



Flanders
State of the Art

OPPORTUNITIES FOR FLEMISH COMPANIES IN SMART CITIES

IN INDIA

FLANDERS INVESTMENT & TRADE MARKET SURVEY



OPPORTUNITIES FOR FLEMISH COMPANIES IN INDIAN SMART CITIES

WHY SMART CITIES IN INDIA

The idea of smart city came into formulation owing to the need to accommodate rapid urbanization. Interest in smart cities continues to grow, driven by a range of socioeconomic and technological developments across the globe. It is due to the increasing number of smart cities that established suppliers from energy, transport, buildings, and government sectors are moving into the smart city market, while start-ups are addressing a range of emerging opportunities in the same field.

India is drawing on the development of smart cities at the global level. Prime Minister Narendra Modi's vision 'Digital India' has a plan to build 100 smart cities across the country.

Modi's dream project is building 100 Smart Cities across the country and the 2014 Budget has laid out a roadmap, a total of Rs 980 bn has been approved by the Cabinet for development of 100 smart cities and rejuvenation of 500 others. For Smart Cities Mission, Rs 480 bn and for Atal Mission for Rejuvenation and Urban Transformation (AMRUT), the Cabinet has approved a total funding of Rs 500 bn.

During a budget-day speech, the Finance Minister Arun Jaitley said that Smart Cities would be developed as satellite towns of larger cities and by modernizing the existing mid-sized cities.

Government of India (GoI) has recently pledged to create 100 new Smart Cities in the country. It has a sense of urgency — the first 20 cities will be selected for funding with development beginning in 2015-16.

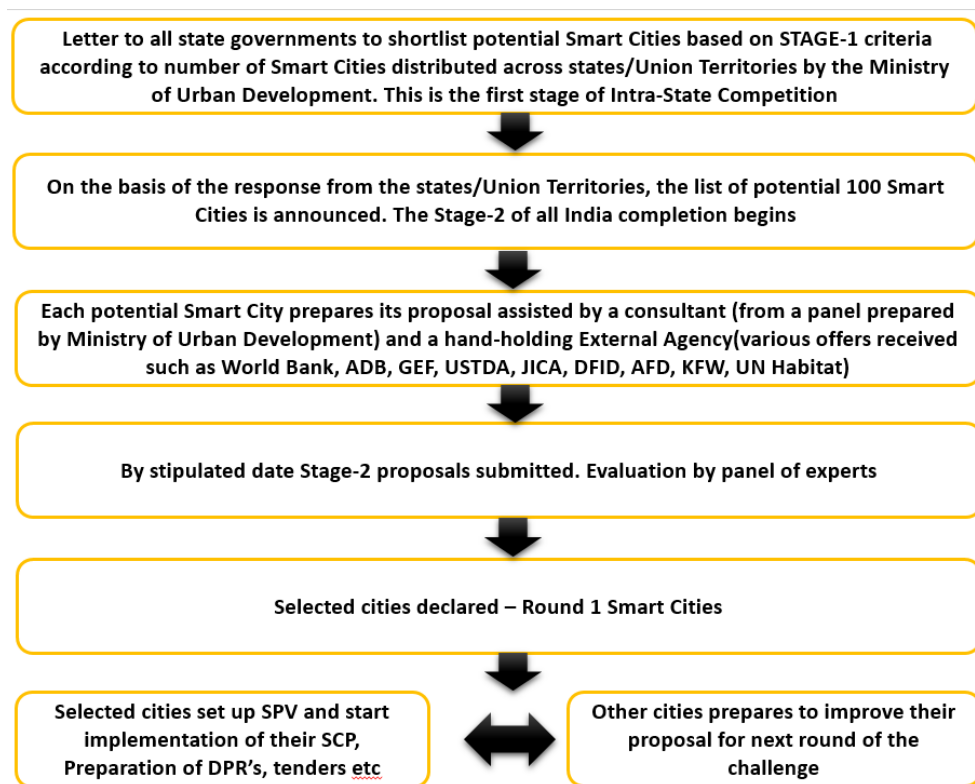
The smart city project in India is part of a \$1.5tn global market opportunity. The business opportunities that come along the smart cities mission in India can be seen as a source of great potential for Flemish businesses who are involved in products and solutions within the smart technology, sustainable solutions and hi-tech space.

SELECTION PROCEDURE

Below is the process defined by Ministry of Urban Development (MoUD) of India for identifying and shortlisting cities.

At present 98 cities that have been shortlisted. The 98 cities are working out individual development project report (DPR) with 37 consultants that have been identified and empanelled by Ministry of Urban Development (MoUD).

