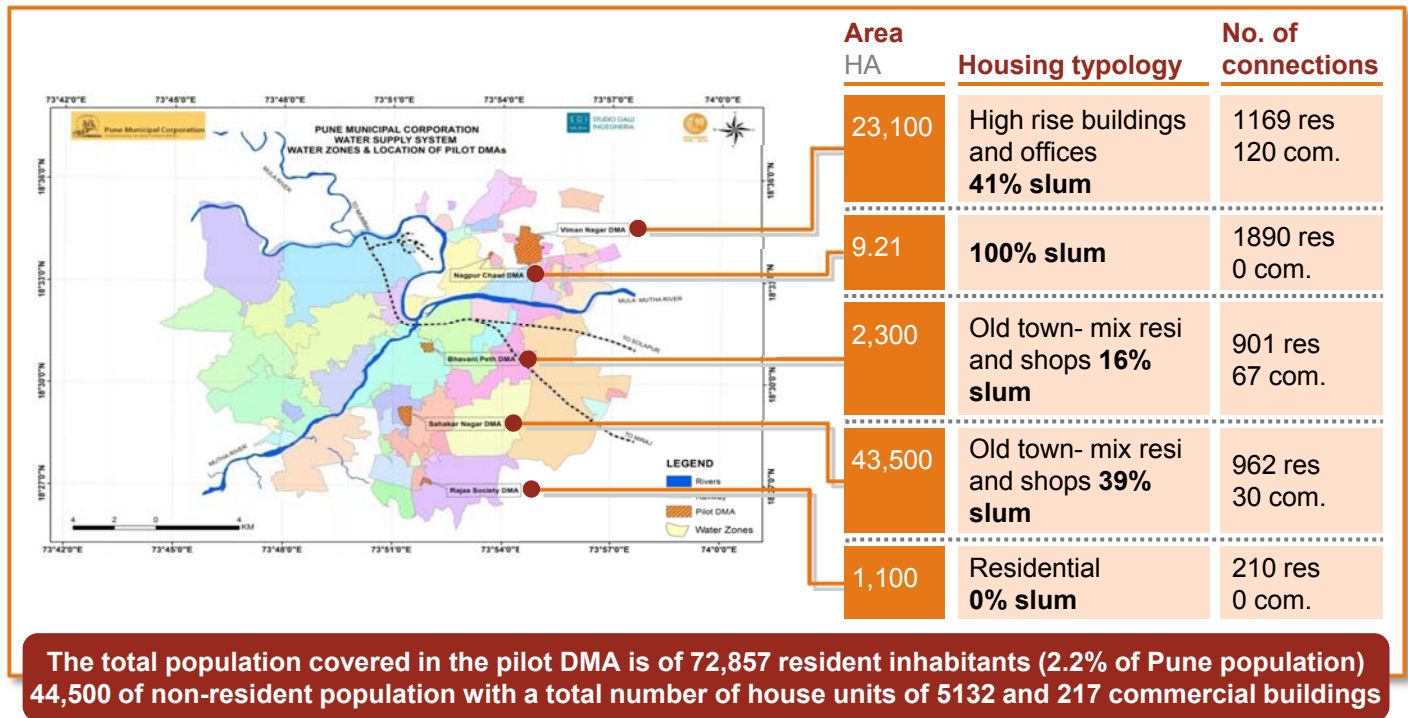
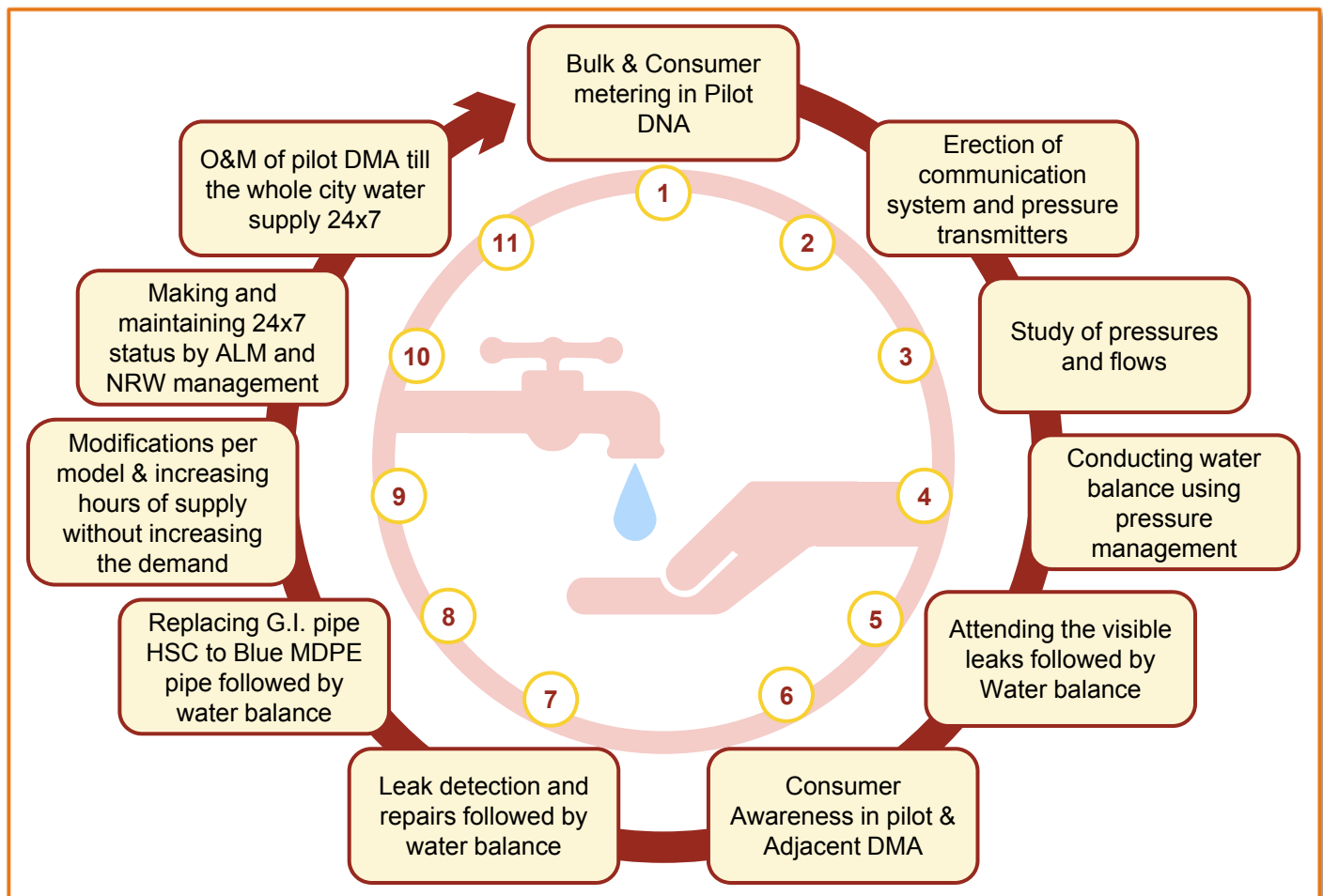


Exhibit 25: 11 steps to convert 5 DMAs into 24x7 water supply zones



SOURCE: McKinsey Team, PMC Employee Interviews, 24x7 Water Supply DPR prepared by SGI
 1 This is without accounting for hard infrastructure requirements such as reservoirs, pipelines and pumping stations

EXHIBIT 32: Detailed funding and costing of each initiative including capex, opex and revenue

FUND REQUIREMENTS	GRAND TOTAL	1,668	700	2,368					168	27	52	89		114	208	242	564	2,932
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Local-area development

Category	Smart feature	Capex SPV	Capex Non SPV	Source	Total capex	Completion date	No. of opex years	phased?	Effective # of opex yrs	Total opex / yr	Opex for SPV (cr/yr)	Revenue p.a (if any)	Other opex source p.a.	Opex remarks	Total SPV opex	Opex through revenue	Total opex others	Total opex	Lifetime cost	
1	Transport	Road and road widening	190	-	-	190	Dec-20	-	yes	2.4	15.0	-	-	15.0	PMC roads department	-	-	36	36	226
2	Transport	100 Electric buses	55	70	FAME	125	Dec-16	4.0	no	4.0	28.7	-	28.7	Revenue from operations	-	115	-	115	240	
3	Transport	Redesign of streets	189	-	-	189	Dec-17	3.0	yes	3.8	7.0	-	-	7.0	PMC roads department	-	-	26	26	215
4	Transport	Smart parking	50	-	-	50	Dec-17	3.0	no	3.0	-	-	-	Included in pan-city costing	-	-	-	-	50	
5	Transport	Footpaths (additional and retrofit)	31	-	-	31	Dec-17	3.0	yes	3.8	1.5	-	-	1.5	PMC roads department	-	-	6	6	36
6	Transport	Placemaking	30	-	-	30	Dec-17	3.0	yes	3.8	0.8	-	0.8	SPV	-	3	-	3	33	
7	Transport	Bicycles	10	-	-	10	Jun-18	2.5	no	2.5	2.2	1.5	0.7	SPV	4	2	-	6	15	
8	Transport	Bus stops (revamp 54 stations)	27	-	-	27	Sep-20	0.2	yes	2.6	1.4	1.4	-	SPV	4	-	-	4	31	
9	Transport	Junction redesign for 14 junctions	14	-	-	14	Dec-17	3.0	yes	3.8	0.7	-	-	0.7	PMC roads department	-	-	3	3	17
10	Transport	Non-motorised street	5	-	-	5	Dec-17	3.0	no	3.0	0.5	4.3	4.8	PMC roads department	-	13	14	-	2	7
11	Transport	BRT	210	-	-	210	Sep-20	0.2	no	0.2	10.5	-	-	10.5	PMPML	-	-	3	3	213
12	Transport	Express airport services	3	-	-	3	Dec-16	4.0	no	4.0	0.1	-	-	0.1	SPV	-	-	1	1	3
13	Transport	e-rickshaws	1	-	-	1	Dec-16	4.0	no	4.0	0.1	-	-	0.1	Private operator	-	-	0	0	1
14	Water	Waste water recycling	-	99	JICA-NRCP	99	Oct-19	1.2	no	1.2	5.0	-	-	5.0	PMC water department	-	-	6	6	105
15	Water	Storm water use	43	-	-	43	Dec-17	3.0	no	3.0	0.3	-	-	0.3	PMC water department	-	-	1	1	44
16	Water	Adequate water supply	-	87	AMRUT/ PMC	87	Dec-17	3.0	no	3.0	4.4	-	-	4.4	PMC water department	-	-	13	13	100
17	Water	Rainwater harvesting	6	-	-	6	Mar-17	3.8	yes	4.3	0.8	-	-	0.8	Housing societies	-	-	3	3	10
18	Water	Smart metering (water)	22	-	-	22	Dec-17	3.0	yes	3.8	0.4	-	-	0.4	PMC water department	-	-	2	2	24
19	Water	Rootzone to clean water	8	-	-	8	Jun-17	3.5	yes	4.0	0.2	0.2	-	SPV	1	-	-	1	9	
20	Water	Solid waste management	13	3	SBM	16	Jun-17	3.5	no	3.5	6.0	2.0	2.0	2.0	PMC solid waste department	7	7	7	21	37
21	Water	Sanitation	2	-	-	2	May-17	3.6	no	3.6	0.1	-	-	0.1	NGOs and CSR	-	-	0	0	2
22	Electricity & Solar	Electricity distribution - Smart grid and metering	60	304	MSEDCL/ IPDS/ NSGM	364	Mar-19	1.8	yes	3.1	18.2	-	-	18.2	MSEDCL	-	-	56	56	420
23	Electricity & Solar	Solar energy supply	-	-	-	-	Dec-16	4.0	yes	4.5	-	-	-	-	Private operator	-	-	-	-	-
24	Electricity & Solar	Street lighting	-	-	-	-	Sep-16	4.3	no	4.3	-	-	-	-	Private operator	-	-	-	-	-
25	Livability	Security	27	-	-	27	Jan-17	3.9	no	3.9	1.9	1.9	-	SPV	8	-	-	8	35	
26	Livability	Riverfront development	100	-	-	100	Dec-18	2.0	no	2.0	2.5	2.5	-	spv	5	-	-	5	105	
27	Livability	Open spaces	4	-	-	4	Dec-16	4.0	no	4.0	0.2	-	-	0.2	PMC garden department	-	-	1	1	5
28	Livability	Fire stations - 2	3	-	-	3	Dec-17	3.0	no	3.0	0.2	-	-	0.2	Fire department	-	-	0	0	3
29	Slum dev and affordable	Low income skill development and healthcare	-	-	-	-	Jun-17	3.5	no	5.0	4.0	4.0	-	SPV	20	-	-	20	20	
30	Slum dev and affordable	Build affordable housing	40	-	-	40	Dec-20	-	no	-	0.8	0.8	-	SPV	-	-	-	-	40	
31	Egov	e-gov	-	-	-	-	Dec-16	4.0	no	4.0	-	-	-	-	Included in pan-city costing	-	-	-	-	-
32	Egov	IT connectivity	9	137	PPP	146	Aug-17	3.3	no	3.3	1.5	-	-	1.5	Part of contract upfront	-	-	5	5	151
33	Transit hub	Transit hub	-	-	-	-	Nov-18	2.1	no	2.1	-	-	-	SPV	-	-	-	-	-	
34	Transit hub	Start up zone	-	-	-	-	Nov-18	2.1	no	2.1	-	-	-	SPV	-	-	-	-	-	
TOTAL		1,151	700		1,851					115	10	37	68		35	141	169	345	2,196	

Pan-city transport

Category	Smart feature	Capex SPV	Capex Non SPV	Source	Total capex	Completion date	Number of opex	phased?	Effective # of opex yrs	Total opex / yr	Opex for SPV (cr/yr)	Revenue p.a (if any)	Other opex source p.a.	Opex remarks	Total SPV opex	Opex through revenue	Total opex others	Total opex	Lifetime cost	
35	Transport	Adaptive Traffic Control System	123	-	-	123	Jun-18	2.5	yes	3.3	-	-	-	Part of capex	-	-	-	-	123	
36	Transport	Bus System ITMS	70	-	-	70	Apr-18	2.7	yes	3.4	10.0	-	4.2	PMPML	-	14	20	34	105	
37	Transport	Command Control Center	42	-	-	42	Jun-18	2.5	no	2.5	2.5	2.5	-	SPV	6	-	-	6	48	
38	Transport	Total Smart Parking	15	-	-	15	Apr-19	5.0	no	5.0	9.3	1.1	10.5	SPV	-	6	52	-	47	
39	Transport	Intelligent Road Management	3	-	-	3	Apr-17	3.7	no	3.7	0.5	-	-	0.5	PMC	-	-	2	2	5
40	Transport	Citilogik Solution	18	-	-	18	Dec-16	4.0	no	4.0	2.4	-	-	2.4	PMC	-	-	10	10	28
41	Transport	e-Chalan	1	-	-	1	Dec-16	4.0	no	4.0	2.0	-	-	2.0	Traffic police	-	-	8	8	9
42	Transport	Connectivity Costs	-	-	-	-	Jan-16	5.0	no	5.0	3.0	3.0	-	SPV	15	-	-	15	15	
TOTAL		272	-		272					30	4	15	11		16	67	39	122	393	

Pan-city water

Category	Smart feature	Capex SPV	Capex Non SPV	Source	Total capex	Completion date	Number of opex	phased?	Effective # of opex yrs	Total opex / yr	Opex for SPV (cr/yr)	Revenue p.a (if any)	Other opex source p.a.	Opex remarks	Total SPV opex	Opex through revenue	Total opex others	Total opex	Lifetime cost	
43	Water	Pilot DMA for 24X7 Water	22	-	-	22	Dec-17	3.0	no	3.0	4.0	-	-	4.0	PMC water department	-	-	12	12	34
44	Water	Bulk Meters	83	-	-	83	Dec-17	3.0	yes	3.8	0.8	-	-	0.8	PMC water department	-	-	3	3	86
45	Water	Helium leak identification	19	-	-	19	Dec-17	3.0	no	3.0	1.0	-	-	1.0	PMC water department	-	-	3	3	22
46	Water	Smart Commercial Meters	60	-	-	60	Dec-17	3.0	yes	3.8	2.0	-	-	2.0	PMC water department	-	-	8	8	68
47	Water	Smart Domestic Meters	20	-	-	20	Dec-17	3.0	yes	3.8	2.0	-	-	2.0	PMC water department	-	-	8	8	28
48	Water	Customer Mapping and Survey	5	-	-	5	Dec-15	3.7	yes	4.2	0.1	-	-	0.1	PMC water department	-	-	1	1	6
49	Water	Naidu STP Energy Generation	6	-	-	6	Feb-17	3.8	no	3.8	0.2	-	-	0.2	PMC water department	-	-	1	1	7
50	Water	Mobile app and website	1	-	-	1	Dec-16	4.0	no	4.0	0.7	0.7	-	SPV	3	-	-	3	4	
51	Water	Online bill payment	1	-	-	1	Dec-16	4.0	no	4.0	0.1	0.1	-	SPV	0	-	-	0	1	
52	Water	Consultancy service	2	-	-	2	Dec-20	-	no	0.0	0.2	0.2	-	SPV	-	-	-	-	2	
53	Water	Consumer Awareness	20	-	-	20	Jan-16	5.0	no	5.0	-	-	-	-	-	-	-	-	20	
TOTAL		240	-		240					11	1	-	10		3	-	34	38	277	

Other Expenses

Category	Smart feature	Capex SPV	Capex Non SPV	Source	Total capex	Completion date	Number of opex	phased?	Effective # of opex yrs	Total opex / yr	Opex for SPV (cr/yr)	Revenue p.a (if any)	Other source	Opex remarks	Total SPV opex	Total revenue	Total opex others	Total opex	Lifetime cost
Admin and Office		5	-	-	5					12.0	12.0	-	-	SPV	60	-	-	60	65
TOTAL		5	-		5					12	12	-	-	SPV	60	-	-	60	65

Sources of Funds

Source	Amount (cr.)
1 Smart City Mission	1000
2 Other missions	700
3 Additional revenue	208
4 Land Monetisation	1000
5 CSR Funding	200
Total	3108

Exhibit 26: Integrated Solutions for Aundh Baner Balewadi

- Total area: ~900 acres
- Total population: ~40K

Transit hub at entry point of Pune with access to long distance buses



A suite of citizen apps for grievance redressal and IOC



8 KM BRT extension with direct access to Hinjewadi (IT hub)



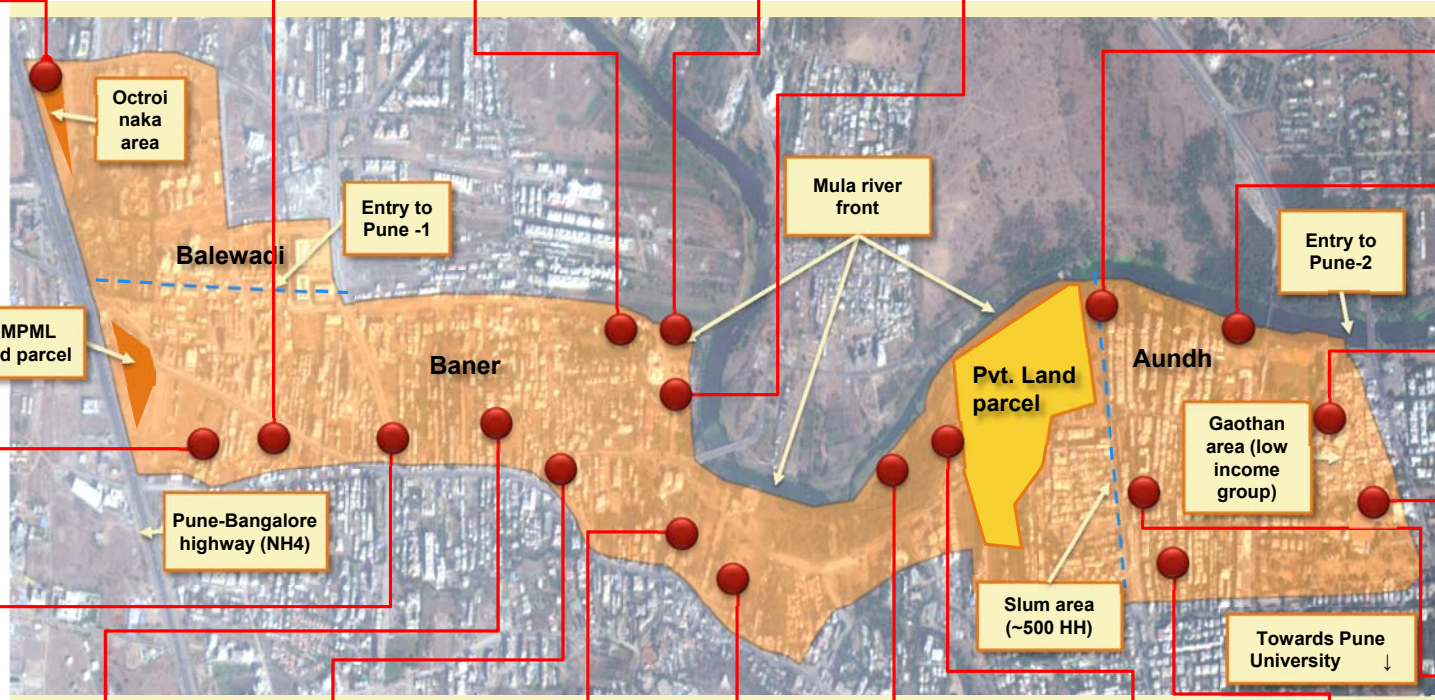
100 electric buses to complement existing buses for ABB-Hinjewadi connectivity



NMT focus through PBS with 40 stations, dedicated 42 km cycle tracks, and redesign of 60 km footpath, 15 junctions and 27 km of streets



100% differently-abled friendly pathways



100% smart bulk, commercial and domestic metering



Rainwater harvesting in certain buildings



Zero waste and garbage (RFID tracking of garbage trucks)



10 acre start-up zone and 36 acres commercial space to create 45,000+ jobs by 2030 to promote mixed use development and walk-to-work



World class amenity spaces in ABB



ABB-Punetel Card for a connected community



Seamless wi-fi connectivity at 1Mbps – 100+ access points for 10,000 simultaneous logins



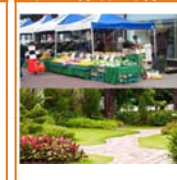
Solar roof tops to contribute 15% of energy requirements



Smart street lights with 85% LED lamps to bring 30% energy savings CCTV camera



Drive open space innovation: open space increase from 4% to 10%



3.5 km riverfront - walking promenade, recreation and entertainment zone



Slum free ABB region by redevelopment of 500 slum households



Additional 3 schools with international standards

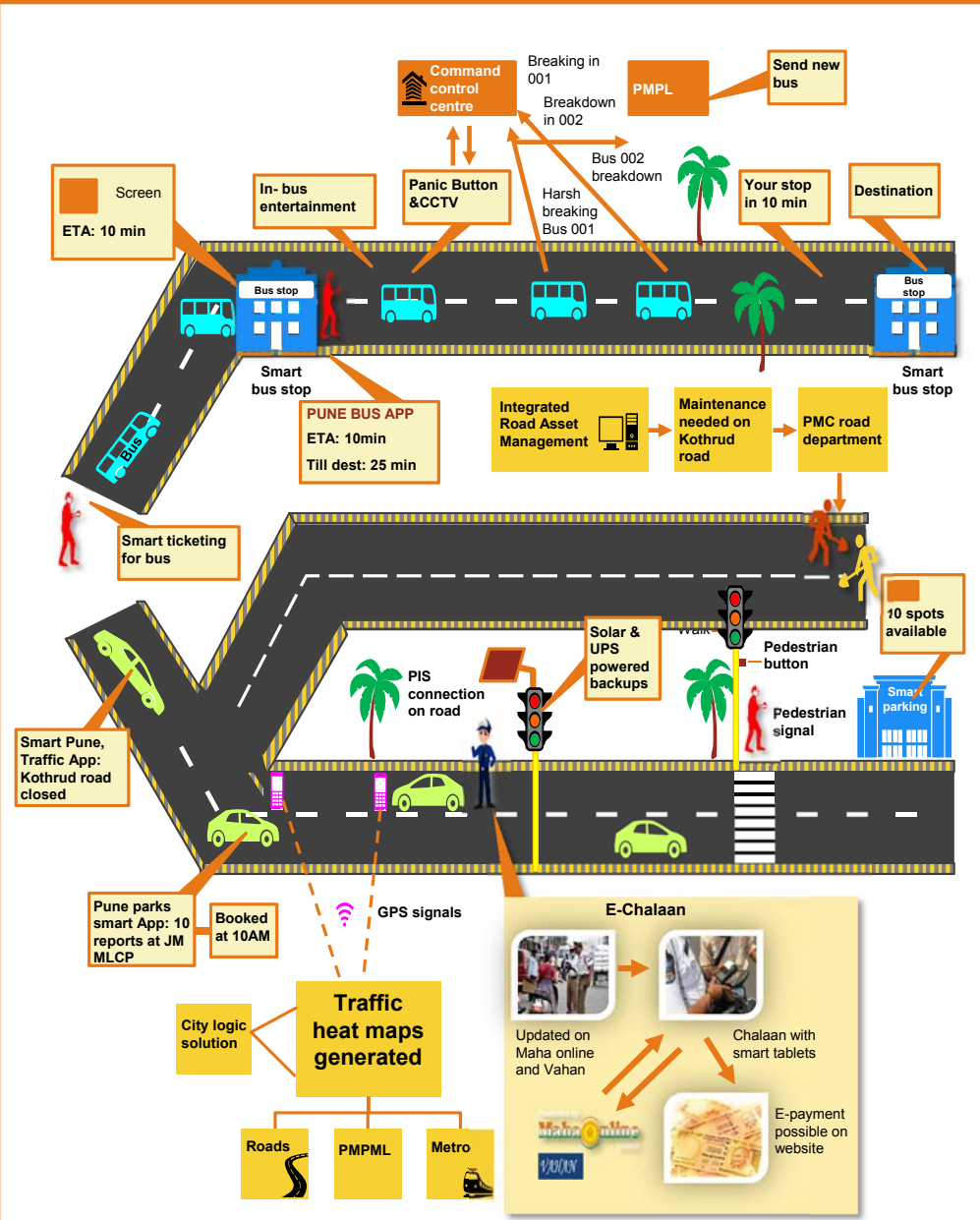


Population now: ~40 thousand

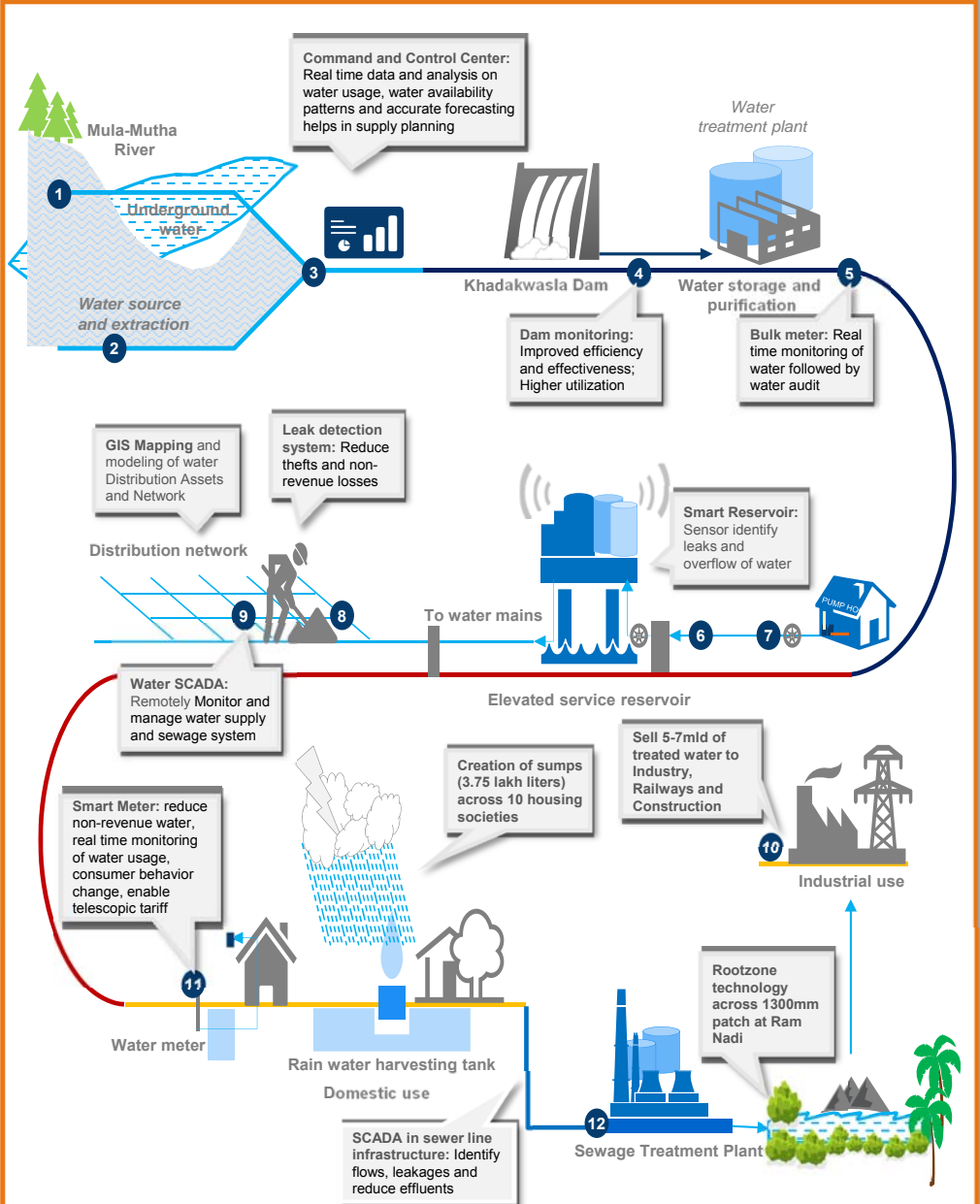
Estimate 2030 population: ~1.5 Lakhs

Exhibit 27: Integrated Pan City Solutions

27.1: Transport



27.2: Water



नगरसचिव कार्यालय

**पुणे महानगरपालिका
महानगरपालिका सभा ठराव**

सभा क्रमांक :- ८३

दिनांक :- १४/१२/२०१५

विषय क्रमांक:- ६५२

ठराव क्रमांक:- ६४९

खाते - मा.महा.आयुक्त

- संदर्भ - १) महाराष्ट्र शासन परिपत्रक क्र. स्मार्ट सिटी -२०१५/प्र.क्र.१३०/नवि -३३, दि.१/७/२०१५.
२) केंद्र शासनाकडून स्मार्ट सिटी बाबत प्राप्त मार्गदर्शक सूचना.
३) मा. महा. आयुक्त यांचे जा.क्र.मआ/उआ(वि)/६७४, दिनांक २/१२/२०१५ चे पत्र.
४) स्थायी समिती ठ.क्र.१७३३, दि.२/१२/२०१५
५) मा.महा.आयुक्त यांचे जा.क्र.उआवि/५६५, दि.८/१२/२०१५ चे पत्र.
६) मा.सौ.अश्विनी कदम, अध्यक्ष, स्थायी समिती, मा.अशोक हरणावळ, मा.पृथ्वीराज सुतार, मा.दिपक मानकर, मा.आप्पा रेणूसे, मा.विशाल तांबे, मा.सुभाष जगताप, मा.बाबूराव चांदेरे, मा.अविनाश बागवे, मा.चंद्रशेखर निम्हण व मा.सौ.संगिता गायकवाड यांची दि. १४/१२/२०१५ ची उपसूचना.
७) मा.सौ.सुनिता गलांडे, मा.दत्ता बहिरट, मा.महेंद्र पठारे, मा.सौ.नंदा लोणकर, मा.सचिन भगत, मा.सौ.संगिता तिकोणे व मा.सौ.अनिता डाखवे यांची दि. १४/१२/२०१५ ची उपसूचना.
८) मा.राजेंद्र वागसकर, मा.वसंत मोरे, मा.रविंद्र धंगेकर, मा.बाळा शेडगे, मा.अनिल राणे व मा.राहुल तुपेरे यांची दि. १४/१२/२०१५ ची उपसूचना.
९) मा.राजू पवार, मा.युगंधरा चाकणकर व मा.श्रीमती अर्चना कांबळे यांची दि. १४/१२/२०१५ ची उपसूचना.
१०) मा.अॅड.अभय छाजेड व मा.सौ.जयश्री मारणे, मा.सौ.सुनिता साळुंके व मा.सौ.आशा साने यांची दि. १४/१२/२०१५ ची उपसूचना.

