Annexure 2 – Self Assessment Form

#	Smart City Feature	Self-Assessment of the city (for Pan-City Solution) with regard to each feature (H)	Basis for Assessment and/or quantitative indicator (Optional only if data available) (I)	Projection where the city wants to go	Input /Initiative to be taken to reach the advanced level (Scenario 4)
1	Citizen Participation	 Scenario 3- Jan Sunwai" at zone level every week. The Mayor visits to one ward every week. Use of facebook and twitter to interact with top brass Budget of FY 15-16 drafted used participatory approach Online Grievance reporting, tracking and feedback system used extensively. 	No Benchmarks Available	Scenario 4	Mobile Apps for Citizen Participation
2	Identity and Culture	 Scenario 2- 3 UNESCO heritage sites 14 Lakes within the city 	No Benchmarks Available	Scenario 4	 Mobile App Information dissemination of heritage and tourist sites Citizen participation module to maintain cleanliness of these sites and capture tourist complaints
3	Economy and Employment	 Scenario 1- Retail, Jewellery, Production and tourism are dominant Employment The work force participation rate is 29.6% 39% of the income earners are engaged in the informal sector, which is a sizable amount. 	No benchmarks available	Scenario 4	Ease of Business initiativesSkill development

#	Smart City Feature	Self-Assessment of the city (for Pan-City Solution) with regard to each feature (H)	Basis for Assessment and/or quantitative indicator (Optional only if data available) (I)	Projection where the city wants to go	Input /Initiative to be taken to reach the advanced level (Scenario 4)
4	Education	 Scenario 2- 85 Engineering/Professional Colleges in Bhopal 5 Universities in Bhopal 5 Medical Colleges in Bhopal 1 Veterinary Institute 15 Paramedical Colleges There are 1295 schools in Bhopal. Private companies partner with local schools for specific training 	MoUD Benchmark 1 university 1 engineering /Professional per 10 lakh population 1 medical college per 10 lakh population 1 veterinary institute 1 paramedical institute per 10 lakh population	Scenario 4	 Smart Education simulation labs , incubation centres GIS Mapping for better planning of schools , enhanced parent teacher interaction
5	Health	 Scenario 2- Approximately 1 dispensary per 30,000 90 beds per lakh population in specialty hospitals 1 diagnostic center per 50,000 92 beds per one lakh of population in general hospital 8 Veterinary hospitals for 23 lakh population 	 MoUD Benchmark 1 dispensary for every 15,000 residents Specialty Hospital - 200 beds per lakh population 1 Diagnostic Centre for every 50,000 residents General Hospital - 500 beds per lakh population 1 Veterinary every 5 lakh residents 	Scenario 4	 Smart Hospitals M-Healthcare , ACLS Ambulances Outreach OPDs for easy access
6	Mixed Use	Scenario 1 Different Kinds of Land Use such as offices , housing and shops clustered together. No Proposed mixed land use for Bhopal	No Benchmark Available	Scenario 4	 Update Master Plans Area Based Developments

#	Smart City Feature	Self-Assessment of the city (for Pan-City Solution) with regard to each feature (H)	Basis for Assessment and/or quantitative indicator (Optional only if data available) (I)	Projection where the city wants to go	Input /Initiative to be taken to reach the advanced level (Scenario 4)
7	Compactness	 Scenario 2- Average travel time in the city is 21 minutes 	 MoUD Benchmark Maximum travel time of 30 minutes in small and medium size cities and 45 minutes in metropolitan areas 		 Redevelopment of key areas on the lines of transit oriented development
8	Public Open Spaces	 Scenario 2 Bhopal has 16 sq.km areas under recreational use which is about 13% of the land use Proposed Recreational areas is about 26 sq.km which is nearly 16% of the land use Walled city has smaller plots, narrow street widths. Newer areas in the city have parks and open spaces. 	 ISO Benchmark Square meters of public indoor recreation space per capita Square meters of public outdoor recreation space per capita 	Scenario 4	• Governance
9	Housing & Inclusiveness	 Scenario 2 Pucca Dwelling Units:29%, Kutcha Dwelling Units:60% & Semi-Pucca Dwelling Units: 11%. Zone-9 & 11 has almost 90% Kutcha Dwelling Units. Housing Shortage: 0.96 Lakhs (2011) (Source: SFCPoA of Bhopal) Bhopal requires about 18,000-19,000 units/year (2014-18) 	 ISO Benchmark – % of Population living in slums No. of Homeless per 100,000 population % of Households that exist without registered legal titles 	Scenario 4	Construction of Low Cost Houses under the Housing for All scheme in Area Based Development mode

#	Smart City Feature	Self-Assessment of the city (for Pan-City Solution) with regard to each feature (H)	Basis for Assessment and/or quantitative indicator (Optional only if data available) (I)	Projection where the city wants to go	Input /Initiative to be taken to reach the advanced level (Scenario 4)
		 %of Households that exist without registered legal titles- No Data Available 			
10	Transport	 Scenario 2 Public Transport Route Kms / Urban Area in sq. – 0.76 Average waiting time for Public Transport users – 20 to 30 minutes Average Load Factor of all routes – 0.92 	Transport DPR & MoUD • Public Transport Route Kms / Urban Area in sq.km ○ High Level of Service - >=1 • Average waiting time for Public Transport users ○ High Level of Service - <=10 • Average Load Factor of all routes ○ High Level of Comfort - <=1.5	Scenario 4	 Intelligent Traffic Management System Transit oriented development
11	Walkable	Scenario 2 -		Scenario 4	 Transit oriented development
12	IT Connectivity	 Scenario 2- 10.2% of households have access to computer and internet as per census 2011 Mobile penetration is 61.2 %. 	 MoUD Benchmarks 100% of the city has Wi-Fi connectivity 100 Mbps internet speed 100% households have a telephone connection including mobile 	Scenario 4	 Public Wifi

#	Smart City Feature	Self-Assessment of the city (for Pan-City Solution) with regard to each feature (H)	Basis for Assessment and/or quantitative indicator (Optional only if data available) (I)	Projection where the city wants to go	Input /Initiative to be taken to reach the advanced level (Scenario 4)
13	ICT enabled Government Services	 Scenario 2- Municipal Administration System for MAS Key Modules covered under MAS are: Property Tax, Water Rate, Birth & Death, Food/non-Food License, Marriage Registration, User Charges, Building Permission, Grievance, Common Services Back office Modules: HR/Payroll, Financial, Fund Management, Court Case Management, Works Management, Material 	- No Benchmarks available	Scenario 4	• Mobile Apps
14	Energy Supply	 Scenario 3 100% of population covered by Grid Based Power Average Billing Efficiency : - 74% Collection Efficiency : 99% Unscheduled Outage in a month : 30-40Hr 	 MoUD Benchmark Coverage of the population by the Grid Based Power-94% 100% households have electricity connection 24 x 7 supply of electricity 100% recovery of cost 	Scenario 4	Smart Metering
15	Energy Source	 Scenario 2 Renewable energy source need to be developed. Presently 2 Solar plants with installed capacity 1.5 MW. 	 MoUD Benchmark At least 10% of the energy of should be from the renewable sources 	Scenario 4	 Solar energy in area based development

#	Smart City Feature	Self-Assessment of the city (for Pan-City Solution) with regard to each feature (H)	Basis for Assessment and/or quantitative indicator (Optional	Projection where the city wants to go	Input /Initiative to be taken to reach the advanced level
			only if data available) (I)		(Scenario 4)
16	Water Supply	 Scenario 2 49.4% coverage of water supply connections - Per capita supply of water-125 LPCD 19.75% of connections metered 50.31 % of non-revenue water Quality of Water Supplied – 99% Only 30.59% cost recovery in water supply 71% efficiency in collection of water charges 	 MoUD Bench Mark 1. Coverage of water supply connections – 100% 2. Per capita supply of water-135 LPCD 3. Extent of metering of water connections – 100% 4. Extent of non- revenue water -20% 5. Quality of Water Supplied – 100% 6. Cost Recovery in water supply services -100% 7. Efficiency in collection of water charges – 100% 		Dual piping system in area based development
17	Water Management	 Scenario 1 Total Treatment capacity is 74.53MLD. The present population is generating 234MLD of Sewage. Total of 2000Km Sewerage system and 234 MLD of Treatment is needed. 1. Coverage of Sewerage Network Services – 24% 2. Efficiency in collection of Sewerage – 31.85% 3. Efficiency in treatment Adequacy of Sewerage Treatment Capacity -80% 	 MoUD Benchmark Coverage of Sewerage Network Services – 100% Efficiency in collection of Sewerage – 100% Efficiency in treatment Adequacy of Sewerage Treatment Capacity -100% 	Scenario 4	Smart metering
18	Waste Water Management	 Scenario 1 Present Coverage of Storm water drainage network – 24.57% 	MoUD & Sustainable Benchmarks • 100% coverage of	Scenario 4	Smart Waste Management Solution

#	Smart City Feature	Self-Assessment of the city (for Pan-City Solution) with regard to each feature (H)	Basis for Assessment and/or quantitative indicator (Optional only if data available) (I)	Projection where the city wants to go	Input /Initiative to be taken to reach the advanced level (Scenario 4)
		 Incidence of Sewerage Mixing in the drains – 80% Incidence of Water Logging- 30% 	 road network with storm water drainage network Incidence of Sewerage Mixing in the drains – 0% Incidence of Water Logging- 0% 		
19	Air Quality	 Scenario 1 Concentration of NO2 is 9 μg/m3 (H) Concentration of SO2 is 18 μg/m3(H) Concentration of PM10 is 133 μg/m3(C) 	National Ambient Air Quality Standards (NAAQS) Benchmark : High Air Quality(H) • Concentration of SO2 is 0-25 μg/m3 • Concentration of SO2 0-20 μg/m3 • Concentration of PM10 0- 30 μg/m3 • of PM10 >90μg/m3	Scenario 4	 Environment sensing Transit oriented development
20	Energy Efficiency	Scenario 1 For Public Buildings in Bhopal Average Energy Performance Index is nearly 100kwh/m2/year	According to TERI for a Public Building it should be nearly 115kwh/m2/year	Scenario 4	Smart Street Lights and Green Buildings
21	Underground Electric Wiring	 Scenario 1 No underground electric wiring till date in Bhopal. 33 KV, 11 KV and LT System are overhead Fault rate is higher due to this system 	No Benchmarks Available	Scenario 4	Common City Ducting
22	Sanitation	Scenario 3	 Coverage of toilets 	Scenario 4	Integrated waste