Once all the 98 cities submit their respective development project report (DPR's), Ministry of Urban Development (MoUD) will shortlist 20 cities as a part of the Round -1 smart cities. Once the 20 cities are shortlisted, respective State Governments and Municipalities involved in the development of the smart city will release tenders and request for proposals (RFP's) as a part of various infrastructure projects, which will be part of the overall development and re-modelling of each of 20 smart cities.



Source: Ministry of Urban Development, Smart Cities Web portal Government of India

WHO ARE THE 98 SMART CITIES

To identify the 100 cities for development, the States and Union Territories (UT's) were asked to nominate names of cities for 'Smart City Challenge Competition' and selected cities were to get a central fund each year for next five years. The aim of this competition was to link financing with the ability of the cities to perform to achieve the mission objectives. Based on the initial guidelines laid by the Ministry of Urban Development (MoUD) by first quarter of 2016 20 cities will be identified and shortlisted for Smart Cities Project for the Stage - 1.

The evaluation parameters of selecting these cities were based upon four key areas – existing service levels, institutional systems and capacities, self-financing capabilities and past track record of reforms.

Following is the list of 98 cities, the 37 consultants identified and empanelled for respective cities are currently in the process of developing a detailed project report (DPR's). Based on the detailed project report (DPR's) for each of 98 cities, 20 cities will be shortlisted for actual implementation of smart cities (part of stage-1)

State	Proposed Smart Cities	State	Proposed Smart Cities
Andhra Pradesh	Vishakhapatnam, Tirupati, Kakinada	Madhya Pradesh	Bhopal, Indore, Gwalior, Jabalpur, Ujjain, Satna, Sagar
Andman & Nicobar Islands	Port Blair	Maharashtra	Navi Mumbai, Nashik, Thane, Greater Mumbai, Amravati, Solapur, Nagpur, Kalyan-Dombivali, Aurangabad, Pune
Assam	Guwahati	Manipur	Imphal
Bihar	Muzaffarpur, Bhagalpur, Bihar Sharif	Meghalaya	Shillong
Chandigarh	Chandigarh	Mizoram	Aizawl
Chhattisgarh	Raipur, Bilaspur	Nagaland	Kohima
Dadra & Nagar Haveli	Silvasa	Odisha	Bhubaneswar, Rourkela
Daman & Diu	Diu	Puducherry	Oulgaret
Delhi	New Delhi Municipal Council	Punjab	Ludhiana, Amritsar, Jalandhar
Goa	Panaji	Rajasthan	Jaipur, Ajmer, Kota, Udaipur
Gujarat	Ahmedabad, Surat, Vadodra, Rajkot, Gandhinagar, Dahod	Sikkim	Namchi
Haryana	Karnal, Faridabad	Tamil Nadu	Tiruchirappalli, Salem, Tirunelveli, Dindigul, Thanjavur, Tiruppur, Vellore, Coimbatore, Madurai, Erode, Thoothukudi, Chennai
Himachal Pradesh	Dharamshala	Telangana	Greater Hyderabad, Greater Warangal
Jammu & Kashmir	J&K Government has asked for more time to decide on the potential smart cities.	Tripura	Agartala
Jharkhand	Ranchi	Uttar Pradesh	Moradabad, Aligarh, Shaharanpur, Bareilly, Jhansi, Kanpur, Allahabad, Lucknow, Varanasi, Ghaziabad, Agra, Rampur and another 1 city to be shortlisted in the future
Karnataka	Mangaluru, Belagavi, Shivamogga, Hubballi-Dharwad, Tumakuru, Davanegere	Uttarakhand	Dehradun
Kerala	Cochin (Kochi)	West Bengal	New Town Kolkata, Bidhannagar, Durgapur, Haldia
Lakshadweep	Kavaratti		

Source: Ministry of Urban Development, Business World Smart Cities Journal

ROUND ONE SHORTLIST OF 20 CITIES

The Government of India released the list of the first 20 smart cities first week of February 2016. Tenders for the shortlisted 20 cities will be floated over a span of next few months.



Smart City is not a destination but a series of steps in that direction. Given that the urbanisation level in India is still at just around 31 per cent, far lower than China's 54 per cent, Brazil's 90 per cent and well over 80 per cent in most developed economies. The short list of 20 cities is a decisive step in this direction, considering that these cities have already furnished plans to cumulatively mobilise resources over the next five years. These include an integrated urban planning effort with a sharper focus on infrastructure, land use planning, transport, design and architecture.

These 20 cities will be the first to receive funds, hence kickstarting the process of developing them into 'smart cities'. The 20 selected cities will now set up special purpose vehicles (SPV's) and start implementation of their proposals, prepare detailed project reports, float tenders etc. All the cities have proposed public-private partnership (PPP) as a major vehicle of resource mobilisation, said the minister.