मा. महा. आयुक्त यांनी दिलेली कारणे व केलेली शिफारस विचारात घेऊन -

केंद्र शासन पुरस्कृत स्मार्ट सिटी अभियानांतर्गत पुणे शहराचा "स्मार्ट सिटी प्रस्ताव /अहवाल " मा. राज्य शासनामार्फत मा. केंद्रशासनाकडे पाठविण्यास तसेच स्मार्ट सिटी अभियानाच्या विशेष उद्देश वाहन (एस.पी.व्ही.) च्या निर्मितीस, रचनेस व तत्वास खालील बदलासह मान्यता देण्यात येत आहे.

संदर्भ क्र.६ च्या उपसूचनेनुसार -

- १) जर दोन वर्षांचे कालावधीनंतर एसपीव्ही ही अपेक्षेप्रमाणे कामकाज करीत नाही असे आढळून आल्यास, कायद्याप्रमाणे एसपीव्ही बंद करण्याची मुभा पुणे महानगरपालिकेला राहिल.
- २) पुणे स्मार्ट सिटी मिशनसाठीच्या विशेष उद्देश वाहनाची (एस.पी.व्ही) रचना व तत्वेच्या कलम ६ अधिकारांचे पुनः प्रदान मधील " विविध अधिनियम / नियम अंतर्गत पुणे महानगरपालिकेला असलेले निर्णय घेण्याचे अधिकार एस.पी.व्ही.च्या मुख्य कार्यकारी अधिकारी (सी.ई.ओ.) यांना प्रदान करणे " ही अट रद्द करण्यात यावी.
- ३) एस.पी.व्ही.ने कर्ज घेताना सदर बाबत महानगरपालिकेची मान्यता घेणे बंधनकारक राहिल. तसेच सदरबाबत मुख्यमापनाचा व योग्य त्या अटी टाकण्याचा देखिल अधिकार पुणे महानगरपालिकेस राहिल. मान्यता मिळाल्यास व अटीची पूर्तता झाल्यानंतरच होईल, एस.पी.व्ही.ला कर्ज घेता येईल. संबंधीत दुरुस्ती कलम ३ (अ) मध्ये करण्यात यावी.
- ४) एस.पी.व्ही क्षेत्रामधील महानगरपालिकेची अगर एस.पी.व्ही.च्या मालकीची किंवा त्यांनी निर्मित केलेली कुठलीही मालमत्ता गहाण ठेवण्याचे अधिकार एस.पी.व्ही.ला असणार नाहीत. तशी दुरुस्ती कलम ७ मध्ये करण्यात यावी.
- ५) एस.पी.व्ही क्षेत्रातील सुविधा-क्षेत्राचा वापर हा सर्वसाधारणपणे शहराची आवश्यकता लक्षात घेता मास्टर प्लॅनप्रमाणे करणे एस.पी.व्ही.वर बंधनकारक राहिल.
- ६) एस.पी.व्ही.ने पुणे महानगरपालिकेला त्रैमासिक व वार्षिक आर्थिक अहवाल अवलोकनार्थ सादर करावा, अशी अट अंतर्भूत करावी.
- ७) कलम ५ मधील प्रशासकीय मंडळाच्या रचनेत एस.पी.व्ही.चे व्यवस्थापन / गव्हर्नस प्रशासकीय मंडळ " महापौर, स्थायी समिती अध्यक्ष आणि विरोधी पक्षनेते हे तिघे आणि तीन इतर पक्षाचे नेते (या तिघा पक्षा व्यतिरिक्त पुणे मनपा मध्ये १० पेक्षा जास्त नगरसेवक असलेल्या इतर तीन पक्षांचे) हे एस.पी.व्ही.मध्ये पुणे महानगरपालिकेचे प्रतिनिधीत्व करतील तसेच "

नगरसचिव कार्यालय

पुणे महानगरपालिका
महानगरपालिका सभा ठराव

सभा क्रमांक :- ८३

दिनांक :- १४/१२/२०१५

विषय क्रमांक :- ६५२

ठराव क्रमांक :- ६४९

खाते - मा.महा.आयुक्त

(२)

याऐवजी

" महापौर, स्थायी समिती अध्यक्ष आणि विरोधी पक्षनेते हे तिघे एस.पी.व्ही.मध्ये पदसिध्द संचालक असतील व त्याशिवाय महानगरपालिकेतून निवडून आलेल्या नगरसेवकांच्या संख्याबळाच्या कोटयानुसार एस.पी.व्ही.मध्ये पुणे महानगरपालिकेचे सभासद प्रतिनिधीत्व करतील. या ५ पैकी सभागृहनेता व उपमहापौर संचालक असतील व ३ इतर पक्षांचे गटनेते असतील.

८) कलम ५ मधील प्रशासकीय मंडळाच्या रचनेत एस.पी.व्ही.चे व्यवस्थापन / गव्हर्नस प्रशासकीय मंडळ

" जिल्हाधिकारी पुणे, पोलीस आयुक्त पुणे शहर, पी.एम.पी.एम.एल.चे सीएमडी आणि महाराष्ट्र राज्य विद्युत वितरण कंपनी, पुणेचे मुख्य अभियंता हे राज्य सरकारचे प्रतिनिधीत्व करतील आणि दोन इतर सदरचे जे स्वतंत्र संचालक असतील ज्यांची निवड कॉर्पोरेट व्यवहार मंत्रालयाद्वारे ठेवण्यात आलेल्या डेटा बँक मधून केली जाईल आणि पुण्याच्या प्रतिष्ठित नागरिकांना ज्यांनी वेगवेगळ्या कंपन्यांच्या मंडळामध्ये भारतीय सेक्युरिटी ऍण्ड एक्सॅज मंडळाच्या (रोखे आणि विनिमय) सूचिबध्द केलेल्या करारनाम्यातील कलम ४९ ची पूर्तता करून आदर्शपणे काम केले असेल अशांना किंवा आंतरराष्ट्रीय दर्जाच्या व्यावसायिकांना प्राधान्य दिले जाईल.

त्याऐवजी

"जिल्हाधिकारी / पोलीस आयुक्त, दोन स्वतंत्र संचालक ज्यांची निवड कॉर्पोरेट व्यवहार मंत्रालयाद्वारे ठेवण्यात आलेल्या डेटा बँक मधून केली जाईल आणि पुण्याच्या प्रतिष्ठित नागरिकांना ज्यांनी वेगवेगळ्या कंपन्यांच्या मंडळामध्ये भारतीय सेक्युरिटी ऍण्ड एक्सॅज मंडळाच्या (रोखे आणि विनिमय) सूचिबध्द केलेल्या करारनाम्यातील कलम ४९ ची पूर्तता करून आदर्शपणे काम केले असेल अशांना किंवा आंतरराष्ट्रीय दर्जाच्या व्यावसायिकांना प्राधान्य दिले जाईल" व उर्वरित हे राज्य शासनाला योग्य वाटतील अशा सभासदांची निवड करण्यात यावी."

९) पुणे शहरातील पॅन सिटी उपक्रमामध्ये वाहतुक व पाणी आणि मलनिःनस्सारण यांचा समावेश करण्यात आलेला आहे. सदर पॅन सिटी उपक्रमामध्ये कचरा व स्वच्छता या विभागाचा देखील समावेश करण्यात यावा.

संदर्भ क्र.७ च्या उपसूचनेनुसार -

पुणे महानगरपालिकेच्या स्मार्ट सिटी योजनेतील एस.पी.व्ही.कंपनीचे अध्यक्ष मा.महापौर असतील.

संदर्भ क्र.८ च्या उपसूचनेनुसार -

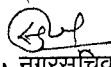
- १) महानगरपालिकेचा व कंपनीचा स्वतंत्र लोगो असावा.
- २) या कंपनीस वेगळे कर गोळा करण्याचे अधिकार नसावेत.
- ३) औंध, बाणेर, बालेवाडी या भागात जादा कर आकारणी करताना ती मुख्य सभेच्या मान्यतेशिवाय करता येणार नाही.

संदर्भ क्र.९ च्या उपसूचनेनुसार -

- १) स्मार्ट सिटीसाठी नागरी सुविधेसाठी एक खिडकी योजना करावी.
- २) स्मार्ट सिटी योजनेतून सामान्य जनतेवर इतर मिळकत कर बोजा देवू नये.
- ३) नागरिकांच्या मूलभूत गरजा पाणी, रस्ते, कचरा, ड्रेनेज हे काम करत असताना त्यात बारकाईने लक्ष देऊन काम करणे व कामाचा दर्जा उत्तम ठेवावा.


संदर्भ क्र.१० च्या उपसूचनेनुसार -

प्रगत महानगरपालिकांमध्ये एस.पी.व्ही.असावी की नाही याचा निर्णय त्या त्या महानगरपालिकांनी घ्यावा अशी चर्चा आणि निर्णय केंद्र सरकारकडून करून आणणार आहेत. म्हणजेच जर भविष्यात असा निर्णय झाल्यास पुणे महानगरपालिकेची एस.पी.व्ही.ही कंपनी संपुष्टात येईल. परंतु स्मार्ट सिटी योजना ही चालू राहील.


नगरसचिव,
पुणे महानगरपालिका.

मा. उप आयुक्त (वि)
मा.
मा.

यांजकडेस,
कार्यवाहीबाबत मा. अति.महा. आयुक्त (वि) (ज) (इ) यांचे
मार्फत मा. महा.आयुक्त यांचे आदेश घ्यावेत ही विनंती.

for 
अधिक्षक
महापालिका आयुक्त कार्यालय
पुणे महानगरपालिका

Office Of Municipal Secretary

Pune Municipal Corporation
General Body Resolution

Meeting No :- 83

Date :- 14/12/2015

Subject No :-652

Resolution No:- 649

Department - Office Of
Municipal Commissioner

- Reference-**
- 1) Government Of Maharashtra Resolution No Smart City - 2015/ प्र.क्र.130/नवि - 33, Dated. 1/7/2015
 - 2) Smart City Mission Guideline Issued By Government Of India
 - 3) Municipal Commissioner Letter No. MC/Dy.C (Spl) /674, Dated 2/12/2015
 - 4) Standing Committee Resolution No.1733, Dated - 2/12/2015
 - 5) Municipal Commissioner Letter No. MC 565, Dated 08/12/2015
 - 6) The Sub Amendments given by Smt.Ashwini Kadam, Chairman Standing Committee, Ashok Harnaval, Pruthviraj Sutar, Dipak Mankar, Vishal Tambe, Subhash Jagtap, Avinash Bagave, Chandrashekar Nimhan & Sangita Gaikwad on 14/12/2015
 - 7) The Sub Amendments given by Smt. Sunita Galande, Datta Bahirat, Mahendra Pathare, Nanda Lonkar, Sachin Bhagat, Sangita Tikone and Anita Dakhave on 14/12/2015.
 - 8) The Sub Amendments given by Rajendra Vagaskar, Vasant More, Ravindra Dhangekar, Bala Shedge, Anil Rane and Rahul Tupere on 14/12/2015.
 - 9) The Sub Amendments given by Raju Pawar, Smt. Yugandhara Chakankar and Archana Kamble on 14/12/2015.
 - 10) The Sub Amendments given by Adv. Abhay Chajed, Smt. Jayashree Marane, Smt.Sunita Salunkhe and Smt.Asha Sane

Considering the reasons quoted recommendation of Municipal Commissioner

“Accord sanction to send Smart City Proposal (SCP) of Pune City under the Centrally Sponsored Smart Cities Mission through State Government to Central Government” and creation of SPV for Pune Smart City and its Framework and principals as per following amendments.

As per Sub Amendment in reference No. 6

- 1.Assessment of work of SPV will be done and if found unsatisfactory after two years, PMC will have the rights to close SPV.
- 2.The decision-making powers available to the PMC under the Appropriate Acts/Rules to the CEO of the SPV, shall be deleted from the second para of Clause No.(6) of SPV guidelines.
3. The procurement of loan by SPV will be subject to the approval by PMC. As well as the terms and conditions of the loan will require sanction of PMC, so in Clause No. (3) of the principles and constitution of SPV will have to be included.
- 4.The property of PMC within SPV limit will not be mortgaged by SPV and henceforth the Clause No.(7) has to be rectified.

5. The development of amenity spaces in SPV Jurisdiction will be as per the Master plan of the City.

6. SPV should submit quarterly and yearly financial reports to Pune Municipal Corporation.

7. As Per Clause No.(5) of SPV guidelines SPV's Management /Governing board the Mayor, Chairman of the Standing Committee, the Leader of opposition these three and three other Party Leaders (apart from parties of these three & of parties with more than 10 Councilors in PMC) will represent PMC in the SPV.

Instead of the above :

In Clause No.(5) of SPV guidelines, following is to be incorporated. Mayor, Standing Committee Chairman and Opposition Leader, these three and 5 members from other parties who are elected as per the strength of parties in Municipal Corporation, will represent SPV from PMC side.

8. The State Government will be represented by The District Collector, Commissioner of Police, CMD of PMPML, Chief Engineer of MSEDCL, Pune and two other members who would be Independent Directors, who will be selected from the data bank (s) maintained by the Ministry of Corporate Affairs and preference will be given to the eminent citizens of Pune who have ideally served as independent Directors in the Board of different companies fulfilling Clause No.(49), of the listing agreement of Securities and Exchange Board of India, or are professionals of international repute.

Instead Of the above:

As well as Clause No.(5) of SPV guidelines following is to be incorporated. District Collector, Commissioner Police, Pune and two directors will be selected from the data bank (s) maintained by the Ministry of Corporate Affairs and preference will be given to the eminent citizens of Pune who have ideally served as independent Directors in the Board of different companies fulfilling Clause No.(49), of the listing agreement of Securities and Exchange Board of India, or are professionals of international repute and rest of directors will be selected by State Government.

9. In Pune Pan City model Transportation and Water have already been included. Municipal Solid waste and Sanitation should also be added in the Pan City model.

As per Sub Amendment in reference No. 7

The chairman of SPV under Smart Cities Mission will be Mayor.

As per Sub Amendment in reference No. 8

- I. There will be separate logo of Municipal Corporation and SPV.
- II. SPV will not have right to collect new taxes.
- III. New taxes will not be collected without the consent of General Body of the Corporation.

As per Sub Amendment in reference No. 9

- I. One window system for civic amenities in will be created in the Smart City.
- II. New property taxes shall not be imposed on common citizens in Smart City Mission.
- III. Basic needs of the citizens like water, roads, solid waste, drainage shall be dealt with utmost attention.

As per Sub Amendment in reference No. 10

It has been discussed whether progressive municipal corporation can take a decision not to establish an SPV, and if such a decision is made by the Central Government, then SPV of Pune Municipal Corporation will be terminated but Smart Cities Mission will continue.

/-
Municipal Secretary
Pune Municipal Corporation, Pune

नगरसचिव कार्यालय

पुणे महानगरपालिका

स्थायी समितीचा ठराव

सभा क्रमांक :- ५१

दिनांक - २/१२/२०१५

विषय क्रमांक :- १७३३ त्वर्य

ठराव क्रमांक :- १७३३

खाते :- मा.महा.आयुक्त

संदर्भ :- १) महाराष्ट्र शासन परिपत्रक क्रं. स्मार्ट सिटी-२०१५/प्र.क्र.१३०/नवि-३३, दि.०१/०७/२०१५.

२) केंद्रशासनाकडून स्मार्ट सिटी बाबत प्राप्त मार्गदर्शक सूचना

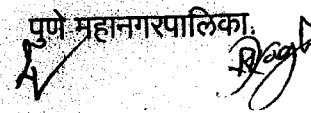
३) मा.महा.आयुक्त यांचे जा.क्र.मआ/उआ(वि)/६७४ दि.२/१२/२०१५ चे पत्र.

मा.महा.आयुक्त यांनी दिलेली कारणे व केलेली शिफारस विचारात घेवून -

केंद्र शासन पुरस्कृत स्मार्ट सिटी अभियानांतर्गत पुणे शहराचा "स्मार्ट सिटी प्रस्ताव/अहवाल"

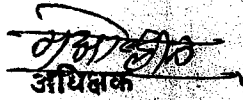
मा.राज्यशासनामार्फत मा.केंद्रशासनाकडे पाठविण्यास मान्यता द्यावी अशी मा.मुख्य सभेकडे शिफारस आहे.


नगरसचिव,

पुणे महानगरपालिका.


मा.महा.आयुक्त (वि)

यांजकडेस पुढील तजविजीसाठी
सविन्मय सावर...


अधिकांक

पुणे महानगरपालिका आयुक्त कार्यालय
पुणे महानगरपालिका

03 DEC 2015

Manila, 8 October 2015

Mr. Kunal Kumar
Municipal Commissioner
Pune Municipal Corporation

Subject: CDIA support to Pune Municipal Corporation for Project Structuring and Financing.

Honorable Commissioner,

Reference is made to your letter dated 28 September 2015 requesting for Technical Assistance from CDIA to strengthen internal capacity to structure projects and link priority projects to financing.

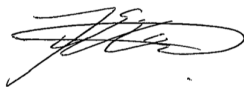
We have discussed your request in our CDIA Management Team meeting and I am happy to report that we are very keen to engage with the Pune Municipal Corporation to provide such assistance.

Based on your request, we are also finalizing the recruitment of Mr. Ajay Saxena. Mr. Saxena, in the first month of his assignment, will prepare an inception report in consultation with you and other Pune MC colleagues. This inception report should propose a phasing for CDIA support and a selection of projects to which our support is deemed most useful.

Hopefully you will have time for a video-conference between Manila and Pune in the week of 15 October 2015 to discuss details on our collaboration.

We look forward to this engagement and talking to you in the near future.

With best regards,



Joris van Etten
CDIA GIZ Program Coordinator

C.c.:

Mr. Sekhar Bonu, Director, South Asia Urban Development and Water
Mr. Vijay Padmanabhan, Technical Advisor (Urban and Water)





**British Deputy
High Commission
Mumbai**

3 November 2015

Mr Kunal Kumar IAS
Municipal Commissioner
Pune Municipal Corporation
Pune

Dear Mr Kumar,

Pune Smart City – The UK Offer

Thank you for taking the time to meet with my team last month. We now have a clear idea of your ambitious vision for Pune as a Smart City and would be delighted to partner with you to ensure Pune's success and sustainability. As promised, I outline below some ideas of how the UK is able to help.

The UK would be delighted to help Pune plan, design and execute your outline for a smart city in line with international best practice. We would fund the services of relevant UK experts who could deliver a combination of the following proposals. We will not be able to do all of these in the current financial year but it does set out the sorts of areas we would like to discuss and decide with you.

- **Transport:**
 - We could help prepare a detailed road map for a pilot through an expert transport planning consultant for a cycling scheme along the lines of the London Cycling scheme. This might include technical specification, help design scale of operation and define the geographical coverage, possible revenue model and highlight operational challenges and risk mitigation strategies; or
 - We could help formulate a detailed plan for Online and Offline Smart Public Transport Information System including preparing maps showing bus routes and expected frequencies at each bus stop, online solution to include easy-to-use apps and web interface which allow users to access information on availability of public transport system; or
 - We could prepare a plan for a Pedestrian enhancement and Urban Realm pilot for a busy street (< 1 kms) covering wider realm improvements (proper signage, clear right of way green cover, levelled walking area, functional street furniture etc.), developing traffic solution and creating branding and marketing strategy.
- **Greenfield Smart Development :** To help plan and develop a vision for a Greenfield smart development for say around 1000 acres land parcel using UK expertise to establish a high level aspirations for the development, identify and reference exemplars and a roadmap for progressing this further.

**Deputy High Commissioner &
Director General of UK Trade & Investment**

Naman Chambers
C - 32, G - Block, Bandra Kurla Complex
Bandra East, Mumbai 400 051

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Facsimile : +91 22 6650 2329
Email: dhcmumbai@fco.gov.uk
<https://www.gov.uk/world/india>

PA

महापालिका आयुक्त
पुणे महानगरपालिका
- उप आयुक्त (वि)
- P.A.



- Cluster Redevelopment: UK expertise is being used to plan, design and project manage the Kidwai Nagar cluster redevelopment (referenced in the MoUD's Smart Cities guidelines) and a suitable project in Pune could be supported to establish its feasibility, preparation of the initial concept master plan and infrastructure & services report.
- UK Visit: To expose city administrators to UK expertise in Smart Cities by taking a small group of key officials and showcasing them what and how the UK has delivered smart solutions and help engage with wider Smart Cities stakeholders (companies, universities, institutes etc)
- Capacity Building: To offer a tailored programme for skill development/institutional capacity development in areas where the UK has strength (e.g. town planning or workshop on innovative land monetisation models).
- Skills Development: To study feasibility and possible co-funding of the Pune Automotive and Advanced Engineering Skills Centre focusing on vocational training.
- Organisation and Operating Model : Advisory support for structuring and development of the commercial and governance framework for the city-level Special Purpose Vehicle (SPV) which helps in attracting private sector participation in delivering public projects. The scope could cover developing strategy, processes and identification of key organisational roles and responsibilities with an outlining of a "first 100 days plan".
- The Ease of Doing Business agenda : We could organise a workshop by an expert from the UK' Government's Better Regulation Delivery Office (BRDO) on the Risk Based inspection approach helping city administrators and inspectors better understand the concept and help re-design their approach towards inspection. This could be followed by mentoring and handholding by a specialist from the UK Department for Communities and Local Government (DCLG) along with one or two council/local authority representatives focussing on "Construction permits". UK experts could work with the relevant PMC departments, shadow officials and help formulate a fresh approach.
- Twinning: We could explore twinning with a UK city to develop a working relationship to share best practice and experience of developing smart solutions and to learn from the mistakes made during the implementation! Twinning could also bring a host of other benefits to the city including cultural exchange, bilateral engagement at various levels (political, officials, businesses, student, academic & research communities) and international benchmarking.

As discussed with my team, we would be able to fund a combination of the above projects in Pune up to a total of £150,000 with delivery by the end of March 2016 in line with our financial year planning. We could then look to expand the project to cover some of the other suggestions over the longer term.

I am very excited that the UK's support for Pune as a Smart City, one of only 3 cities in India, will be announced during the Prime Minister Modi's visit to London next week. As you may know the Chief Minister will also be with him.

Given the tight time constraints, in order to take this work forward as soon as possible it would be good to get early feedback from you on which of the above ideas are priorities for you and where



you think we can have the greatest impact. My team will then start the necessary planning to take this forward.

I or my Senior Trade & Investment Adviser, Jitendra Jain, would happy to discuss this with you further.

I look forward to working with you in creating a successful Pune Smart City !

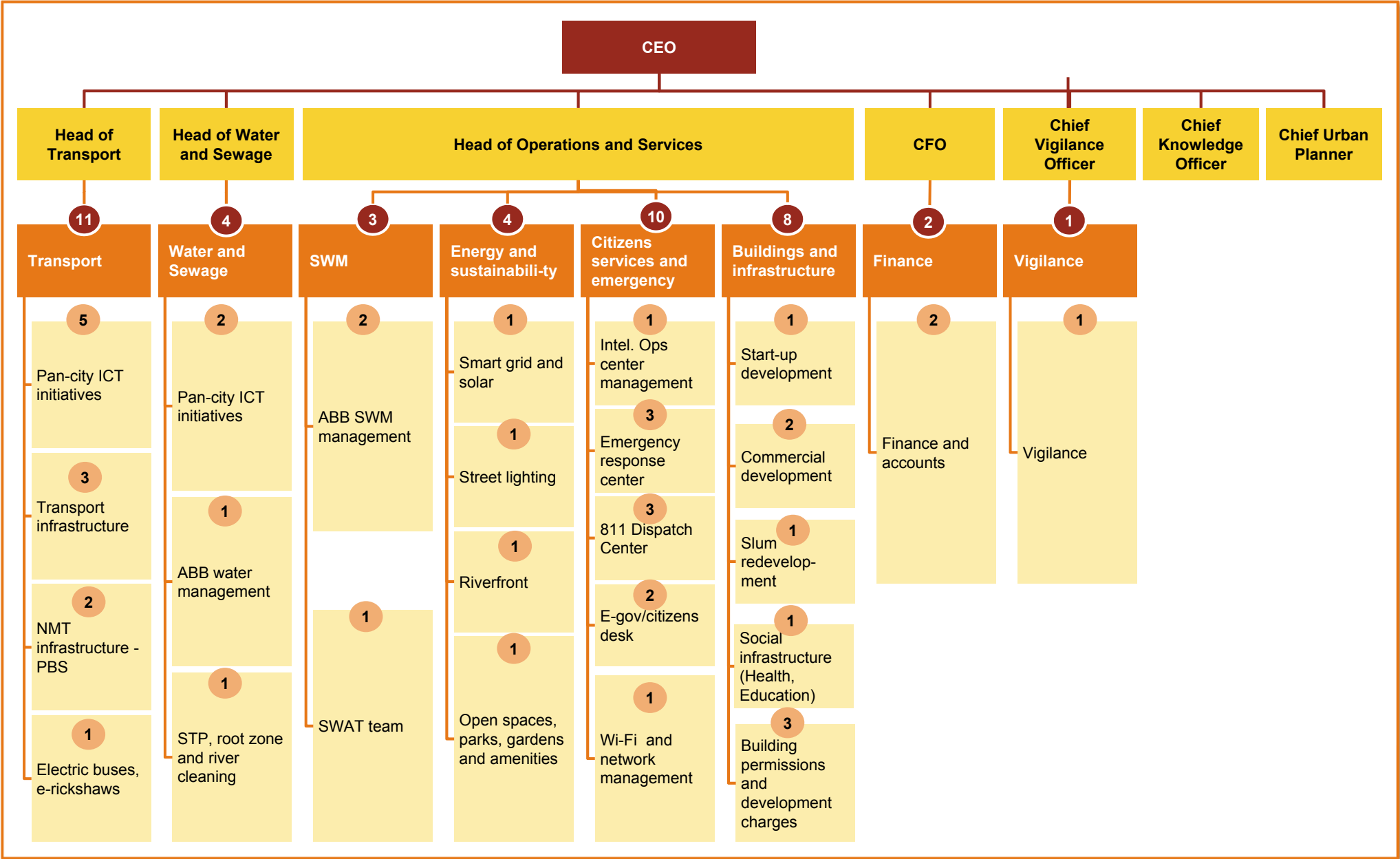
Yours sincerely,

Kumar Iyer

PS: My father was born in Pune so I have a strong personal commitment to this collaboration!