#	Smart City Feature	Self-Assessment of the city (for Pan-City Solution) with regard to each feature (H)	Basis for Assessment and/or quantitative indicator (Optional only if data available) (I)	Projection where the city wants to go	Input /Initiative to be taken to reach the advanced level (Scenario 4)
		Coverage of toilets (individual or community) - 95%	(individual or community) - 100%		management
23	Waste Management	e Scenario 2 M igement Coverage of Toilets: 95% is the Coverage of Sewerage Networks is 24%. Collection Efficiency is 31.85% at present At present 80% of the total sewage is treated with the help of 8 Nos. of STPs Extent of cost recovery in waste water management: 20% cost recovery		Scenario 4	Integrated waste management
24	Safety	 Scenario 2 CCTV cameras have been installed in the BCLL buses for ensuring women safety 		Scenario 4	Surveillance system

CITIZEN ENGAGEMENT



Vision Statement

"Transforming Bhopal, a City of Lakes, Tradition& Heritage into a leading destination for Smart, Connected and Eco Friendly communities focused on Education, Research, Entrepreneurship and Tourism"

CITIZEN ENGAGEMENT



Responses received via different means

You Tube



Door to Door surveys (across all 85 wards)

5000 responses received in each of round 1 and round 2



responses received on BMC website

Phone calls/Messages

8000+ suggestions received in the form of calls/messages



11 events among college students involving more than 10000 students. 2818+ poster competitions in schools/colleges

MyGov logo

81 entries received





Over 20 consolation programs in round 1 and 15 in round 2 conducted among various group of citizens, headed by Honorable Mayor, Commissioner and other dignitaries. Five focus group discussions

Citizen Consultation Results





2627+ views of

Smart Citv Bhopal videos

Social networking sites Multiple discussions on Facebook and Twitter. Over 18000 comments and 200+ tweets

Radio/TV

Publicity on radio and TV for 3 months

MyGov essays

Over 5,081 essays received

MyGov Discussions

Over 1,14,531 responses received

Citizen consultation meetings



City Level Advisory Body



Students



Discussion with Railway Administration



Media Conference



Political leadership





Discussion with Chief Secretary



City wide Hoardings



Architects



Painting Competition



Nasscom



Mobile Van







CITIZEN ENGAGEMENT



Hon'ble Chief Minister

Additional Secretary @ Smart City Conference

Joint Secretary

Suggestions asked on draft SCP

Area Based Development - Vision

<u>Bhopal Smart City</u> has been envisioned as to be 24/7 activity based, thriving and energetic place where people will live work and play. This integrated **live-work-play-learn-shop** concept is an approach to sustainable, which giving residents and workers great convenience to commute with a reduce time, within their living environment in terms of convenient access to amenities and facilities around include through land use coordination of carefully balanced areas of residences, office, education, medical and entertainment area.

SITE & CONTEXT



TOPOGRAPHY





SITE BOUNDARY

HYDROLOGY



The Site has a topographical difference of 15mt from one end to another. The Site also has a major natural drain along East-West Axis. The Proposal would retain natural slope of site also existing drain would be rejuvenated as water channel with lively public spaces alongside.

Area Based Development Proposal is based in Southern part of the City of Bhopal, in Shivaji Nagar Area near Tulsi Nagar & Char Imli Area. The Site is near to Habibganj Railway Station and next to existing BRT corridor. The Proposed Site for Redevelopment is with approx. area of 350 acres. The Site is inbetween existing Business Zones like South TT Nagar & New Market area, being between two major commercial nodes the Site has potential to create commercial arc by connect two nodes. Arc will act as catalyst for initial investment in Real Estate. Also, modern Commercial Zone would provide better economic & employment opportunities.



Smart Government

- Transparency, accountability
- Better decision making

Smart Environment

- Better waste management
- Air quality monitoring

Smart Utilities

 Resource conservation Resilience



Smart Mobility

- Intelligent traffic management
- Safer roads

Smart Healthcare

- Health maps
- Better emergency services

Smart Living

- in ·
 - Safety and security
 - Better quality of life

Area Based Development – Design Strategy

LRT & BRT ROUTE (TOD POINTS)



The Site has proposed LRT Corridor on both edges of the Site. The design utilizes potential of these Transit Systems to create a TOD. LRT route is diverted 100m into site to reduce walking distance from stations to workplace/home.

The Key concept of Smart City, Bhopal has been to create Walkable City with least amount to Traffic/Vehicles. Idea is to Promote public transport, encourage walk to work and achieve healthy lifestyle. LRT Stations are strategically located to cover site within 10mins walk. The Whole Development is inter-connected with multiple Pedestrian/Greens Linkages at an Interval of max. 150 metres connecting all parcels to Major Plaza & Green Spaces. The linkages are designed to provide incidental Open Spaces/Plazas which become Nodes of Activity.



DIVERSE HUB STRATEGY

EXISTING STRUCTURES

Certain Structures have been considered to be retained on site like Major religious structures have been retained considering issues at implementation stage and Large institutional buildings like JP Hospital & Red cross hospital. Structures considered to be retained on site based on importance in terms of social and cultural infrastructure. With the aim to Re-develop Shivaji Nagar, Bhopal as a modern & efficient smart city.

The MasterPlan envisages to create various Hubs/Clusters to cater to various industries & sections of the society. The various Hubs/Clusters facilitate providing opportunity to develop new sectors of economy, by providing diverse set of functions/facilities while providing comfortable and sustainable lifestyle to residents & community. Six Hubs/Clusters have been proposed in the Masterplan such as Digital- Innovation Hub, Knowledge-Research Hub, Health Hub, Commerce Hub, Retail Hub &Entertainment Zone with supporting Residential Clusters. These Hubs have been placed with reference to Public Transit Points like BRT/LRT, creating Transit Oriented Theme Based Development, with supporting clusters catering to general public.





TOD AROUND LRT STATION

ACTIVE PLAZA



CENTRAL PLAZA SPACES

Annexure 3

Area Based Development – Master Plan



Annexure 3

Area Based Development – Mobility & Transportation



VEHICLES RESTRISTED TO PERIPHERAL ROAD

The vehicles has been restricted to the periphery of the Site, a peripheral 4 Lane Service Road is designed to give access to Development on the edge of the site. Also, Multi-story Car Parks have been provided on the edge of site to achieve vehicle free site.





HOUSING	ę,		
2 HOUSING			
- COMMERCIAL	4		
сонненса.			
RETAIL	1		
RETAL	(INI)		1
PRANDING		IT del	- Inatial
MUNCHG			

VEHICLE FREE GROUND LEVEL & UNDER-GROUND VEHICULAR ACCESS

There is no road on ground level, whole site developed with the concept of vehicular free public spaces. Parking has also been provided in Basement Level of each pocket, but providing such facility with high premium charges to dissuade car ownership but supplementing it by providing an alternative Public Transport System such as LRT/BRT.

UNDERGROUND VEHICULAR ACCESS

---- ROAD UNDERGROUND



BRT, GRT & PLAZA ON GROUND

The Key concept of Smart City, Bhopal has been to create Walkable City with least amount to Traffic/Vehicles. Idea is to Promote public transport, encourage walk to work and achieve healthy lifestyle.

GRT network connects to all parcels & Stations are placed at every 100mts, from where People can connect to other parts of development and transit nodes.



Annexure 3

Area Based Development – Development Vision



KNOWLEDGE HUB

The Knowledge Hub envisages to aid Madhya Pradesh's ability to create, acquire, disseminate and apply knowledge which will be key to sustaining India's future growth.



LIGHT RAIL TRANSIT STATION

Development is concentrated adjacent to Public Transit Points like BRT / LRT, creating multiple TOD zones





High rise tower at central TOD junction to create strong Contemporary image of the TOD development



RETAIL PLAZA

Retail hub would act as the focal point of all retail activities of region & promote economic vibrancy



INNOVATION HUB

The Digital Innovation Zone (DIZ) aims to promote Digital-Media, IT industry as well as companies related to the use of information, communication, and media technologies



Area Based Development – Public Spaces



OPEN SPACE STRUCTURE



OPEN SPACE HIERARCHY

The Proposed Development is planned to be green, walkable and cycle friendly urban development. It intends to create a variety of open spaces. Primary Design Theme aims to create an Eco-Loop connecting major open spaces & waterbodies of the city to the site as well as create a linkage between them.

The existing natural drain on site is transformed into a dynamic community space. Also, all transit points are connected with considerable no. of open/public space. Public/Open spaces are dispersed across the development as well as are interlinked with network of connections providing access to varied types & scale of open spaces to all inhabitants and users.



Central Plaza Space, the Development would have variety of Open Spaces of varied scale & sizes. These Spaces would be have Outdoor Refreshment Zones & Building edges would have Activity Generating Uses on Ground Floor.



PEDESTRIAN NETWORK



CYCLETRACK NETWORK

The Whole Development is interconnected with multiple Pedestrian/ Greens Linkages at an Interval of max. 150 metres connecting all parcels to Major Plaza & Green Spaces. The linkages are designed to provide incidental Open Spaces/Plazas which become Nodes of Activity.

The Development is connected with multiple Bicycle-Tracks, each transit point like LRT/BRT is provided with Cycle-Stands from where People can borrow Bicycle and cycle to cycle-points near their homes/offices. Other Residents/ Inhabitants can borrow from these stands & then cycle to the transit hubs.



Various Linkages are provided across the development, these linkages would have Activity Generating Uses at Ground Floor Level. The Walkways & Cycleways are segregated by small Green Belt to keep both separate yet together.

Area Based Development – Precinct/Hub Strategy









Knowledge HUB bolsters Government of The Digital Innovation Zone (DIZ) aims to India's initiative towards creating a Digital India with inventive, innovative and as companies related to the use of entrepreneurial knowledge. Creating a information, communication, and media Knowledge based Digital economy. (KBE)

The global market of products and services is now more technology- and knowledgeintensive. The Knowledge Hub envisages to aid Madhva Pradesh's ability to create. acquire, disseminate and apply knowledge which will be key to sustaining India's future Information Technology etc. with technologygrowth.