10 of the 20 cities have proposed to mobilise Rs 8,521 crore (Euro 1.12 Billion) under public-private partnership (PPP) model, while others have also indicated this option. A total investment of Rs 50,802 crore (Euro 6.7 Billion) has been proposed in the selected smart cities.

BUSINESS OPPORTUNITIES FOR SMART CITIES PROJECTS

The core infrastructure elements in a Smart City would include:

- Adequate water supply
- Assured electricity supply
- Sanitation, including solid waste management
- Efficient urban mobility and public transport
- Affordable housing, especially for the poor
- Robust IT connectivity and digitalization
- Good governance, especially e-Governance and citizen participation
- Sustainable environment
- Safety and security of citizens, particularly women, children and the elderly
- Health and education

As far as Smart Solutions are concerned, an illustrative list is given below. This is not, however, an exhaustive list, and cities are free to add more applications.

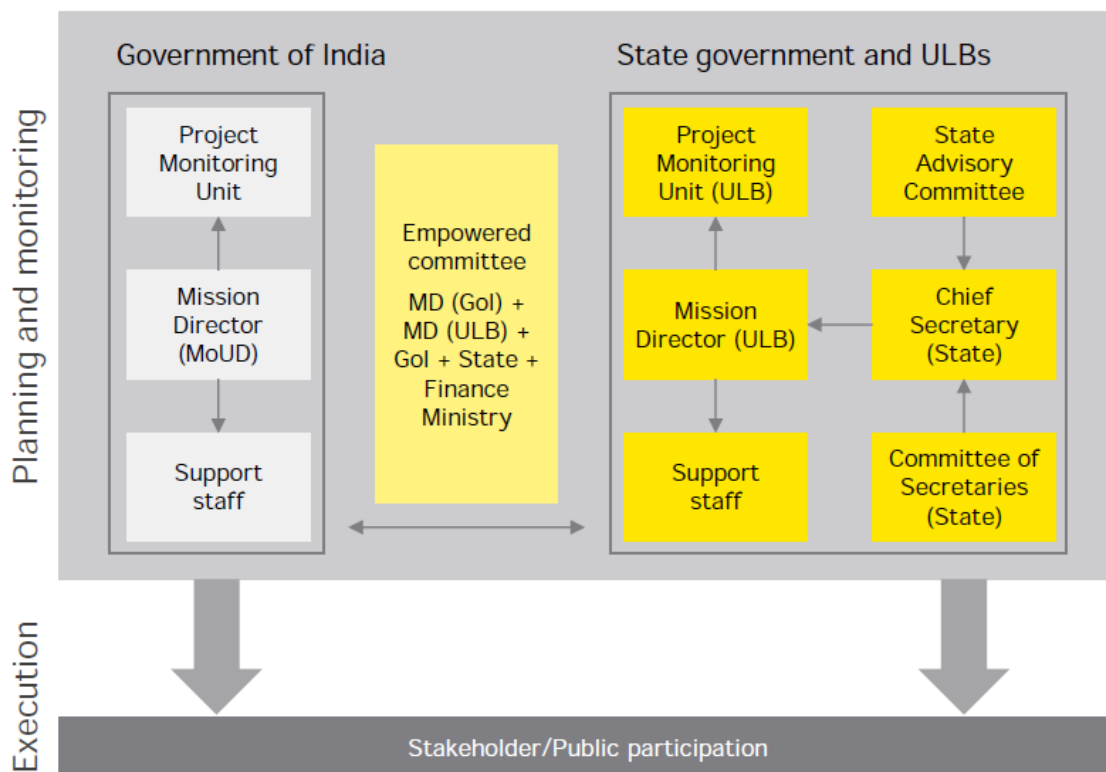


Source: Smart Cities Expo May 2015

IMPLEMENTATION AND OPERATIONAL FRAMEWORK

- Project Monitoring Unit (PMUs) will be constituted at both Central and Regional level [state and Urban Local Bodies (ULB)]
- Mission Directors will be appointed from both Ministry of Urban Development (MoUD) and Urban Local Bodies (ULB), who will lead their respective Project Monitoring Unit (PMUs) as well as support staff.
- An Empowered Committee of Experts will be instituted, having representation from all bodies – Central Govt/State/Urban Local Bodies (ULB). This committee will have the ultimate authority to approve/disapprove a project.

For instance a Task Force has been set up to develop Ajmer (Rajasthan) into a smart city. It comprises: Divisional Commissioner, Ajmer(Chairman), Secretaries of Town and Country Planning and Municipal Affairs, Government of Rajasthan, District Collector of Ajmer, Administrator of Urban Improvement Trust, Ajmer, Municipal Commissioner of Ajmer, Mayor of Ajmer besides Joint Secretary, MoUD, Government of India (Gol) and representatives of Ministry of External Affairs and US Trade and development agency (USTDA).