महापालिका आयुक्त कार्यालय
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आवक क्रमांक 3/8688
दिनांक 5 NOV 2015

Annexure 4.4: SPV end-state organization structure (45-50 employees)





PUNE MUNICIPAL CORPORATION


FRAMEWORK AND PRINCIPLES OF THE SPECIAL PURPOSE VEHICLE FOR PUNE UNDER SMART CITIES MISSION

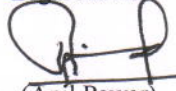
The Ministry of Urban Development, Government of India (**Central Government**) has launched the Smart Cities Mission (**Mission**), with an aim to develop 100 cities as smart cities over the next 5 years. The objective of the Mission is to promote cities that provide core infrastructure and improve the quality of life of people and focus on redefining urban development initiatives that make the cities more livable, inclusive and centers of economic growth. The Mission is to be implemented in accordance with the Smart City Mission Statement and Guidelines (**Guidelines**), released by the Central Government in June 2015.

This document spells out the framework and principles for the formation of the Special Purpose Vehicle (**SPV**) for the implementation of the Smart Cities Mission in the city of Pune. The formation of a well-functioning SPV and the implementation framework is a critical component for success in the Mission. The SPV is being formed to strengthen the Pune Municipal Corporation (PMC), increase operational efficiency and bring in innovation in its functioning.

The document is divided in the following sections:

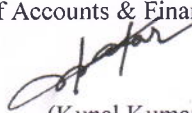
- I. **STRUCTURE OF THE SPV**
- II. **SHAREHOLDERS OF THE SPV AND PRIVATE PARTICIPATION**
- III. **MAIN OBJECTS (FUNCTIONS AND RESPONSIBILITIES) OF THE SPV**
- IV. **ALLOCATION OF FUNDS / FINANCING**
- V. **MANAGEMENT / GOVERNANCE OF THE SPV**
- VI. **DELEGATION OF POWERS**
- VII. **MISCELLANEOUS**


(Ravindra Thorat)
Legal Adviser


(Anil Pawar) 8/12
Depty. Municipal Commissioner (Special)


08/12/15


(Ulka Kalaskar)
Chief Accounts & Finance Officer


(Kunal Kumar)
Municipal Commissioner

I. STRUCTURE OF THE SPV

The Guidelines provide that the Mission at the city level will be implemented by a SPV, created for the purpose.

The SPV for the city of Pune will be a public limited company incorporated under the relevant provisions of the Companies Act, 2013 (**Companies Act**) and will be promoted jointly by the State Government of Maharashtra (State Government) and PMC.

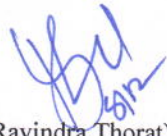
The Authorized Share Capital of the SPV will be Rs. 5,00,000. The State Government and PMC will contribute this amount equally. The minimum paid up capital of the SPV shall be Rs.5,00,000. The increase, reduction and alteration of the permissible share capital in the SPV will be permitted in accordance with the provisions of the Companies Act.

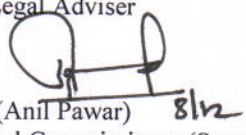
Sub-SPVs

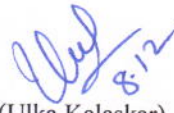
Under the Guidelines, the SPV has been given the autonomy and operational independence in decision-making and the implementation of the Mission. The Board of the SPV will have the complete freedom to decide whether the execution of the projects may be done through joint ventures, subsidiaries, public-private partnership (PPP), turnkey contracts etc. Therefore, in addition to the main SPV, there could be multiple project SPVs to execute the respective projects (pan city initiatives and local area development), envisaged by PMC for the city of Pune. The different sub-SPVs may include project specific SPVs, sectoral holding companies with a portfolio of project specific SPVs, subsidiary companies or public private partnerships.

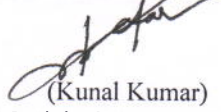
II. SHAREHOLDERS OF THE SPV AND PRIVATE PARTICIPATION

In relation to the shareholding pattern of the SPV, the Guidelines state that the State Government and the PMC will be joint promoters in the SPV, having equal equity participation. The private sector or financial institutions could be considered for taking equity stake in the SPV provided that the shareholding pattern of 50:50 of the State Government and the PMC is maintained (shareholding is equal at all times) and the State Government and the PMC together have majority shareholding and control of the SPV. It may be relevant to mention that the shareholding of the State Government, PMC and private sector may be in the ratio 40:40:20 or 30:30:40 or 26:26: 48.


(Ravindra Thorat)
Legal Adviser


(Anil Pawar) 8/12
Depty. Municipal Commissioner (Special)


(Ulka Kalaskar)
Chief Accounts & Finance Officer


(Kunal Kumar)
Municipal Commissioner



While the Guidelines permit the involvement of the private sector in the SPV (at the discretion of the State Government and the PMC), the participation of the private sector / financial institutions is necessary to make the smart cities project viable, as it requires huge resources and large scale investment. It is important that the private sector is suitably accommodated in the SPV structure (even if at a later stage), while ensuring that the balance of power between the State Government and the PMC is maintained. Having financial institutions as shareholders will strengthen the credibility of the SPV, especially while taking loans and participation of the private sector will help with bringing efficiency, improving service quality and incentivizing innovation.


In the alternate, private investment may also be introduced at the sub-SPV level instead of at the top level of the SPV. This will ensure that the private sector has the flexibility in investing in the sectors of its choice, and also different private entities can be there for different sub-SPVs.

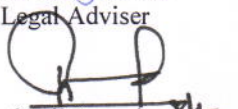
III. MAIN OBJECTS (FUNCTIONS AND RESPONSIBILITIES) OF THE SPV


The SPV is being formed to strengthen the Pune Municipal Corporation (PMC), increase operational efficiency and bring in innovation in its functioning. No rights or authorities of PMC shall be diluted. The Corporation shall have the rights of fixing tariff. The SPV will act like an execution arm of the PMC with autonomy in projects execution.


The SPV will discharge the following functions:

- (a) Approve and sanction the local area development projects under the Mission in the SPV Area including their technical appraisal. SPV Area shall mean Aundh-Baner-Balewadi (ABB) area approved under the Mission and any other area as approved by PMC in future.
- (b) Approve and sanction the pan city projects approved for Pune under the Mission including their technical appraisal.
- (c) Coordinate with different agencies like PMPML and City Traffic Police for the local area based and Pan city projects.
- (d) Carry out the project development activities for implementation of the smart cities projects including forming project specific SPVs and sectoral holding companies consisting of project specific SPVs.
- (e) Identify and develop projects and arrange for professional inputs for risk management, project structuring, project appraisal, preparation of Expression of Interest/ Request for


(Ravindra Thorat)
Legal Adviser


(Anil Pawar)
Depty. Municipal Commissioner (Special)


(Ulka Kalaskar)
Chief Accounts & Finance Officer


(Kunal Kumar)
Municipal Commissioner

Proposal/ bid documents etc., evaluation of bids, bid process management and project management.

- (f) Undertake due diligence and analyse, examine and appraise proposals and monitor the above projects.
- (g) Drive O&M activities after project execution for both local-area development projects and pan-city projects
- (h) Earn its revenues also from the impact fee and issue PIF based bonds, and further will have the land monetization rights in the SPV Area. The SPV will collect property taxes and grant building permissions on behalf of the PMC.
- (i) Right to develop land parcels within SPV Area by land pooling under the Town Planning Scheme mechanism
- (j) Assist PMC in undertaking key municipal functions
- (k) Work as developer for Dr. Babasaheb Ambedkar Vasti slum rehabilitation in SPV Area
- (l) Get into Service Level Agreements (SLAs) with concerned PMC departments like Solid Waste Management, Water and other municipal services and the ability to outsource these functions within the SPV Area
- (m) The SPV Area may be expanded anytime to include more areas with due approval of PMC.
- (n) Develop amenity spaces and PMC land in SPV Area for citizens. PMC will transfer such lands at no cost to the SPV.
- (o) Can accept deposits, issue bonds, raise loans from external sources, for the purpose of company subject to the provisions of the relevant acts.

(Ravindra Thorat)
Legal Adviser

(Anil Pawar)

Depty. Municipal Commissioner (Special)

(Ulka Kalaskar)
Chief Accounts & Finance Officer

(Kunal Kumar)
Municipal Commissioner

Project wise functions of the SPV and coordination with other agencies for local-area development in the SPV Area

The functioning of the SPV in each of the sector, within the SPV Area will be as follows:

(a) Transport and mobility:


- I. *Bus Rapid Transport (BRT) and road infrastructure:* SPV will construct road, bus stops for the BRT network. PMPML will manage and run the buses and the SPV will have the option of contracting buses on specific routes, if required. The SPV will be responsible for O&M of bus stops in the SPV Area.
- II. *Non-motorized Transport (NMT) infrastructure:* SPV will construct footpaths, bicycle lanes, redesign roads and junctions, undertake place making, and be responsible for O&M
- III. *Public Bicycle Sharing (PBS) infrastructure:* SPV will be responsible for setting up, running and O&M of PBS system
- IV. *Electric buses:* SPV to make available buses, define routes and fares, which will be operated and maintained by a private operator
- V. *E-rickshaws:* SPV to have the ability to make available e-rickshaws and lease out to private operators

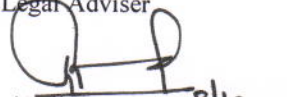
(b) Water and sewage:

- I. *Water supply management:* SPV to have a Service Level Agreement (SLA) with PMC to provide bulk water at pre-defined rate; SPV to build key infrastructure to supply 150 lpcd water. Major O&M issues to be taken up by the PMC, minor issues to be managed by SPV. The SPV water function will run by PMC employees on SLAs with the SPV
- II. *Sewage:* Baner Sewage Treatment Plant (STP) to be augmented and managed by PMC
- III. *River cleaning:* SPV to install and manage root-zone technology and physical cleaning of river
- IV. *Rain water harvesting:* SPV to make available sumps in housing societies in SPV Area, the societies will be responsible for O&M of these sumps

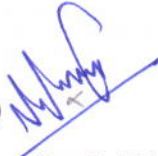
(c) Solid waste management and sanitation:

- I. *Solid Waste Management:* PMC would be responsible for door-to-door collection with SLA with SPV. SPV responsible for transportation of segregated waste, and will operate the transfer station and other related facilities created in SPV Area for the purpose of efficient management of solid waste in the area.



(Ravindra Thorat)
Legal Adviser


(Anil Pawar)
Depty. Municipal Commissioner (Special)






(Ulka Kalaskar)
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(Kunal Kumar)
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- II. *Sanitation*: SPV responsible for cleanliness and sanitation of public infrastructure in SPV Area. Community and school toilets will be made available by SPV; O&M of the same will be done by the SPV by getting into suitable contracts for the same.

(d) Energy and Solar:

- I. *Smart grid*: MSEDCL to setup smart grid T&D network in SPV Area. SPV to procure net meters hand-over to MSEDCL via an SLA. MSEDCL responsible for O&M of network and meters
- II. *Solar Energy*: Private operator to directly sign a PPA with the customer to install and O&M solar panels, SPV to facilitate the solarisation of the ABB area with appropriate measures and incentives if required
- III. *Street lights*: SPV responsible for procurement, installation and O&M of street lights in SPV Area

(e) Amenities and riverfront development:

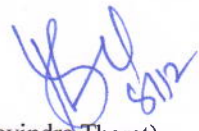
- I. *Open spaces*: SPV responsible for setting up and O&M of gardens, parks and open spaces in the SPV Area
- II. *Open gyms, street furniture and other amenities*: SPV responsible for setting up and O&M of open gyms, street furniture and other amenities in SPV Area
- III. *Riverfront development*: SPV responsible for construction and O&M in SPV Area and will also receive revenues generated.

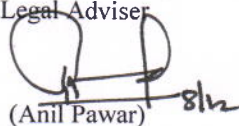
(f) Safety and response

- I. *Intelligent Operations Centre (IOC)*: SPV to setup and manage O&M of the IOC. SPV to procure police vehicles, ambulances and other equipment, and provide to Police /Hospitals via SLAs. Police/Hospital to be responsible for O&M of equipment and vehicles. PMC to provide additional policemen to SPV, SPV will have the option of setting up and managing private security force, if required in the SPV Area.

(g) E-Governance and Wi-Fi


- I. *Central command centre*: SPV responsible for setting up and O&M of central command centre, associated sensors, communication network and platform
- II. *Citizen Service centre*: SPV to setup and run the citizen service centres, PMC to provide back-end support via SLAs
- III. *Public internet*: SPV to setup optical fibre network and will be responsible for O&M


(Ravindra Thorat)
Legal Adviser


(Anil Pawar)

Depty. Municipal Commissioner (Special)


(Ulka Kalaskar)
Chief Accounts & Finance Officer


(Kunal Kumar)
Municipal Commissioner

IV. SPV will provide a complete suite of e-Gov services to the citizens in the SPV Area and will be backed by the PMC with SLAs for the same.

(h) *Slum redevelopment:*

I. *Slum redevelopment:* SPV to be responsible for redevelopment of slums on private land in the SPV Area. SRA will be responsible for overall management, including consent and eligibility

(i) *Affordable housing:*

I. *Affordable housing:* SPV to create affordable housing for EWS/LIG population on two amenity spaces in the SPV Area. SPV to create appropriate amount of affordable housing on land that will be developed under Town Planning scheme in the SPV area.

II. *Skill development, healthcare and education:* SPV to undertake socio-economic transformation initiatives in SPV Area and work towards improving healthcare and education facilities and build skills to generate employment

(j) *Health and Education:*

I. *Health:* SPV responsible for developing suitable amenity spaces for hospitals in the SPV Area through contract/PPP etc.

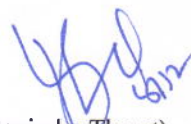
II. *Education:* SPV responsible for developing suitable amenity spaces in the SPV Area for schools through contract/PPP etc.

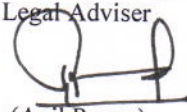
(k) *Transit and start-up hub:*

I. *Transit and Start-up hub:* SPV to develop Transit and Start-up hub, including Multi-level car parking in the 12acre land in the SPV Area. PMPML and State Government MSRTC to use the transit hub as a bus and BRT depot.

IV. ALLOCATION OF FUNDS / FINANCING


The Guidelines state that the Mission will be operated as a Centrally Sponsored Scheme and the Central Government proposes to give financial support to the extent of Rs. 48,000 crores over five years i.e. on an average Rs. 100 crores per city per year. An equal amount, on a matching basis, will have to be contributed by the State Government and PMC together. The funds provided by the Central Government, State Government and PMC to the SPV will be in the form of tied grant and kept in a separate Grant Fund and will be utilized only for the purposes for which the grants have been given and subject to the conditions laid down. The Grants from

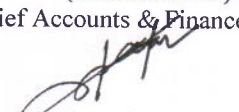

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Centre and State Governments and PMC specifically marked for Smart City projects will be used for capital expenses by SPV.

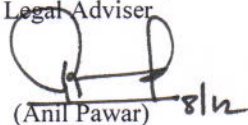
The funds will act as a catalyst to attract funding from internal and external sources but will meet only a part of the project cost. The balance funds are expected to be mobilized from various sources including bilateral and multilateral institutions (both domestic and foreign), convergence with other Central Government schemes like Swachh Bharat Mission and the Atal Mission for Rejuvenation and Urban Transformation (AMRUT) as well as from the private sector. In addition to the funding, linkages also have to be established by the SPV with other institutes in the field of education, technology etc.

The SPV aims to increase the revenue and / or reduce the cost of operations of PMC by bringing in innovative practices and improving efficiencies. The incremental benefit / part of freed budget allocated for such activities that accrue to PMC due to SPV will be granted to SPV only to fill the O&M expenses gap with SPV. For example, if the SPV undertakes projects worth 90 Cr and saves 50 Cr of costs of the Corporation and further increases the revenue (other than the normal yearly increase) by 60 Cr making a total incremental benefit to corporation of Rs 110 Cr. Then the SPV would be granted 90 Cr only and Corporation retains 20 Cr. However, in case that the 90 Cr spent on project by SPV leads to a net benefit of only 60 Cr in first year, and the rest of the benefit will accrue over the lifetime of the project, then the SPV will be compensated for 30 Cr. An escrow account will be opened to receive such revenues, which shall be used to fund the O&M expenses of SPV. This situation may arise because the SPV will also execute some projects which are non-remunerative like traffic management, bus services improvement etc.

The SPV will have the borrowing power to accept deposits, issue bonds and raise loans from external sources, for the purpose of the company subject to the provisions of the relevant acts. The SPV will have the right to demand impact fee and issue PIF based bonds, and further will have the land monetization and construction approval rights for the local-area selected for development

It may be noted that in case funds are allocated to PMC for any project in relation to the Mission, such funds should be automatically and immediately allocated to the SPV. Further in addition to equity contribution, the State Government may also provide its contribution to the Mission as a grant. This may be done by the State Government to fulfill its responsibility in relation to ensuring availability of funds for the Mission and for ensuring the financial sustainability/ viability of the SPV. Such grants from the State Government, as and when released, may be given directly to the SPV for the specified services/sectors.



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The following points may also be noted in relation to the funds of the SPV:

Dividends

Dividends will be ploughed back into the SPV till the time there are no private shareholders in the SPV. Once the SPV has private shareholders, the dividends will be distributed among the shareholders from time to time as per the decision of Board of SPV.

Accounts and Audits

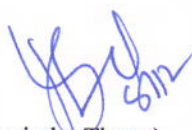
The Companies Act mandates periodical audits and submission of accounts to Registrar of Companies and the SPV has to comply with all the requirements prescribed under the Companies Act.

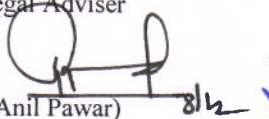
V. MANAGEMENT / GOVERNANCE OF THE SPV

Governing Board

The Guidelines state that the Board of Directors will have representatives of Central Government, State Government, PMC and Independent Directors, in addition to the CEO and Functional Directors. Subject to the provisions of the Companies Act, the SPV shall have a Governing Board consisting of:

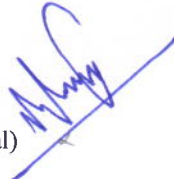
- a) The Municipal Commissioner of PMC who will also be the Chairperson of the SPV.
- b) The Mayor, Chairman of the Standing Committee, the Leader of Opposition these three and three other Party Leaders (apart from parties of these three & of Parties with more than 10 Councilors in PMC) will represent PMC in the SPV.
- c) The State Government will be represented by the District Collector, Commissioner of Police, CMD of PMPML, Chief Engineer of MSEDCL, Pune and two other members who would be Independent Directors, who will be selected from the data bank(s) maintained by the Ministry of Corporate Affairs and preference will be given to the eminent citizens of Pune who have ideally served as independent directors in the Board of different companies fulfilling Clause 49 of the listing agreement of Securities and Exchange Board of India, or are professionals of international repute.



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d) The Ministry of Urban Development will appoint one representative of the Central Government on the Board.

e) The CEO of the SPV

There will be a provision for expanding the Board in case of private shareholding of the SPV. The maximum number of Directors on the Board will be limited to fifteen.

The Governing Board shall convene once every quarter and will be responsible for major strategic decisions and approving the annual strategic plan of the SPV.

In order to ensure smooth governance and avoid conflict of interest in the SPV, the Board of Directors of the SPV and their agencies/ companies will be automatically disallowed from bidding for the projects awarded by the SPV under the Mission.

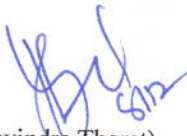
Executive Committee

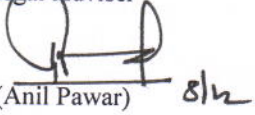
The SPV shall have an Executive Committee that will meet once a month to take month-to-month decisions including decisions beyond the authority of the CEO, on the functioning of the SPV. The Executive Committee will comprise of:


- (a) The Municipal Commissioner of PMC
- (b) The Chief Executive Officer (CEO) of the SPV
- (c) The Chief Financial Officer (CFO) of the SPV


Chief Executive Officer

According to the Guidelines, the SPV will be headed by a full time Chief Executive Officer (CEO). The CEO of the SPV will be appointed by the Board with the concurrence of the Ministry of Urban Development for a fixed term of 3 years, with upto 2 years possible extension.


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(Kunal Kumar)
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The Board may recommend the names of suitable candidates for the post of CEO of the SPV, to the Ministry for its concurrence. This will ensure that the selection of the CEO remains the prerogative of the Board and not the Central Government.


The Board shall appoint the CEO from open market. The compensation of the CEO will be at par with market standards. It may be noted that the qualifications of the CEO have not been set out in the Guidelines and government officials, senior corporate executives and independent experts may be considered for the post of the CEO.

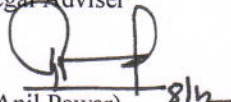
The CEO will be responsible for overseeing and managing the SPV including the day to day operations of the SPV among other responsibilities, which have been specifically stated in the Guidelines.

Other personnel in the SPV

In addition to the CEO and the Board of Directors, the SPV may appoint the following key personnel (with the requisite professional experience), to execute the various projects being implemented in the city of Pune under the Mission. Please note that this is an illustrative list and the positions may change depending on the final structure of the SPV.

- (a) Head (Transport and Traffic) – to award, execute and commission all pan-city and SPV Area projects in transport and traffic
- (b) Head (Water Supply and Sanitation) – to award, execute and commission all Pan city and SPV Area projects in Water Supply and Sanitation
- (c) Head of Operations and Services - to award and take care of all other services in the SPV area
- (d) Chief Knowledge Officer – to drive ICT based plan and execution of smart solutions as part of the Pan City and SPV Area development projects.
- (e) Chief Financial Officer– to drive financial functions of the SPV
- (f) Chief Vigilance Officer – to ensure good governance in and integrity of the SPV
- (g) Chief Urban Planner – to plan, design and implement area development projects in SPV Area


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Legal Adviser


(Anil Pawar)

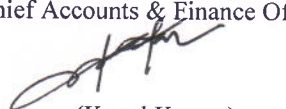
Depty. Municipal Commissioner (Special)







(Ulka Kalaskar)
Chief Accounts & Finance Officer


(Kunal Kumar)
Municipal Commissioner

The SPV may appoint designated and dedicated officials from diverse backgrounds, who will assist the key personnel in implementing and managing the smart cities project, in a time bound and effective manner. Further project management consultants may also be appointed by the SPV for designing, developing, managing and implementing the various projects.

At the end state, the SPV will have 45-50 employees. The tentative organization structure of the SPV with the number of employees is the following:

- (a) Transportation and mobility – 10-12 employees
- (b) Water and sewage – 4-5 employees
- (c) Solid waste management, sanitation and cleanliness – 3-4 employees
- (d) Environment, energy and sustainability – 3-4 employees
- (e) Citizen services and emergency response – 10-11 employees
- (f) Buildings, infrastructure and development – 8-9 employees
- (g) Finance – (2-3 employees)
- (h) Vigilance – (1-2 employees)

This is an illustrative number and the powers to increase/ decrease number of personnel will be with the board.

VI. DELEGATION OF POWERS

One of the primary reasons for the creation of a SPV is to ensure operational independence and autonomy in decision-making and the Guidelines provide for the delegation of the following powers of the State Government and the PMC to the SPV:

- (a) The rights and obligations of the PMC with respect to the Mission to the SPV.
- (b) The decision-making powers available to the PMC under the Appropriate Acts/Rules to the CEO of the SPV.

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 Depty. Municipal Commissioner (Special)

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 Municipal Commissioner



- (c) The approval or decision making powers related to project implementation under the Mission available to the Urban Development Department of the State Government to the Board of Directors of the SPV.

The delegation of powers to the SPV will be done under the provisions of the Maharashtra Municipal Corporation Act, 1949 and other applicable laws. It may be relevant to mention that the power with regard to the fixation of tariff for any sector would always remain with the PMC.

Constitutional Provisions

With a view to provide for the setting up democratic institutions at the grass root level, by virtue of the 73rd and 74th amendment to the Constitution of India, Part IX introduced the Panchayat system and Part IXA provided for the establishment of municipalities / urban local bodies and gave them constitutional status. Part IX-A (Article 243P – 243ZG) specifically provides for devolution by the State Legislature of powers and responsibilities to municipalities, as may be required to enable them to function as institutions of self-government.

Provisions of the Maharashtra Municipal Corporation Act


This delegation of powers to the SPV is proposed to be done under Sections 66 (41A) & 66A of the Maharashtra Municipal Corporation Act, in relation to the performance of functions by agencies, which states the following:

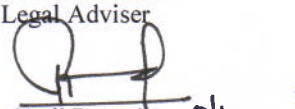
Section 66 (41A) –

'With the previous sanction of the state Government & subject to such terms & conditions as the state Government may impose subscribing to the share capital of any company or co operative society, with a limited liability, established or to be established for maintaining or setting up a slaughter house, or for providing any other services in the city, useful to the corporation in carrying out any of the duties imposed upon it by or under this act or any other law for the time being in force.'

Section 66A –

'When any duty has been imposed on, or any function has been assigned to, a Corporation under this Act or any other law for the time being in force, or a Corporation has been entrusted with the implementation of a scheme by the State Government or any other authority –


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(Anil Pawar) 8/12
Depty. Municipal Commissioner (Special)


(Ulka Kalaskar)
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(Kunal Kumar)
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(i) The Corporation may, either discharge such duty or perform such function or implement such schemes by itself; or

(ii) Subject to such directions as may be issued and the terms and conditions as may be determined by the State Government, cause it to be discharged, performed or implemented by any agency:

Provided that, the Corporation may also specify terms and conditions, not inconsistent with the terms and conditions determined by the State Government for such agency arrangement.'


VII. MISCELLANEOUS

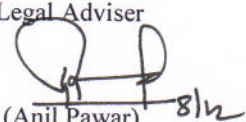
Leasing and Mortgaging Rights

Leasing and mortgaging rights on the assets owned or created by the SPV will be available.

Winding up

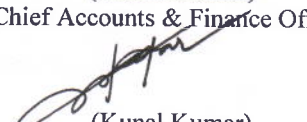
The procedure for the winding up of the SPV will be in accordance with the provisions of the Companies Act. All the assets created by SPV will be transferred back to PMC after dissolution or winding up of SPV.


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(Anil Pawar) 8/12
Depty. Municipal Commissioner (Special)




(Ulka Kalaskar)
Chief Accounts & Finance Officer


(Kunal Kumar)
Municipal Commissioner

9th December 2015

The Municipal Commissioner,
Pune Municipal Corporation,
PMC Building, Near Mangla Theatre,
Shivajinagar, Pune - 411 005
Maharashtra, India

Kind Attn : **Shri. Kunal Kumar, IAS**

Subject : Support to PMC's smart city initiative

Reference : Our Discussions

Dear Mr. Kumar,

We at Microsoft would like to take this opportunity to congratulate you and the entire PMC team on the ambitious plan to make Pune an ideal smart city and the world class development in Aundh Baner Balewadi – ABB region.

We are glad to know of your plans to establish a Start-up and Innovation hub to foster entrepreneurship and help create a culture of innovation resulting in creation of 40000-45000 new jobs in this region. The scale of your plan is evident in your target for increasing GDP of ABB by 6-7x over the next 15 years, making it one of the fastest growing global neighbourhoods.

Microsoft is a leading technology OEM in the world and has recently completed 25years of successful operations in India. Microsoft has played a key role in technology adoption by Governments on the various flagship initiatives rollout. Microsoft has also established itself in the Smart City domain by enabling cities around the world on the key focus areas through its technological and domain expertise. Microsoft has had multiple engagements with cities on the areas of citizen engagement, participative governance, automation, targeted interventions through analytics and reducing overall costs through use of Public cloud. Microsoft is also the only global OEM as of date to provide Public Cloud services in India from its multiple, Hyperscale, State of art facilities in India.

Microsoft would like to explore partnering with PMC on the following :

1. Enabling Smart City ICT Backbone Framework with Public Cloud

Microsoft can help PMC create Enterprise Architecture to optimally rollout ICT for the overall needs of smart cities. Microsoft has created a "City Platform Framework" which allows cities to seamlessly integrate the cross platform LoB vertical solutions to provide unified experience for consuming services. The City platform enables the IoT's and Sensor based ecosystem to provide enterprise experience across cross verticals. The City platform is also designed to seamlessly work in Hybrid mode

(Public Cloud & On Premise) to protect existing Govt investments on captive data centres, providing the best of Analytics and visualisations to citizens and city decision makers.

Microsoft can work with PMC to articulate the technology roadmap including public cloud and help enable advanced technologies like Machine Learning, Sentiment analysis etc for targeted interventions along with LoB vertical solutions.