Human Capital's ability in stimulating, developing, and nurturing education; research and development; entrepreneurship; networks feature Digital Street which will provide an and ICT infrastructure; and provision of Incubation (Seed Capital). The KNOWLEDGE/INNOVATION HUB crafts an Integrated Development to foster Research Based Innovation, creating future assets for country while aiding growth & employment. Aim is to create a compact campus which provides students with Intensive Research Facilities & finest resources of International Standard.

promote Digital-Media. IT industry - as well technologies. The DIZ serves the nation's larger goals of strengthening innovation economy and promoting Bhopal as an alternative hub for commerce being Central to whole of India. DIZ will be the home to firms that create cultural material: R&D Centres for software development, oriented office spaces.

KBE can be realized through linking the DIZ will host entertainment and retail establishments, technology companies, prestige housing, R&D institutions. DIZ will opportunity to develop and test new technologies, and to refine them in a living laboratory environment. The Digital-Innovation Zone will be a vibrant cluster of digital content and technology enterprises, located on a state-of-the-art campus in the heart of Bhopal City. DIZ fosters innovation, technological development and creativity in a supportive, entrepreneurial environment.

An integrated and sustainable urban development, the Health Hub will incorporate many vibrant and outstanding features. These will extend beyond healthcare to encompass a complete and holistic ecosystem that includes health services. research and education, commercial, leisure and public spaces - achieving the goal of building a place where healthy life is central.

Health Hub will be an integrated healthcare development where care and community both take centre stage. It aims to shape the future healthcare model of city, it will act as secondary healthcare in conjunction with AIIMS, Bhopal with an aim to enhance the health and ultimately empower people. The health care system consists of all personal medical care-plus the institutions and personnel that provide these services - a combination of government/public, and private organizations.

There are four key elements to the Health Hub - Care, Continuous Learning & Innovation, Community and Connectivity.

Commercial Hub consists of High-End Office Spaces with allied Facilities like Media Centres, Business Hotels etc. Commercial Hub has been placed along Main Road-1 parallel to BRT Corridor, this Hub correlates to existing CBD at South TT Nagar as well connects to Habibgani Railway Station catalyzing relationship with rest of the state. The Zone has been positioned linearly along the Main Road maximizing revenue and lease potential.

Commercial hub is very important from the perspective of economic development of the region. Commercial hub would act as the focal point of all commercial activities of region & promote economic activities. creating jobs, and providing for greater revenues to the government and administration.

The towers will be developed as a grouping of crystalline forms, sculpted and chamfered to reflect light and provide a sense of depth to the surfaces. The office and residential towers sculpt a dramatic skyline, marking it the dominant focal point along the Linear Development.

The Cultural Hub aims to provide access to diverse cultural opportunities for children and young generation as well as promotes a direct dialogue, sharing of skills, and a meaningful relationship between the education and cultural sectors. Its role is to bring together people from varied groups/backgrounds to come together relieving the cultural heritage of the state & Country.

The Cultural Hub is based in intrinsic part of the Shivaji Nagar with existing religio-cultural centres like Shri ArvappaTemple. Viswanathan Mandir & Breathen Assembly Church.

Important feature will be Cultural Alley which will provide an opportunity to pedestrian friendly public space combined with public art & performing areas, connecting the existing religious centres and providing Creative Impetus to public. The alley will mix entertainment and retail uses with creative arts & religious structures combining traditional Indian Urban Nodes & Courtyards with modern touch. The alley would also create a public realm brings various cultures together by engaging people directly into creative arts



EDUCATIONAL CAMPUS

- Science Labs /IT Labs/Arts/Urban Solutions
- ACCOMODATION
- Graduate Residences/Residential Colleges/Hostels
- · Faculty Residences/Married Student Accommodation
- Dining Halls/Food Courts/Retail/ Recreation
- CENTRE FOR RESEARCH & EXCELLENCE Education Resource Centre (Student Learning Centre) Central Resource Lab/Library INCUBATION CENTRE
- STUDENT ACTIVITY ZONE-SPORTS HUB
- CENTRES OF EXCELLENCE FOR VOCATIONAL
 Rental Housing For International Affiliates TRAINING

- Multiple R&D Centres
- Digital Innovation Centre (To Host Various Research Labs)
- Business Research Collaboration Centre
- · High-tech Industry Centre
- · Global Digital Media Centre
- · I.T. CENTRE (To Host Technology Oriented Office Spaces)
- Cultural Content Centre
- Business Hotels
- · Serviced Apartments



- · Multiple Speciality Health Centres/Super Speciality Hospital
- Medical Research Facility/Medical Staff Accommodation/Residential Facilities/Research and Education/Institute of Public Health/Centre for Health & Clinical Sciences/Commercial/Leisure Spaces/Public Spaces/Integration with Community/Central Green Park/Healing greenery



- Digital media hub
- Office spaces (Banking/Finance/Media etc)
- · Loading /unloading area
- Parking facilities5
- Leisure
- · Business Hotels
- · Public Spaces/Integration with Community
- · Active & Passive commercial zones



 Cultural organisations/Cultural Centre/Rehearsal Spaces/Auditorium/Performance Theatre/Meeting rooms/Banquet Halls/Convention Spaces/Congregation Space/Community Centres/Library/Centre for Public Art/Performing Arts Centre/Multiplex/Gallery and artists workshops with residential component

Area Based Development – Smart Components



2. IDENTITY & CULTURE

Bhopal's rich Identity & Culture will be exhibited & preserved with the Cultural Hub to provide access to diverse cultural opportunities. Cultural Alley will provide pedestrian friendly public space with public art & performing areas, providing Creative Impetus to public.

3. ECONOMY & EMPLOYMENT

Masterplan would provide numerous employment opportunities to create a inventive-innovative economy providing prospects for employment to young generation. It aims to create multiple hubs & zones catering to various industries & research centres for future growth and employment.

4. EDUCATION

Multiple educational facilities of varied scale. serving not just the inhabitants of the Smart City but also the surrounding areas, a mix of Public & Private providing equal learning opportunity to students from all economic backgrounds.

5. HEALTH

Development would constitute combination of affordable healthcare options with mix of Super Speciality Public & Private Hospitals, with world class.







6. MIXED USE

The Masterplan envisages various Hubs (Theme Based Mixed Development) to facilitate providing opportunity to new sectors of economy, providing diverse set of functions/ providing lively, comfortable and sustainable lifestyle to residents & community.

7. COMPACTNESS

Proposal has been designed to create compact, dense & Walkable City. The whole development is Transit Oriented Development within 5min (400m) walk of any Transit Station (BRT/LRT).

8. OPEN SPACE

Development is planned as green, walkable and cycle friendly development. It provides a variety of open spaces, design aims to create an Eco-Loop connecting major open spaces & waterbodies.

9. HOUSING & INCLUSIVENESS

It has been designed as mixed-use, highdensity district that provides more options for city living meaning that more people can live near their work place. It will have a range of housing choices to ensure a broad population can be housed.

10. TRANSPORTATION & MOBILITY

The Site is served with 4 BRT Stations on the Northern Periphery & 3 LRT Stations on the Southern Periphery, and whole development has 5 mins. Accessibility. Vehicles are restricted to a 4- Lane Service Road periphery road on Site to give access to Development on the edge.

11. WALKABILITY

Development is inter-connected with multiple Pedestrian/Greens Linkages & Dedicated Cycle-Tracks at an Interval of max. 150 metres connecting all parcels to Major Plaza & Green Spaces. Bikeshare & Cycle Stands are provided at all Transit Stations.

12. I.T. CONNECTIVITY

Development would have fibre-optic connectivity to each household & office to provide super high-speed connectivity to every inhabitant as well as will have provision for Public Wi-Fi system in all public plaza/areas.

13. INTELLIGENT GOVT. SERVICES

Bhopal Smart City would have Government Services available through e-governance model already being implemented in State of Madhya Pradesh. In addition to these, certain hyper-local facilities would be provided within Shivaji Nagar Re-development which would then be extended to across the city.

14. ENERGY SUPPLY

Captive Gas based Power Plant with Grid Backup for 24x7 Power Supply, Solar power systems will meet 10% of the area's demand with Smart/Net Metering. The Smart Grid and distribution would ensure Snag free distribution.

15. ENERGY SOURCE

buildings within Shivaji Nagar Redevelopment would have to meet 15% of there energy demand from Solar Energy with Rooftop Photovoltaic along with Building Intergrated Photovoltaics (BIPV).

16. WATER SUPPLY

The Smart City would be provided be 24/7 Water Supply. Water would be treated to best of International Standards and supplied by Municipal Corporation.

17. WASTE WATER MANAGEMENT

Run-off Water from the site would be drained with help of natural slope of the site and stored in Waterbodies on the site, all building would have rain water harvesting system to improve Ground Water Table.

18. WATER QUALITY

Sewage & Waste Water from whole development would be transported thru Sewage Pipe to Central Sewage Treatment Plant on the Eastern Periphery of the development. The processed water would be re-used for Landscape Irrigation & Flushing Water requirement.

19. AIR QUALITY

Transit Oriented Development with max, no, of people using Public Transport reducing need for Private Vehicles reducing Air Pollution. Vehicle Free Development reducing overall Air Pollution within the development with discouragement to usage & ownership of Private Vehicles with high parking and access charges.

20. ENERGY EFFICIENCY

Bhopal Smart City would be a highly energy efficient urban zone, all street light would be LED based with Solar Panels. Smart Grids would be used to contain Transmission & Distribution Losses, All Buildings would have to meet Green Building standards such as LEED, GRIHA, GREENMARK etc.

21. UNDERGROUND ELECTRIC WIRING

Common services Tunnel for various services including Electrical Wiring which will provide Easy Access to Integrated Underground Utility Service (Electrical, communications, hot and cold water, centralize cooling system, pneumatic refuse collection pipes, gas pipes, sewer lines)

22. SANITATION

The development will have multiple Public Toilets integrated with Retail facilities so that Public Areas are free of Open defecation/urination. The development would also have a centralized STP for treating Sewage.

23. WASTE MANAGEMENT

The Bhopal Smart City will have Automatic Waste Collection System or Pneumatic refuse conveying system (S), which is a type of waste disposal system that uses air to move refuse through pipes to collection points. Waste Bins would be provided with sensors for proactive management.

24. SAFETY

The development would have combination of Active & Passive Security Features, Passive Crime Prevention techniques include AGU's (Activity Generating Uses) at Ground Floor Level to keep it active for majority of time and under regular public surveillance.