Source: Draft Government Concept note on Smart City Scheme

FINANCIAL STRUCTURE FOR SMART CITIES

Smart cities will be developed through collaboration between Central, State and urban local bodies. The funding will be through own sources, grants, viability gap funding (VGF) and public private partnership (PPP). The Central Government will provide viability gap funding (VGF). Of the total viability gap funding (VGF) allocated to each Smart Cities by Central:

- Approximately 60% will be allocated for investment in infrastructure
- 10% for e-governance initiatives
- Remaining funds will be in form of equity contribution of the government in two integrated township projects (in partnership with a private developer), as well as one greenfield project and one redevelopment project

Government of India (GoI) has advised cities intending to participate in the smart city programme to develop a financing plan along with their Smart City Development Plan (SCDP) and detailed project reports (DPRs). Such plan could consider resources from multiple government agencies and departments.

- City managements can use credit ratings for assessing current level of borrowing capacity, along with other performance parameters including economic base, service levels and recovery of user charges and sustainability of proposed investments.
- It may develop an investment and financing strategy and identify projects open to innovative financing such as accessing bond market or structuring projects as PPP.

Apart from, budgetary resources available with various levels of government, resources would need to be leveraged for the sector from both domestic and overseas investors. Initially, the Government of India (GoI) may establish a fund consultation with other ministries, multilateral, bilateral developing agencies and banks. This fund may blend grant funds from:

- CSS (Central Government allocation),
- Borrowings from multi-lateral and bi-lateral agencies; For instance, Asia Development Bank (ADB) has firmly committed to support India's Smart Cities Programme
- Bonds subscribed by national and state level land development agencies (e.g., Haryana Urban Development Authority (HUDA), Punjab Urban Development Authority (PUDA), Delhi Development Authority (DDA) etc.)

The pooling of funds from several sources is expected to reduce borrowing cost and lengthen tenor. The fund may provide Viability Gap Funding (VGF) as well as provide credit guarantees to municipal bonds and term-loans to leverage debt resources from financial markets.

Use PPPs where feasible in smart city projects to leverage private sector financing. Fostering PPPs in the urban sector provision for incentives could be explored; however, this needs to be discussed with the relevant ministries of the Government of India (GoI) and concerned departments in the Central/State Governments.	Pooled Municipal Debt Obligation (PMDO) facility was set up in 2006 with the participation of several Banks to promote and finance infrastructure projects in urban area on shared risk basis.	Real Estate Infrastructure Trusts (REITS): Government of India (GoI) intends to provide incentives for REITS, which will have pass through for the purpose of taxation. These are expected to make available fresh equity and attract long term finance from foreign and domestic sources including the NRIs.	Infrastructure debt funds (IDFs): They could be directed to invest in highly rated municipal bonds/green bonds. They could be used as a means to re-finance debt taken during the construction phase as well as additional cash for financing operations. Tax-free municipal bonds: Creditworthy local governments. issuing tax-free municipal bonds to bring down the cost of borrowing
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Source: Asian Development Bank March 2015

SMART CITIES PROJECTS UNDER IMPLEMENTATION

GUJARAT INTERNATIONAL FINANCIAL TEC (GIFT)

State: Gujarat

Website: <http://giftgujarat.in/home.aspx>

Gujarat International Financial Tec (GIFT) GIFT, spread over 886 acres, is situated at a distance of 18km from Ahmedabad airport. The city is expected to be a front-runner in Smart Cities Programme. The city has been conceptualised as a global financial and IT services hub, whose construction began in 2011. Two towers and few banks, among others, have already signed up. The city is expected to generate 0.5mn direct jobs and an equal number of indirect jobs.

GIFT City will have a command center with ICT infrastructure to manage everyday chores. It's a 50:50 joint venture between the state-owned Gujarat Urban Development Company and Infrastructure Leasing and Financial Services (IL&FS). The three phases are expected to be completed by 2026, with first phase to be completed by 2016.

- Solid waste management system: solid waste will be sucked out from homes and offices through pipelines leading directly to a waste processing plant
- Parking: IL&FS is developing a multi-level car parking facility, developed on BOOT basis. The parking shall have 16 floors, with capacity of around 5400 car parking spaces.
- The city will have 1,000 MW electric supply, piped natural gas, centralised AC system, international fibre landing system. It will also house integrated multimodal transportation system (Multi Rapid Transport System/Light Rail Transit / Bus Rapid Transit), aiming to achieve 90% share of public transport.