2. Partner Accelerator for Start-up & Innovation

Microsoft Ventures, a subsidiary of Microsoft works very closely with start-up ecosystem to nurture & grow startups into successful business entities. Microsoft Ventures uses the Partner in Acceleration' (PIA) program where intending partners will be allowed to use Microsoft Ventures' knowhow and network to setup their own engagement with startups including accelerator/incubation programs, deal flows, events etc. Startups in these cohorts get access to Microsoft Business knowhow and Microsoft technologies and help startups learn most things that they would normally take a few years to do. Microsoft will mentor and provide expertise to the start-up partners under this arrangement including mentoring on products and Microsoft technologies. Microsoft will also provide software through Microsoft BizSpark program to the start-ups enrolled in the acceleration program and will also advise on the operational support to the partner team to help them develop its internal capabilities & continue operations.

Microsoft through Microsoft ventures will explore on extending the PIA program for ABB. Microsoft would require PMC to identify a strong domain partner to work with, in the domain(s) that it wishes to accelerate, such that the domain partner can establish the accelerator. Microsoft can play the role of mentoring the startups and help the domain partner conduct the accelerator as per the curriculum prescribed by Microsoft".

Microsoft will be delighted to support PMC in its Smart City initiative including the Start-up Innovation Accelerator at ABB and seeks a deeper engagement at your convenience to drive this forward.

Thanking you,
Yours Sincerely,

For Microsoft Corporation (India) Pvt Ltd



Name : Rahul Savdekar
Designation : Director – Industry Solutions (Government)



SERUM INSTITUTE OF INDIA PVT. LTD.

(FORMERLY KNOWN AS SERUM INSTITUTE OF INDIA LTD.)

Cyrus Poonawalla Group

Regd. off.: 212/2, Hadapsar, Pune - 411028. TEL.: +91-20-26993900 ■ FAX: +91-20-26993921
www.seruminstitute.com ■ CIN: U80903PN1984PTC032945

1st December 2015

The Commissioner
Pune Municipal Corporation

Dear Sir,

Sub.: Swachh Bharat

One of the premiere Industrial houses of India (with a combined annual turnover of INR12 billion), Cyrus Poonawalla group has its operations spread across multiple sectors including pharmaceuticals and hospitality. World's largest manufacturer of vaccines and a leading biotech company, the Serum Institute of India also comes under its umbrella. With an unwavering emphasis on innovation, quality and customer satisfaction, Cyrus Poonawalla group has been playing a significant role in India's growth story.

The group, through its CSR initiatives has made concerted efforts to give back to its home city. Continuing the rich legacy, Cyrus Poonawalla group has offered to invest INR 100 Crores to boost the Swachh Bharat Work going on in Pune. The group would like to ensure that the city is able to achieve global benchmarks and inculcate best practices by plugging the gaps in technology and infrastructure. Cyrus Poonawalla group would also be pleased to particularly finance initiatives in Solid Waste Management, being undertaken within the ambit of Smart City Proposal.

Regards,

Adar C. Poonawalla

CEO



PUNE CITY CONNECT DEVELOPMENT FOUNDATION

Correspondence address: 16 Solitaire, Kasturba Samadhi Road, Off Nagar Road, Pune- 411006.
Tel: +91- 9370145207, Email: punecityconnect@gmail.com

Date: 3rd Dec 2015

The Municipal Commissioner,
Pune

Dear Shri Kunal Kumar,

Thank you for your consistent support to the Pune City Connect (PCC) platform. As you are aware, Pune City Connect is a platform for collaboration between corporates and the Pune Municipal Corporation (PMC). The objective is to institutionalize a forum for industry and government to work collectively along with NGOs and citizens, towards development of the city. In this context, PCC has already initiated work towards the objective of enabling 'collaborative CSR'. We believe that Corporate houses in Pune hold tremendous potential to help implement the Smart City vision through their Corporate Social Responsibility (CSR) initiatives.


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Tel: +91- 9370145207, Email: punecityconnect@gmail.com

In order to harness this potential, PCC will be the common platform through which the industry's CSR efforts with respect to hi-quality education, sanitation, digital Pune, tourism and other developmental needs within Pune can be streamlined. Synergizing these efforts, cross-learning through best practices and co-planning activities can lead to greater and sustained impact. It is proposed to streamline over INR 100 crores of CSR spends in the first year, with the long term potential being over INR 500 crores per year. The quantum of spend along with close monitoring and impact measurement will support the long term vision of the transformation of Pune into the most attractive city to reside in within India.

Pune City Connect is happy to have been part of the core group for the Pune Smart City proposal. Be it the piloting of the very first model for citizen engagement via the Mazhe Swapna Smart Pune contest, the subsequent support for the development of the customer engagement platform, thought-partnership for social transformation efforts or the sharing of best-practice models; it has been rewarding to work with this progressive group and under your inspiring leadership.

We remain committed to the Smart Pune vision and assure you of full support for implementation of the Smart City proposal when the need arises.

With regards,


Dr. Ganesh Natarajan
Chairman – Pune City Connect

PUNE CITY CONNECT DEVELOPMENT FOUNDATION

Correspondence address: 16 Solitaire, Kasturba Samadhi Road, Off Nagar Road, Pune- 411006.
Tel: +91- 9370145207, Email: punecityconnect@gmail.com

Letter of Intent



Chief Engineer (Projects)
Sawarkar Udyog Bhavan, 3rd Floor,
Pune Municipal Corporation
Outward No : 3231
Date : 03/12/2015

To,
Shri. Kunal Patel,
(Director – Strategic Planning)
HCP Design, Planning & Management Pvt.Ltd.,
Paritosh, Usmanpura,
Ahmedabad-380013.

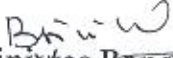
**Sub :- Tender No. 6/2015-Consultancy for preparation of River front
Development Plan for Mula Mutha , Mula-Mutha river in Pune.**

Ref :- Your Bid letter dated 20th August,2015.

With reference to the above subject and your bid for "Appointment of Consultant for the project River front Development Plan for Mula Mutha , Mula-Mutha river in Pune" is approved in the Standing Committee Meeting held on 02/12/2015.

You are requested to mobilize the team and submit the draft agreement copy, so that work on the above project can be started immediately.

Thanking you.


(Srinivas Bonata)
Chief Engineer (Projects)
Pune Municipal Corporation



भारत सरकार
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

No. J-27017/3/2012-NRCD-II (Vol.-II)

Dated: 1st December, 2015

To,

Shri Kunal Kumar
Municipal Commissioner
Pune Municipal Corporation,
Pune
Maharashtra

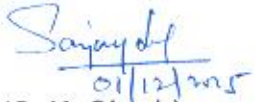
Subject: Project for Pollution Abatement of River Mula-Mutha in Pune under National River Conservation Plan (NRCP).

Sir,

Kindly refer to your e-mail regarding present status on the approval of project for pollution abatement of river Mula-Mutha in Pune under NRCP.

In this context, I am directed to inform you the above mentioned project has been approved by the Hon'ble Finance Minister as the competent authority at an estimated cost of Rs. 990.26 crore on cost sharing basis between Govt. of India and State Government, after recommendation of Expenditure Finance Committee (EFC). As you are aware, the project would be funded with loan assistance from Japan International Cooperation Agency (JICA) under NRCP. Based on the loan negotiations held in Department of Economic Affairs, Ministry of Finance, 'Exchange of Notes' for the project has been concluded between Government of Japan and Government of India on 27th March, 2015. The Loan Agreement between JICA and DEA is expected to be concluded shortly. Thereafter, the Administrative Approval and Expenditure Sanction for the project would be issued by the Ministry.

Yours sincerely


(S.K. Singh)
Deputy Director



राष्ट्रीय नदी संरक्षण निदेशालय National River Conservation Directorate
पर्यावरण भवन, सी. जी. ओ. कॉम्प्लेक्स, लोदी रोड, नई दिल्ली-110003
PARYAVARAN BHAVAN, C.G.O. COMPLEX, LODHI ROAD, NEW DELHI-110003



Chief Engineer (Project) Office,
Pune Municipal Corporation.
Outward No - पत्र/३२७
Date- ३१/३/२०१५

Work-Order

To,
Innovative Transport Solutions Pvt.Ltd.(iTrans)
3291,D3,Vasant kunj,
New Delhi -110070.

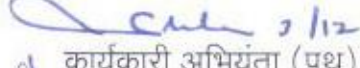
विषय:- शहरी वाहतुक नियोजन यांचे सहाय्याने (Non motorized transport अंतर्गत) पुणे शहरासाठी एकात्मिक सायकल आराखडा (Comprehensive Bicycle Plan For Pune City) तयार करणे.

संदर्भ :- मा. स्थायी समिती ठ.क्र. १७०७ दि. ०२/१२/१५.

महाशय,

- १) विषयांकित कामासाठी आपले र.रु. १, १५, ००, ०००/- चे टेंडर क्र १०३-२०१४ , स्वीकारण्यात आले असून, आपल्याशी करारनामा करण्यास व आपल्याकडून काम करून घेणेस मा. स्थायी समिती ठ.क्र. १७०७ दि. ०२/१२/१५ अन्वये मान्यता मिळाली आहे.
- २) करारनामा मसुदा फी रु. ३५०/- हे पत्र मिळाल्यापासून एक आठवडा मुदतीचे आत पुणे महानगरपालिका कोष कार्यालयात रोख भरण्याची व्यवस्था करावी व पावती श्री.मारकड यांचे कडे ताबडतोब दाखवून ती दाखविल्याबाबत पावती वर संबंधित सेवकाची स्वाक्षरी घ्यावी.
- ३) उपरोक्त कामाचा करारनामा करण्यासाठी नवीन स्टॅम्पअॅक्टचे आर्टिकल ६३ प्रमाणे पेपर्स हे पत्र मिळाल्यापासून एक आठवडा मुदतीच्या आत श्री.मारकड यांचेकडे आणून द्यावेत व त्यांसकडून स्टॅम्प पेपर मिळाल्याबाबत पावती घ्यावी.
- ४) हे पत्र मिळाल्यापासून एक आठवडा मुदतीचे आत अनामत रक्कम न भरल्यास व स्टॅम्प पेपर न आणून दिल्यास आपणास काम करावयाचे नाही असे समजण्यात येईल.
- ५) करारनामा केल्याखेरीज एक ही बिल दिले जाणार नाही.
- ६) कामाची मुदत ६ महिने आहे.
- ७) कोणत्याही परिस्थितीत हे पत्र मिळाल्यापासून आठ दिवसांचे आत सदरचे काम सुरू करावे व कामाचे मुदतीप्रमाणे मुदत संपण्यापूर्वी काम पूर्ण करावे.
- ८) अपवादात्मक परिस्थितीत मुदतवाढ देणेबाबतचा निर्णय मा. खातेप्रमुख स्वतः घेतील.
- ९) विषयांकित काम पथ विभाग कार्यालयाचे उपअभियंता, श्री. डी.जी.शिकलगाव आणि कनिष्ठ अभियंता, श्री. श्रमिक शेवते यांच्या देखरेखीखाली करण्यात येईल. त्यासाठी त्यांच्याशी सत्वर संपर्क साधून या कामाचा सर्व तपशील घ्यावा.
- १०) योजनेचा संपूर्ण आराखडा, प्लॅन, प्रोफाईल, इ. टेंडर क्र.१०३-२०१४ मधील RFP अनुसार सादर केलेल्या प्रोजेक्ट प्रेप्रोजलप्रमाणे तयार करणे.
- ११) प्रस्तुत कामाकरिता कन्सल्टंट यांनी वेळोवेळी मा. अति.महापालिका आयुक्त (वि) आणि मा. खातेप्रमुख यांनी आयोजित केलेल्या बैठकीस हजर राहणे.

- १२) खात्याचे मागणीनुसार सॉफ्ट व हार्ड कॉपी तयार करून पुणे महानगरपालिकेस देणे.
- १३) कन्सल्टंट यांनी प्रत्यक्ष काम चालू असताना खात्यास आवश्यक असेल त्यावेळी मार्गदर्शन करणे, जागेवर वेळोवेळी पाहणी करणे व सूचना देणे.
- १४) योजनेचे काम पूर्ण झाल्यावर झालेल्या कामाचा तपशीलवार नकाशे चेक करणे आणि सॉफ्ट व हार्ड कॉपी तयार करून पुणे महानगरपालिकेस देणे.
- १५) या कामासाठी पुणे महानगरपालिका तर्फे आपली कन्सल्टंट म्हणून नेमणूक करण्यात आली आहे. सदर काम त्यांच्या निर्देश/सुचनेप्रमाणे करावे, यासाठी आवश्यक कागदपत्रांची पूर्तता करावी. प्रत्येक टप्प्याचे काम सुरु करताना वेळोवेळी खात्यास कळवून अहवाल सादर करणे आपणावर बंधनकारक आहे. कळावे.


कार्यकारी अभियंता (पथ)
पुणे महानगरपालिका
०३/१२/१५

अट:- शासनाने लागू केलेल्या व्हॅटबाबतचे नियम बंधनकारक राहिल.

प्रत:- १) मा. अकौंटंट

- २) श्री. बजेट लेखनिक (टेंडर रजिस्टर, लॉकिंग रजिस्टरमध्ये नोंदविणे व त्यावर खातेप्रमुखांची स्वाक्षरी)
- ३) श्री.टेंडर क्लार्क (मुळ प्रकरणांस जोडणे)
- ४) मा.कार्यकारी अभियंता (पथ विभाग)
- ५) मा. प्राप्ती व चाचणीचे अर्थान्विक्षक
- ६) मा. अंतर्गत अर्थान्विक्षक
- ७) मा. श्री. डी.जी.शिकलगार, उप अभियंता (पथ विभाग, पुणे महानगरपालिका)
- ८) मा. श्री. श्रमिक शेवते, कनिष्ठ अभियंता (पथ विभाग, पुणे महानगरपालिका)

यांस.....

MEMORANDUM OF UNDERSTANDING
BETWEEN
KPIT TECHNOLOGIES LTD
AND
PUNE MUNICIPAL CORPORATION (PMC)
FOR ELECTRIC BUS TECHNOLOGY
(‘E-BUS’)

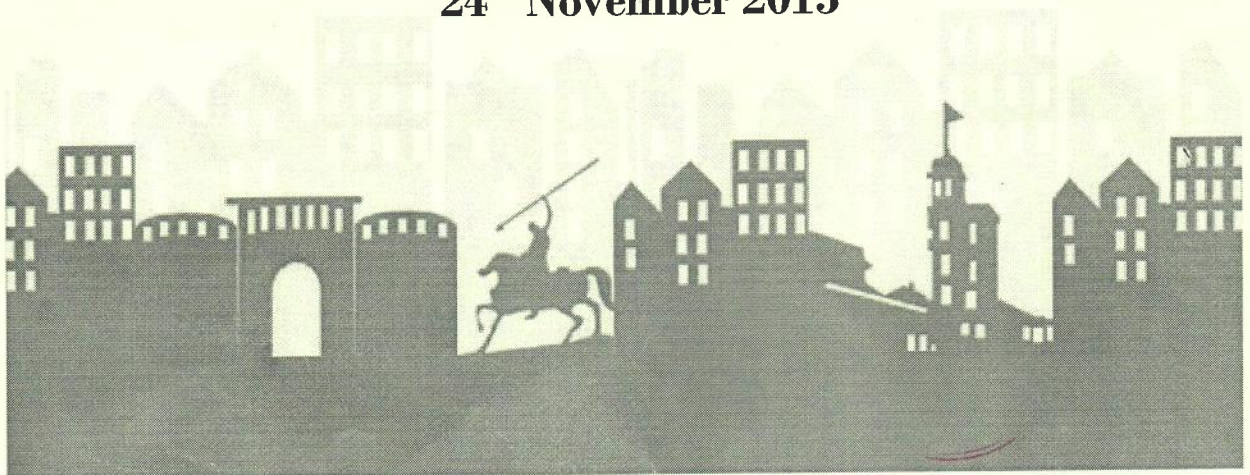
KPIT



Smart City
MISSION TRANSFORMATION



24th November 2015





महाराष्ट्र MAHARASHTRA

U 296944

अनु. क्र. ७१६७९ दि. २ NOV 2015 मु. शु. रकम. ५००
 दस्तावेज प्रकार कपती ४२१८
 दस्त नोंदणी करणार आहेत का? होय/नाही.
 मिळकतीचे वर्णन
 मुद्रांक विकत घेणाऱ्याची नाव **KPIT Technologies Limited**
 पत्ता ३५ & ३६, Rajiv Gandhi Infotech Park
 Phase-1, MIDC, Hinjewadi, Pune 411 057
 दुसऱ्या पक्षकाराचे नांव
 हस्ते व्यक्तीचे नांव व पत्ता **R. M. Jagtap**
 655, Dattawadi, PUNE-30.
 सौ. आर. एच. लिमबे
 परवाना क्र. २२०१०१६
 ३, सुक्रवार पेठ, पुणे-४११००१



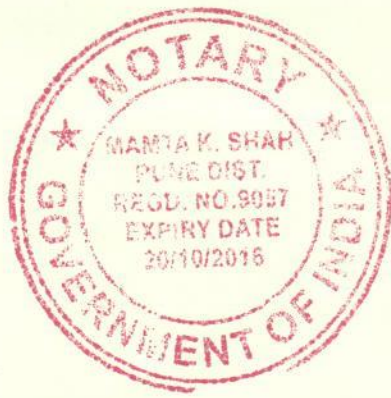
MEMORANDUM OF UNDERSTANDING BETWEEN
KPIT TECHNOLOGIES LTD AND PUNE MUNICIPAL CORPORATION
(PMC), PUNE

This "non-binding" Memorandum of Understanding (MOU) is made in Pune, India on 24th of November, 2015 between the undersigned:

[Handwritten signature]

[Handwritten signature]

KPIT



1. **KPIT Technologies Ltd.** (herein after referred to as “KPIT”, which expression, unless repugnant to the context, shall mean to include its successors; assigns; affiliates and authorized representatives) having its registered office at 35 & 36 , Rajiv Gandhi Infotech Park, Phase 1, MIDC, Hinjewadi, Pune 411 057, India through its Senior Vice President Mr. Anup Sable, of the one part

And

2. **Pune Municipal Corporation** (hereinafter referred to as “PMC” which expression will include its successors and permitted assigns, unless repugnant to the context or meaning) acting through its Commissioner Mr. Kunal Kumar of the second part

KPIT and PMC 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. KPIT is global technology company focused on solutions specializing in automotive & transportation, manufacturing and energy & utilities. KPIT works with major global automotive OEMs as well as Tier 1 manufactures for development of technology solutions. As a part of KPIT’s pursuit of innovation, KPIT has developed unique and novel electric bus technology (‘e-bus’).
3. KPIT and PMC have evinced interest in exploring the possibility of using KPIT’s e-buses for commuter movement and thereby fostering the government’s mission.

Now, pursuant to the ongoing discussions between the parties, this MOU purports to

KPIT



summarize the principal terms of intended engagement. This MOU records the preliminary understanding between them.

I. Purpose:

The Parties are entering into this MoU to record the terms and conditions on which KPIT will provide the scope of services to the PMC for the Development of ITMS services as part of “Smart City”.

II. Responsibilities:

A. KPIT’s Responsibilities:

KPIT hereby agrees that it will undertake to provide e-buses in accordance with and to the extent requested by PMC with the objective of developing Pune as a “smart city”, which will include the following:

1. 100 Fully electric air-conditioned buses with a range of 150 to 200 kms on a single charge
2. On Bus ITS system.
3. 100 charging stations for overnight charging
4. Support and maintenance of the buses for a period of 7 years

B. PMC’s Responsibilities :

1. Operate the e-buses for commuter movement for 150 to 200km every day
2. Provide a depot where the buses can be parked, charged (for 8 hours) and maintained. For 100 buses, as 4 to 5 acre space will be required.
3. Provide appropriate electricity infrastructure to charge these buses.

III. Business Model Options:

Parties will agree to the exact model of engagement at a later date once all the details are worked out. Business model options can be as below:

A. PMC to pay per kilometre of e-bus operation to KPIT

KPIT will own and maintain the e-buses and the charging stations, for which PMC will pay KPIT on ‘per kilometre’ basis. PMC will operate these buses.

KPIT



B. Procurement of e-buses by PMC

PMC will procure 100 e-buses along with charging stations for the same.

IV. Term and Termination:

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

This MOU shall be valid for a period of 180 days from the date of signing, unless it is terminated earlier:

- i. By way of consummation of a definitive agreement; or
- ii. By either Party for any reason what so ever.

This MOU is issued solely for the purpose of communicating the intent on part of the Parties to transact business with each other. All the terms and conditions shall be finalized on the basis of a definitive agreement.

If no contract is consummated, this MOU shall be treated as null and void.

V. Other Terms:

A. Sharing of Information:

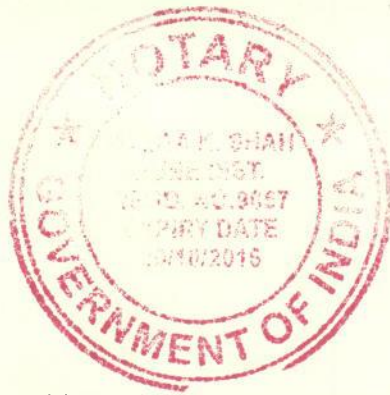
As may be appropriate from time to time, each Party may share information with the other on a regular basis regarding the arrangement under this MoU. Both the parties will be solely and entirely responsible for any third party information or materials, that they will share with each other, with regards 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

[Handwritten signatures]

KPIT



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:

Unless otherwise specifically agreed to in writing by the Parties for implementing the Scope of Services, each Party will bear the respective costs of carrying out the obligations under this MOU.

D. Counterparts:

The Memorandum of Understanding (MOU) may be signed in any number of counterparts, all of which taken together will constitute one and the same instrument. KPIT and PMC 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.

F. Representation:

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

G. Cooperation:

AB

KPIT



KPIT and PMC 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.

H. Liability:

This MOU shall attract no liability whatsoever to either of the Parties.

I. Governing Law:

This MOU shall be governed by the laws of India.

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

On Behalf of

KPIT TECHNOLOGIES LIMITED

By:

Name: Anup Sable

Title: Senior Vice President, KPIT Technologies

Date: 24th November 2015

01 DEC 2015

On Behalf of

PUNE MUNICIPAL CORPORATION

By:

Name: Kunal Kumar

Title: Municipal Commissioner, Pune Municipal Corporation

Date: 24th November 2015

01 DEC 2015

BEFORE ME

**MAMTA K. SHAH
NOTARY
GOVT. OF INDIA
PUNE DISTRICT**



BEFORE ME

**MAMTA K. SHAH
NOTARY
GOVT. OF INDIA
PUNE DISTRICT**

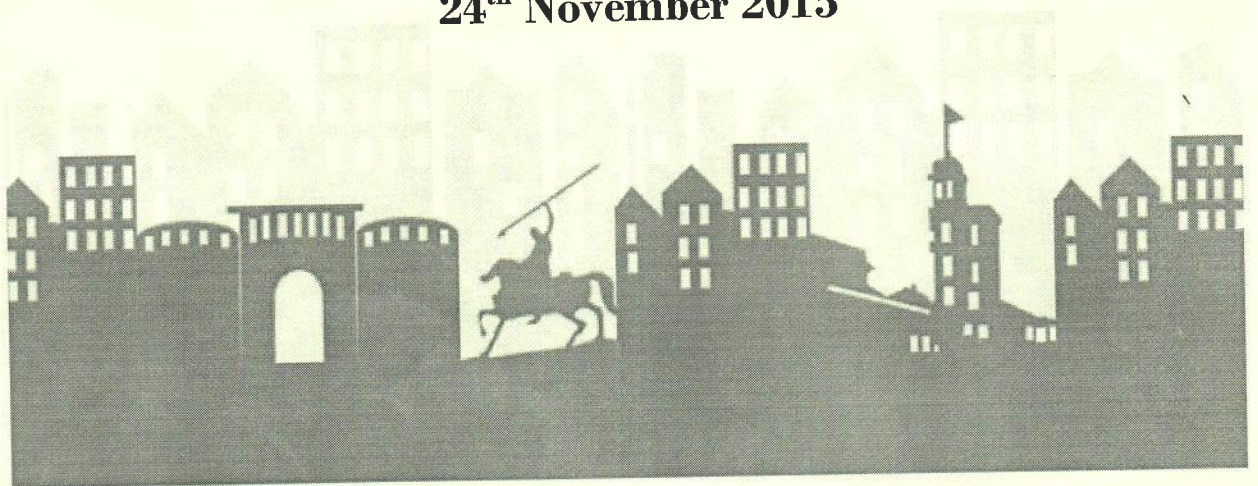
NOTED AND REGISTERED
AT SR. NO. 6847/2015
DATE: 01 DEC 2015

MEMORANDUM OF UNDERSTANDING
BETWEEN
KPIT TECHNOLOGIES LTD
AND
PUNE MUNICIPAL CORPORATION (PMC)
FOR THE DEPLOYMENT OF
INTELLIGENT TRANSPORT MANAGEMENT
SYSTEMS AS PART OF “SMART CITY”

KPIT



24th November 2015





महाराष्ट्र MAHARASHTRA

U 296945

अनु.क्र. ७९६४६ दि. 2 NOV 2015 मु. शु. रकम. ५००
दस्ताचा प्रकार
दस्त नोंदणी करणार आहेत का ? होय/नाही. कपेल ४२१८
मिळकतीचे वर्णन
मुद्रांक विकत घेणाऱ्याचे नांव
पत्ता KPIT Technologies Limited
दुसऱ्या पक्षकाराचे नांव 35 & 36, Rajiv Gandhi Infotech Park
Phase-1, MIDC, Hinjewadi,
हस्त व्यवृत्तीचे नाव R. M. Jagtap 057
656, Dattawadi,
PUNE-40
सा. आर. एच. लिमये
परवाना क्र. २२०९०९६
३, शुक्रवार पेठ, पुणे-४११.



MEMORANDUM OF UNDERSTANDING BETWEEN
KPIT TECHNOLOGIES LTD AND PUNE MUNICIPAL CORPORATION
(PMC), PUNE

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[Handwritten signatures] 2



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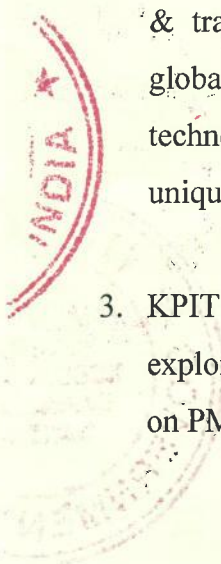
And

2. **Pune Municipal Corporation** (hereinafter referred to as “PMC” which expression will include its successors and permitted assigns, unless repugnant to the context or meaning) acting through its Commissioner Mr. Kunal Kumar of the second part

KPIT and PMC 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. KPIT is global technology company focused on solutions specializing in automotive & transportation, manufacturing and energy & utilities. KPIT works with major global automotive OEMs as well as Tier 1 manufactures for development of technology solutions. As a part of KPIT’s pursuit of innovation, KPIT has developed unique and novel Intelligent Transport Management System (‘ITMS’).
3. KPIT and PMC have evinced interest in working in collaboration with each other by exploring the possibility of using KPIT’s Intelligent Transport Management Systems on PMC buses and there by fostering the government’s mission.



Az *[Signature]*



Now, pursuant to the ongoing discussions between the parties, this MOU purports to summarize the principal terms of intended engagement. This MOU records the preliminary understanding between them.

I. Purpose:

The Parties are entering into this MoU to record the terms and conditions on which KPIT will provide the scope of services to the PMC for the Development of ITMS services as part of "Smart City".

II. Responsibilities:

A. KPIT's Responsibilities:

KPIT hereby agrees that it will undertake to provide the ITMS to PMC in accordance with and to the extent requested by PMC with the objective of developing Pune as a "smart city", which will also include the following:

1. On Bus ITS/VTS.
2. Cloud Based Command Centre Application.
3. Bus stops Passenger Information systems.
4. Passenger Mobile App for passenger convenience.
5. Wi-Fi based entertainment system with legal content.

B. PMC's Responsibilities :

1. Ensure availability of Buses as per the detailed agreement.
2. Ensure necessary infrastructure and protection at the identified bus stops as well as at the Bus terminals and BRT stations.
3. Provide the rights for contract period (mutually agreed) for the following concessions-
 - a. Advertisement on the Bus PIS TV Screen
 - b. Advertisement on space behind bus seat
 - c. Advertisement on film on glass window or curtain inside bus
 - d. Advertisement on Bus stop / Terminals PIS TV Screen
 - e. Advertisement on Mobile App for Passengers
 - f. Advertisement on Wi-Fi based Entertainment System
 - g. Monetization of the command center ITMS data



**III. Term and Termination:**

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

This MOU shall be valid for a period of 180 days from the date of signing, unless it is terminated earlier:

- i. By way of consummation of a definitive agreement; or
- ii. By either Party for any reason what so ever.

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If no contract is consummated, this MOU shall be treated as null and void.

IV. Other Terms:**1. 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.

2. 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

AB 



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.

3. Expense:

Unless otherwise specifically agreed to in writing by the Parties for implementing the Scope of Services, each Party will bear the respective costs of carrying out the obligations under this MOU.

4. Counterparts:

The Memorandum of Understanding (MOU) may be signed in any number of counterparts, all of which taken together will constitute one and the same instrument. KPIT and PMC 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.