Services Tunnel

Pan City Solution - Overview, Technology Architecture and Core Components

Components of Pan City Solution



Pan City Solution-Smart Unified Governance

Ease of Doing Business -Best practices in India

One day business registration policy	Single window clearance systems	Re-engineering of corporate registration procedure from 12 to 4 steps
Online Tax Management Systems	Prevention of abuse by insiders and company mismanagement. Through new Companies Act, GoI	GIS based support for site identification
Incentives to MSMEs and online registration systems	Boosting FDI limits across multiple sectors	GST to replace all indirect taxes systems





Audio

Citizen-

Government

Collaboration

Engine

Insights

Technology

Mobile

Text

Ideation

Advisories

Portal

Big Data

Sentiment Analytics





Video

Dialogue

Create

Qualitative Text Analytics &

Context Mapping ~_____ Volunteer Programs Integration

OOH

External Media

You Tube



Pan city Solution – Intelligent Street Lighting

Descriptive Solution Architecture



PERT Chart

ID	Task Mode	Task Name	Duration	Start	Finish	lf Qtr 4	1st Half Qtr 1 Qtr 2	2nd Half Qtr 3 Qtr 4	1st Half Qtr 1 Qtr 2	2nd Half Qtr 3 Qtr 4	1st Half Qtr 1 Qtr 2	2nd Half Qtr 3 Q	1st Half tr 4 Qtr 1 Qtr 2
1	-	Project Planning	126 days	Fri 26/02/16	Thu 30/06/16			V					
2	-	Detailed Project Report	50 days	Fri 26/02/16	Fri 15/04/16								
3	2	Project financing and revenue model	10 days	Sat 16/04/16	Mon 25/04/16		Ť						
4	8	Procurement	66 days	Tue 26/04/16	Thu 30/06/16)				
5	₽.	Electricity provision and Energy Efficiency	1034 days	Fri 01/07/16	Tue 30/04/19			•					
6	2	Assured electricity supply with at least 10% of the Smart City's energy requirement coming from solar	720 days	Fri 01/07/16	Wed 20/06/18								
7	2	Smart metering	180 days	Fri 01/07/16	Tue 27/12/16			*					
8	1	Energy efficient street lighting	360 days	Wed 28/12/16	Fri 22/12/17								
9	₽.	Energy efficiency for 80% of buildings	460 days	Fri 26/01/18	Tue 30/04/19						*		
10	2	Sanitation	720 days	Sat 11/02/17	Thu 31/01/19								
11	B	Sanitation including solid waste management	720 days	Sat 11/02/17	Thu 31/01/19								
12		ІСТ	945 days	Fri 01/07/16	Thu 31/01/19		1	-					
13	ŝ	Robust IT connectivity and digitalization	240 days	Fri 01/07/16	Sat 25/02/17			ţ					
14	2	Intelligent traffic management	180 days	Sun 26/02/17	Thu 24/08/17								
15	Ř	Smart parking	180 days	Sun 26/02/17	Thu 24/08/17								
16	₽.	Safety of citizens especially children, women and elderly	180 days	Sun 26/02/17	Thu 24/08/17				Č				
17		Additional Smart Applications	525 days	Fri 25/08/17	Thu 31/01/19					*			
18	- Ž	Water	945 days	Fri 01/07/16	Thu 31/01/19		I	¥					
19	ŝ	Adequate water supply including waste water recycling and storm water reuse	360 days	Fri 01/07/16	Sun 25/06/17			—					
20	2	Rain water harvesting	585 days	Mon 26/06/17	Thu 31/01/19					<u> </u>			
21	2	Mobility	780 days	Mon 14/12/15	Wed 31/01/18	•		-					
22	-	Pedestrian friendly pathways	560 days	Mon 14/12/15	Sun 25/06/17								
23	2	Encouragement to non-motorised transport	360 days	Mon 14/12/15	Wed 07/12/16								
24	-	Non-vehicle streets/zones	780 days	Mon 14/12/15	Wed 31/01/18								
25	-	Area Improvement	580 days	Fri 01/07/16	Wed 31/01/18		I						
26	2	Innovative use of open spaces	540 days	Fri 01/07/16	Fri 22/12/17								
27	2	Visible improvement in the Area	580 days	Fri 01/07/16	Wed 31/01/18								
28	-	Housing	945 days	Fri 01/07/16	Thu 31/01/19		I						
29	8	Total housing provided in Greenfield development, there should be at least 15% in the affordable housing category	945 days	Fri 01/07/16	Thu 31/01/19								
30	3	Smart Unified Governance	575 days	Fri 01/07/16	Fri 26/01/18			<u>(</u>					
31	-	Intelligent Street Lighting	575 days	Fri 01/07/16	Fri 26/01/18								

Institutional arrangement and relationship between various government departments (Convergence)



MOU Signing With MP Metro Rail





SPV Chairman

MOU Signing with BDA







* Roles and responsibilities are mapped as per colours and numbers.

Cost Summary Sheet

FINANCIAI S	(INR Crores)	FINANCING A	ASSUMPTIONS	(INR Crores)	
		Sources of Funds			
Cost Projections		GOI Grant considered as BMC Equity			488.0
Development Costs		Commercial Loan			400.0
Development of L and & public utilities		Convergence Fund and BMC IT B	udget		486.0
(Non salaabla)	607 2	Terms for the Commercial Loan			
	007.3	Principal Tenure of loan (in years)			21.1
Trunk Infrastructure cost	541.2	Tenure of Ioan (in years) Repayment mode			5 Annual
Development of Govt., Affordable, EWS		Repayment mode Interest rate (annual compounding)			12%
and LIG housing	922.4	Interest rate (annual compounding) Annual Amount Payable			5.8
Operation and Maintenance cost	111 4	Average DSCR			102.6
Administration seats Marketing		Minimum DSCR		i	45.81
Administration costs, marketing			COST ASSUMPTIONS		Unit
expenses, Approval Cost and PMC Fee	382.5	2.5 Cost of development of public utilities (N		1 750	INID /a aft
Total Development, Operations and		Saleable)) ocrease in development cost	5%	INR/SQI
Maintenance Costs of ABD only	2565.2	Annual increase in development cost Cost of Development of Government Hous		2400	INR/saft
Development. Operations and		Annual increase in development cost		5%	<u>%</u>
Maintenance of Pan city solutions	875 7	Cost of development of affordable housing		2,400	INR/sqft
Total Davalanment, Operations and	UT UT	Annual increase in development cost		5%	%
Total Development, Operations and	Total land available		,72,52,304	sqft	
Maintenance Costs (including Pan City		FSI		2.5	
solutions)	3440.9	Total FSI	Total FSI area		sqft
Revenue Projections		Total Are	ea to be developed	4 00 00 050	ft
Sale of land	5.445.7		14SE - 1 14SE - 11	83 81 429	sqfi
Maintenance charges	122 5	PH	IASE - III	.21.71.475	saft
Total Payanua from APD only	5 579 2				Unit
	5,576.2				Onit
Revenue from Pan City Solutions	928.0	Lease P	rice of Residential land		
Revenue from Smart City Advisory		Resid	dential FSI	1,750	INR/sqft
Services	65.0	Loadi	ing for Residential land	20%	%
Revenue from Smart City Knowledge		Annu	al increase in lease price	5%	%
Partner Services	32 0	Lease pr	rice of Commercial land	2.250	INID /a aft
Property Tax	52.0	Retail		3,250	INR/Sqt
Property Tax	41.0	Office space		2,000	1117/3411 %
Total Revenue	6,644.2	Annu	al increase in lease price	5%	%
PROJECT IRR	0.9%		I		
EQUITY IRR	13.8%	Average	Lease price of public utilities land	1,430	INR/sqft
		Loadi	ing for ATMs	40%	%
		Annu	al increase in lease price	3%	%

Land Use summary

Type of Property	Area (Sq. ft)	Number of Units	Area of Each Unit	Phase I	Phase II	Phase III
RESIDENTIAL (70% of available FSI)	0 sqft.			7,296,523 sqft.	4,381,018 sqft.	1,014,005 sqft.
Government Apartments						
Type C	105,000 sqft.	35 no.	3,000 sqft.	105,000 sqft.		
• Type D	125,000 sqft.	50 no.	2,500 sqft.	125,000 sqft.		
Type E	600,000 sqft.	300 no.	2,000 sqft.	600,000 sqft.		
Type F	550,000 sqft.	500 no.	1,100 sqft.	550,000 sqft.		
• Type G	200,000 sqft.	250 no.	800 sqft.	200,000 sqft.		
• Type H	200,000 sqft.	400 no.	500 sqft.	200,000 sqft.		
Type I	121,500 sqft.	300 no.	405 sqft.	121,500 sqft.		
Affordable Housing	650,000 sqft.	1,000 no.	650 sqft.	325,000 sqft.	325,000 sqft.	
Residential Apartments						
Type I	1,995,000 sqft.	1,900 no.	1,050 sqft.	997,500 sqft.	798,000 sqft.	199,500 sqft.
Type II	2,139,750 sqft.	1,585 no.	1,350 sqft.	1,069,875 sqft.	855,900 sqft.	213,975 sqft.
Type III	2,085,625 sqft.	1,175 no.	1,775 sqft.	1,042,813 sqft.	834,250 sqft.	208,563 sqft.
Type IV	1,980,000 sqft.	825 no.	2,400 sqft.	990,000 sqft.	792,000 sqft.	198,000 sqft.
Type V	1,604,670 sqft.	601 no.	2,670 sqft.	802,335 sqft.	641,868 sqft.	160,467 sqft.
Type VI	335,000 sqft.	100 no.	3,350 sqft.	167,500 sqft.	134,000 sqft.	33,500 sqft.
EWS Housing	208,800 sqft.	720 no.	290 sqft.	104,400 sqft.	104,400 sqft.	
LIG Housing	309,600 sqft.	720 no.	430 sqft.	154,800 sqft.	154,800 sqft.	
COMMERCIAL (30% of available FSI)	5,439,278 sqft.			2,719,639 sqft.	2,175,711 sqft.	543,928 sqft.
Retail Use (60% of Commercial FSI)	3,263,567 sqft.			1,631,783 sqft.	1,305,427 sqft.	326,357 sqft.
Office Space (40% of Commercial FSI)	2,175,711 sqft.			1,087,856 sqft.	870,284 sqft.	217,571 sqft.
PUBLIC FACILITIES	5,311,984 sqft.			2,873,716 sqft.	1,824,720 sqft.	613,548 sqft.
1. Educational						
a. Nursery School (FSI Sale)	710,424 sqft.	11 no.	64,584 sqft.	322,920 sqft.	258,336 sqft.	129,168 sqft.
b. Primary School (FSI Sale)	710,424 sqft.	11 no.	64,584 sqft.	322,920 sqft.	258,336 sqft.	129,168 sqft.
c. High School (FSI Sale)	645,840 sqft.	3 no.	215,280 sqft.	215,280 sqft.	215,280 sqft.	215,280 sqft.
2. Medical Facility						
a. Health Centre	322,920 sqft.	3 no.	107,640 sqft.	107,640 sqft.	107,640 sqft.	107,640 sqft.
3. Other Facilities						
a. Sub Post Office	5,380 sqft.	5 no.	1,076 sqft.	3,228 sqft.	2,152 sqft.	
 b. Post and Telegraph Office cum Delivery and Booking including Telephone exchange of 1000 lines 	538,200 sqft.	5 no.	107,640 sqft.	322,920 sqft.	215,280 sqft.	
c. Police Station with staff quarters	86,112 sqft.	1 no.	86,112 sqft.	86,112 sqft.		
d. Police Post with staff quarters	86,112 sqft.	2 no.	43,056 sqft.	43,056 sqft.	43,056 sqft.	
e. Fire Station with staff quarters	86,112 sqft.	2 no.	43,056 sqft.	43,056 sqft.	43,056 sqft.	
f. Multi Level Car Park	1,800,000 sqft.	3 no.	600,000 sqft.	1,200,000 sqft.	600,000 sqft.	
g. Sports Facility	100,000 sqft.	1 no.	100,000 sqft.	100,000 sqft.		
h. Command Centre	20,000 sqft.	1 no.	20,000 sqft.	20,000 sqft.		
i. Reservation Centre	4,000 sqft.	2 no.	2,000 sqft.	2,000 sqft.	2,000 sqft.	
j. Facility Management	25,000 sqft.	5 no.	5,000 sqft.	15,000 sqft.	10,000 sqft.	
k. ATM	10,000 sqft.	20 no.	500 sqft.	5,000 sqft.	5,000 sqft.	
4. Social & Cultural Facilities						
a. Community Hall and Library	96,876 sqft.	3 no.	32,292 sqft.	32,292 sqft.	32,292 sqft.	32,292 sqft.
b. Cinemas (FSI Sale)	64,584 sqft.	2 no.	32,292 sqft.	32,292 sqft.	32,292 sqft.	