KOCHI SMART CITY

State: Kerala

Website: www.smartcity.ae

Kochi Smart City, spread over 246 acre, is an IT township project, promoted by UAE based Dubai Holdings and Government of Kerala. It is expected that the project will be completed by 2020 and will create around 90,000 jobs. This project envisions at least 8.8mn sq.ft. of built up space of which at least 6.2mn sq. ft. will be specifically for IT/ITES/allied services. Kochi's master plan includes IT offices, retail and F&B, hotels, residential apartments, schools, colleges, hospitals, parks and open green spaces.

NAYA RAIPUR SMART CITY

State: Chhattisgarh

Website: www.smartcitieschallenge.in/city/raipur

Naya Raipur, a new city, at a distance of 20km from existing city of Raipur, is being developed as the state capital of Chhattisgarh. The government has planned to build it as 'Green City.' The authority is adopting systems for water harvesting, waste water recycling and use of non-conventional sources of energy and traffic management.

The plan comprises of 3 phases – Core Zone, Peripheral Region and Airport Zone. The development plan includes an area of 80.13km, which will house 500,000 inhabitants by 2031. The first phase completed in 2012 and the Secretariat shifted to this city. Tenders for 400 acres of land have been floated in 2015 for real estate developments.

DELHI-MUMBAI INDUSTRIAL CORRIDOR (DMIC)

State: New Delhi + Maharashtra

Website: www.dmicdc.com

DMIC is a mega infrastructure project with the financial and technical aids from Japan, covering an overall length of 1,483km between Delhi and Mumbai. There are plans to build seven smart cities along DMIC, by respective states. The first two smart cities have been identified as Dholera and Shendra-Bidkin.

- Dholera Special Investment Region (SIR) has initiated the tendering process and issued request for qualifications (RFQ's) for building trunk infrastructure.
- CH2M is teaming with Cisco to provide integrated urban planning and design, smart technology and program delivery services for Shendra-Bidkin. The central and state governments have signed a MoU concerning the development of Shendra-Bidkin industrial zone. The area is deemed to be ahead of schedule in completing major land deals. The state government has spent significant amount for land acquisition at Shendra-Bidkin. The first phase of both of the above mentioned projects are expected to be completed by 2019.

CHALLENGES

- Retrofitting existing legacy city infrastructure to make it smart
- Financing smart cities
- Availability of master plan or city development plan
- Providing clearances in a timely manner
- Capacity building programme
- Reliability of utility services
- Successful implementation of smart city solutions needs effective horizontal and vertical coordination between various Federal, State government and local government agencies (village or small town level) on various issues related to financing and sharing of best practices and service delivery processes.

POTENTIAL PARTNERS/COLLABORATORS FOR SMART CITIES IN INDIA

GOVERNMENT AGENCIES/ MINISTRIES

MINISTRY OF URBAN DEVELOPMENT

Address: Nirman Bhawan, room no. 122-C, Maulana Azad Road, New Delhi – 110011

Website: <http://indiansmartcities.in/>

Details: The Ministry of Urban Development have assigned a dedicated department for regulating and managing the overall development of 'Smart Cities' in India. The 100 Smart cities project declared by the Government of India falls under the jurisdiction of the ministry. The ministry is working with master developers (Private sector companies) for developing the several smart cities being implemented in India.

MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY (MMRDA)

Address: Bandra - Kurla Complex, Bandra East, Mumbai 400051

Website: www.mmrda.maharashtra.gov.in

Details: MMRDA is a government agency working for urban and infrastructure development for the Mumbai Metropolitan Region. MMRDA is responsible for the One BKC project in Mumbai and several other smart infrastructure initiatives dedicated towards metropolis of Mumbai.

CITY AND INDUSTRIAL DEVELOPMENT CORPORATION OF MAHARASHTRA (CIDCO)

Address: CIDCO Bhavan, 6th floor, Sion Panvel Road, CBD Belapur, Navi Mumbai – 400614

Website: www.cidco.maharashtra.gov.in

Details: CIDCO is a city planning organization created by the Government of Maharashtra. They are working on several smart cities projects with private companies. CIDCO has launched their own programme with a self-funding of INR 340 Bn for smart cities for Navi Mumbai (Navi Mumbai is the New Mumbai region adjacent to the Greater Mumbai region)

MUNICIPAL CORPORATION OF GREATER MUMBAI (MCGM)

Address: BMC Head Office, 4th Floor, Annex Bldg, Fort

Website: www.mcgm.gov.in

Details: Its the government body which looks after proper functioning and services of Mumbai and Greater Mumbai Region. They are also involved in projects related to urban infrastructure development and smart cities development and re-modelling.

