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Sl. No.	Feature	Definition	Scenario 1 (BASE)	Scenario 2	Scenario 3	Scenario 4 (ADVANCED)	Self-assessment of the city (for Pan-City Solution) with regard to each feature	Basis for assessment and/or quantitative indicator (Optional - only if data exists)	Projection of 'where the city wants to be' with regard to the feature/indicator	Input/Initiative that would move the city from its current status to Advanced status (Scenario 4: Column G)
1	Citizen participation	A smart city constantly shapes and changes course of its strategies incorporating views of its citizen to bring maximum benefit for all. (Guideline 3.1.6)	The City begins identifies priorities and projects to pursue without consulting citizens.	City undertakes citizen participation with some select stakeholders. The findings are compiled and incorporated in some projects or programs. Very few major decisions are shared with citizens until final projects are unveiled.	City conducts citizen engagement at city level and local area level with most stakeholders and in most areas. The findings are compiled and incorporated in projects or programs.	City constantly conducts citizen engagement with people at each Ward level to incorporate their views, and these shape priorities and development projects in the city. Multiple means of communication and getting feedback such, both face-to-face and online are utilized. The effectiveness of city governance and service delivery is constantly enhanced on the basis of feedback from citizens.	Scenario 2	a) The Municipal board comprising elected members from each ward of the city, and the Municipal Commissioner reflects the voice of the citizens indirectly. b) Engagement through online tools- facebook, mygov etc c) Several NGOs contributed in spreading awareness d) Preparation of City level documents like City Development Plan, City Business Plan, City Sanitation Plan etc. reflects citizen engagement and incorporation of suggestions of key stakeholders. Source: BMC	Scenario 4 All policy level decisions to be presented on MyGov for public suggestions. Increasing the outreach of citizen engagement to more than 50% of city's population	a) Implementation of mobile governance and citizen engagement through mobile app and web portals. b) Increasing outreach on social media, government sites and official portals to seek inputs on all projects and schemes. c) City wide Wi-Fi hotspots for dissemination of information online d) Establishing MIS for collection, collation, validation and analysis of citizen inputs through various channels. e) Citizen awareness campaigns during implementation of Smart City Proposals. f) Ward Level Citizen facilitation centers will increase outreach of information dissemination.
2	Identity and culture	A Smart City has a unique identity, which distinguishes it from all other cities, based on some key aspect: its location or climate; its leading industry, its cultural heritage, its local culture or cuisine, or other factors. This identity allows an easy answer to the question "why in this city and not somewhere else?" A Smart City celebrates and promotes its unique identity and culture. (Guideline 3.1.7)	There are few architectural monuments, symbols, and festivals that emphasize the unique character of the city. Built, natural and cultural heritage is not preserved and utilized or enhanced through physical, management and policy structures.	Historic and cultural resources are preserved and utilized to some extent but limited resources exist to manage and maintain the immediate surroundings of the heritage monuments. New buildings and areas are created without much thought to how they reflect the identity and culture of the city.	Historic and cultural heritage resources are preserved and utilized and their surroundings are well-maintained. Public spaces, public buildings and amenities reflect the cultural identity of the city:-	Built, natural and intangible heritage are preserved and utilized as anchors of the city. Historical and cultural resources are enhanced through various mediums of expression. Public spaces, open spaces, amenities and public buildings reflect local identity and are widely used by the public through festivals, events and activities.	Scenario 1	a)The city has 3 heritage sites like Baba Maniram Temple, Badi Dargah and ASI site at Badi Pahari at Hill Top. All the three places attract around 1-1.5 Lacs tourist annually .But they are not preserved at their optimum level . b) Confluence of rich culture, presence of natural endowments like hills and riverfront coupled with favourable climate makes the city an potential tourist destination Source: BMC	Scenario 3 Foreign tourists & domestic tourists volume to be increased to more than 3,00,000 annually. Dedicated effort to restore natural and built assets to enhance tourism potential. Promotion and marketing of annual fair internationally.	a) Extensive level of Islamic heritage promotion in media, on line platforms, social media and other communications for branding Smart Biharsharif city. b) Develop mobile app and tourist information center for easy access to information. c) Promote specific cultural and tourism themes such as heritage walks, etc. Linking the city with buddhist circuit and as gateway to Nalanda World Heritage Site. d) Improving safety and security through smart street lighting.