Financing Timeline

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Inflow										
Revenue	107	261	547	1038	1098	1080	1154	621	396	341
Gol Grant/ULB Equity	194	98	98	98	0	0	0	0	0	0
State Equity Inflow	194	98	98	98	0	0	0	0	0	0
Convergence Funds	48.6	133.8	112.5	112.5	48.6	6	6	6	6	6
Commercial Debt	21	0	0	0	0	0	0	0	0	0
Outflow										
Debt Repayment & Interest	-3	-3	-6	-6	-6	-6	-6	0	0	0
Development Costs, O&M	-563	-521	-588	-766	-380	-191	-242	-72	-60	-57
Cumulative Internal Accruals	0	67	329	904	1665	2554	3465	4020	4362	4652









विषय :-	स्मार्ट सिटी परियोजना का प्रस्ताव तथा Special Purpose Vehicle (SPV) के गठन की स्वीकृति बावत्।	विभाग विभागाध्यक्ष संबंधित सहायक
		संबंधित सहायक

कार्यालय तरार पालिक विवास ओपाल मेयर इन कॉतिन स.क. 02. दि. 08/12/15

आयुक्त की अनुशंसा के आधार पर भोपाल के लिए स्मार्ट सिटी परियोजना का प्रस्ताव तथा Special Purpose Vehicle (SPV) के गठन का प्रस्ताव अनुशंसा सहित निगम परिषद् की ओर स्वीकृति हेतु प्रेषित। निगम परिषद

> मेयर इन कौंसिल नगर निगन, भोपाल

नगर पालिक निगम, भोपाल परिषद संकल्प क्रमांक–01, दिनांक 12.12.2015

शहरी विकास मंत्रालय भारत सरकार द्वारा राज्य स्तरीय उच्च स्तरीय समिति की अनुशंसा के आधार पर भोपाल नगर को स्मार्ट सिटी परियोजना के प्रथम चरण में चयनित किया गया है, जिसके संबंध में पूर्व में परिषद द्वारा संकल्प क्रमांक 01, दिनांक 11.07.2015 द्वारा प्रस्ताव प्रेषित किया गया था।

2. स्मार्ट सिटी परियोजना के प्रतिस्पर्धा के द्वितीय चरण हेतु आयुक्त द्वारा विस्तृत स्मार्ट सिटी परियोजना का वित्तीय प्रावधानों को सम्मिलित करते हुए प्रस्ताव तथा Special Purpose Vehicle (SPV) के गठन का प्रस्ताव परिषद के समक्ष प्रस्तुत किया गया है। प्रस्ताव पर चर्चा की गई।

3 चर्चा उपरांत स्मार्ट सिटी परियोजना के द्वितीय चरण हेतु आयुक्त द्वारा स्मार्ट सिटी परियोजना का वित्तीय प्रावधानों को सम्मिलित करते हुए प्रस्तुत प्रस्ताव को भारत सरकार को प्रेषित किये जाने तथा भारत सरकार के दिशा निर्देशों के अनुरूप योजना के क्रियान्वयन हेतु Special Purpose Vehicle (SPV) के गठन की स्वीकृति प्रदान की जाती है।

उक्त प्रस्ताव बहुमत से पारित किया जाता है। आयुक्त

12/2015

शेष पृष्ठ पर देखें।

This Agreement is made at <u>BHOPAL</u> on this 14 Day of <u>DECEMBER</u> 2015 between <u>BHOPAL</u> <u>MUNICIPAL COROPORATION</u>, having its office at <u>HARSHWARDHAN COMPLEX</u>, <u>MATA</u> <u>MANDIR BHOPAL</u> (herein after referred to as the "Authority") which expression shall where the context so admit include its heirs, Assigns, Executors, Successors, Legal Representatives, Administrators etc. of the first part of agreement.

AND

Madhya Pradesh Public Works Department (MPPWD)having its office at BHOPAL (herein after referred to as the "Agency") which expression shall where the context so admit include its heirs. Assigns, Executors, Successors, Legal Representatives, Administrators etc. of the second part of agreement.

Hereafter referred to collectively as "Parties"

WHEREAS Ministry of Urban Development ("MoUD") has launched Smart Cities Mission ("Mission") and shortlisted <u>BHOPAL</u> city under stage-1 of smart cities challenge as potential smart city and [Name of Municipal Corporation] has prepared a Smart City Plan ("SCP") for stage-2 of smart cities challenge.

financing, implementation and operations and maintenance of smart city projects. AND WHEREAS the Authority has passed council resolution no______ dated to incorporate a Special Purpose Vehicle ("SPV") for planning, designing,

AND WHEREAS the Authority will act as nodal organization for coordination on all matters relating to SCP and its implementation till formation of SPV, and after formation of SPV, all rights and obligations of the Authority related to SCP will be transferred to the SPV.

AND WHEREAS the Parties have had discussions on <u>BHOPAL</u> SCP including proposals for area based development for Strategic Area and pan-city solutions and have reached an understanding on the following roles and responsibilities pertaining to smart city plan implementation:

1. OBJECTIVE OF MEMORANDUM OF UNDERSTANDING - The objective of this Memorandum of Understanding (MOU) is to define areas of coordination and collaboration between the Authority and the Agency for planning, design, financing, implementation and operations and maintenance of upcoming smart city projects in <u>BHOPAL</u> under Government of India's Smart City Mission.

2. AREAS OF COORDINATION AND COLLABORATION - The areas of coordination

- and collaboration between the Authority and the Agency will be as following: 2.1. Parties will coordinate in areas related to plenning, design, implementation, operations and maintenance, monitoring and coordination for Strategic Area as per SCP.
- 2.2 The Agency will provide necessary support to the Authority for undertaking project
- implementation for strategic area proposals and pan-city proposals as per SCP. 2.3 The Agency will endeavour to prioritize its development projects in line with SCP and to converge resources to the Authority for implementation of smart city plan
- 2.4. The Agency will fast track any applicable approvals, licenses, and permits for implementation of smart city projects. components which fall under various policies, schemes and budgets



3. NON-EXCLUSIVITY - The relationship of the parties under this MOU shall be non-exclusive and both parties, including their affiliates, subsidiaries and divisions, are free to pursue other agreements or collaborations of any kind. However, when entering into a particular agreement related to Strategic Area, the participants may agree to limit each party's right to collaborate with others on that subject.

4. TERMS AND TERMINATION - This MOU, unless extended by mutual written agreement of the parties, shall expire 5(five) years after the effective date specified in the opening paragraph. This MOU may be amended, extended or terminated by mutual written agreement of the parties at any time. Either party shall have the right to unilaterally terminate this MOU upon 60 days prior written notice to the other party.

partner, an agent or legal representative of the other for any purpose. 5. RELATIONSHIP - Nothing in this MOU shall be construed to make either party a

6. ASSIGNMENT - Neither Party shall transfer or assign this Agreement, or rights or obligations arising hereunder, either wholly or in part, to any third party, unless otherwise defined in this MOU or agreed in written by both Parties.

7. COSTS OF THE MOU - Each Party shall bear the respective costs of carrying out the obligations under this MOU.

8. SIGNED IN DUPLICATE - This MOU is executed in duplicate with each copy being an official version of the Agreement and having equal legal validity.

BY SIGNING BELOW, the parties, acting by their duly authorized officers, have caused this Memorandum of Understanding to be executed, effective as of the day and year first above written.

N Title Name For and on behalf of First Part Signature Witness Date 1405-2 COMMISSIONER , EMC TETASMI S.NATE 14/12/15

Name Title

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burp Pan 1 Bhopy

11/11/15

Signature 1

For and on behalf of Second Part Signature

Date

Ņ Witness 14/12-GANKA

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The OR BAC

(HARWET TENARZ)

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AND

 $\frac{Madhya\ Pradesh\ Housing\ Board\ having\ its\ office\ at\ BHOPAL\ (herein\ after\ referred\ to\ as\ the} 'Agency')\ which\ expression\ shall\ where\ the\ context\ so\ admit\ include\ its\ heirs,\ Assigns,\ Exacutors,\ Successors,\ Legal\ Representatives,\ Administrators\ etc.\ of\ the\ second\ part\ of\ the\ second\ the\ second\ the\ second\ part\ of\ the\ second\ part\ of\ the\ second\ the\ second\ second\ second\ the\ second\ second\$ agreement.