5. 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.

6. Representation:

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

7. Cooperation:

KPIT and PMC 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.

AS



8. Liability:

This MOU shall attract no liability whatsoever to either of the Parties.

9. Governing Law:

This MOU shall be governed by the laws of India.

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

On Behalf of

KPIT TECHNOLOGIES LIMITED

By:

Name: Anup Sable

Title: Senior Vice President, KPIT Technologies

Date: 24th November 2015

On Behalf of

PUNE MUNICIPAL CORPORATION

By:

Name: Kunal Kumar

Title: Municipal Commissioner, Pune Municipal Corporation

Date: 24th November 2015



BEFORE ME
Mamta K. Shah
MAMTA K. SHAH
NOTARY
GOVT. OF INDIA
PUNE DISTRICT



AS

NOTED AND REGISTERED
SR. NO. 6846/2015.
DATE. 01 DEC. 2015.

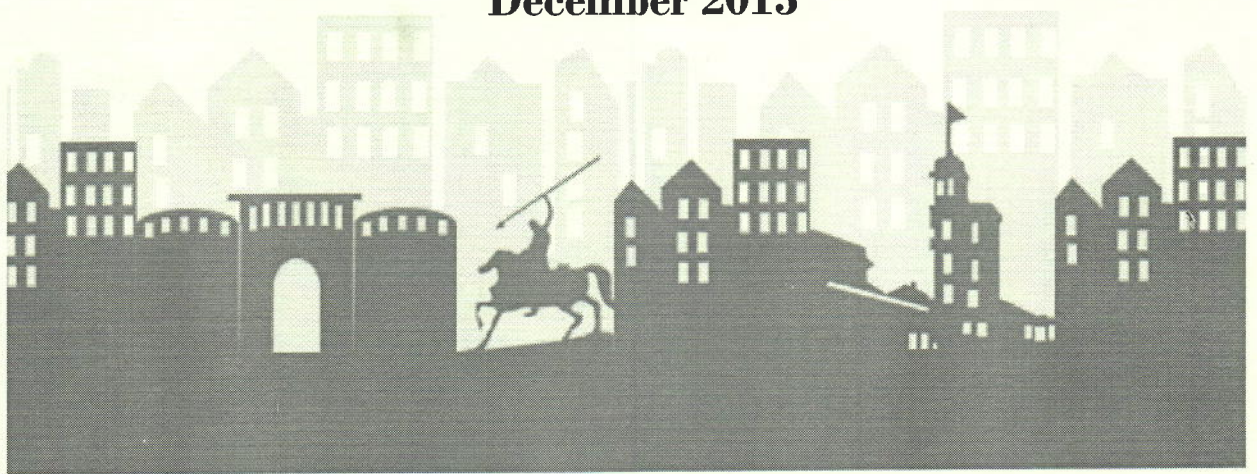
MEMORANDUM OF UNDERSTANDING
BETWEEN
SUPER HIGHWAY LABS
AND
PUNE MUNICIPAL CORPORATION (PMC)



Smart City
MISSION TRANSFORMATION



December 2015





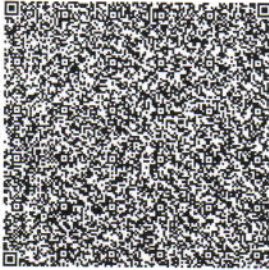
सत्यमेव जयते

INDIA NON JUDICIAL

Government of National Capital Territory of Delhi

e-Stamp

Certificate No. : IN-DL58491206301755N
Certificate Issued Date : 16-Sep-2015 05:16 PM
Account Reference : IMPACC (IV)/ dl883903/ DELHI/ DL-DLH
Unique Doc. Reference : SUBIN-DL88390314662438798716N
Purchased by : SUPER HIGHWAY LABS PVT LTD
Description of Document : Article 5 General Agreement
Property Description : Not Applicable
Consideration Price (Rs.) : 0
(Zero)
First Party : SUPER HIGHWAY LABS PVT LTD
Second Party : Not Applicable
Stamp Duty Paid By : SUPER HIGHWAY LABS PVT LTD
Stamp Duty Amount(Rs.) : 200
(Two Hundred only)



Please write or type below this line

MEMORANDUM OF UNDERSTANDING BETWEEN
SUPER HIGHWAY LABS AND PUNE MUNICIPAL CORPORATION
(PMC), PUNE

This "non-binding" Memorandum of Understanding (MOU) is made in Pune, India on
December, 2015 between the undersigned:

Statutory Alert:

1. The authenticity of this Stamp Certificate should be verified at "www.shcilestamp.com". Any discrepancy in the details on this Certificate and as available on the website renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

Maharaja

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MEMORANDUM OF UNDERSTANDING BETWEEN
SUPER HIGHWAY LABS AND PUNE MUNICIPAL CORPORATION
(PMC), PUNE

This “non-binding” Memorandum of Understanding (MOU) is made in Pune, India on
_____ December, 2015 between the undersigned:

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[Signature]



1. **Super Highway Labs Pvt Ltd** (hereinafter referred to as "Shuttl" which expression will include its successors and permitted assigns, unless repugnant to the context or meaning) having its Registered Office at:- RZF 390, Ambedkar Marg, Raj Nagar Part 2, Palam Colony, New Delhi 110077), acting through its Director Mr. ~~Amit Singh~~, of the first part

Deepanshu Malviya
Malviya

And

2. **Pune Municipal Corporation** (hereinafter referred to as "PMC" which expression will include its successors and permitted assigns, unless repugnant to the context or meaning) acting through its Commissioner Mr. Kunal Kumar of the second part

SHUTTL and PMC 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. The city of Pune, which spreads across an approx area of 250 sq.km. (most likely), is the second largest city in Maharashtra with a population of 31,24,458 (as per 2011 census). Pune is gradually emerging as a prominent location for IT and manufacturing.
3. However, the city of Pune needs improvement of traffic management in the city and addition of buses as per the norms to cater to the growing populations of the city. PMC is looking at expanding the present bus network in the city.
4. Shuttl is a technology company involved inter alia in the business enabling and/or providing daily commute solutions through buses.
5. Shuttl will work in collaboration with PMC to provide support in meeting the public transport requirement of Pune.

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6. The Parties are hereby entering into this Agreement to record the broad and general terms of understanding.

Now, pursuant to the ongoing discussions between the parties, this MOU purports to summarize the principal terms of intended engagement. This MOU records the preliminary understanding between them.

I. Purpose:

The Parties are entering into this MOU to record the terms and conditions on which Shuttl will provide the Scope of Services to the PMC for the development of bus commute in the city.

II. Scope of Work:

Shuttl intend to partner with PMC under the following arrangements

1. Provide technology platform to PMPML: Shuttl can act as a technology partner to PMPML for their bus fleet through the following:
 - Enabling tracking of vehicles through GPS technology which will improve predictability of commute for users and also help in network optimization by enabling the system to avoid bunching through intelligent dispatching and real time interventions.
 - Provide ticketing solution for smartphone users. Users can book their rides in advance and track the vehicle's location.
2. Complement PMPML's existing bus capacity: Shuttl can create a network of bus routes that will complement PMPML's existing network. This will include launch of routes that will act as feeder/ evacuator routes to either existing bus network in Pune or routes that could potentially create a customer base for metro rail network in Pune for future. Shuttl can also build the marketplace of buses to fill the requirement on existing routes of PMPML.
3. Shuttl can operate as an independent operator as well, specifically running the bus service for registered users who book reserved seats through Shuttl app. By targeting specifically at smartphone users, this can help shift people using personal cars and two-wheelers thereby helping in decongestion of the city.

Mahija

[Signature]



4. PMC will provide necessary guidance to help Shuttl understand the dynamics of bus service in the city of Pune.
5. PMC will help Shuttl in collaborating with other commute providers to ensure a smooth running of shuttle services.
6. The service is presently envisaged to run on following model:
 - Licensing and annual maintenance of software or SaaS based pricing for technology partnership
 - Pay per km for Shuttles running on routes decided by PMPML.

III. Responsibilities:

A. Shuttl's Responsibilities

Shuttl hereby agrees that it will undertake reasonable endeavours to provide the Scope of Services in accordance with and to the extent requested by PMC with the objective of developing bus commute in the city.

B. PMC's Responsibilities

1. PMC will appoint a Nodal Officer who will be the contact point for the interaction with the PMC and will also be responsible for the smart city initiative.
2. PMC will assist Shuttl on aspects mutually agreed by both Parties.
3. The Nodal Officer and the consultants appointed by the PMC will work jointly Shuttl to drive the initiative of smart commute for Pune.

IV. Term and Termination:

Both the Parties may terminate this MoU at any time by notice with immediate effect if it reasonably believes that its 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.

V. Other Terms:

1. 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

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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.

2. 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.

3. Expense:

Unless otherwise specifically agreed to in writing by the Parties for implementing the Scope of Services, each Party will bear the respective costs of carrying out the obligations under this MOU.

4. Counterparts:

The Memorandum of Understanding (MOU) may be signed in any number of counterparts, all of which taken together will constitute one and the same instrument. Shuttl and PMC 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 or electronic mail and will be as valid and effectual as if executed as an original.

5. 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

Dushin

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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.

6. Representation:

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

7. Cooperation:

Shuttl and PMC 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.

8. Liability:

This MOU shall attract no liability whatsoever to either of the Parties.

9. Governing Law:

This MOU shall be governed by the laws of India.

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

On Behalf of

Super Highway Labs Pvt Ltd

By:

Name: Mr ~~Amit Kumar~~ Deeparshu Mahajan

Title: Co-founder, Shuttl

Date: December 2015

On Behalf of

PUNE MUNICIPAL CORPORATION

By:

Name: Kunal Kumar

Title: Municipal Commissioner, Pune
Municipal Corporation

Date: December 2015

MEMORANDUM OF UNDERSTANDING
BETWEEN
RAFTAAR TECHNOLOGIES PRIVATE
LIMITED (RTPL)
AND
PUNE MUNICIPAL CORPORATION (PMC)

limo



Smart City
MISSION TRANSFORMATION



24th November 2015





महाराष्ट्र MAHARASHTRA

2015

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अनु क्र. 332 दि. 24 NOV 2015 रू. 500

दस्तावेजा प्रकार MOU

परत मोंदणी करणार आहेत का ? होय/नाही.

मिळणारीचे वर्ग

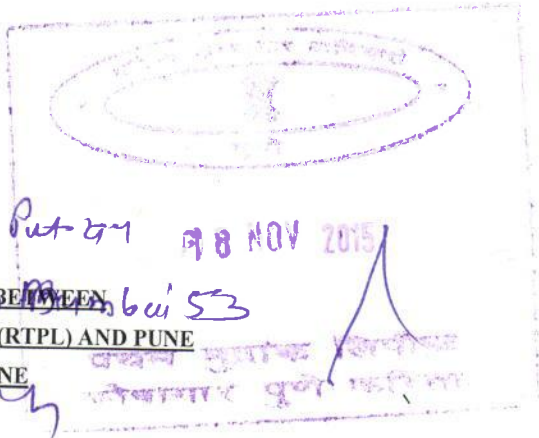
मुद्रांक विकत घेणाऱ्याचे नांव Rafter Technologies Pvt Ltd नं. 8 NOV 2015

पत्ता 705 Ashan Lohandevla Road, Mumbai 53

दुसऱ्या पक्षकाराचे नांव PM RAFTAAR TECHNOLOGIES PRIVATE LIMITED (RTPL) AND PUNE

हस्ते व्यक्तीचे नांव व पत्ता Municipal Corporation (PMC), PUNE

Sharma Arjun



This "non-binding" Memorandum of Understanding (MOU) is made in Pune, India on 24

of November, 2015 between the undersigned:
६५८/अ, डेकन जिमखाना, पुणे-४

मुद्रांक खेदी केला त्यांनी त्याचे कारणासाठी
मुद्रांक खेदी केला असून ६ एडिशन कागदोपचार करणे.

2

MEMORANDUM OF UNDERSTANDING BETWEEN
RAFTAAR TECHNOLOGIES PRIVATE LIMITED (RTPL) AND PUNE
MUNICIPAL CORPORATION (PMC), PUNE



This "non-binding" Memorandum of Understanding (MOU) is made in Pune, India on 24 of November, 2015 between the undersigned:

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1. **RAFTAAR TECHNOLOGIES PRIVATE LIMITED (RTPL)** (herein after referred to as "RTPL", which expression, unless repugnant to the context, shall mean to include its successors; assigns; affiliates and authorized representatives) having its registered office at 705, Aston Sundervan, Lokhandwala Circle, Andheri West, Mumbai, 400053, India, through its Director Mr. Siddharth Sharma of the one part

And

2. **Pune Municipal Corporation** (hereinafter referred to as "PMC" which expression will include its successors and permitted assigns, unless repugnant to the context or meaning) acting through its Commissioner Mr. Kunal Kumar of the second part

RTPL and PMC 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. Raftaar Technologies Private Limited (RTPL) offer bus transportation services under the brand, rBus. And is based in Mumbai, India.
3. RTPL and PMC have evinced interest in exploring the possibility of using 's r-buses for commuter movement and thereby fostering the government's mission.

Now, pursuant to the ongoing discussions between the parties, this MOU purports to summarize the principal terms of intended engagement. This MOU records the preliminary understanding between them.

S. Sharma

K. Kumar 3

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I. Purpose:

The Parties are entering into this MoU to record the terms and conditions on which will provide the scope of services to the PMC for the Development of r-bus services as part of "Smart City".

II. Responsibilities:

1. RTPL's Responsibilities:

- a. RTPL will promote all PMC programs related to ride sharing, traffic decongestion & environmental consciousness under the umbrella of PMC's Smart City initiative on 's physical & digital promotional collaterals (limoapp.in, social networks and passenger network) and through its press relations / external media network.
- b. RTPL will provide high-res ready-to-print files of its brands' logos and other marketing collateral to PMC to allow PMC to deliver it's deliverable #1


2. PMC's Responsibilities :

- a. PMC will list Limo by rBus ('s brand) as a Technology Partner in the following PMC citizen priority programs under the umbrella of PMC's Smart City initiative:
 - Transport and Mobility (Reduction in traffic congestion & focus on accident reduction), and
 - Environment and Sustainability (Clean Roads & Streets, Reduce Air Pollution and More green cover in city)

The partnership will be promoted on physical & digital promotional collaterals (punsmartcity.in, @smartpune, #SmartPuneCity & other social networks) and through its press relations / external media network.

III. Term and Termination:

Both the Parties may terminate this MoU at any time by notice with immediate effect

S. Sharma  4

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if it reasonably believes that its performance, financial viability or any aspect of it, results, or might breach any legal, regulatory, ethical or audit independence requirement in the jurisdiction, or any other reason.

This MOU shall be valid for a period of 2 years from the date of signing, unless it is terminated earlier:

- i. By way of consummation of a definitive agreement; or
- ii. By either Party for any reason what so ever.

This MOU is issued solely for the purpose of communicating the intent on part of the Parties to transact business with each other. All the terms and conditions shall be finalized on the basis of a definitive agreement.

If no contract is consummated, this MOU shall be treated as null and void.

IV. 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

INDIA

S. Sharma

[Signature]

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information, to the disclosing Party upon request after expiry/ termination of this MoU.

C. Expense:

Unless otherwise specifically agreed to in writing by the Parties for implementing the Scope of Services, each Party will bear the respective costs of carrying out the obligations under this MOU.

D. Counterparts:

The Memorandum of Understanding (MOU) may be signed in any number of counterparts, all of which taken together will constitute one and the same instrument. RTPL and PMC 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.

F. Representation:

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

G. Cooperation:

RTPL and PMC 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.

S. Chandra *[Signature]*

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H. Liability:

This MOU shall attract no liability whatsoever to either of the Parties.

I. Governing Law:

This MOU shall be governed by the laws of India.

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



On Behalf of

RAFTAAR TECHNOLOGIES PRIVATE LIMITED (RTPL)

By: *S. Sharma*

Name: **SIDDHARTH SHARMA**

Title: **CEO**

Date: 24th November 2015

On Behalf of

PUNE MUNICIPAL CORPORATION

By: *[Signature]*

Name: Kunal Kumar

Title: Municipal Commissioner, Pune Municipal Corporation

Date: 24th November 2015



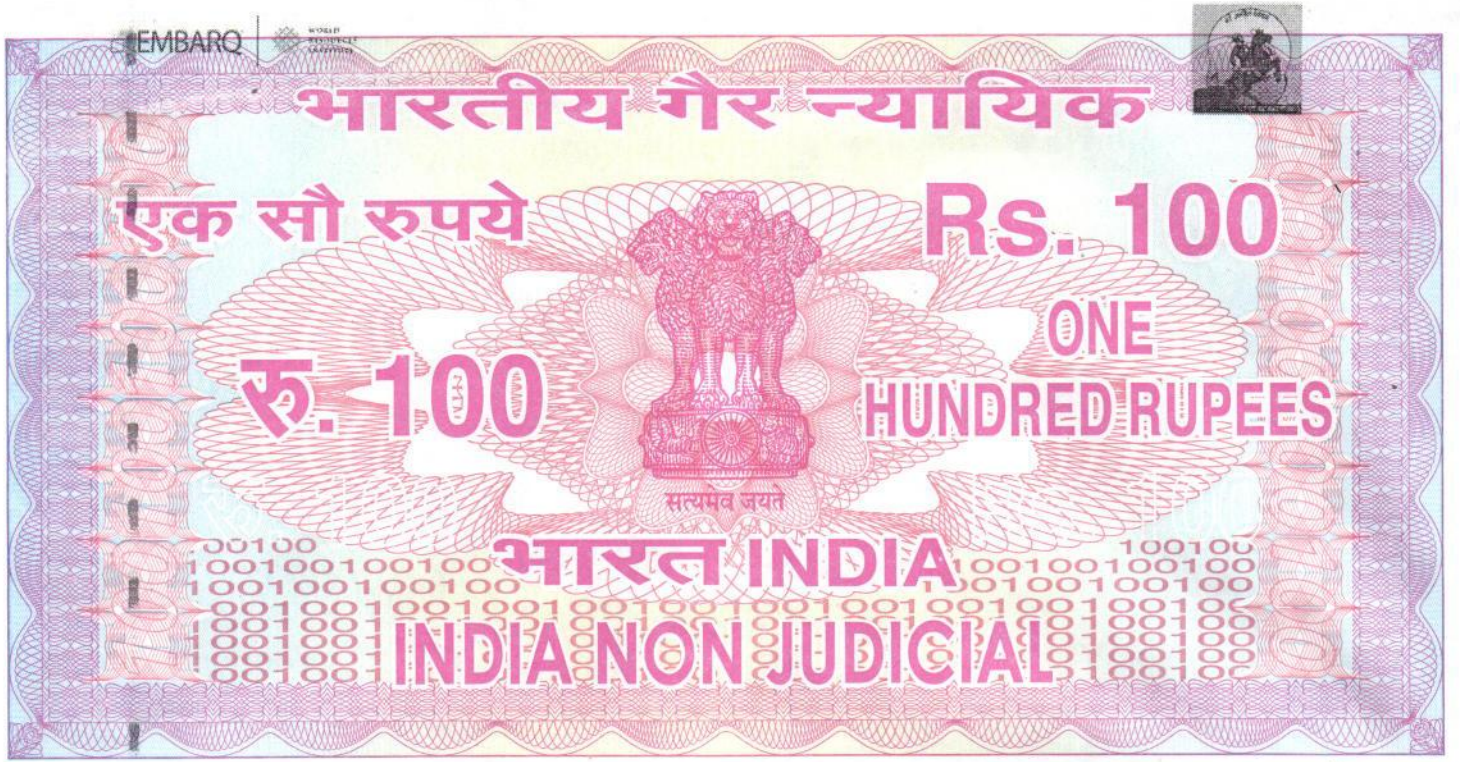
BEFORE ME
Mamta K. Shah
MAMTA K. SHAH
NOTARY
GOVT. OF INDIA
PUNE DISTRICT

NOTED AND REGISTERED
AT SR. NO. *6844/2015*
DATE. **01 DEC 2015**

**MEMORANDUM OF UNDERSTANDING
BETWEEN
WORLD RESOURCES INSTITUTE (WRI)
AND
PUNE MUNICIPAL CORPORATION (PMC)**

6th NOVEMBER 2015





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अनु क्र.....दि.....मु.शु.रकम।००१-
दस्तावा प्रकार.....
दस्त नोंदणी करणार आहेत का? होय / नाही.
शिळकतीचे वर्णन.....
मुद्रांक विकत घेणाराचे नाव.....
पत्ता.....
दुसऱ्या पक्षकाराचे नाव.....
हस्ते व्यक्तीचे नाव व पत्ता.....

9 SEP 2015
पथ प मुद्रांक
कोषणात

NOTARY
MAMTA K. SHAH
PUNE DIST.
REGD. NO. 9057
EXPIRY DATE
30/10/2016
GOVERNMENT OF INDIA

MEMORANDUM OF UNDERSTANDING BETWEEN THE WORLD RESOURCES INSTITUTE (WRI) AND PUNE MUNICIPAL CORPORATION (PMC), PUNE

This "non-binding" Memorandum of Understanding (MOU) is made in Pune, India on 6th day of November, 2015 between the undersigned:

The World Resources Institute, a non-profit, non-governmental organization, with Headquarters at 10 G Street, N.E., Suite 800, Washington, D.C., 20002, USA, (hereinafter referred to as "WRI") represented by Mr. Madhav Pai, India Director, WRI Ross Centre for Sustainable Cities, of the first part

Madhav Pai

Mamta K. Shah



And

Pune Municipal Corporation (hereinafter referred to as "PMC" which expression will include its successors and permitted assigns, unless repugnant to the context or meaning) acting through its Municipal Commissioner Mr. Kunal Kumar, IAS, of the second part

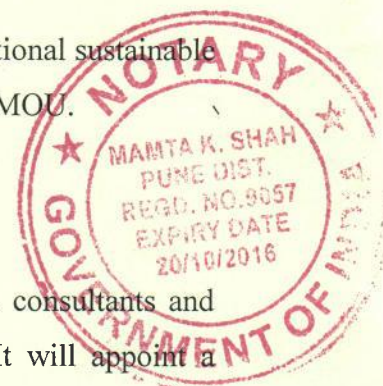
The purpose of the MOU is to establish the basis and structure of collaboration between PMC and WRI to catalyse specific sustainable transport solutions to problems of urban mobility.

CLAUSE 1: OBJECTIVES

- 1.1 To have an integrated, systematic effort to address transport challenges facing Pune, such as road safety, traffic congestion, long commute time, inadequate mobility alternatives, poor transport infrastructure, and transport-related pollutants
- 1.2 To address these challenges through specific sustainable transport project initiatives that are economically, socially and environmentally sustainable
- 1.3 To develop such initiatives in the areas of transport and land-use planning, public transit, para-transit and non-motorised transport, including but not limited to the development of Public Bicycle Sharing system, Non-Motorised Transport network, and public transport data integration
- 1.4 To support Pune in its effort to get selected and develop transport projects under the Government of India's Smart City Mission
- 1.5 In order to achieved these objectives, WRI will provide technical expertise in the areas of project development, policy support and capacity development
- 1.6 By mutual agreement between the parties mentioned here in above, additional sustainable transport-related initiatives may be developed under the auspices of this MOU.

CLAUSE 2: EXECUTION

- 2.1 PMC will ensure and coordinate the participation of its staff, external consultants and other resources towards achieving the objectives under this MOU. It will appoint a senior project manager for each of the initiatives who will have the requisite skills, experience and authority to keep the initiative moving forward in a timely manner and who will have direct access to the key decision makers.
- 2.2 PMC will make available to WRI all data, drawings, maps, information and other such material that is at its disposal and is necessary for the development of the projects under this Memorandum of Understanding.
- 2.3 The Municipal Commissioner of PMC, who has final decision-making authority for the implementation of the projects being developed under this collaboration, commits to meeting with the representatives of WRI at each major decision point, to discuss options and/or communicate his / her decision to WRI so that WRI can decide what its role and future financial resources commitment should be at subsequent stages of the project.





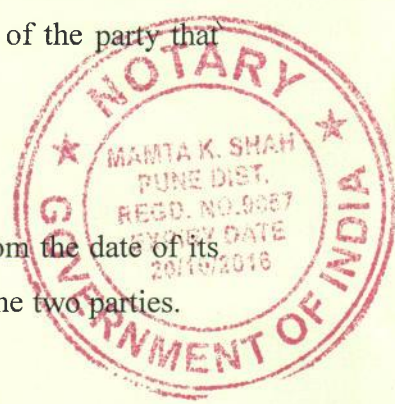
2.4 WRI's work under this collaboration is funded by donor organisations that have committed to support WRI in its endeavour to promote the development of sustainable cities in India, and their continued support depends on WRI's ability to implement real-world projects that have a positive impact on the ground. Both PMC and WRI agree to jointly pursue such feasible projects that have a high likelihood of implementation, and to do everything within their capacities to ensure positive change on the ground in Pune.

CLAUSE 3: RESPONSIBILITIES OF THE PARTIES

- 3.1 This Memorandum of Understanding does not involve the transfer of financial resources between the parties or generate any obligations to either party to compensate each other in case the actions and programs agreed upon do not take place. Each party is responsible for its own expenses.
- 3.2 PMC and WRI agree to jointly and individually seek financial resources for the projects under this collaboration from public and private sources. PMC agrees that funds obtained from external sources by WRI for the planning, design and engineering activities under this collaboration will be managed by WRI.
- 3.3 The obligations with personal and/or third parties, assumed by either of the parties, will not lead to obligations to the other party and are of sole responsibility of the party that has assumed them.

CLAUSE 4: DURATION

4.1 This Memorandum of Understanding has the duration of three years from the date of its signature. It is possible to extend this period with written agreement by the two parties.



CLAUSE 5: ALTERATIONS AND ADDITIONS

- 5.1 Any alteration of the conditions and clauses established in this Memorandum of Understanding must be agreed and signed by both parties to this agreement.
- 5.2 Any issue not defined in the Memorandum should be agreed formally between the parties, signed by the parties, and added to this Memorandum

CLAUSE 6: RESCISSION

6.1 The Memorandum of Understanding can be cancelled by either party, formally, with a minimum of thirty days' notice, by the non-implementation of any of its clauses, or due to a change in law that will not permit its execution.

CLAUSE 7: JURISDICTION

7.1 All the disputes arising out of this Memorandum of Understanding shall be settled within India at Pune as per local applicable prevailing Laws.



The parties sign this instrument in the presence of witnesses.

On Behalf of

World Resources Institute (WRI)

By:

Name: Mr. Madhav Pai

Title: India Director, WRI Ross
Centre for Sustainable Cities

Sign: 6/11/2015

On Behalf of

Pune Municipal Corporation (PMC)

By:

Name: Mr. Kunal Kumar

Title: Municipal Commissioner, PMC

Sign: 6/11/2015

Date:

Date:



BEFORE ME
M. Shah
MAMTA K. SHAH
NOTARY
GOVT. OF INDIA
PUNE DISTRICT

NOTED AND REGISTERED
AT SR. NO 6547/2015
DATE

18 NOV 2015

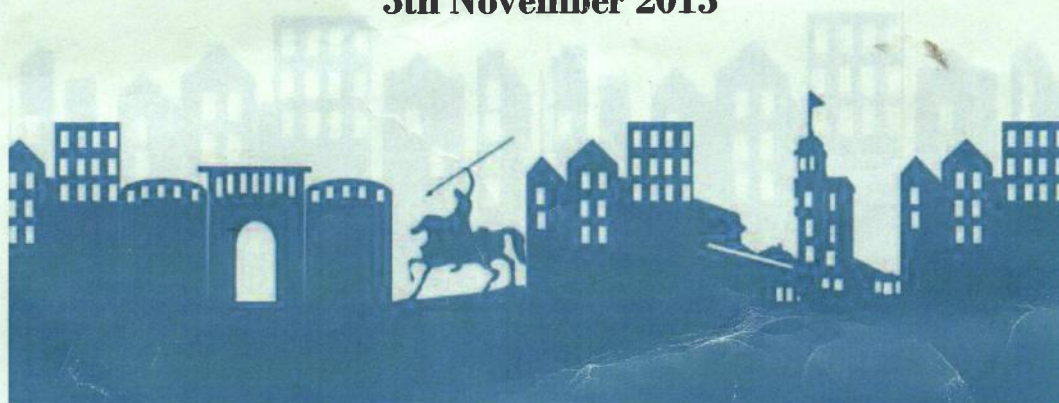


**MEMORANDUM OF UNDERSTANDING
BETWEEN
NASSCOM
AND
PUNE MUNICIPAL CORPORATION (PMC)**

NASSCOM



5th November 2015





NASSCOM भारतीय गैर न्यायिक

एक सौ रुपये

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रु. 100

ONE HUNDRED RUPEES

सत्यमेव जयते

भारत INDIA

INDIAN NON JUDICIAL

महाराष्ट्र MAHARASHTRA

2015

NC 126578

15 SEP 2015

अनु क्र. 31320 दि. 15/09/2015 मु. नु. रकम 100/-
 दस्ताचा प्रकार प्रतिज्ञापत्र
 दस्त नोंदणी करणार आहेत का? होय / नाही.
 भिल्लकतीचे वर्णन
 मुद्रांक विकत घेणाऱ्याची नाव सविंद्र शेठ्ठी
 पत्ता कात्रज पुणे
 दुसऱ्या पक्षकाराचे नाव
 हस्ते व्यक्तीचे नाव व पत्ता संतोष सूर्यवंशी पुणे



Santosh
मुद्रांक विकत घेणाऱ्याची सही

सौ. सुचेता सुहास देशपांडे
परवाना क्र. 220999C
9C3/अ/2 कलबा पेठ, पुणे-११



MEMORANDUM OF UNDERSTANDING BETWEEN NASSCOM AND PUNE MUNICIPAL CORPORATION (PMC), PUNE

This "non-binding" Memorandum of Understanding (MOU) is made in Pune, India on 5th day of November, 2015 between the undersigned:

[Signature]

[Signature]



NASSCOM, having its headquarter at 2nd Floor, International Youth Center, Chanakyapuri, Teen Murti Marg, New Delhi-110021 ("NASSCOM", which expression will include its successors and permitted assigns, unless repugnant to the context or meaning), acting through its Vice President, Ms. Rama Vedashree, of the first part

And

Pune Municipal Corporation (hereinafter referred to as "**PMC**" which expression will include its successors and permitted assigns, unless repugnant to the context or meaning) acting through its Municipal Commissioner Mr. Kunal Kumar, of the second part

NASSCOM and PMC 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 IT industry in terms of deploying state of the art technologies and ICT Solutions, provision of value added and sustainable services, and, investment opportunities.
2. NASSCOM is the apex industry association for the IT-BPM sector in India. It was set up in 1988 and registered under the Indian Societies Act, 1860. A not-for-profit organization funded by the industry, its objective is to build a growth-led, sustainable, technology and business services segment in the country. NASSCOM's membership has grown over the years and have enabled the association to spearhead initiatives and programme to strengthen the sector in the country and globally. NASSCOM has also contributed to the development of two organizations – the Data Security Council of India (DSCI), which is focused on security and the NASSCOM Foundation, which helps drive Corporate Social Responsibility (CSR) initiatives. NASSCOM is headquartered in New Delhi, India, and has offices in seven other cities — Bengaluru, Chennai, Hyderabad, Kolkata, Mumbai, Pune and Thiruvananthapuram.
3. The city of Pune, which spreads across an approx. area of 250 Sq.kms (most likely), is the second largest city in Maharashtra with a population of 31,24,458 (as per 2011, census). Pune is gradually emerging as a prominent location for IT and manufacturing.