NATIONAL INFORMATICS CENTRE (MAHARASHTRA STATE CENTRE)

Address: 11th Floor, New Administrative Building, Mantralaya, Madam Cama Road, Mumbai 400032

Website: www.maharashtra.nic.in

Details: National informatics Centre is the central ICT department, which works with the state government of Maharashtra. They are working with the state government for 'Digital India Programme'. Relevant for ICT companies interested in working with state government for projects and safe city projects.

MUMBAI METRO RAIL CORPORATION LTD (MMRCL)

Address: NaMTTRI Building, Plot No. R-13, 'E'- Block, Bandra Kurla Complex, Bandra (East), Mumbai 400051

Website: www.mmrcl.com

Details: MMRCL is responsible for metro projects within the Mumbai Metropolitan Region. They collaborate with other urban development agencies such as MMRDA, MCGM for metro rail development and infrastructure in and around Mumbai region.

MUMBAI TRANSFORMATION SUPPORT UNIT (MTSU)

Address: 3rd floor, 11/13, Botawala Building, Hornimon Circle, Fort Mumbai 400 023

Website: www.visionmumbai.org

Details: MTSU is an intermediary institution working with both MMRDA and MCGM and other infrastructure development agencies within Mumbai Metropolitan Region in order to do a feasibility of projects possible and the ones that should be implemented within the metropolis of Mumbai.

PUNE MUNICIPAL CORPORATION (PMC)

Address: PMC, Shivaji Nagar, Pune 411005

Website: www.punecorporation.org

Details: The PMC controls the whole administration, governance of Pune. The PMC is in charge of the civic needs and infrastructure of the metropolitan region of Pune.

PUNE METROPOLITAN REGIONAL DEVELOPMENT AGENCY (PMRDA)

Address: S.No 152-153 Maharaja Sayajirao Gaikwad Udyog Bhawan, Aundh, Pune 411007

Website: Under development

Details: PMRDA is responsible for urban development of Pune metropolitan region. Very similar to Mumbai Metropolitan Regional development agency (MMRDA). PMRDA is responsible for most of the upcoming urban infrastructure projects in and around Pune region. They will work with Pune Municipal Corporation (PMC) and Pimpri Chinchwad Municipal Corporation (PCMC) – the two major municipalities in Pune.

PIMPRI CHINCHWAD MUNICIPAL CORPORATION

Address: Mumbai-Pune Road, Pimpri, Pune 411018

Website: www.pcmcindia.gov.in

Details: Pimpri Chinchwad is an adjacent municipality to the metropolitan region of Pune. The PCMC is responsible for governance, administration and metropolitan development of Pimpri Chinchwad region.

SURAT MUNICIPAL CORPORATION (SMC)

Address: Muglisara, Main Road, Surat - 395003
Gujarat, India.

Website: www.suratmunicipal.gov.in

Details: Surat Municipal Corporation is a local self-government, which came into being under the provisions of the Bombay Provincial Municipal Act, 1949 carries out all the obligatory & discretionary functions prescribed thereunder. Maintenance, governance and development for the City of Surat. SMC will be working with federal government, state government of Gujarat and private sector companies for developing Surat as a smart city.

NAGPUR MUNICIPAL CORPORATION (NMC)

Address: Muglisara, Main Road, Surat - 395003
Gujarat, India.

Website: www.nmcnagpur.gov.in

Details: Nagpur Municipal Corporation is responsible for maintenance, governance and development for the City of Nagpur (second capital of Maharashtra). NMC will be working with federal government, state government of Maharashtra and

private sector companies for developing Nagpur as a smart city. France has also committed a huge sum of funding for smart development of Nagpur.

INDUSRTY ASSOCIATION/FEDERATIONS & INDUSTRY BODIES

SMART CITIES COUNCIL – INDIA

Address: A-303, Navabharat Estates, Zakaria Bunder Road, Sewri West, Near Railway Station, Mumbai 400015

Website: <http://smartcitiescouncil.com/tags/india-smart-cities>

Details: The Smart Cities Council is an advisor and market accelerator. They promote the move to smart, sustainable cities. They also contribute to their Partners' business success through advocacy and action.

MUMBAI FIRST

Address: Jolly Maker Chambers II, 47, Nariman Point, Mumbai 400021

Website: <http://www.mumbaifirst.org>

Details: Mumbai First's is a non-profit organisation functioning as think tank for the city, consisting of businesses and financial institutions. Mumbai First's role is researching, catalyzing, advocating and networking. 9 expert committees on Housing, Physical Infrastructure, Economic Growth, Governance, Health, Environment, Security and Smart Cities.