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of India's Smart City Mission Memorandum of Understanding (MOU) is to define areas of coordination and collaboration between the Authority and the Agency for planning, design, financing, implementation and operations and maintenance of upcoming smart city projects in BHOPAL under Government 1. OBJECTIVE OF MEMORANDUM OF UNDERSTANDING - The objective of this

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- components which fall under various policies, schemes and budgets 2.4. The Agency will fast track any applicable approvals, licenses, and permits for implementation of smart city projects

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BY SIGNING BELOW, the parties, acting by their duly authorized officers, have caused this Memorandum of Understanding to be executed, effective as of the day and year first above written.

For and on behaff of First Part Signature even Name (rezASWI S NAPER) Title commissioner, 3MC Date 14/12/15 Vitness 1. JULY

A Kindower

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(HINGLAT TOWNED)

Signature Name Title Date Witness 14,12:15

For and on behalf of Second Part

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(J.K. Show) MPHIDBBhood

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Representatives, Administrators etc. of the first part of agreement: the context so admit include its heirs, Assigns, Executors, Successors, Legal MANDIR BHOPAL (herein after referred to as the "Authority") which expression shall where This Agreement is made at <u>BHOPAL</u> on this 14 Day of <u>DECEMBER</u> 2015 between <u>BHOPAL</u> <u>MUNICIPAL COROPORATION</u>, having its office at <u>HARSHWARDHAN</u> <u>COMPLEX</u>, <u>MATA</u>

AND

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Hereafter referred to collectively as "Parties"

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AND WHEREAS the Authority has passed council resolution no. dated to incorporate a Special Purpose Vehicle ("SPV") for planning, designing, financing, implementation and operations and maintenance of smart city projects.

AND WHEREAS the Authority will act as nodal organization for coordination on all matters relating to SCP and its implementation till formation of SPV, and after formation of SPV, all rights and obligations of the Authority related to SCP will be transferred to the SPV.

AND WHEREAS the Parties have had discussions on <u>BHOPAL</u> SCP including proposals for area based development for Strategic Area and pan-city solutions and have reached an implementation: understanding on the following roles and responsibilities pertaining to smart city plan

 OBJECTIVE OF MEMORANDUM OF UNDERSTANDING - The objective of this Memorandum of Understanding (MOU) is to define areas of coordination and collaboration between the Authority and the Agency for planning, design, financing, implementation and operations and maintenance of upcoming smart city projects in <u>BHOPAL</u> under Government of India's Smart City Mission.

2. AREAS OF COORDINATION AND COLLABORATION - The areas of coordination

- and collaboration between the Authority and the Agency will be as following: 2.1 Parties will coordinate in areas related to planning, design, implementation, operations and maintenance, monitoring and coordination for Strategic Area as per
- 2.2. The Agency will provide necessary support to the Authority for undertaking project SCP
- implementation for strategic area proposals and pan-city proposals as per SCP 2.3. The Agency will endeavour to prioritize its development projects in line with SCP and to converge resources to the Authority for implementation of smart city plan
- components which fall under various policies, schemes and budgets. 2.4, The Agency will fast track any applicable approvals, licenses, and permits for implementation of smart city projects.

3. NON-EXCLUSIVITY - The relationship of the partles under this MOU shall be nonexclusive and both partles, including their affiliates, subsidiaries and divisions, are free to pursue other agreements or collaborations of any kind. However, when entering into a particular agreement related to Strategic Area, the participants may agree to limit each party's right to collaborate with others on that subject.

4. TERMS AND TERMINATION - This MOU, unless extended by mutual written agreement of the parties, shall expire 5(five) years after the effective date specified in the opening paragraph. This MOU may be amended, extended or terminated by mutual written agreement of the parties at any time. Ether party shall have the right to unilaterally terminate this MOU upon 60 days prior written notice to the other party.

 RELATIONSHIP - Nothing in this MOU shall be construed to make either party a partner, an agent or legal representative of the other for any purpose.

6. ASSIGNMENT - Neither Party shall transfer or assign this Agreement, or rights or obligations arising hereunder, either wholly or in part, to any third party, unless otherwise defined in this MOU or agreed in written by both Parties.

7. COSTS OF THE MOU - Each Party shall bear the respective costs of carrying out the obligations under this MOU.

8. SIGNED IN DUPLICATE - This MOU is executed in duplicate with each copy being an official version of the Agreement and having equal legal validity.

BY SIGNING BELOW, the parties, acting by their duly authorized officers, have caused this Memorandum of Understanding to be executed, effective as of the day and year first above written.

For and on behalf of First Part Signature Sc. Name TechSwi S. NATIL Title TechSwi S. NATIL Date Commissioner , SMC. Wilness 14/13/15

For and on behalt of Second Part Signature Name (ATAY SHRWASTAVA) Title EXECUTIVE ENGINEELICPA Date INITITY Witness

milphs (GANRAN DAIGINGHANNO)

This Agreement is made at <u>BHOPAL</u> on this 14 Day of <u>DECEMBER</u> 2015 between <u>BHOPAL</u> <u>MUNICIPAL COROPORATION</u>, having its office at <u>HARSHWARDHAN COMPLEX</u>, <u>MATA</u> <u>MANDIR BHOPAL</u> (herein after referred to as the "Authority") which expression shall where the context so admit include its heirs, Assigns, Executors, Successors, Legal Representatives, Administrators etc. of the first part of agreement.

AND

Office of Additional District Magistrate having its office at <u>BHOPAL</u> (herein after referred to as the "Agency") which expression shall where the context so admit include its heirs, Assigns, Executors, Successors, Legal Representatives, Administrators etc. of the second part of agreement.

Hereafter referred to collectively as "Parties"

stage-2 of smart cities challenge. ("Mission") and shortlisted <u>BHOPAL</u> city under stage-1 of smart cities challenge as potential smart city and [Name of Municipal Corporation] has prepared a Smart City Plan ("SCP") for WHEREAS Ministry of Urban Development ("MoUD") has launched Smart Cities Mission

AND WHEREAS the Authority has passed council resolution no.______dated to incorporate a Special Purpose Vehicle ("SPV") for planning, designing, financing, implementation and operations and maintenance of smart city projects.

relating to SCP and its implementation till formation of SPV, and after formation of SPV, all rights and obligations of the Authority related to SCP will be transferred to the SPV. AND WHEREAS the Authority will act as nodal organization for coordination on all matters

AND WHEREAS the Parties have had discussions on <u>BHOPAL</u> SCP including proposals for area based development for Strategic Area and pan-city solutions and have reached an understanding on the following roles and responsibilities pertaining to smart city plan implementation:

Memorandum of Understanding (MOU) is to define areas of coordination and collaboration between the Authority and the Agency for planning, design, financing, implementation and operations and maintenance of upcoming smart city projects in <u>BHOPAL</u> under Government of India's Smart City Mission. 1. OBJECTIVE OF MEMORANDUM OF UNDERSTANDING - The objective of this

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- operations and maintenance, monitoring and coordination for Strategic Area as per SCP
- 2.2. The Agency will provide necessary support to the Authority for undertaking project
- implementation for strategic area proposals and pan-city proposals as per SCP.
 2.3. The Agency will endeavour to prioritize its development projects in line with SCP and to converge resources to the Authority for implementation of smart city plan components which fall under various policies, schemes and budgets.
 2.4. The Agency will fast track any applicable approvals, licenses, and permits for implementation of smart city projects.

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For and on behatiof First Part Signature 52 Name (TEJASNI S.NATR) Tille COMMISSIONEZ, 2016 Date Winness Witness 1. C. Claudushuchi Jundy

For and on behalf of Second Part Signature DAVE Name VIX AS INICAL & A Title Add. duits Mg.(CS) Date IA. 12.15 Witness

4. classienert and france and ANDLEER WANSI

(Hippinta Transz) (hapine)

This Agreement is made at <u>BHOPAL</u> on this 14 Day of <u>DECEMBER</u> 2015 between <u>BHOPAL</u> <u>MUNICIPAL COROPORATION</u>, having its office at <u>HARSHWARDHAN COMPLEX_MATA</u> MANDIR BHOPAL (herein after referred to as the 'Authority') which expression shall where the context so admit include its heirs, Assigns, Executors, Successors, Legal Representatives, Administrators etc. of the first part of agreement.

AND

Bhopal Development Authority (BDA) having its office at <u>BHOPAL</u> (herein after referred to as the "Agency") which expression shall where the context so admit include its heirs, Assigns, Executors, Successors, Legal Representatives, Administrators etc. of the second part of agreement

Hereafter referred to collectively as "Parties".

("Mission") and shortlisted <u>BHOPAL</u> city under stage-1 of smart cities challenge as potential smart city and [Name of Municipal Corporation] has prepared a Smart City Plan ("SCP") for stage-2 of smart cities challenge. WHEREAS Ministry of Urban Development ("MoUD") has launched Smart Cities Mission

AND WHEREAS the Authority has passed council resolution no._____ dated to incorporate a Special Purpose Vehicle ("SPV") for planning, designing, financing, implementation and operations and maintenance of smart city projects.

relating to SCP and its implementation till formation of SPV, and after formation of SPV, all rights and obligations of the Authority related to SCP will be transferred to the SPV. AND WHEREAS the Authority will act as nodal organization for coordination on all matters

AND WHEREAS the Parties have had discussions on <u>BHOPAL</u> SCP including proposals for area based development for Strategic Area and pan-city solutions and have reached an implementation: understanding on the following roles and responsibilities pertaining to smart city plan

 OBJECTIVE OF MEMORANDUM OF UNDERSTANDING - The objective of this Memorandum of Understanding (MOU) is to define areas of coordination and collaboration between the Authority and the Agency for planning, design, financing, implementation and operations and maintenance of upcoming smart city projects in <u>BHOPAL</u> under Government of India's Smart City Mission-

AREAS OF COORDINATION AND COLLABORATION - The areas of coordination and collaboration between the Authonity and the Agency will be as following:
 Parties will coordinate in areas related to planning, design, implementation,

- operations and maintenance, monitoring and coordination for Strategic Area as per
- 2.2. The Agency will provide necessary support to the Authority for undertaking project SCP
- implementation for strategic area proposals and pan-city proposals as per SCP.
 2.3. The Agency will endeavour to prioritize its development projects in line with SCP and to converge resources to the Authority for implementation of smart city plan components which fail under various policies, schemes and budgets.
 2.4. The Agency will fast track any applicable approvals, licenses, and permits for implementation of smart city projects.

