

MMRDA Smart City Ecosystem



MMR Smart city Journey in comparison to Global Cities



Smart BKC



May 2015

Three Dimensions to Smart BKC



Brownfield Smart City Project- Smart BKC Phases



Smart Cities: Equitable, Sustainable, Inclusive Collaborative and Participative

Smart BKC : Foundation Initiatives

1.Public WIFI	2. Smart Parking	3. Smart Street	4. Video Analytics & Surveillance	5. Citizen Apps
5 MBPS High Speed Wireless Internet Connectivity	3000 Smart Parking Slots	841 Streetlights based on Solar power	Complete E & G Block covered with 90 cameras	33000 man-days saving due to ease of access of information
175 Hectare Area Covered in Public Wi-Fi in BKC	Parking Time Reduced from 20 minutes to 5 minutes	800 tonnes of Carbon Reduced Annually	Greater coordination among Security Agencies	Improves Citizen Communication
Seamless Wi-Fi Connectivity Across E& G Blocks	19000 Liters of Fuel saved annually	Energy Consumption reduced by 40%	Reduced Street furniture theft	Improved Emergency Alert and Response
50,000 man days saved per year	24 tonnes of Carbon Reduced Annually	200KW of Clean energy generated	Improved Emergency Response	6.5 lakhs Employees Covered
Public Wi-Fi as Value Added service for Business and Exhibition Use	Reduction in Unauthorized Parking	Reduced Maintenance Cost	Secured Business Environment	Increase in ease of Business in BKC

Smart BKC – Technical Architecture Framework

GOVERNANCE MODEL



Multi Utility Pole- model



detection))) Concealed Placement Speaker D Image Sensor / Pedestrian Counter feed to grid 3. LED Lights Digital Signage HPSV. 4. CCTV Camera Push To Talk System

1. Sensors

- · Sensors for light, motion and object
- Can be used for parking, streetlights or lumen adjustment

2. Grid Tied Solar PV

- PV generates electricity which can be
- Grid can pay for power generated
- LED lights consumes much less electricity to produce same amount of light as compared to HPSV lamps
- · LED lights have 4 times more life then
- Camera for video surveillance
- · Can be used for security and monitoring

5. Wireless Router

- Wireless router for Wi-Fi Hotspots
- The could be installed as necessary in areas

Smart BKC- Journey So Far.....

Time	Activities		
Activities So far			
Aug, 2012	Feasibility Study for BKC Wide WIFI		
March, 2013	Identification of Smart City Initiatives- Overall Approach		
March, 2014	Business Case for Smart BKC 1.0 Initiatives		
Sept,2014	EOI Released for Implementation of Smart BKC 1.0		
Sept, 2014	Pre-Bid Discussion with Potential Bidders		
March 2015	Workshop of Bidders- Smart BKC 1.0		
Way Forward			
June 2015	Release of RFP for Smart BKC 1.0 (targeted)		
Sept,2015	Master System Integrator Onboarding (targeted)		
Sept, 2016	Smart BKC 1.0 phase completion (targeted)		

28 EOI and 50+ Global Players Participated in the EOI



SMART WADALA A GREENFIELD PROJECT

Besides BKC , the Development of the Wadala Truck Terminal Area has the potential to become much more than the creation of an additional commercial hub for the city.



Master Plan for Wadala Commercial Center

CONNECTIVITY | IDENTITY | SUSTAINABILITY

Smart MMR Journey



- ✓ Identification of Appropriate components O=f (C,P)
- ✓ Evolving Domain Knowledge /Expertise
- ✓ Capacities Gap
- ✓ Vendor Driven Vs City needs
- ✓ Integration challenges
- Productivity measurement

Thank you

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