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4. However, the city of Pune is facing various urban challenges. Some of them are:

- Management of daily generated 1700 Tonnes of Municipal Solid Waste
- Improvement of traffic management in the city.
- Need of additional buses as per the norms to cater to the growing populations of the city
- Developing of road infrastructure to meet ideal road density as per norms.
- Improvement in management of distribution of water supply, especially in the fringe areas of the city.
- Management of land & assets for infrastructure development to cater the financial requirements for improving infrastructure.

5. NASSCOM proposes to collaborate with PMC to provide guidance on ICT Solutions and Technologies that can help address challenges faced by PMC in various city domains and sub domains including in Urban Governance.

6. NASSCOM will facilitate in bringing across a cross section of its members to showcase potential ICT Solutions that PMC can leverage to make the city smart and subsequently have members engage on opportunities in offering their IT solutions, Products and Services.

7. NASSCOM shall work with PMC in helping it leverage their “Integrated ICT and Geospatial Technologies Framework for 100 Smart Cities Mission” and customize the same for the City of Pune.

2.2 PMC's Responsibilities

- i. PMC will appoint a nodal officer who will be the contact point for the interaction with the PMC and will also be responsible for the smart city initiative.
- ii. PMC will collaborate with NASSCOM to conduct smart city workshops/ Conferences/ Conclaves as and when required in the ICT Domain.
- iii. The nodal officer and the consultants appointed by the PMC will work jointly with NASSCOM to drive the smart city initiative for Pune.



3. Terms and Termination

Both the Parties may terminate this MoU at any time by notice with immediate effect if it reasonably believes that its 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:

4.1 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.

4.2 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. However, this clause would not apply to information which is already available in public domain.

4.3 Expense

Unless otherwise specifically agreed to in writing by the Parties for implementing the Scope of Services, each Party will bear the respective costs of carrying out the obligations under this MOU.

4.4 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.



4.5 Representation

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

4.6 Cooperation

NASSCOM and PMC 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

NASSCOM

By: *Rama Vedashree*

Name: Rama Vedashree

Title: Vice President

Date:

On Behalf of

Pune Municipal Corporation (PMC)

By:

Name: Mr. Kunal Kumar

Title: Municipal Commissioner, PMC

Date:

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[Handwritten mark]

BEFORE ME

M. K. Shah

**MAMTA K. SHAH
NOTARY
GOVT. OF INDIA
PUNE DISTRICT**



NOTED AND REGISTERED
AT SR. NO. *6847/2015*
DATE: *01 DEC 2015*

**MEMORANDUM OF UNDERSTANDING
BETWEEN
FEDERATION OF INDIAN CHAMBERS OF
COMMERCE & INDUSTRY (FICCI)
AND
PUNE MUNICIPAL CORPORATION (PMC)**



4th September 2015



महाराष्ट्र MAHARASHTRA

2015

NE 284844

ज्या कारणासाठी ज्यांनी मुद्रांक खरेदी केला त्यांनी त्याच कारणासाठी मुद्रांक खरेदी केल्यापासुन ६ महिन्यात वापरणे बंधनकारक आहे.

अनु.क्र. १३५५४ दि. ३१.११.१५ मु. शु. क्र. म. १०१

दस्ताचा प्रकार *शुभांगी सुहास बनकर*

दस्त नोंदणी करणार आहेत का? *होय/नाही.*

मिळकतीचे वर्णन

मुद्रांक विकत घेणाऱ्याचे नाव *शुभांगी सुहास बनकर*

पत्ता *४०२, शिवाजी, पुणे*

दुसऱ्या पक्षकाराचे नाव

हस्ते व्यक्तीचे नांव व पत्ता *शुभांगी सुहास बनकर, फो-२०*

शुभांगी सुहास बनकर

परवाना क्र. २२०१११७

मुद्रांक विकत घेणाऱ्याची सही १३४४ शिवाजीनगर, पुणे म.न.पा. समोर, पुणे-५



MEMORANDUM OF UNDERSTANDING BETWEEN FEDERATION OF INDIAN CHAMBER OF COMMERCE AND INDUSTRY (FICCI) AND PUNE MUNICIPAL CORPORATION (PMC), PUNE

This "non-binding" Memorandum of Understanding (MOU) is made in Pune, India on 04TH day of September, 2015 between the undersigned:

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Federation of Indian Chamber of Commerce and Industries (FICCI), having its headquarter at Federation House, 1, Tansen Marg, New Delhi - 110001 ("FICCI", which expression will include its successors and permitted assigns, unless repugnant to the context or meaning), acting through its [authorized representative] **Mr. Anup Sable**, of the first part

And

Pune Municipal Corporation (hereinafter referred to as "PMC" which expression will include its successors and permitted assigns, unless repugnant to the context or meaning) acting through its Commissioner **Mr. Kunal Kumar** of the second part

FICCI and PMC 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. FICCI is a non-government, not-for-profit organization. FICCI is the largest and oldest apex business organization in India that has contributed to the Industrialization in India by encouraging debate, articulating the private sector's views and influencing policy.



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3. FICCI has constituted a committee on Smart Cities to undertake the following:

(i) *Policy Advisory*: recommend changes to the existing policy framework required to enable development of Pune as a “smart city”,

(ii) *Pilot Projects*: identification of pilot projects/ showcase projects/ developmental projects to enable the creation of the necessary infrastructure including any upgradation and renovation of existing facilities so as to provide smart city capabilities and services to the residents of the city of Pune;

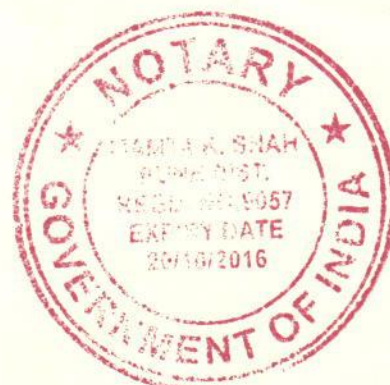
(iii) *Project Advisory and Implementation*: to advise on all aspects of implementation of identified projects (hereinafter collectively referred to as “**Scope of Services**”) as an initiative to enable the implementation of the “smart city” initiative of the Government of India.

4. The city of Pune, which spreads across an approx area of 250 Sq.kms (most likely), is the second largest city in Maharashtra with a population of 31,24,458 (as per 2011 census). Pune is gradually emerging as a prominent location for IT and manufacturing.

5. However, the city of Pune is facing the following urban challenges. Some of them are:

- Management of daily generated 1700 Tonnes of Municipal Solid Waste
- Improvement of traffic management in the city.
- Need of additional buses as per the norms to cater to the growing populations of the city
- Development of road infrastructure to meet ideal road density as per norms.
- Improvement in management of distribution of water supply, especially in the fringe areas of the city.
- Management of land & assets for infrastructure development to cater to financial requirements for improving infrastructure.

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6. FICCI is desirous of associating and collaborating with the PMC to provide support in meeting its urban challenges, some of which are illustrated above, and developing Pune as a smart city through mobilization of the industry expertise and resources.

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 MOU to record the terms and conditions on which FICCI will provide the Scope of Services to the PMC for the development of Pune as a "Smart City".

2. Responsibilities:

2.1 FICCI's Responsibilities

FICCI hereby agrees that it will undertake, either itself or through one or more of the committee members, reasonable endeavours to provide the Scope of Services in accordance with and to the extent requested by PMC with the objective of developing Pune as a "smart city", which will also include the following:

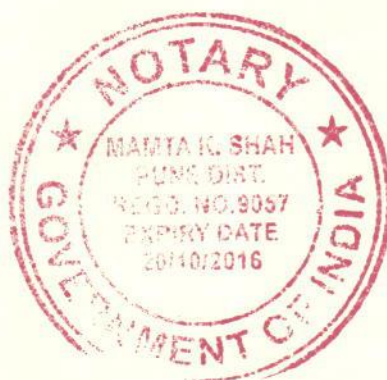
- i. FICCI will jointly work with PMC and all other stakeholders such as industry experts, civil society and other stakeholders to develop vision, goals & strategies for Pune as a Smart City and thereafter support implementation of the same in Pune.
- ii. FICCI, through its committee members, will work in collaboration with PMC in sectors illustrated in para-5 above and in areas like:



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- a) **Creation of Financial plans for various sectors & creation of innovative sources of the Municipal Finance**
 - b) **Legal & contracting issues**
 - c) **Project based support for projects in areas like:**
 1. Transport
 2. Solid Waste Management
 3. Water Supply
 4. Housing
 5. Sewerage
 6. Health
 7. Education
 8. Storm Water Drainage
 - d) **Capacity building to plan, design and execute projects efficiently**
 - e) **Workshop to identify the challenges and solutions**
- iii. FICCI in association with PMC will mobilize the private and public sector industry expertise to share the smart city vision of Pune through campaigning and national/international conferences, thereby promoting Pune as a smart city.
- iv. FICCI in association with PMC will align the interest of industry members with those of the government and also will provide technology support to the Pune Smart City project through the FICCI smart city committee.
- v. FICCI will assist the PMC through required consultation and advisory inputs on policy advocacy relevant to the development of Pune under the smart cities initiative.
- vi. FICCI will also assist the PMC through the process of "City Challenge" competition and thereby support the city to get designated as a smart city.





2.2 PMC's Responsibilities

- i. PMC will appoint a nodal officer who will be the contact point for the interaction with the PMC and will also be responsible for the smart city initiative.
- ii. PMC will allow FICCI to conduct smart city workshops/ Conferences/ Conclaves as and when required to promote Pune as an Investment destination.
- iii. The nodal officer and the consultants appointed by the PMC will work jointly with FICCI to drive the smart city initiative for Pune.

3. Terms and Termination

Both the Parties may terminate this MoU at any time by notice with immediate effect if it reasonably believes that its 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:

4.1 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.

4.2 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



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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.

4.3 Expense

Unless otherwise specifically agreed to in writing by the Parties for implementing the Scope of Services, each Party will bear the respective costs of carrying out the obligations under this MOU.

4.4 Counterparts

The Memorandum of Understanding (MOU) may be signed in any number of counterparts, all of which taken together will constitute one and the same instrument. FICCI and PMC 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.

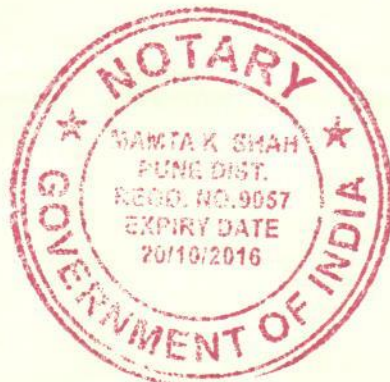
4.5 Entire Agreement

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.

4.6 Representation

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

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AS



4.7 Cooperation



FICCI and PMC 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

Federation of Indian Chamber of Commerce and Industries (FICCI)

By:

Name: Anup Sable

Title: Senior Vice President, KPIT Technologies

On Behalf of

Pune Municipal Corporation (PMC)

By:

Name: Kunal Kumar

Title: Municipal Commissioner, Pune Municipal Corporation

Date: 04 /09/15

Date: 04 /09/15



BEFORE ME
Mamta K. Shah
MAMTA K. SHAH
NOTARY
GOVT. OF INDIA
PUNE DISTRICT

9
NOTED AND REGISTERED
AT SR. NO 5134/2015
DATE: 04 SEP 2015

**MEMORANDUM OF UNDERSTANDING
BETWEEN
CONFEDERATION OF INDIAN INDUSTRY (CII)
AND
PUNE MUNICIPAL CORPORATION (PMC)**



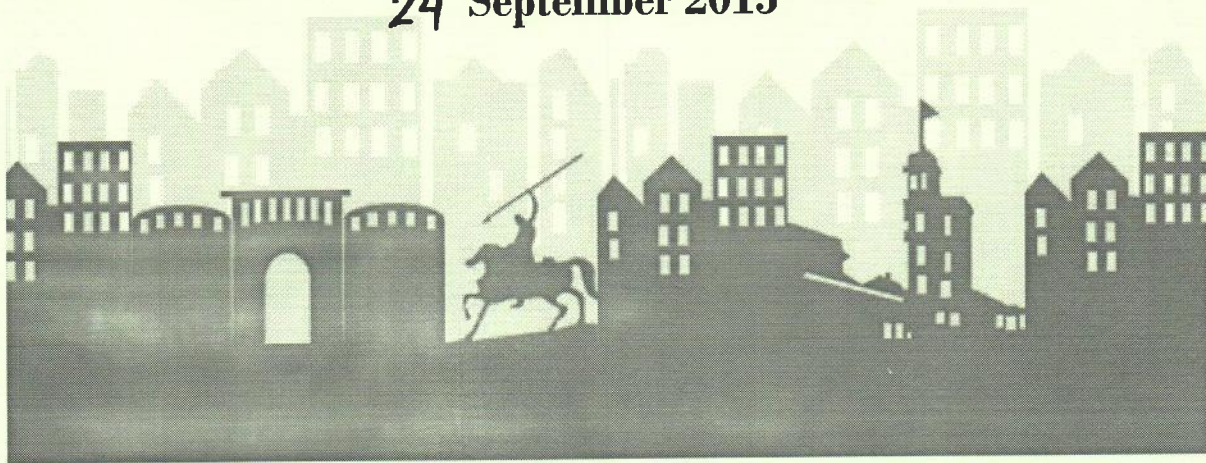
Confederation of Indian Industry

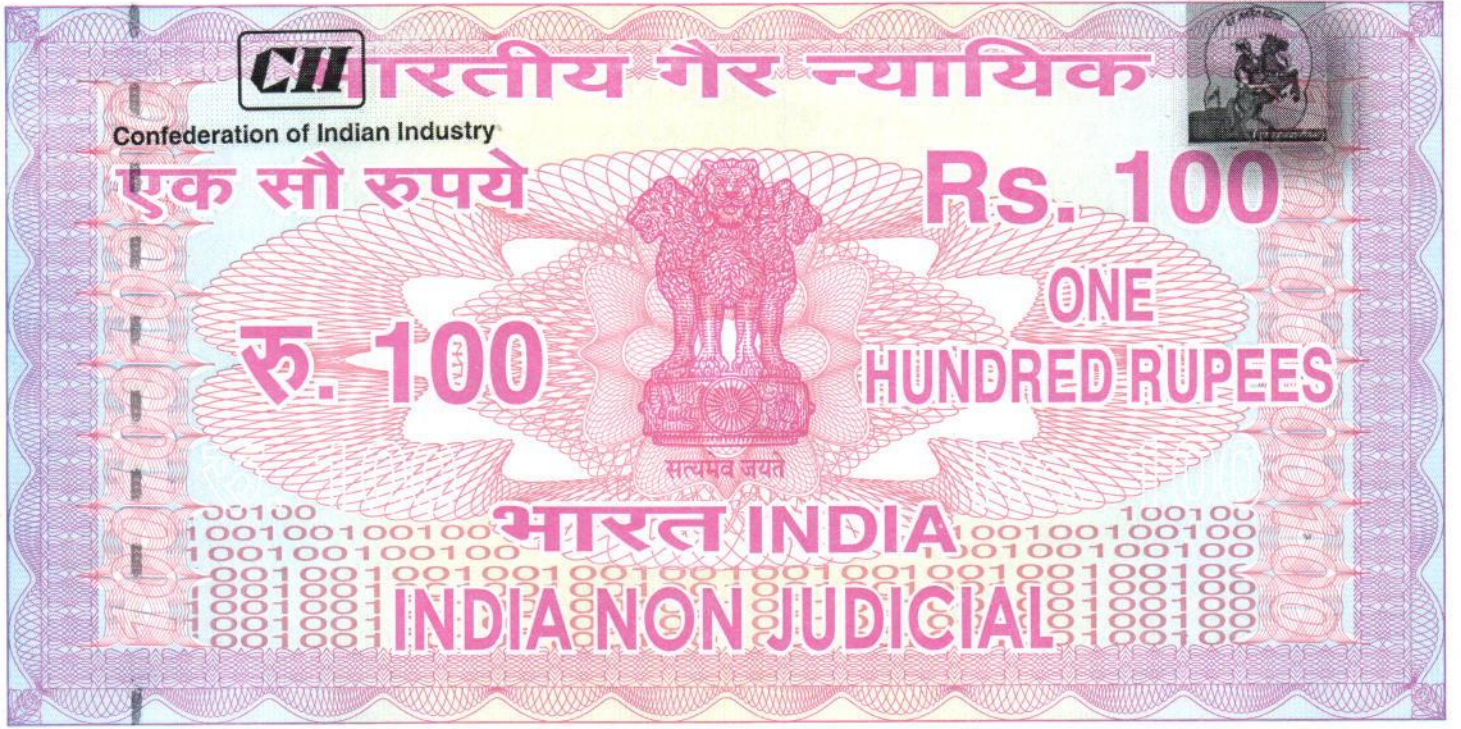


Smart City
MISSION: TRANSFORM NATION



24th September 2015





महाराष्ट्र MAHARASHTRA

● 2015 ●

NC 126581

अनु क्र. ८८२३ दि. १५ SEP २०१५ मु.शु.सं. १००/-
दस्तावा प्रकार प्रतिज्ञापत्र
दस्त नोंदणी करणार आहेत का? होय / नाही.
मिळकतीचे वर्णन
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पत्ता कात्रज पुणे
दुसऱ्या पक्षकाराचे नाव
हस्ते व्यक्तीचे नाव व पत्ता शंतीष शर्यदेशी को



मुद्रांक विकत घेणाऱ्याची सही सौ. सुचेता सुहास देशपांडे
पत्तना क्र. २२०१११८
१८३/अ/२ कसबा पेठ, पुणे-११

MEMORANDUM OF UNDERSTANDING BETWEEN CONFEDERATION OF
INDIAN INDUSTRY (CII) AND PUNE MUNICIPAL CORPORATION (PMC), PUNE

This "non-binding" Memorandum of Understanding (MOU) is made in Pune, India on 24th day of September, 2015 between the undersigned:

N. Carstens

[Signature]



Confederation of Indian Industry



CONFEDERATION OF INDIAN INDUSTRY(CII), having its headquarter at The Mantosh Sondhi Centre 23, Institutional Area, Lodi Road, New Delhi ("CII", which expression will include its successors and permitted assigns, unless repugnant to the context or meaning), acting through its **Deputy Director and Head CII Pune Maj Neil Castelino (Retd)** of the first part

And

Pune Municipal Corporation (hereinafter referred to as "**PMC**" which expression will include its successors and permitted assigns, unless repugnant to the context or meaning) acting through its Commissioner **Mr. Kunal Kumar** of the second part

CII and PMC 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. The Confederation of Indian Industry (CII) works to create and sustain an environment conducive to the development of India, partnering industry, Government, and civil society, through advisory and consultative processes.
3. CII is a non-government, not-for-profit, industry-led and industry-managed organization, playing a proactive role in India's development process. Founded in 1895, India's premier business association has over 7400 members, from the private as well as public sectors, including SMEs and MNCs, and an indirect membership of over 100,000 enterprises from around 250 national and regional sectoral industry



Confederation of Indian Industry



bodies. CII charts change by working closely with Government on policy issues, interfacing with thought leaders, and enhancing efficiency, competitiveness and business opportunities for industry through a range of specialized services and strategic global linkages. It also provides a platform for consensus-building and networking on key issues.

4. CII charts change by working closely with Government on policy issues, interfacing with thought leaders, and enhancing efficiency, competitiveness and business opportunities for industry through a range of specialized services and strategic global linkages. It also provides a platform for consensus-building and networking on key issues.
5. Extending its agenda beyond business, CII assists industry to identify and execute corporate citizenship programmes. Partnerships with civil society organizations carry forward corporate initiatives for integrated and inclusive development across diverse domains including affirmative action, healthcare, education, livelihood, diversity management, skill development, empowerment of women, and water, to name a few.
6. In its 120th year of service to the nation, the CII theme of “Build India- Invest in Development, A Shared Responsibility”, reiterates Industry’s role and responsibility as a partner in national development. The focus is on four key enablers: Facilitating Growth and Competitiveness, Promoting Infrastructure Investments, Developing Human Capital, and Encouraging Social Development.
7. With 66 offices, including 9 Centres of Excellence, in India, and 8 overseas offices in Australia, Bahrain, China, Egypt, France, Singapore, UK, and USA, as well as institutional partnerships with 312 counterpart organizations in 106 countries, CII serves as a reference point for Indian industry and the international business community..
8. CII has constituted a committee on Smart Citiesto undertake the following:
 - (i) Policy Advisory: recommend changes to the existing policy framework required to enable development of Pune as a “smart city”,

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Confederation of Indian Industry



(ii) *Pilot Projects*: identification of pilot projects/ showcase projects/ developmental projects to enable the creation of the necessary infrastructure including any

Upgradation and renovation of existing facilities so as to provide smart city capabilities and services to the residents of the city of Pune;

(iii) *Project Advisory and Implementation*: to advise on all aspects of implementation of identified projects (hereinafter collectively referred to as “**Scope of Services**”) as an initiative to enable the implementation of the “smart city” initiative of the Government of India.

9. The city of Pune, which spreads across an approx area of 250 Sq.kms (most likely), is the second largest city in Maharashtra with a population of 31,24,458 (as per 2011 census). Pune is gradually emerging as a prominent location for IT and manufacturing.

10. However, the city of Pune is facing the following urban challenges. Some of them are:

- Management of daily generated 1700 Tonnes of Municipal Solid Waste
- Improvement of traffic management in the city.
- Need of additional buses as per the norms to cater to the growing populations of the city
- Development of road infrastructure to meet ideal road density as per norms.
- Improvement in management of distribution of water supply, especially in the fringe areas of the city.
- Management of land & assets for infrastructure development to cater to financial requirements for improving infrastructure.

11. CII is desirous of associating and collaborating with the PMC to provide support in meeting its urban challenges, some of which are illustrated above, and developing Pune as a smart city through mobilization of the industry expertise and resources.



Confederation of Indian Industry



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 MOU to record the terms and conditions on which CII will provide the Scope of Services to the PMC for the development of Pune as a "Smart City".

2. Responsibilities:

2.1 CII's Responsibilities

CII hereby agrees that it will undertake, either itself or through one or more of the committee members, reasonable endeavours to provide the Scope of Services in accordance with and to the extent requested by PMC with the objective of developing Pune as a "smart city", which will also include the following:

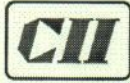
- i. CII will jointly work with PMC and all other stakeholders such as industry experts, civil society and other stakeholders to develop vision, goals & strategies for Pune as a Smart City and thereafter support implementation of the same in Pune.
- ii. CII, through its committee members, will work in collaboration with PMC in sectors illustrated in para-5 above and in areas like:
 - a) **Think tank and Leadership participation from Industry in Consultative Stakeholder participation for creation of Smart City**
 - b) **Inclusion of Citizen Groups like Young Indians and Corporate Members and Non Members in participating in this movement**
 - c) **Suggesting Financial plans for various sectors & creation of innovative sources of the Municipal Finance**



Confederation of Indian Industry



- d) Inviting Stakeholders (Indian and Multinational Service providers) once the terms of reference are clear to define Scope of work**
 - e) Facilitation of overall Project and realisation including Stakeholder Surveys on Satisfaction Index and engagement with the Steering Committee on the same**
 - f) Associate with media partners and communicate the success of the Smart City movement**
 - g) Project based support for projects in areas like:**
 - 1. Transport
 - 2. Solid Waste Management
 - 3. Water Supply
 - 4. Housing
 - 5. Sewerage
 - 6. Health
 - 7. Education
 - 8. Storm Water Drainage
 - h) Capacity building to plan, design and execute projects efficiently**
 - i) Workshop to identify the challenges and solutions**
- iii. CII in association with PMC will mobilize the private and public sector industry expertise to share the smart city vision of Pune through campaigning and national/international conferences, thereby promoting Pune as a smart city.
- iv. CII in association with PMC will align the interest of industry members with those of the government and also will provide technology support to the Pune Smart City project through the CII smart city committee.
- v. CII will assist the PMC through required consultation and advisory inputs on policy advocacy relevant to the development of Pune under the smart cities initiative.



Confederation of Indian Industry



- vi. CII will also assist the PMC through the process of “City Challenge” competition and thereby support the city to get designated as a smart city.

2.2 PMC’s Responsibilities

- i. PMC will appoint a nodal officer who will be the contact point for the interaction with the PMC and will also be responsible for the smart city initiative.
- ii. PMC will allow CII to conduct smart city workshops/ Conferences/ Conclaves as and when required to promote Pune as an Investment destination.
- iii. The nodal officer and the consultants appointed by the PMC will work jointly with CII to drive the smart city initiative for Pune.

3. Terms and Termination

Both the Parties may terminate this MoU at any time by notice with immediate effect if it reasonably believes that its 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:

4.1 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.

4.2 Confidentiality



Confederation of Indian Industry



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.

4.3 Expense

Unless otherwise specifically agreed to in writing by the Parties for implementing the Scope of Services, each Party will bear the respective costs of carrying out the obligations under this MOU.

4.4 Counterparts

The Memorandum of Understanding (MOU) may be signed in any number of counterparts, all of which taken together will constitute one and the same instrument. CII and PMC 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.

4.5 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.

4.6 Representation



Confederation of Indian Industry



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

4.7 Cooperation

CII and PMC 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

Confederation of Indian Industry(CII)

By:

Name: Maj Neil Castelino (Retd)

Title: Deputy Director and Head

CII Pune

Date:/09/15

On Behalf of

Pune Municipal Corporation (PMC)

By:

Name:Kunal Kumar

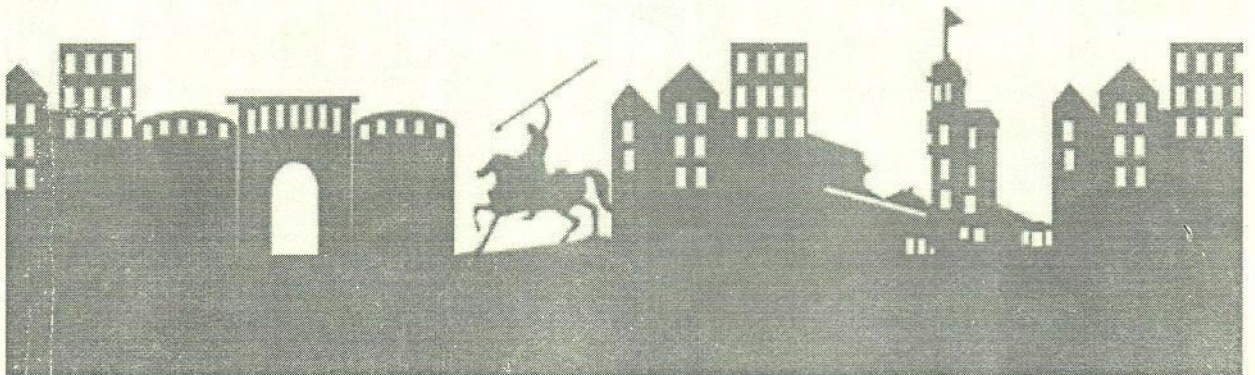
Title: Municipal Commissioner,
Pune Municipal Corporation

Date: /09/15

MEMORANDUM OF UNDERSTANDING
BETWEEN
PRAYAS (ENERGY GROUP)
AND
PUNE MUNICIPAL CORPORATION (PMC)



24th November 2015



एक सौ रुपये

Rs. 100

रु. 100

ONE
HUNDRED RUPEES

सत्यमेव जयते

भारत INDIA

INDIA NON JUDICIAL

महाराष्ट्र MAHARASHTRA

2015

ND 612977

ज्या कारणासाठी ज्यांनी मुद्रांक खरेदी केले त्यांनी त्याच कारणासाठी मुद्रांक खरेदी केल्याबाबत ६ महिन्यात वापरणे बंधनकारक आहे.