3. NON-EXCLUSIVITY - The relationship of the parties under this MOU shall be non-exclusive and both parties, including their affiliates, subsidiaries and divisions, are free to pursue other agreements or collaborations of any kind. However, when entering into a particular agreement related to Strategic Area, the participants may agree to limit each party's right to collaborate with others on that subject.

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partner, an agent or legal representative of the other for any purpose. 5. RELATIONSHIP - Nothing in this MOU shall be construed to make either party a

6. ASSIGNMENT - Neither Party shall transfer or assign this Agreement, or rights or obligations arising hereunder, either wholly or in part, to any third party, unless otherwise defined in this MOU or agreed in written by both Parties.

7. COSTS OF THE MOU - Each Party shall bear the respective costs of carrying out the obligations under this MOU.

8. SIGNED IN DUPLICATE - This MOU is executed in duplicate with each copy being an official version of the Agreement and having equal legal validity.

BY SIGNING BELOW, the parties, acting by their duly authorized officers, have caused this Memorandum of Understanding to be executed, effective as of the day and year first above written.

20 Title Witness Date CommissionEL, BAC Name Signature For and on behat/of First Part Signature TESASWI SINLATE

Churchennous shull

(maximal Juneary

Signature Title

NEERAJ VASHISHTHA CEO BDA, 14 th DEC 2015

Witness 1. Amit aijbhiye July 2. Kanul Nayar Date

This Agreement is made at <u>BHOPAL</u> on this 14 Day of <u>DECEMBER</u> 2015 between <u>BHOPAL</u> MUNICIPAL CORPORATION, having its office at HARSHWARDHAN COMPLEX. MATA MANDIR BHOPAL (herein after referred to as the "Authority") which expression shall where the context so admit include its heirs, Assigns, Executors, Successors, Legal Representatives, Administrators etc. of the first part of agreement.

AND

Madhya Pradesh Madhya Ksherra Vidyut Vitran Corporation Ltd (MPMKVVCL) having its office at <u>BHOPAL</u> (herein after referred to as the "Agency") which expression shall where the context so admit include its heirs, Assigns, Executors, Successors, Legal Representatives, Administrators etc. of the second part of agreement.

Hereafter referred to collectively as "Parties"

WHEREAS Ministry of Urban Development ("MoUD") has launched Smart Cities Mission ("Mission") and shorlisted <u>BHOPAL</u> city under stage-1 of smart cities challenge as potential smart city and Bhopal Municipal Corporation has prepared a Smart City Plan ("SCP") for stage-2 of smart cities challenge.

AND WHEREAS the Authority has passed council resolution no. dated to incorporate a Special Purpose Vehicle ("SPV") for planning, designing, financing, implementation and operations and maintenance of smart city projects.

AND WHEREAS the Authority will act as nodal organization for coordination on all matters relating to SCP and its implementation till formation of SPV, and after formation of SPV, all rights and obligations of the Authority related to SCP will be transferred to the SPV.

AND WHEREAS the Parties have had discussions on <u>BHOPAL</u> SCP including proposals for area based development for Strategic Area and pan-city solutions and have reached an understanding on the following roles and responsibilities pertaining to smart city plan implementation:

 OBJECTIVE OF MEMORANDUM OF UNDERSTANDING - The objective of this Memorandum of Understanding (MOU) is to define areas of coordination and collaboration between the Authority and the Agency for planning, design, financing, implementation and operations and maintenance of upcoming smart city projects in <u>BHOPAL</u> under Government of india's Smart City Mission.

 AREAS OF COORDINATION AND COLLABORATION - The areas of coordination and collaboration between the Authority and the Agency will be as following:
 Parties will coordinate in areas related to planning, design, implementation,

- 2.1. Parties will coordinate in areas related to planning, design, implementation, operations and maintenance, monitoring and coordination for Strategic Area as per
- SCP. 2.2. The Agency will provide necessary support to the Authority for undertaking project implementation for strateoic area proposals and pan-city proposals as per SCP.
- implementation for strategic area proposals and pan-city proposals as per SCP. 2.3. The Agency will endeavour to prioritize its development projects in line with SCP and to converge resources to the Authority for implementation of smart city plan components which fall under various policies, schemes and budgets.
- Components which fail under various policies, schemes and oudgets.
 The Agency will fast track any applicable approvals, licenses, and permits for implementation of smart city projects.

0 N H Witness Date Title Name For and on behalt of First Part Signature BY SIGNING BELOW, the parties, acting by their duly authorized officers, have caused this Memorandum of Understanding to be executed, effective as of the day and year first above an official version of the Agreement and having equal legal validity. ASSIGNMENT - Neither Party shall transfer or assign this Agreement, or rights or obligations arising hereunder, either wholly or in part, to any third party, unless otherwise defined in this MOU or agreed in written by both Parties. 7. COSTS OF THE MOU - Each Party shall bear the respective costs of carrying out the obligations under this MOU. 4. TERMS AND TERMINATION - This MOU, unless extended by mutual written agreement of the parties, shall expire 5(five) years after the effective date specified in the opening paragraph. This MOU may be amended, extended or terminated by mutual written agreement of the parties at any time. Either party shall have the right to unilaterally terminate this MOU upon 60 days prior written notice to the other party. partner, an agent or legal representative of the other for any purpose. and the party's right to collaborate with others on that subject. exclusive and both parties, including their affiliates, subsidiaries and divisions, are free to pursue other agreements or collaborations of any kind. However, when entering into a particular agreement related to Strategic Area, the participants may agree to limit each Chandminich church 8. SIGNED IN DUPLICATE - This MOU is executed in duplicate with each copy being 5. RELATIONSHIP - Nothing in this MOU shall be construed to make either party a HABILL FINDER (TEGASWI S.NAIK) COMMISSIONER, SINC H/12/15 0 For and on behalf of Second Part Signature A-K-Khal Trile S-K-Khal Ņ Witness parases ANOLEES WARST A-F-Khatri SiE mimtuve L 14/12/15 Taiointramia

3. NON-EXCLUSIVITY - The relationship of the parties under this MOU shall be non-

2.5. Parties will consult each other and exchange necessary information for coordination

and collaboration purpose.

This Agreement is made at <u>BHOPAL</u> on this 14 Day of <u>DECEMBER</u> 2015 between <u>BHOPAL</u> <u>MUNICIPAL COROPORATION</u>, having its office at <u>HARSHWARDHAN COMPLEX</u>, <u>MATA</u> <u>MANDIR BHOPAL</u> (herein after referred to as the "Authority") which expression shall where the context so admit include its heirs, Assigns, Executors, Successors, Legal Representatives, Administrators etc. of the first part of agreement.

AND

referred to as the "Agency") which expression shall where the context so admit include its heirs, Assigns, Executors, Successors, Legal Representatives, Administrators etc. of the second part of agreement. Madhya Pradesh Metro Rail Corporation Ltd, having its office at BHOPAL (herein after

Hereafter referred to collectively as "Parties"

WHEREAS Ministry of Urban Development ("MoUD") has launched Smart Cities Mission ("Mission") and shortlisted <u>BHOPAL</u> city under stage-1 of smart cities challenge as potential smart city and [Name of Municipal Corporation] has prepared a Smart City Plan ("SCP") for stage-2 of smart cities challenge.

financing, implementation and operations and maintenance of smart city projects. AND WHEREAS the Authority has passed council resolution no. to incorporate a Special Purpose Vehicle ("SPV") for planning, designing, dated

AND WHEREAS the Authority will act as nodal organization for coordination on all matters relating to SCP and its implementation till formation of SPV, and after formation of SPV, all rights and obligations of the Authority related to SCP will be transferred to the SPV.

understanding on the following roles and responsibilities pertaining to smart city plan AND WHEREAS the Parties have had discussions on $\underline{\text{BHOPAL}}$ SCP including proposals for area based development for Strategic Area and pan-city solutions and have reached an implementation:

1. OBJECTIVE OF MEMORANDUM OF UNDERSTANDING - The objective of this Memorandum of Understanding (MOU) is to define areas of coordination and collaboration between the Authority and the Agency for planning, design, financing, implementation and operations and maintenance of upcoming smart city projects in <u>BHOPAL</u> under Government of India's Smart City Mission.

Ņ AREAS OF COORDINATION AND COLLABORATION - The areas of coordination

- and collaboration between the Authority and the Agency will be as following: 2.1. Parties will coordinate in areas related to planning, design, implementation, operations and maintenance, monitoring and coordination for Strategic Area as per SCP
- 2.2. The Agency will provide necessary support to the Authority for undertaking project implementation for strategic area proposals and pan-city proposals as per SCP.
 2.3 The Agency will endeavour to prioritize its development projects in line with SCP and to converge resources to the Authority for implementation of smart city plan
- components which fall under various policies, schemes and budgets. 2.4. The Agency will fast track any applicable approvals, licenses, and permits for implementation of smart city projects.

© 0 Signature Name C Ņ 3. NON-EXCLUSIVITY - The relationship of the parties under this MOU shall be non-exclusive and both parties, including their affiliates, subsidiaries and divisions, are free to pursue other agreements or collaborations of any kind. However, when entering into a particular agreement related to Strategic Area, the participants may agree to limit each party's right to collaborate with others on that subject. Date Witness For and on behalf of First Part Signature (The Start) Name (TETASWI S.NATI) BY SIGNING BELOW, the parties, acting by their duly authorized officers, have caused this Memorandum of Understanding to be executed, effective as of the day and year first above an official version of the Agreement and having equal legal validity. 7. COSTS OF THE MOU - Each Party shall bear the respective costs of carrying out the obligations under this MOU. 6. ASSIGNMENT - Neither Party shall transfer or assign this Agreement, or rights or obligations arising hereunder, either wholly or In part, to any third party, unless otherwise defined in this MOU or agreed in written by both Parties. partner, an agent or legal representative of the other for any purpose. agreement of the parties at any time. Either party shall have the right to unilaterally terminate this MOU upon 60 days prior written notice to the other party. 4. TERMS AND TERMINATION - This MOU, unless extended by mutual written agreement of the parties, shall expire 5(five) years after the effective date specified in the written. opening paragraph. This MOU may be amended, extended or terminated by mutual written 8. SIGNED IN DUPLICATE - This MOU is executed in duplicate with each copy being 5. RELATIONSHIP - Nothing in this MOU shall be construed to make either party a 2.5. Parties will consult each other and exchange necessary information for coordination Charlia nauli Surke COMMISSIONER , SMC and collaboration purpose. HAR HET TILLARD 14/12/15 Cett, Hell · 10. (-Signature Name Title Date Witness For and on behalf of Second Part And the second AMD, MPINECL kanning chandring under ANDLEEDS WARST

This Agreement is made at <u>BHOPAL</u> on this 14 Day of <u>DECEMBER</u> 2015 between <u>BHOPAL</u> <u>MUNICIPAL COROPORATION</u>, having its office at <u>HARSHWARDHAN COMPLEX</u>, <u>MATA</u> <u>MANDIR BHOPAL</u> (herein after referred to as the "Authority") which expression shall where the context so admit include its heirs, Assigns, Executors, Successors, Legal Representatives, Administrators etc. of the first part of agreement.