CONFEDERATION OF INDIAN INDUSTRIES (CII)

Address: The Mantosh Sondhi Centre, 23 Institutional Area, Lodhi Road, New Delhi - 110003

Website: www.cii.in

Details: CII National Mission on Smart Cities is a platform focused on smart cities, where private companies and government bodies both are part of the platform, which is a common platform for interaction and information transfer. CII National Mission on Smart Cities has signed several MoUs and has formed consortiums with private and government stakeholders.

FEDERATION OF INDIAN CHAMBERS OF COMMERCE AND INDUSTRY (FICCI)

Address: Federation House , Tansen Marg, New Delhi 110001

Website: www.ficci.com

Details: FICCI as an industry federation is actively working and focusing on Urban infrastructure and smart cities space. They are actively working on creating platforms for government and private players who are involved in smart cities projects.

MAHRATTA CHAMBER OF COMMERCE, INDUSTRIES AND AGRICULTURE (MCCIA)

Address: 505 and 506 A and B Wing, MCCIA Trade Tower, S. L. Kirloskar International Convention Centre Complex, Senapati Bapat Road, Pune 411 016 India

Website: www.mcciapune.com

Details: Mahratta Chamber of Commerce, Industries and Agriculture is an industry federation working with members and stakeholders of various sectors in and

around the region of Pune. They are involved in submitting an economic development report related to the urban developments of Pune to Pune Metropolitan Regional Development Agency. MCCIA is an important industry federation actively working and focusing on smart cities and development happening in and around that space.

GLOBAL RELATIONS FORUM

Address: Clover Centre, 121 B Wing, Camp, Pune 411001

Website: www.gr-forum.org

Details: Intermediary organization working with companies in the framework of infrastructure development both with countries in Europe and with industry stakeholders in India

PRIVATE COMPANIES (POTENTIAL MASTER SYSTEM INTEGRATORS)

ESSEL INFRA PROJECTS AND SMART UTILITIES

Address: 513/A, 5th floor, Kohinoor City, Kirol Road, L.B.S Marg, Kurla (W), Mumbai 400 070

Website: <http://esselinfraprojects.com>

Details: One of the fastest growing companies having diversified interests in infrastructure projects, Essel Infraprojects Ltd. Is a successful venture by the Essel Group with 3 SBUs & 6 business verticals comprising of order book value USD 3.3 billion i.e. close to INR 200 Bn and a National footprint in more than 11 states and across 50 cities. The group ventured in Infrastructure space in 2007 in Surface Transport Segment & today has presence in Transport (Roads), Power Transmission & Distribution, Urban Infrastructure, Environment (Municipal Solid Waste), Renewable Energy (Solar & Hydro), Integrated Utilities (Power, Water, Solid Waste Management & Cable & Broadband).

LARSEN & TOUBRO

Address: R&D House, ECC Division, 3rd floor, Gate No.1 , Powai Campus, Saki Vihar Rd, Mumbai 400072

Website: www.larsentoubro.com

Details: Larsen & Toubro, India's largest engineering and construction company, has formed a new unit to cater to smart cities, security solutions and communication projects, expecting the business to grow to \$1 billion in three to four years, driven by the government's push in these areas.

RELIANCE INFRASTRUCTURE LIMITED

Address: Reliance Energy Centre, Santacruz – East, Mumbai - 400055

Website: www.relianceada.com

Details: Reliance Infrastructure, a part of Reliance Group, is India's leading utility company having presence in across the value chain of power business i.e. Generation, Transmission, Distribution, EPC and Trading and the largest infrastructure company by developing projects in all high growth areas in infrastructure sector i.e. Roads, Highways, Metro Rails, Airports and Specialty

Real Estate. Also involved in the Mumbai Metro II Project covering 32kms and 27 stations. They are foraying into defense smart cities projects in India.

MAHINDRA SPECIAL SERVICES GROUP (MAHINDRA SSG)

Address: 5th floor, Times Square, Western Express Highway, Andheri (E), Mumbai, Maharashtra 400069

Website: <http://mahindrassg.com>

Details: Mahindra Special Services Group is a corporate security risk consulting firm that helps organizations reduce risk and enhance competitive advantage. With a core team comprising of ex-forces officers and domain experts, Mahindra SSG's risk mitigation advisories enable major corporate clients to secure their physical and information assets. They are one of private players working as a 'Master System Integrator' for smart and safe city projects within the Smart Cities Mission. They have already implemented Safe city project for Lucknow in Uttar Pradesh – India.

TATA PROJECTS

Address: 11th Floor, Hiranandani Knowledge Park, Powai, Mumbai - 400076

Website: www.tataproperties.com

Details: Tata Projects is one of the fastest growing and most admired infrastructure companies in India. It has expertise in executing large and complex industrial and urban infrastructure projects. The company operates through four strategic business units - Industrial Infrastructure, Urban Infrastructure, Quality services and Utility services. The Company provides turnkey end to end solutions to set up power generation plants, power transmission & distribution systems, fully integrated rail & metro systems, commercial buildings & airports, chemical process plants, water and waste water management solutions, complete mining and metal purification systems. They are also interested in the Smart Cities Mission by Government of India.