अनु.क्र. 29232 दि. 28/11/15 मु.शु.रवाम...

दस्तावा प्रकार प्रतिशत

दस्त नोंदणी करणार आहेत का? होय/नाही.

मिळकतीचे वर्णन

मुद्रांक विकत घेणाऱ्याचे नांव शक्ति शेठे

पत्ता कर्जा येथे

दुसऱ्या पक्षाकारणे नांव

हस्ते व्यक्तीचे नांव व पत्ता शेताय सुर्वशी २४/११/१५

मुद्रांक विकत घेणाऱ्याची सही १३४४ किवाजंनगर, पुणे म.न.पा. समोर, पुणे-४

शुभांगी सुहास बनदार
परवाना क्र. २२०१११७

मुद्रांक विकत घेणाऱ्याची सही १३४४ किवाजंनगर, पुणे म.न.पा. समोर, पुणे-४

शक्ति शेठे
23 NOV 2015
प्रमाण मुद्रांक लिपीक
करिता

NOTARY
MAMTA K. SHAH
PUNE DIST.
REGD. NO. 9057
EXPIRY DATE
20/10/2018
GOVERNMENT OF INDIA

MEMORANDUM OF UNDERSTANDING BETWEEN
PRAYAS (ENERGY GROUP)
AND PUNE MUNICIPAL CORPORATION (PMC), PUNE

This "non-binding" Memorandum of Understanding (MOU) is made in Pune, India on 24th of November, 2015 between the undersigned:

Signature of Prayas (Energy Group) and Pune Municipal Corporation (PMC), Pune

1. **Prayas** a registered trust incorporated/registered under the Bombay Public Charitable Trusts Act, 1950 and having its registered office at Amrita Clinic, Athawale Corner, Karve Road, Deccan Gymkhana, Pune - 411 004, INDIA , (herein after called PEG which expression shall include its successors in interest and permitted assigns) its _____ Mr. _____, of the one part

And

2. **Pune Municipal Corporation** (hereinafter referred to as "PMC" which expression will include its successors and permitted assigns, unless repugnant to the context or meaning) acting through its Commissioner Mr. Kunal Kumar of the second part

PEG and PMC 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. The city of Pune is the second largest city in Maharashtra with a population of 31,24,458 (as per 2011 census). Pune is gradually emerging as a prominent location for IT and manufacturing. Pune is actively participating in GoI's 'Smart City Initiative'.
2. PEG: Prayas (Energy Group) has been active in furthering public-interest in the energy sector through research and analysis for over two decades. During this period, it has made significant contributions to the Indian energy sector and has established its credibility among the various actors in the sector through its comprehensive and analytically sound approach to issues. PEG has been part of advisory committees of several ERCs and number of Government of India committees relating to energy.
3. PMC and PEG would like to associate and collaborate towards promoting extensive utilisation of solar energy in Pune.





Now, pursuant to the ongoing discussions between the parties, this MOU purports to summarize the principal terms of intended engagement. This MOU records the preliminary understanding between them.

I. Purpose:

Purpose of this MoU is to facilitate development of comprehensive strategy for increasing use of solar energy in Pune.

II. Responsibilities:

A. PEG shall provide, to the extent possible, advice to PMC for development of solar strategy for the city, including but not limited to following matters

1. Techno-economic analysis, and business model development for deployment of rooftop solar PV (RTPV) on PMC buildings.
2. Communication and awareness campaign and material for encouraging increased use of solar energy by Pune citizens.
3. Development of citizen friendly tool to promote solar energy.
4. Coordination with stakeholders to ease procedural and other requirements for faster uptake of RTPV.

B. PMC will, to the extent possible, coordinates with other stakeholders such as MSEDCL, industry, and citizens groups to promote solar energy.

1. PMC will, subject to administrative and other requirements, consider undertaking following specific measures
2. Development of solar map for the city and user friendly, interactive app / website to provide citizens of Pune with specific, detailed and upto date information about potential of RTPV on their specific building and costs, performance, subsidy, solar developers and legal / regulatory requirements and procedures to installing RTPV
3. Effective facilitation drive in synergy with MSEDCL to encourage maximum number of citizens to go solar. PMC along with MSEDCL may hold regular camps in the ABB area to facilitate and fast track the inter-connection and net-metering process through simplified and time bound processes.







III. Term and Termination:

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

This MOU shall be valid for a period of 3 years from the date of signing, unless it is terminated earlier:

- i. By way of consummation of a definitive agreement; or
- ii. By either Party for any reason what so ever.

This MOU is issued solely for the purpose of communicating the intent on part of the Parties to transact business with each other. All the terms and conditions shall be finalized on the basis of a definitive agreement.

If no contract is consummated, this MOU shall be treated as null and void.

IV. Other Terms:



1. 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.

2. 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.

3. Expense:

Unless otherwise specifically agreed to in writing by the Parties for implementing the Scope of Services, each Party will bear the respective costs of carrying out the obligations under this MOU.

4. Counterparts:

The Memorandum of Understanding (MOU) may be signed in any number of counterparts, all of which taken together will constitute one and the same instrument. PEG and PMC 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.

5. 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.

6. Representation:

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

7. Cooperation:

PEG and PMC 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.







8. Liability:

This MOU shall attract no liability whatsoever to either of the Parties.

9. Governing Law:

This MOU shall be governed by the laws of India.

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



On Behalf of

PRAYAS (ENERGY GROUP) (PEG)

By:

Name:

Title:

Date: 24th November 2015

On Behalf of

PUNE MUNICIPAL CORPORATION

By:

Name: Kunal Kumar

Title: Municipal Commissioner, Pune Municipal Corporation

Date: 24th November 2015



BEFORE ME
Mamta K. Shah
MAMTA K. SHAH
NOTARY
GOVT. OF INDIA
PUNE DISTRICT

NOTED AND REGISTERED
SR. NO. *6845/2015*
DATE: *01 DEC 2015*

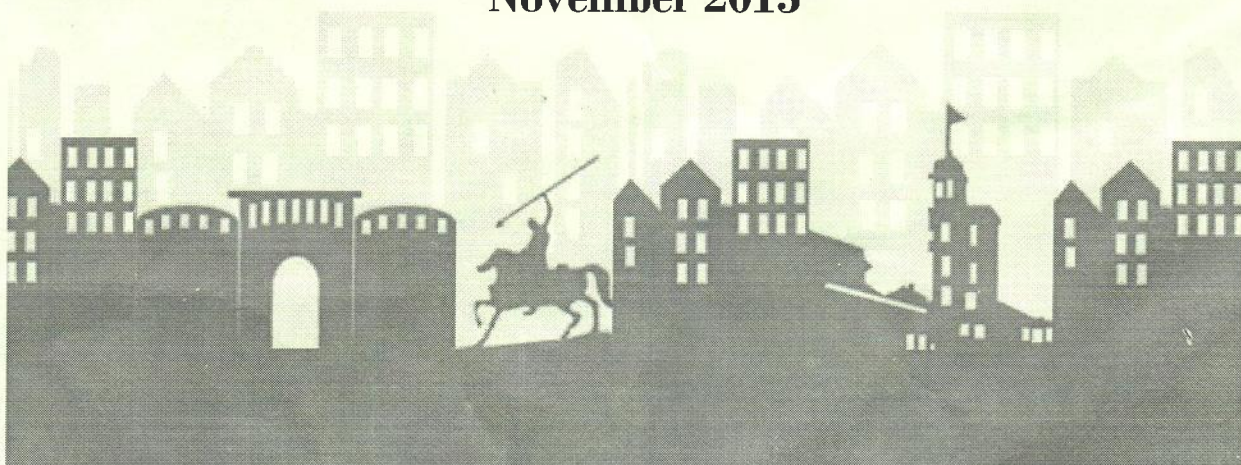
**MEMORANDUM OF UNDERSTANDING
BETWEEN
AND
INSTITUTE FOR TRANSPORTATION AND
DEVELOPMENT POLICY (ITDP)
PUNE MUNICIPAL CORPORATION (PMC)**



Smart City
MISSION TRANSFORMATION



November 2015





महाराष्ट्र MAHARASHTRA

ज्या कारणासाठी ज्यांनी मुद्रांक खरेदी केला त्यांनी त्याच कारणासाठी मुद्रांक खरेदी करण्यास मुबं महिन्यात वापरणे बंधनकारक आहे.

U 393396

अनु.क्र. 22763 दि. 22/11/15 मु. शु. रकम 500/-

दस्तावा प्रकार MOU

रॉल नोंदणी करणार आहोत का? हो/नाही.

मिळकतीचे उपाय

मुद्रांक विकत घेण्याचे नांव सुधा आय टी पी.

पत्ता प्रिंटिंग कॉम्पनी शिवाजी नगर पुणे 411004

दुसऱ्या पक्षाकराचे नांव सुधा आय टी पी

हरत व्यक्तीचे नांव व पत्ता सुधा आय टी पी साने पुणे 411004

Santaleka सोमना काधर

अभिहित करीत जायत

दि. 22/11/2015

मुद्रांक विकत घेण्याची ही मुद्रांक कालनी विषयक मुबं-20



28 OCT 2015

प्रमुख मुद्रांक अधिकारी
कोषागार पुणे करिमा



**MEMORANDUM OF UNDERSTANDING BETWEEN INSTITUTE FOR
TRANSPORTATION AND DEVELOPMENT POLICY (ITDP) AND PUNE
MUNICIPAL CORPORATION (PMC), PUNE**

This "non-binding" Memorandum of Understanding (MOU) is made in Pune, India on 9th day of November, 2015 between the undersigned:

Santaleka

[Signature]



Institute for Transportation and Development Policy (ITDP), represented in India by the Urban Works Institute, having its headquarter at No.5/2, Nehrunagar, 3rd Street, Adyar, Chennai - 20, India ("ITDP", which expression will include its successors and permitted assigns, unless repugnant to the context or meaning), acting through its [authorized representative] Ms. Shreya Gadepalli, of the first part

And

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

ITDP and PMC 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. The Institute for Transportation and Development Policy (ITDP) is an international not-for-profit non-governmental organization dedicated to the promotion of environmentally sustainable and equitable transport. Over the past three decades, ITDP has been providing technical support to several cities worldwide to develop strategic mobility plans, bus rapid transit (BRT) systems, walking and cycling infrastructure, parking management systems, transit-oriented development plans, and sustainable transport policies.
3. ITDP will undertake the following:

Shreya Gadepalli

Kunal Kumar



(i) Policy Advisory: recommend changes to the existing policy framework required to enable development of Pune as a “smart city”,

(ii) Pilot Projects: identification of pilot projects/ showcase projects/ developmental projects to enable the creation of the necessary infrastructure including any upgradation and renovation of existing facilities so as to provide smart city capabilities and services to the residents of the city of Pune;

(iii) Project Advisory and Implementation: to advise on relevant aspects of implementation of identified projects (hereinafter collectively referred to as “**Scope of Services**”) as an initiative to enable the implementation of the “smart city” initiative of the Government of India.

4. However, the city of Pune is facing various urban challenges. Some of them are:

- Management of daily generated 1700 Tonnes of Municipal Solid Waste
- Developing urban transport infrastructure, especially walking, cycling and public transport, to facilitate efficient, safe, and convenient mobility of people.
- Improvement in management of distribution of water supply, especially in the fringe areas of the city.
- Management of land & assets for infrastructure development to cater the financial requirements for improving infrastructure.

5. ITDP is desirous of associating and collaborating with the PMC to provide support in meeting its urban challenges, such as environmentally sustainable and equitable transport.

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 MOU to record the terms and conditions on which ITDP will provide the Scope of Services to the PMC for the development of Pune as a "Smart City".

2. Responsibilities:

2.1 ITDP's Responsibilities

ITDP hereby agrees that it will undertake endeavours to provide the Scope of Services in accordance with and to the extent requested by PMC with the objective of developing Pune as a "smart city", which will also include the following:

- 1) Guiding PMC on sustainable transport aspects under Smart Cities Mission.
- 2) Providing technical inputs and support to PMC for the implementation of sustainable transport initiatives under the smart cities proposal.
- 3) Capacity building to plan, design and execute sustainable transportation projects efficiently
- 4) ITDP will provide technical support and pay for any experts that it brings to conduct such workshops.
- 5) ITDP, will work in collaboration with PMC in the sustainable transport sector, and in areas like:
 - a. Creation of Financial plans for sustainable transport sectors & creation of innovative sources of the Municipal Finance
 - b. Project based support for projects in areas like:
 - Public Transport
 - Non Motorized Transportation
 - Walkability/ Pedestrian Infrastructure



Shri. P. K. Reddy

[Signature]



2.2 PMC's Responsibilities

- i. PMC will appoint a nodal officer who will be the contact point for the interaction with the PMC and will also be responsible for the smart city initiative.
- ii. PMC will collaborate with ITDP to conduct smart city workshops/ Conferences/ Conclaves as and when required to promote Pune as an Investment destination.
- iii. The nodal officer and the consultants appointed by the PMC will work jointly with ITDP to drive the smart city initiative for Pune.

3. Terms and Termination

This MoU is applicable for the preparation of smart city proposal for Pune. Both the Parties may terminate this MoU at any time by notice with immediate effect if it reasonably believes that its 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:

4.1 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.

4.2 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

INDIA

Shreyashchandra

[Signature]



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.

4.3 Expense

Unless otherwise specifically agreed to in writing by the Parties for implementing the Scope of Services, each Party will bear the respective costs of carrying out the obligations under this MOU.

4.4 Counterparts

The Memorandum of Understanding (MOU) may be signed in any number of counterparts, all of which taken together will constitute one and the same instrument. ITDP and PMC 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.

4.5 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.

4.6 Representation

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



[Handwritten signature in blue ink]

[Handwritten signature in black ink]



4.7 Cooperation

ITDP and PMC 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

**Institute for Transportation &
Development Policy (ITDP)**

Pune Municipal Corporation (PMC)

By: *Shreya Gadepalli*

By: *Kunal Kumar*

Name: Ms. Shreya Gadepalli

Name: Mr. Kunal Kumar

Title: Regional Director, ITDP India

Title: Municipal Commissioner, PMC

Date: 9th NOVEMBER 2015

Date: 9th NOVEMBER 2015



BEFORE ME
M. K. Shah
MAMTA K. SHAH
NOTARY
GOVT. OF INDIA
PUNE DISTRICT

NOTED AND REGISTERED
SR. NO. *6848/2015*
DATE: *01 DEC 2015*

MEMORANDUM OF UNDERSTANDING
BETWEEN
CENTRE FOR DEVELOPMENT OF
ADVANCED COMPUTING (C-DAC)
AND
PUNE MUNICIPAL CORPORATION (PMC)

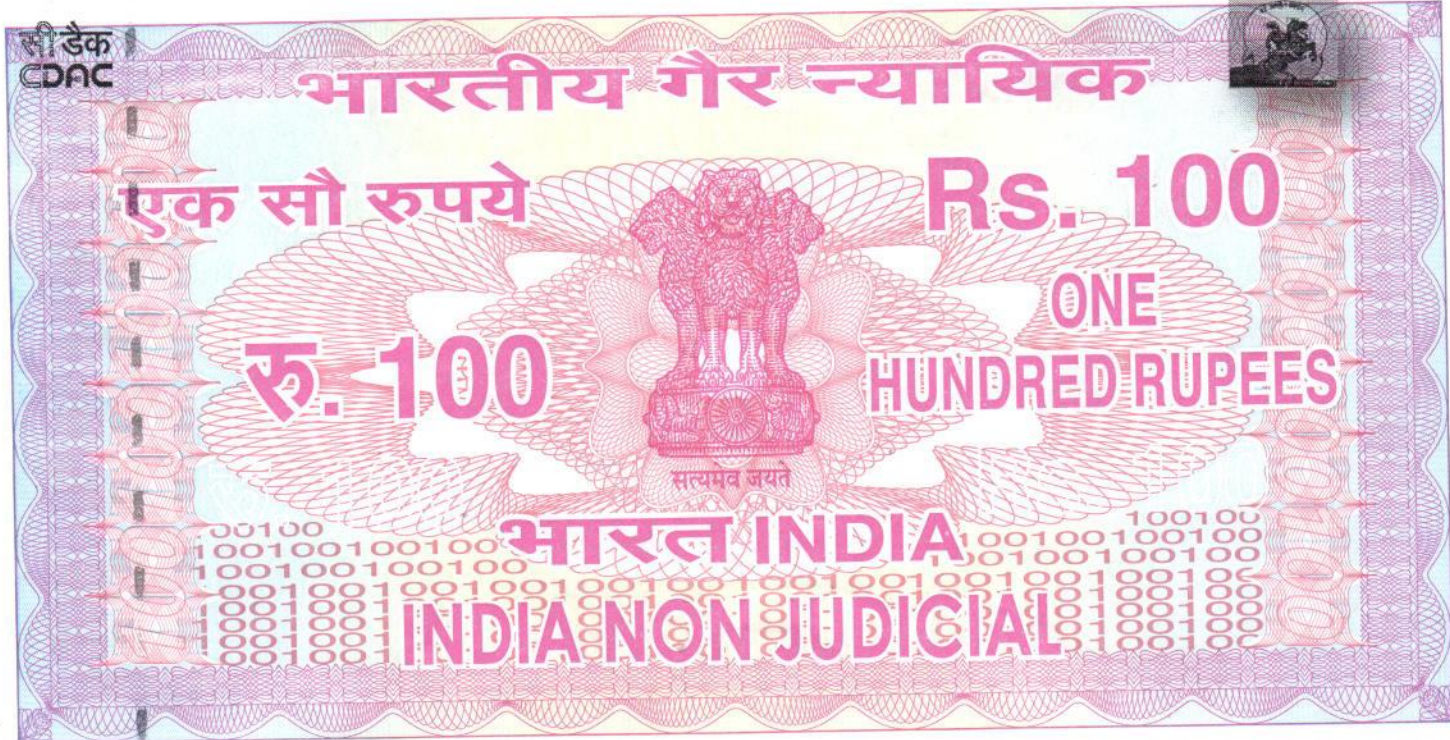


Smart City
BRIDGING TRANSFORMATION



15th September 2015





महाराष्ट्र MAHARASHTRA

● 2015 ●

NC 126580

५८२२ 15 SEP 2015
अनु क्र.....दि.....नु.नु.रकम 100/-
दस्तावा प्रकार..... प्रतिज्ञापत्र
दस्त नोंदणी करणार आहेत का? होय / नाही.
मिळकतीचे वर्णन.....
मुद्रांक विकत घेणाऱ्याचे नाव रविंद्र शेळगे
पत्ता कात्रज पुणे
दुसऱ्या पक्षकाराचे नाव
हस्ते व्यक्तीचे नांव व पत्ता. संतोष सुर्यवंशी पुणे

Suryash
मुद्रांक विकत घेणाऱ्याची सही
सौ. सुवेता सुहास देशपांडे
परवाना क्र. २२०९९९८
१८३/अ/२ कलक पेट, पुणे-११



MEMORANDUM OF UNDERSTANDING BETWEEN
CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING (C-DAC)
AND PUNE MUNICIPAL CORPORATION (PMC), PUNE

This "non-binding" Memorandum of Understanding (MOU) is made in Pune, India on 15th of September, 2015 between the undersigned:



Centre for Development of Advanced computing (C-DAC), having its headquarter at Pune University Campus, Ganeshkhind, Pune – 411007, India (hereinafter referred to as "C-DAC", which expression will include its successors and permitted assigns, unless repugnant to the context or meaning), acting through its Director (Admin & Legal) and Head (Admin) **Mr. R.Y. Despande**, of the first part

And

Pune Municipal Corporation (hereinafter referred to as "PMC" which expression will include its successors and permitted assigns, unless repugnant to the context or meaning) acting through its Commissioner **Mr. Kunal Kumar** of the second part

C-DAC and PMC 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. C-DAC was set up by then Department of Electronics (now renamed as Department of Electronics and Information Technology (DeitY),Govt. of India) to emerge as a premier R&D institution for the design, development and deployment of electronic and ICT technologies and applications for socio-economic advancement with the mission of expanding the frontiers of Information and Communication Technologies, evolving technology solutions, architectures, systems and standards for nationally important problems, achieving rapid and effective spread of knowledge by overcoming language barriers through application of technologies, sharing experience and know-how to help build advanced competence in the field of Information Technology, bringing benefits of Information Technology to society in the form of Smart Cities.



3. PMC was established on 15 February 1950. It controls the whole administration of Pune. The PMC is in charge of the civic needs and infrastructure of the metropolis. PMC has been shortlisted by GoI for the next round of selection of Smart Cities and approached C-DAC seeking benefit of C-DAC's experience and expertise in development and deployment of e-Governance/smart solutions.
4. After some interactions at different levels, both parties intend to work together/collaborate to provide support in transforming Pune into Smart Pune under Smart Cities Mission and will collaborate as **ICT based 'Knowledge Partner'** and execute the projects as mutually agreed upon.
5. C-DAC has constituted a committee on Smart Cities to undertake the following:
 - (i) Departmental Diagnosis: AS-IS Analysis of the existing departments to explore the gap and to assist PMC in development of Pune as a 'Smart City'.
 - (ii) Restorative Recommendations: Based on the departmental diagnosis, put forward IT based smart solutions that shall make the department self-sustained with qualitative empowerment. Identification of pilot/showcase/developmental projects to enable the creation of the necessary infrastructure including any upgradation and renovation of existing facilities so as to provide smart city capabilities and services to the residents of the city of Pune.
 - (iii) Project Advisory and Implementation: To advise on main aspects of implementation of identified projects (hereinafter collectively referred to as '**Scope of Services**') and assist in the subsequent implementation to realise the 'Smart City' initiative of the Government of India.
6. However, the city of Pune is facing following urban challenges. Some of them are:
 - Management of daily generated 1700 Tonnes of Municipal Solid Waste
 - Poor Management for natural and man-made disasters.
 - Hard reached Health related facilities and awareness amongst citizen.
 - Improvement of traffic management in the city.
 - Need of additional buses as per the norms to cater to the growing populations of the city

4



- Development of road infrastructure to meet ideal road density as per norms.
- Improvement in management of distribution of water supply, especially in the fringe areas of the city.
- Management of land & assets for infrastructure development to cater to financial requirements for improving infrastructure.

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 C-DAC will provide the Scope of Services to the PMC for the development of Pune as a 'Smart City'.

2. Responsibilities:

2.1 C-DAC's Responsibilities

C-DAC hereby agrees that it will undertake, either itself or through one or more of the committee members, reasonable endeavours to provide the Scope of Services in accordance with and to the extent requested by PMC with the objective of developing Pune as a "smart city", which will also include the following:

- i. C-DAC will jointly work with PMC to develop vision, goals & strategies for Pune as a Smart City and thereafter support implementation of the same in Pune through agreed upon Terms and Conditions by both the parties, as and when required.
- ii. C-DAC, through its appointed Nodal Officer, will work in collaboration with PMC in sectors illustrated in para-6 above and in areas like:
 - a) Creation of Information Technology based Application proposals for various sectors & creation of innovative sources of sustenance for the PMC.
 - b) Technological & knowledge based matters.
 - c) Project based support in areas such as:
 1. Transport
 2. Solid Waste Management



- iii. The nodal officer and the consultants appointed by the PMC will work jointly with C-DAC to drive the smart city initiative for Pune.
- iv. PMC shall provide all required/requested complete, correct, and accurate inputs/information/charts/figures/diagrams/reports etc. enabling C-DAC to fulfil its responsibilities under this MoU.
- v. PMC shall accord and communicate all required/ requested approvals / acceptances/ sanctions in a time-bound manner.
- vi. PMC shall acknowledge C-DAC's contribution in media/publicity material.

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:

4.1 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.

4.2 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.

[Handwritten signatures]



4.3 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.

PMC acknowledges and agrees that C-DAC will endeavour to do above mentioned activities/responsibilities subject to availability of financial, manpower and other resources for the purpose of this MoU.

PMC further acknowledges and agrees that C-DAC shall not be responsible and liable to PMC/its officials/employees/consultants/contractors etc. or any citizen/ user/ other person for any direct/indirect/consequential damages/loss (monetary or otherwise including but not limited to loss of profits/ reputation/ money/ opportunity/ data/ goodwill etc.) arising out of or incidental to this MoU.

4.4 Counterparts

The Memorandum of Understanding (MOU) may be signed in any number of counterparts, all of which taken together will constitute one and the same instrument. C-DAC and PMC 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.

4.5 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.



4.6 Representation

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

4.7 Co-operation

C-DAC and PMC 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

Centre For Development of Advanced Computing (C-DAC)

By:

Deshpande

Name: R.Y. Deshpande

Title: Director (Admin & Legal) and Head (Admin), C-DAC, Pune

Date: 15/09/2015

On Behalf of

Pune Municipal Corporation (PMC)

By:

Kunal Kumar

Name: Kunal Kumar

Title: Municipal Commissioner, PMC

Date: 15/09/2015

Sandeep K. Srivastava
15/9/15
Sandeep K. Srivastava
Associate Director
C-DAC, Pune

Witness
[Signature]
15/9/15
DMC (Sp1)

BEFORE ME
Mamta K. Shah
MAMTA K. SHAH
NOTARY
GOVT. OF INDIA
PUNE DISTRICT



NOTED AND REGISTERED
AT SR. NO. 5328/2015
DATE: 15 SEP 2015

15 SEP 2015

To,
The Municipal Commissioner,
Pune Municipal Corporation
Main Building
Shivaji Nagar,
Pune - 411015

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

Dear Sir,

It gives me immense pleasure to applaud Pune Municipal Corporation for its efforts as smart city initiative for Pune City. I firmly believe that that this initiative will greatly benefit city /citizens.

Further, I am writing to express my full support to PMC for proposed "Smart City project". It's our pleasure to be a part of the Smart City initiative and feel confident expressing my full support in future.

We look forward to working with PMC in future



Dr. Ganesh Natarajan

Vice Chairman & CEO

Signature : _____



**EXECUTIVE COMMITTEE
2015 - 2016**

PRESIDENT

Er. Diwakar Nimkar

(O) 2546 3523 (M) 98220 94688
Email : expertise100@yahoo.com

IMM. PAST PRESIDENT

Ar. Suresh Modak

(O) 2547 4062 (M) 98905 33176
Email : sumo810@gmail.com

VICE PRESIDENT

Ar. Pushkar Kanvinde

(O) 2433 9055 (M) 98220 21433
Email : pmkanvinde@gmail.com

CHAIRMAN

Ar. Sanjay Tasgaonkar

(M) 98223 92951
Email : tas.sanjay@gmail.com

HON. SECRETARY

Ar. Ravindra Kanhere

(O) 3252 7244 (M) 94223 32674
Email : ravinkanhere78@yahoo.com

HON. JT. SECRETARY

Ar. Chinmay Y. Kale

(O) 2447 8869 (M) 98001 10102
Email : archinil@gmail.com

TREASURER

Ar. Harshal Kavdikar

(O) 2453 5676 (M) 99606 83944
Email : hkavdikar@gmail.com

E.C. MEMBERS

Ar. R. M. Shenolikar

(M) 93703 27300
Email : rmshenolikar@yahoo.in

Er. Dhairyashil Khairepatil

(O) 2553 0441 (M) 98221 98499
Email : dkhairepatil@gmail.com

Er. R. D. Deshpanday

(O) 2765 8870 (M) 98220 31373
Email : rdd@rdddpl.com

Ar. Kalpak Bhandari

(O) 2553 5656 (M) 98220 35776
Email : kalpakb@hotmail.com

Ar. Abhijit Natu

(O) 2545 0450 (M) 99224 33101
Email : natuabhijit@gmail.com

Date : 7th December 2015

To,
The Municipal Commissioner,
Pune Municipal Corporation
Main Building, Shivaji Nagar,
Pune - 411015

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

Dear Sir,

It gives me immense pleasure to applaud Pune Municipal Corporation for its efforts as smart city imitative for Pune City. I firmly believe that that this initiative will greatly benefit city /citizens.

Further, I am writing to express my full support to PMC for proposed "Smart City project". It's our pleasure to be a part of the Smart City initiative and feel confident expressing my full support in future.

We look forward to working with PMC in future

Ar. Ravi Kanhere
Hon Secretary, AESA



MAHRATTA CHAMBER OF COMMERCE, INDUSTRIES AND AGRICULTURE

December 5, 2015

The Municipal Commissioner,
Pune Municipal Corporation
Main Building
Shivaji Nagar,
Pune - 411015

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

Dear Sir,

It gives us immense pleasure to applaud Pune Municipal Corporation for its efforts as smart city initiative for Pune City. We firmly believe that that this initiative will greatly benefit city /citizens.