AND

Madhya Pradesh Audyogik Kendra Vikas Nigam (MPAKVN) having its office at <u>BHOPAL</u> (herein after referred to as the "Agency") which expression shall where the context so admit include its heirs, Assigns, Executors, Successors, Legal Representatives, Administrators etc. of the second part of agreement.

Hereafter referred to collectively as "Parties"

stage-2 of smart cities challenge. smart city and [Name of Municipal Corporation] has prepared a Smart City Plan ("SCP") for WHEREAS Ministry of Urban Development ("MOUD") has launched Smart Cities Mission ("Mission") and shortlisted <u>BHOPAL</u> city under stage-1 of smart cities challenge as potential

AND WHEREAS the Authority has passed council resolution no._____dated to incorporate a Special Purpose Vehicle ("SPV") for planning, designing, financing, implementation and operations and maintenance of smart city projects.

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Memorandum of Understanding (MOU) is to define areas of coordination and collaboration between the Authority and the Agency for planning, design, financing, implementation and operations and maintenance of upcoming smart city projects in <u>BHOPAL</u> under Government of India's Smart City Mission 1. OBJECTIVE OF MEMORANDUM OF UNDERSTANDING - The objective of this

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N Name Date Witness Title Signature For and on behalf of First Part On chardrand anka COMMISSIONEL, SMC TESASWI S THASE 14/12/15 Su NH Date For and on behalf of Second Part Signature Rub due to Name Pracoph DED Title Concord Manay 02 Witness Att 2. som to sigh Sorgen Arert, should 14/12/15.

This Agreement is made at <u>BHOPAL</u> on this 14 Day of <u>DECEMBER</u> 2015 between <u>BHOPAL</u> <u>MUNICIPAL COROPORATION</u>, having its office at <u>HARSHWARDHAN COMPLEX</u>. <u>MATA</u> <u>MANDIR BHOPAL</u> (herein after referred to as the "Authority") which expression shall where Representatives, Administrators etc. of the first part of agreement. the context so admit include its heirs, Assigns, Executors, Successors, Legal

AND

"Agency") which expression shall where the context so admit include its heirs, Assigns, Executors, Successors, Legal Representatives, Administrators etc. of the second part of agreement Bhopal City Link Ltd. (BCLL) having its office at BHOPAL (herein after referred to as the

Hereafter referred to collectively as "Parties"

stage-2 of smart cities challenge. smart city and [Name of Municipal Corporation] has prepared a Smart City Plan ("SCP") for ("Mission") and shortlisted BHOPAL city under stage-1 of smart cities challenge as potential WHEREAS Ministry of Urban Development ("MoUD") has launched Smart Cities Mission

AND WHEREAS the Authority has passed council resolution no. dated to incorporate a Special Purpose Vehicle ("SPV") for planning, designing, financing, implementation and operations and maintenance of smart city projects.

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- 2.2. The Agency will provide necessary support to the Authority for undertaking project
- 2.3 The Agency will endeavour to prioritize its development projects in line with SCP and to converge resources to the Authority for implementation of smart city plan implementation for strategic area proposals and pan-city proposals as per SCP
- components which fall under various policies, schemes and budgets. 2.4. The Agency will fast track any applicable approvals, licenses, and permits for implementation of smart city projects,

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Date Commissioner, J. NAIE Witness 14/12/19 Signature & For and on behalf of First Part

MARSHET TANKES

For and on behalf of Second Part Signature Title Date Witness Chardranauti Shukla

chief Executive officer Phope city link limited.

Date 14 12 2015

Θ A-102. Cail C ANDLEFIS CLARSI

(D. Knut bay shipe)

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This Agreement is made at <u>BHOPAL</u> on this 14 Day of <u>DECEMBER</u> 2015 between <u>BHOPAL</u> MUNICIPAL <u>COROPORATION</u>, having its office at <u>HARSHWARDHAN COMPLEX. MATA</u> <u>MANDIR BHOPAL</u> (herein after referred to as the "Authority") which expression shall where Representatives, Administrators etc. of the first part of agreement. the context so admit include its heirs, Assigns, Executors, Successors, Legal

AND

after referred to as the "Agency") which expression shall where the context so admit include its heirs, Assigns, Executors, Successors, Legal Representatives, Administrators etc. of the second part of agreement. Madhya Pradesh Town & Country Planning (T&CP) having its office at BHOPAL (herein

Hereafter referred to collectively as "Parties"

stage-2 of smart cities challenge. ("Mission") and shortlisted <u>BHOPAL</u> city under stage-1 of smart cities challenge as potential smart city and [Name of Municipal Corporation] has prepared a Smart City Plan ("SCP") for WHEREAS Ministry of Urban Development ("MoUD") has launched Smart Cities Mission

AND WHEREAS the Authority has passed council resolution no. dated to incorporate a Special Purpose Vehicle ("SPV") for planning, designing, financing, implementation and operations and maintenance of smart city projects.

AND WHEREAS the Authority will act as nodal organization for coordination on all matters relating to SCP and its implementation till formation of SPV, and after formation of SPV, all rights and obligations of the Authority related to SCP will be transferred to the SPV.

AND WHEREAS the Parties have had discussions on <u>BHOPAL</u> SCP including proposals for area based development for Strategic Area and pan-city solutions and have reached an understanding on the following roles and responsibilities pertaining to smart city plan implementation

1. OBJECTIVE OF MEMORANDUM OF UNDERSTANDING - The objective of this Memorandum of Understanding (MOU) is to define areas of coordination and collaboration between the Authority and the Agency for planning, design, financing, implementation and operations and maintenance of upcoming smart city projects in <u>BHOPAL</u> under Government of India's Smart City Mission.

2. AREAS OF COORDINATION AND COLLABORATION - The areas of coordination

- and collaboration between the Authority and the Agency will be as following: 2.1. Parties will coordinate in areas related to planning, design, implementation, operations and maintenance, monitoring and coordination for Strategic Area as per
- 2.2. The Agency will provide necessary support to the Authority for undertaking project SCP
- Implementation for strategic area proposals and pan-city proposals as per SCP.
 The Agency will endeavour to prioritize its development projects in line with SCP and to converge resources to the Authority for implementation of smart city plan components which fail under various policies, schemes and budgets.
 The Agency will fast track any applicable approvals, licenses, and permits for
- implementation of smart city projects

3. NON-EXCLUSIVITY - The relationship of the parties under this MOU shall be non-exclusive and both parties, including their affiliates, subsidiaries and divisions, are free to pursue other agreements or collaborations of any kind. However, when entering into a particular agreement related to Strategic Area, the participants may agree to limit each party's right to collaborate with others on that subject.

4. TERMS AND TERMINATION - This MOU, unless extended by mutual written agreement of the parties, shall expire 5(five) years after the effective date specified in the opening paragraph. This MOU may be amended, extended or terminated by mutual written agreement of the parties at any time. Either party shall have the right to unilaterally terminate this MOU upon 60 days prior written notice to the other party.

5. RELATIONSHIP - Nothing in this MOU shall be construed to make either party a partner, an agent or legal representative of the other for any purpose.

6. ASSIGNMENT - Neither Party shall transfer or assign this Agreement, or rights or obligations arising hereunder, either wholly or in part, to any third party, unless otherwise defined in this MOU or agreed in written by both Parties.

COSTS OF THE MOU - Each Party shall bear the respective costs of carrying out the obligations under this MOU.

SIGNED IN DUPLICATE - This MOU is executed in duplicate with each copy being an official version of the Agreement and having equal legal validity.

BY SIGNING BELOW, the parties, acting by their duly authorized officers, have caused this Memorandum of Understanding to be executed, effective as of the day and year first above written.

Date For and on behalf of First Part Signature Witness Title Name Commissioner, BMC TETASWI S.NAIL GA

Date Witness For and on behalf of Second Part Signature Title

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This Agreement is made at <u>BHOPAL</u> on this 14 Day of <u>DECEMBER</u> 2015 between <u>BHOPAL</u> <u>MUNICIPAL COROPORATION</u>, having its office at <u>HARSHWARDHAN COMPLEX. MATA</u> <u>MANDIR BHOPAL</u> (herein after referred to as the "Authority") which expression shall where the context so admit include its heirs, Assigns, Executors, Successors, Legal Representatives, Administrators etc. of the first part of agreement.

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2 - S Date Tille Witness Name Signature For and on behalf of First Part Commissionez, SMC Chandranach Alurke

Date

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Signature Name For and on behalitof Second Part Signature Witness 34. pl. s. syndely 0-21e - 14, 12. 2011 m.p. pellulius could be-Region o tion Ran-M

Anthan D.C. (HARHET TENDEZ

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Name Date For and on behalf of First Part Signature Title Witness COMMISSIONER , EM C 14/12/15 TESASWI S. NATE

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For and on behalf of Second Part Signature Name Title Date D K Andraw Print Ν Witness DK graden & Priscipal. Gove Gas ITI BPL.

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For and on behat of First Part Signature 50 Name (TEJASWI S.NAIL)

Title COMMISSIONER, SMC Date 14/12/15 Witness 1

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(HARIHIT TIWARZ)

For and on behalf of Second Part Signature Name C.P. Wahulr Title DENTY-COLY (STT) Date Witness 1414115.

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MADHYA PRADESH URBAN INFRASTRUCTURE INVESTMENT PROGRAMME (MPUIIP)

Handbook of Smart Solutions

Ready Reckoner for Preparation of Smart City Proposals in Madhya Pradesh

September 2015