IL&FS SMART CITY INITIATIVE

Address: 301, Dev Arc, Nr. Fun Republic Junction, S.G. Highway, Ahmedabad 380015

Website: www.ilfsindia.com

Details: Networking giant Cisco has collaborated with Infrastructure Leasing & Financial Services (IL&FS) Technologies to jointly develop digital solutions to tap into the multi-billion dollar opportunity in the smart city space in India. The companies will jointly develop Internet of Everything (IoE)-based digital solutions to pursue opportunities in the infrastructure sector and smart cities in India. Infrastructure Leasing & Financial Services (IL&FS) and Gujarat International Finance Tec-City Company Ltd (GIFTCL) recently announced the signing of a memorandum of understanding (MoU) with Siemens Ltd to develop Smart Mobility Solutions for GIFT City. GIFTCL is a 50:50 joint venture of Gujarat Urban Development Company Ltd and infrastructure development company IL&FS. The MoU was signed by Hari Sankaran, Vice-Chairman and Managing Director, IL&FS, Ajay Pandey, Managing Director & Group CEO, GIFTCL, and Sunil Mathur, Managing Director and CEO, Siemens Ltd.

PRATIBHA INDUSTRIES

Address: Universal Majestic, 13th & 14th Floor, P. L. Lokhande Marg, Ghatkopar Mankhurd Link Road, Opp. RBK International School, Govandi, Mumbai - 400 043

Website: www.pratibhagroup.com

Details: Pratibha Industries is providing the society with quality infrastructure in its field of expertise, which currently include design, engineering and execution/construction of complex & integrated water transmission & distribution projects, water treatment plants, elevated and underground reservoirs, mass housing projects, commercial complexes, pre-cast design & construction, road construction and real estate.

HINDUSTAN CONSTRUCTION COMPANY (HCC)

Address: Hincon House, LBS Marg, Vikhroli West, Mumbai - 400083

Website: www.hccindia.com

Details: HCC Group delivers excellent engineering & construction services. They are pioneers in the Indian infrastructure industry. They have a project near Pune 'Lavasa'. Lavasa is a private, planned city being built near Pune. It is stylistically based on the Italian town Portofino, with a street and several buildings bearing the name of that town. A 25,000 acres (100 km²) or 8,000 acres (32 km²) project being developed by HCC. They are also interested in developing 'Smart Cities'.

TRACTEBEL ENGINEERING

Address: 2nd Floor, Building No. 10-C, DLF Cyber City, Gurgaon 122 002 (Haryana) – INDIA

Website: www.tractebel-engineering-gdfsuez.com/offices/asia/india

Details: Tractebel Engineering Pvt Ltd is the wholly owned Indian subsidiary of Tractebel Engineering. Since the company entered the Indian market in 2000, it has established itself as the preferred engineering consultant for Gas & Power projects, in both the Indian public and private sector. Tractebel Engineering (INDIA) was awarded ISO 9001-(2008), OHSAS 18001- (2007), ISO 14001 –(2004) certificates which testifies of its strong commitment to Excellence towards Quality, Health, Safety & Environment. Recently, it has fully acquired Cethar Consulting Engineers Limited, Chennai (today known as Tractebel Consulting Engineers Private Ltd (TCEPL). TCEPL specializes in Detailed Engineering services for Power and Infrastructure sector. Along with TERI (The Energy Research Institute-India) they are working on a detailed project report as a consultant empanelled by Government of India for the smart city plan of Dharamsala

MICROSOFT CORPORATION (INDIA)

Address: Level 10, Tower C, Epitome, Building No 5, DLF Cyber City, Phase 3, Gurgaon 122002

Website: www.microsoft.in

Details: Microsoft India is collaborating and identifying opportunities within the Smart Cities Mission for ICT and ITes sectors.

TRADE FAIRS / EVENTS

SMART CITIES INDIA 2016 EXPO

Website: www.smartcitiesindia.com

INDIA SMART CITIES - ROUNDTABLE SEMINAR

<http://www.etidynamics.com/events/latest-event/eti-dynamics-to-showcase-opportunities-on-its-smart-city-platform-in-an-event-in-new-delhi.html>

CII SMART CITIES ROUNDTABLE

<https://fs9.formsite.com/CIIITN/RTonSmartCities/index.html>

GOVERNMENT OF INDIA

<https://mygov.in>

SMART CITIES SUMMIT 2016

<http://www.asappconferences.com/smartcities/index.aspx>

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