Further, we are writing to express our full support to PMC for proposed "Smart City project". It's our pleasure to be a part of the Smart City initiative and feel confident expressing our full support in future.

We look forward to working with PMC in future.

Thanking you,

Yours faithfully,

A handwritten signature in blue ink, appearing to read 'Anant Sardeshmukh', is written over a faint, large watermark of a building.

Dr. Anant Sardeshmukh
Director General

**PUNE
JOURNALISTS'
FOUNDATION**



193 Navi Peth, Near Ganjave Chowk, Pune - 411030. Tel.: 24534190, 24530214, Fax : 24534190 Mob.: 8087000497

Dt-7 Dec 2015

To,
The Municipal Commissioner,
Pune Municipal Corporation
Main Building
Shivaji Nagar,
Pune - 411015

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

Dear Sir,

It gives me immense pleasure to applaud Pune Municipal Corporation for its efforts as smart city imitative for Pune City. I firmly believe that that this initiative will greatly benefit city /citizens.

Further, I am writing to express my full support to PMC for proposed "Smart City project". It's our pleasure to be a part of the Smart City initiative and feel confident expressing my full support in future.

We look forward to working with PMC in future



Umesh Ghongade

**Umesh Ghongade
President
Pune Patrakar Pratishthan**

- Registered under societies' Registration Act 1860 at No. Maharashtra/6139-91/Pune
- Also Registered under Bombay Public Trust Act 1950 at No. F 7248 (Pune)
- Donations exempt under section 80G Income Tax Act 1961 vide No. PN/165/P 261/1994-95



पुणे हॉकर्स सर्व सेवा सहकारी संस्था मर्यादित पुणे

नोंदणी-क्रमांक : पीएनए/पीएनए/(१)जीएनएल/(ओ)/१४८७/२००८-०९

नोंदणी कार्यालय : द्वारा सिंधुताई महाडिक, ज्ञानदीप कॉलनी. सहवास सोसायटी,
प्रियांका सुपर मार्केटच्या वर, कर्वेनगर, पुणे-४११०५२. संपर्क : ९४२०४८२१३७/९८८९९९८९३२



संस्थेची टप्या टप्याने सुरू होणारी कामे :

- सेवा केंद्र
- दैनंदिन बचत बँक
- पोळी - भाजी केंद्र
- फॅशन डिझायनिंग प्रशिक्षण केंद्र
- खाद्यपदार्थ विक्री केंद्र
- होजिअरी विक्री केंद्र
- सल्ला-मार्गदर्शन केंद्र
- अशिक्षित/सुशिक्षित
बेरोजगारांना प्रशिक्षण केंद्र
- जिथे मागणी तिथे सेवा

याशिवाय

रोजगार व स्वयंरोजगार
विभाग शासन निर्णय
क्रमांक : रोस्वरो-२००२/
प्र/क्र. २६७/रोस्वरो-१
दिनांक १७ ऑगस्ट २००२
मार्गदर्शक तत्वाचा
उपयोग करून संस्थेला
आर्थिकदृष्ट्या बळकट करणे.

संचालक मंडळ

- चेअरमन
- श्रीमती सिंधुताई महाडिक
- सेक्रेटरी
- श्री. संजय शंके
- खजिनदार
- श्री. गणेश पंखेवाला
- सदस्य
- श्री. सुरेश अग्रवाल
- श्री. अजय कदम

जा.क्र. : पु/हॉ/स/से/स/सं

दिनांक : ०५/१२/२०१५

To,
The Municipal Commissioner,
Pune Municipal Corporation,
Main Building
Shivaji Nagar,
Pune - 411015.

Subject : Letter of Support for Pune Smart City initiative under
Smart City Mission.

Dear Sir,

It gives me immense pleasure to applaud Pune Municipal Corporation for its efforts as smart city initiative for Pune City. I firmly believe that that this initiative will greatly benefit city/citizens.

Further, I am writing to express my full support to PMC for proposed "Smart City Project". It's our pleasure to be a part of the Smart City initiative and feel confident expressing my full support in future.

We look forward to working with PMC in future.

Yours Sincerely

Bandu Wakle Patil

उप आयुक्त (विशेष)

पुणे महानगरपालिका

उप आयुक्त (वि) कार्यालय

पुणे महानगरपालिका

आवक क्र. ३/९२२

दिनांक ०५/१२/१५

भीमज्योत हॉकर्स संघटना

कामकाज कार्यालय : द्वारा संगिता ठाकर, डॉ. बाबासाहेब आंबेडकर वसाहत, औंध, पुणे ४११००७.

Email: ssanjay1234@refifimail.com/punenhf@gmail.com

संपर्क - ९४२२०२९८०८ / ८४१२०९८०८

दिनांक : ०५/१२/२०१५

To,
The Municipal Commissioner,
Pune Municipal Corporation,
Main Building
Shivaji Nagar,
Pune – 411015.

Subject : Letter of Support for Pune Smart City initiative under Smart City Mission.

Dear Sir,

It gives me immense pleasure to applaud Pune Municipal Corporation for its efforts as smart city initiative for Pune City. I firmly believe that that this initiative will greatly benefit city/citizens.

Further, I am writing to express my full support to PMC for proposed "Smart City Project". It's our pleasure to be a part of the Smart City initiative and feel confident expressing my full support in future.

We look forward to working with PMC in future.

Yours Sincerely


Manoj Bidkar



उप आयुक्त (विशेष)

पुणे महानगरपालिका

उप आयुक्त (वि) कार्यालय
पुणे महानगरपालिका
आवक क्र. ३/९२०
दिनांक ०५/१२/१५

जाणीव संघटना प्रणित

हातगाडीवाले, फेरीवाले, पथारीवाले, खोंचा, सायकल,
स्टॉलवाले संघटना, पुणे. (महाराष्ट्र राज्य)
नोंदणी क्रमांक २४३२ पुणे
कार्यालय : द्वारा वंचित विकास, ४०५/९, नारायण पेट,
मोदी गणपती मंदीर मागे, पुणे - ४११ ०३०.
फोन : ०२०-२४४५४६५८, २४४८३०५०
मोबाईल : संजय शंके - ०९४२२०२९८०८
ई-मेल : ssanjay1234@rediffmail.com



JANEEV HAWKERS SANGHTANA, PUNE

(Maharashtra State)

Regd. No. 2432, Pune Section 1,

: OFFICE :

C/o Vanchit Vikas, 405/9, Narayan Peth,
Behind Modi Ganapati Temple, Pune - 411 030.

Ph. : 020-24454658, 24483050

Mob. : Sanjay Shanke - 09422029808,

E-mail : ssanjay1234@rediffmail.com

संस्थापक : मा. श्री. विलास चाफेकर

जावक क्र. :

दिनांक :

To,
The Municipal Commissioner,
Pune Municipal Corporation,
Main Building
Shivaji Nagar,
Pune – 411015.

Subject : Letter of Support for Pune Smart City initiative under Smart City Mission.

Dear Sir,

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Further, I am writing to express my full support to PMC for proposed "Smart City Project". It's our pleasure to be a part of the Smart City initiative and feel confident expressing my full support in future.

We look forward to working with PMC in future.

Sanjay Shanke

Member : Town Vending Committee P.M.C., Pune

Secretary : Janeev Hawkers Union

Secretary: National Hawkers Federation, Pune

Secretary: Pune Hawkers Sarva Seva Co-op. Society, Pune.

Founder: Dilasa Janvikas Sanstha, Maharashtra

Email: ssanjay1234@rediffmail.com/punenhf@gmail.com

Mobile : +91 9422029808. + 91 8412099808

उप आयुक्त (विशेष)

पुणे महानगरपालिका

उप आयुक्त (वि) कार्यालय

पुणे महानगरपालिका

आवक क्र. ३/९२३

दिनांक ०५/१२/१५

'कर्तव्याच्या कार्यावर संस्थेचा पूल बांधुया'

दिलासा जन विकास संस्था



DILASA JAN VIKAS SANSTHA

नोंदणी क्रमांक: ६९९-९७ पुणे सार्वजनिक दिश्वस्त
नोंदणी क्रमांक : एफ / १३९५७ / पुणे
कार्यालय : द्वारा संजय शंके, प्लॉट नं. १००१, वडारवाडी,
दिप बंगला चौक, शिवाजीनगर, पुणे महा. - ४११०१६.
मो.: ०९४२२०२९८०८ Email: ssanjay1234@rediffmail.com

Societies Registration no. Maha./ 699-97 Pune
Public Charitable Trust No. F/ 13957 / Pune
C/o. Sanjay Shanke, Plot No. 1001, Wadarwadi,
Deep Bangla Chowk, Shivajinagar,
Pune, Maha. - 411 016 Mo. 09422029808
Email: punenhf@gmail.com

Founder : Sanjay Shanke

जावक क्र.

दिनांक : ०५/१२/२०१५

To,
The Municipal Commissioner,
Pune Municipal Corporation,
Main Building
Shivaji Nagar,
Pune - 411015.

Subject : Letter of Support for Pune Smart City initiative under Smart City Mission.

Dear Sir,

It gives me immense pleasure to applaud Pune Municipal Corporation for its efforts as smart city initiative for Pune City. I firmly believe that that this initiative will greatly benefit city/citizens.

Further, I am writing to express my full support to PMC for proposed "Smart City Project". It's our pleasure to be a part of the Smart City initiative and feel confident expressing my full support in future.

We look forward to working with PMC in future.

Yours Sincerely

Bharati Pankhewale
Bharati Pankhewale

Pankhewale
उप आयुक्त (विशेष)
पुणे महानगरपालिका

उप आयुक्त (वि) कार्यालय
पुणे महानगरपालिका
आवक क्र. ७/२२१
दिनांक ०५/१२/१५

नॅशनल हॉकर्स फेडरेशन

कामकाज कार्यालय : द्वारा संजय शंके, १००१ वडारवाडी,
आकाशगंगा सोसायटी समोर, दीप बंगला चौक, शिवाजीनगर , पुणे ४११०१६.
Email punedjs@gmail.com/ssanjay1234@rediffmail.com/punenhf@gmail.com
संपर्क : ०९४२२०२९८०८/०८४४६४२९८०८

दिनांक : ०५/१२/२०१५

To,
The Municipal Commissioner,
Pune Municipal Corporation,
Main Building
Shivaji Nagar,
Pune – 411015.

Subject : Letter of Support for Pune Smart City initiative under Smart City Mission.

Dear Sir,

It gives me immense pleasure to applaud Pune Municipal Corporation for its efforts as smart city initiative for Pune City. I firmly believe that that this initiative will greatly benefit city/citizens.

Further, I am writing to express my full support to PMC for proposed "Smart City Project". It's our pleasure to be a part of the Smart City initiative and feel confident expressing my full support in future.

We look forward to working with PMC in future.

Yours Sincerely

Abhay Agrwal
Abhay Agrwal

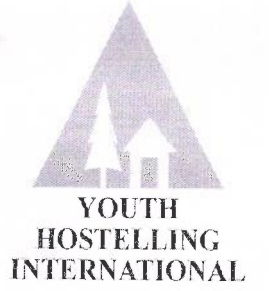
उप आयुक्त (विशेष)
पुणे महानगरपालिका

उप आयुक्त (वि) कार्यालय
पुणे महानगरपालिका
आवक क्र. ७/९२९
दिनांक ०५/१२/१५



युथ हॉस्टेल्स असोसिएशन ऑफ इंडिया

पुणे शाखा
महाराष्ट्र राज्य शाखा
Reg. No. : S-932 Of 1955-56



नॅशनल पॅटर्न

भारताचे माननिय राष्ट्रपती

महाराष्ट्र राज्य शाखा

अध्यक्ष :

श्री. धनंजय प्रभुणे

कार्याध्यक्ष :

श्री. हृषिकेश यादव

पुणे शाखा

अध्यक्ष :

श्री. अनिल पेंडसे

कार्याध्यक्ष :

श्री. धनंजय प्रभुणे

उपाध्यक्ष :

श्री. हिमांशु जोशी

श्री. दीपक गोसावी

कार्यावाहक :

श्री. किरण खळदकर

खजिनदार :

श्री. परमात्मन उपाध्ये

सल्लागार समिती :

श्री. श्रीनिवास ठाकूर

अॅड. श्याम लंके

डॉ. नरेंद्र जावडेकर

डॉ. रणजीत देशमुख

To,
The Municipal Commissioner,
Pune Municipal Corporation
Main Building
Shivaji Nagar,
Pune - 411015

Date 07-12-2015

Subject: Letter of Support for Pune Smart City Initiative under Smart City

Mission

Dear Sir,

It gives me immense pleasure to applaud Pune Municipal Corporation for its efforts as smart city imitative for Pune City. I firmly believe that that this initiative will greatly benefit city /citizens.

Further, I am writing to express my full support to PMC for proposed "Smart City project". It's our pleasure to be a part of the Smart City initiative and feel confident expressing my full support in future.

We look forward to working with PMC in future.

Kiran Khaladkar
Secretary, Y.H.A. Pune Unit.

द्वारा : ट्रॅव्हल फॅन्टसी, १४/५ एरंडवणा, श्रीकृष्ण विल्डींग, दिनानाथ मंगेशकर रुग्णालया जवळ, पटवर्धन वाग,
पुणे- ४११००४. दूरध्वनी क्र-(०२०)२५४५ ८६५३.



ऑटो रिक्शा चालक मालक सघटना संयुक्त कृती समिती (महाराष्ट्र)

अध्यक्ष:- शरद राव

जिल्हा अध्यक्ष:- बाबा शिंदे

सरचिटणीस:- बाबा कांबळे

जिल्हा सरचिटणीस :- अशोक साळेकर

मुंबई संपर्क:- २/११ उन्नत नगर नं.४, महात्मा गांधी मार्ग, गोंरेगांव (पश्चिम) मुंबई-४०००६२ फोन-०२२२ २९९८९९
पुणे संपर्क:- ३४/३५ गणेश पेठ, गोंविंद हलवाई चौक, पुणे-४११००२, मो. ९७६७७९९९९६
सातारा रोड, पंचमी हॉटेल जवळ, एस.टी. कॉलनी शेजारी, पुणे-९ मो.९६८९८९३२०७ ई-मेल-ashoksalekar.as@gmail.com

दिनांक :- 06-12-2015

To,
The Municipal Commissioner,
Pune Municipal Corporation,
Main Building, Shivaji Nagar,
Pune - 411 015

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

Dear Sir,

It gives me immense pleasure to applaud Pune Municipal Corporation for its efforts as smart city initiative for Pune City. I firmly believe that this initiative will greatly benefit city/citizens.

Further, I am writing to express my full support to PMC for proposed "Smart City Project". It's our pleasure to be a part of the Smart City initiative and feel confident expressing my full support in future.

We look forward to working with PMC in future.

Name : Baba Shinde

Signature :

Mob. No : 9767791116



पुणे शहर ऑटो रिक्शा फेडरेशन

ऑफिस:- ३४/३५ गणेश पेठ, गोविंद हलवाई चौक, पुणे-४११००२ (रजि.क्र.२२५५)
निवास-०२०-२६३५८०२९, ऑफिस:- ०२०-२६३४८३९९

अध्यक्ष :- बाबा शिंदे

३४/३५ गणेश पेठ, पुणे -४११००२.

जा.क्र.

दिनांक :- 06-12-2015

To,
The Municipal Commissioner,
Pune Municipal Corporation,
Main Building, Shivaji Nagar,
Pune - 411 015

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

Dear Sir,

It gives me immense pleasure to applaud Pune Municipal Corporation for its efforts as smart city imitative for Pune City. I firmly believe that this initiative will greatly benefit city/citizens.

Further, I am writing to express my full support to PMC for proposed "Smart City Project". It's our pleasure to be a part of the Smart City initiative and feel confident expressing my full support in future.

We look forward to working with PMC in future.

Name : Pradip. S. Bhalerao

Signature : *Bhalerao*

Mob. No : 9422007569



The International Association of Lions Clubs

Dist 323 D2



Lion Anil Mandrupkar

Dist. Ch. Swachha Bharat - Rural

Lake Town Society, Bldg. No. B-10,
Flat No. 804, Survey No. 11, Katraj,
Pune - 411 046. M. : 98811 28303
E-mail : lionanilpune@yahoo.com

Lion Suketu Shah

Dist. Ch. Swachha Bharat - Urban

494/14, Flat No. 2, Vandana Apartment,
Mitramandal Chowk, Parvati,
Pune - 411 009. M. : 9371016674 / 94
E-mail : suketu1961@yahoo.co.in

Lion Mahadappa Andure

Addl. Ch. Swachha Bharat

Sahil Height, S. No. 6/7, D-203,
Pimple Nilakh, Pune - 411 027.
M. : 9325007811
E-mail : mahadev.andure@gmail.com

Lion Rajnikant Oza

Addl. Ch. Swachha Bharat

83/4, Sandhya Society, Sahakar
Nagar No. 2, Pune - 411 009.
M. : 9822098368
E-mail : ozarajanikant@gmail.com

To,
The Municipal Commissioner,
Pune Municipal Corporation
Main Building
Shivaji Nagar,
Pune - 411015

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

Dear Sir,

It gives me immense pleasure to applaud Pune Municipal Corporation for its efforts as smart city imitative for Pune City. I firmly believe that that this initiative will greatly benefit city /citizens.

Further, I am writing to express my full support to PMC for proposed "Smart City project". It's our pleasure to be a part of the Smart City initiative and feel confident expressing my full support in future.

We look forward to working with PMC in future

Your's in Lionism,

Lion Anil Mandrupkar

Charter President





**Office of Municipal Commissioner
Pune Municipal Corporation**
4th Floor, Main Building, Shivajinagar
Pune-411005

**Outward No.DMC(s) 557
Date: 04/12/15**

To,
Mr. P. A. Inamdar
H.G.M Azam College of Education
2390,KB. Hidayatullah Road
Azam Campus, Camp
Pune-411001
info@mcesociety.org, admin@azamcampus.org

Subject: Appreciation letter for your extended support to the Pune Smart Mission during
Citizen Engagement Phase.

Greetings from Pune Municipal Corporation!!!

Pune Municipal Corporation appreciates your interest in offering services to support
Pune Municipal Corporation's initiative towards transforming Pune into Smart City.

Pune has been earlier shortlisted in the first stage of challenge under Smart cities
Mission and further found a place among 100 prospective smart cities in the country to be
developed under Smart Cities Mission. For second stage of the competition i.e Challenge
Round 2, each of the potential Cities have to prepare their Smart City Proposal (SCP) under
which Citizen Engagement has played a pivotal role in finalizing the vision for the City and
further preparation of Smart City proposal. Now we are at the final stage of preparing and
submitting the Smart City Proposal for Pune City to MouD, GOI

PMC also believes that your support in citizen engagement helped endeavors which
resulted into the creation of the largest ever "**Citizen Engagement Model**" in the history of
the Urban World. Also, it gives me immense pleasure to inform you that we have got
overwhelming response from the citizen which covers 50% of the families covering 15 lakhs
of population of the city in our Citizen Engagement Phase for finalizing the vision and city
profile.

Pune Municipal Corporation expresses its deep appreciation for helping and supporting the whole citizen engagement campaign and also looking forward for more support in future. PMC would request you to provide a letter of support (Performa attached) from your organization in support to Pune Smart City Initiative.

For any further query please email to punesmartcity@gmail.com and nodal point of contact for the same will be Mr Mangesh Dighe Environment Officer (9689931771).

Thank you once again for supporting our collaborative efforts.



(Kunal Kumar)
Municipal Commissioner
Pune Municipal Corporation



Kunal Kumar

I.A.S.

Municipal Commissioner

26 SEP 2015

Subject: Engagement of MBA–IM students from SCMHRD, Symbiosis for Pune Smart City Project.

Dear

Dr. Yeravdekar,

I welcome our collaboration where in MBA–IM students from SCMHRD, Symbiosis would work with us as interns for Smart Cities Mission. This is a path breaking partnership which brings together academia with Government in mission mode in finding solutions for real life issues faced by the city.

Further, with reference to your email regarding budget proposal based on 60 days of engagement, we convey our agreement with the same. We would however like you to undertake the expenditure up front and thereafter let us reimburse the amount to you.

We believe this engagement will to a long way in enabling transformation of Pune city under Smart Cities Mission.

With Best Regards!!!

(Kunal Kumar)

To,

Dr. Vidya Yeravdekar,
Principle Director,
Symbiosis Society,
Pune.

37 part 2

Pune Municipal Corporation, Shivajinagar, Pune - 411 005

☎ (O) 25501103 (Fax) 25501104
e-mail : aconmnc@gmail.com

8TH Dec 2015

To

Municipal Commissioner
Pune Municipal Corporation
Pune

Subject : Selection of Baner -Aundh area as a development model in Smart City mission

Sir,

We are aware that Government of India has launched an ambitious mission "Smart Cities' in India. It is the result of the efforts taken by Pune Municipal Corporation that Pune is amongst the front runner for being selected as one of the Smart Cities in India.

We understand that the area of Baner in the belt of S.No. 220 to 240 measuring about 70 acres is being earmarked for development of smart city. Out of the total land mentioned above, we are having ownership rights / development rights for an area of 11300 sq.mtrs for Survey No. 238 (Part) & 239 (Part). Through this letter we would like to inform you that we will consider to take part in the smart city scheme subject to terms of mutual benefit in the smart city proposal.

Once again we wish you all the best for taking active part in this mission and making the city of Pane a better place to live.

Thanks

For M/a Aditya Builders

Authorised Signatory

38 part 1

Corporate Office:

619 Sadashiv Peth, Bajirao Road, Pune 411 030.
Tel.: +91-20- 2449 0851 / 2 Telefax: +91-20- 2445 9146
Email : info@adityabuilders.com

Mumbai Office:

714 Gokhale Road (N), Above ICICI Bank,
Dadar (W), Mumbai 400 028.
Tel.: +91-22- 2444 0237 Telefax: +91-22- 445 0376
www.adityabuilders.com

To,

07th December 2015

Municipal Commissioner,
Pune Municipal Corporation,
Pune.

Subject: Selection of Baner- Balewadi- Aundh area as a development model in Smart City Mission

Sir,

We are aware that Government of India has launched an ambitious mission 'Smart Cities' in India. It is the result of the efforts taken by Pune Municipal Corporation that Pune is amongst the front runner for being selected as one of the Smart Cities in India.

We understand that the area of Baner measuring about 70 acres which is shown as TPS in the draft development plan submitted by PMC to State Government is being earmarked for development on the basis of Land pooling mechanism such as Town Planning Schemes, special planning area etc. Out of the total land mentioned above we are having ownership rights/ development rights for an approx., area of 4.18 acres for Survey Nos. 228/2, 229/1, 229/2 & 230/1, Baner Village . Through this letter we would like to assure you that we are happy to take part in this Scheme and will do the development as envisaged in the Smart City proposal subject to mutually acceptable finalization of terms & procedures for the same.

Once again, we wish you all the best for taking active part in this Mission and making the City of Pune a better place to live.

Thanks,

Yours Sincerely,



Ranjit Naiknavare
Director



12 October 2015

Kunal Kumar
Municipal Commissioner
Pune Municipal Corporation
4th Floor, Main Building, Shivajinagar
Pune 411005 Maharashtra
India

Dear Kunal Kumar,

I would like to thank you and your team for submitting your application to the IEEE Smart Cities Initiative.

We received many proposals and the review process was conducted by a group of eight reviewers, each of them reviewing proposals outside of their own geographical region to ensure an open and unbiased evaluation. The evaluation has been made assessing several criteria including focus, commitment, diversity, roadmap, and presence of a strong IEEE Chapter/Section and of a diverse and committed team of partners from the local municipality, universities, and industries.

This year the IEEE Smart Cities Initiative is able to include two additional cities. Your application has been ranked very well although, for now, it has not been possible to select your city.

Considering the very high value of your application we would like to invite your city to become an Affiliated Smart City for the IEEE Smart Cities Initiative, and we request your permission to publish information from your application to give visibility to your smart city.

Being an IEEE Affiliated Smart City entitles you to:

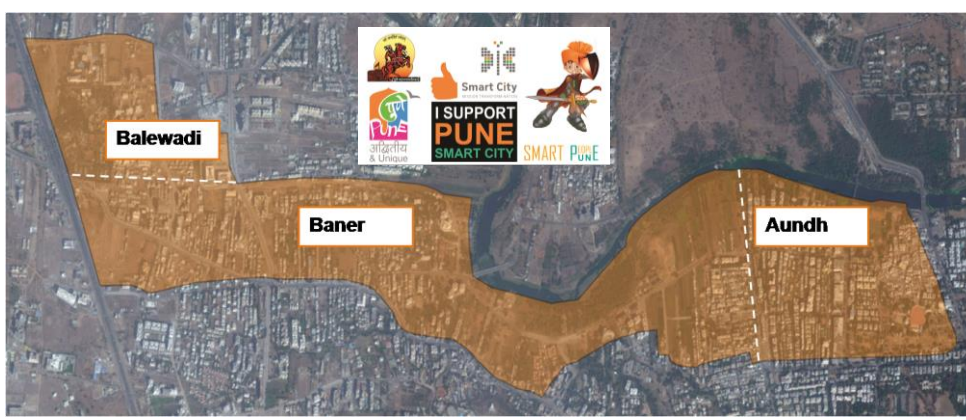
- Brand your city as an IEEE Smart Cities "Affiliated Smart City" in any official communications
- Promote your city's developments through the IEEE Smart Cities website with contributed articles or whitepapers to inform the world of plans and progress on your 'smartification' process
- Preferred speaker registration to IEEE Smart Cities Initiative conferences, including the second IEEE Smart City Conference, which will be held in Trento, Italy in September 2016
- Participate in one of the two kick-off workshops of the new core cities (Kansas City, Missouri, USA and Casablanca, Morocco) that will be held before the end of 2015

In 2016 we will set-up a collaborative program of activities that will allow affiliated cities to become more active partners within the IEEE Smart Cities Initiative network, according to the profile of each partners and the type of involvement they wish to develop.

We look forward to a future collaboration and wish you every success in your path to become a smart city.

Sincerely,

Gilles Betis
Chair
IEEE Smart Cities Initiative



**PUNE MUNICIPAL CORPORATION
SMART CITY MISSION- ABB CITIZEN PLEDGE OF SUPPORT**

I/we, _____ resident of Aundh- Baner- Balewadi region (ABB), Pune want to make ABB the most livable place in the world and a model smart area that can be later replicated across Pune. My/our vision is to ensure every citizen of ABB has a good quality of life in the neighborhood with all the resources and opportunities required for the same available conveniently. I/we understand that the journey towards becoming a smart City will require active participation from me/us in the future. I/we commit to be the driver of this change in my/our own respective ways. I/we pledge to support the implementation of the regulations framed, discipline required and take up the responsibility of co-creating a sustainable, transparent and participatory smart society as a responsible resident/s.

I/we pledge support to below smart initiatives

- Give up water subsidy and adopt Smart water metering in all residential and commercial establishments
- Solar panels on rooftops, net electricity and smart grid
- Setup and treat all sewage through individual sewage water recycling plant (STP) in all societies with morethan 150 residents
- Rain-water harvesting in all buildings
- Segregate all organic, recyclable and other waste
- Swachh ABB with zero garbage on streets and public spaces
- E-governance and digital services and applications
- Collaboration and support to make ABB a zero-crime area

I also pledge to support the Urban Local Body with funding the smart initiatives and support any additional cess or fee that might be levied to operate and maintain the infrastructure and services.

Sl	Full Name of each family member	Place (Aundh/Baner/Balewadi)	Contact No. of head of family/ any member	Signature
1				
2				
3				
4				
5				
6				

Note: Please fill the names of all family members and atleast the signature of head of family/ any one member of the family/ all family members

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Shantilal Kataria

katariashantilal@gmail.com

Imm. Past President

Hemant Naiknavare

hemant@naiknavare.com

Vice Presidents

Rohit Gera

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Amit Parmar

amit501@hotmail.com

December 14, 2015

CREDAI-Pune Metro/15-16/2269

To,

The Municipal Commissioner,
Pune Municipal Corporation
Main Building
Shivaji Nagar,
Pune - 411015

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

Dear Sir,

Greetings from CREDAI-Pune Metro.

The CREDAI- Pune Metro is an Association of Builders and Promoters of Pune and Pimpri Chinchwad area. It is established in 1982 and since then is operating for the promotion of Real Estate Sector in the region over more than 33 years.

It has a strong membership of 425 plus members consisting of leading Promoters and Builders of Pune which accounts for about 70% of the construction activities in Pune.

CREDAI-Pune Metro closely works with Government and Semi-Government agencies and takes initiative in policy formation. CREDAI-Pune Metro discharges various Corporate Social Responsibilities directly and through its Members.

It gives us immense pleasure to applaud Pune Municipal Corporation for its efforts as smart city initiative for Pune City. We firmly believe that this initiative will greatly benefit city /citizens.

Further, we are writing to express our full support to PMC for proposed "Smart City project". It's our pleasure to be a part of the Smart City initiative and feel confident expressing our full support in future.

We look forward to working with PMC in future.

Thanking you,
Yours faithfully,
For CREDAI-Pune Metro



Shantilal Kataria
President