3	Economy and employment	A smart city has a robust and resilient economic base and growth strategy that creates large-scale employment and increases opportunities for the majority of its citizens. (Guideline 2.6 & 3.1.7 & 6.2)	There are some job opportunities in the city but they do not reach all sections of the population. There are a high number of jobs in the informal sector without sufficient facilities.	There is a range of job opportunities in the city for many sections of the population. The city attempts to integrate informal economic activities with formal parts of the city and its economy.	There are adequate job opportunities for all sections of society. But skill availability among residents can sometimes be a challenge.	There are adequate opportunities for jobs for all sections of income groups and skill levels. Job-oriented skill training supported by the city and by industry. Economic activities are suited to and build on locational and other advantages of the city.	Scenario 2	a)Main working population of Biharsharif is 28%. 70% of workers engaged in tertiary sector, 16% of workers are engaged in secondary sector and 14% of workers are engaged in agricultural and allied activities. b) In state of Bihar, city is major trade & investment hub boasting of 8% of urban GDP , 14% of trade, 6% of agricultural output of Bihar state. Source: Census 2011, City Business Plan	Scenario 4 Increase of contribution to 12% of state's urban GDP, 20% of trade and 10% agricultural output of Bihar state. Generate over 1,00,000 jobs (directly & indirectly) from new business and trading markets. Creation of jobs in agro-based industry to reach 1,00,000.	a) Ease of registration of new industries, plants, businesses, etc. Develop new training institutes, incubation centres in coordination with major industries. b) Infrastructure upgradation of central business district, redevelopment of bazaar samiti and ramchanderpur industrial area c) Improved mobility and transportation network to enhance economic activities. d) Leverage State and Central Government's policy to encourage entrepreneurs to set up industries for agriculture.
4	Education	A Smart City offers schooling and educational opportunities for all children in the city (Guideline 2.5.10)	The city provides very limited educational facilities for its residents. There are some schools but very limited compared to the demand. Many schools are in poor condition.	City provides adequate primary education facilities within easily reachable distance of 15 minutes walking for most residential areas of the city. The city also provides some secondary education facilities.	City provides adequate primary and secondary education facilities within easily reachable distance for most residential areas of the city. Education facilities are regularly assessed through - databases of schools including number of students, attendance, teacher - student ratio, facilities available and other factors.	City provides adequate and high-quality education facilities within easily reachable distance of 10 minutes walking for all the residential areas of the city and provides multiple options of connecting with specialized teaching and multi media enabled education. Education facilities are regularly assessed through database of schools including number of students, attendance, teacher-student ratio, facilities available and other factors.	Scenario 2	167 Primary schools 69 Primary with upper primary 20 Upper primary with secondary and higher secondary *High drop out ratio primarily among girl students due to absence of basic amenities such as toilets and drinking water *Teacher student ratio is as low as 1:60 Source: Educational Management Information System (EMIS), Bihar Education Project Council	Scenario 4 *Reduce drop out ratio to less than 1% *Teacher Student Ratio to be improved to 1: 30	a) Developing Skill Training Institute by providing all infrastructural support and adding professional courses in educational activities and smart industry specific skill development programmes. b) IT enabled distance learning. c) Provide basic amenities of water supply and toilets in 100% schools d) Capacity building initiatives in Govt.schools and colleges to help improve Learning Level Outcomes (LLOs)and academic levels

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5	Health	A Smart City provides access to healthcare for all its citizens. (Guideline 2.5.10)	Healthcare is difficult for citizens to access - demand for healthcare often exceeds hospitals' ability to meet citizen needs.	The city provides some access to healthcare for its residents but healthcare facilities are overburdened and far from many residents. Access to preventive health care is only easily available for some residents.	City provides adequate health facilities within easily reachable distance for all the residential areas and job centres of the city. It has an emergency response system that connects with ambulance services.	City provides adequate health facilities at easily accessible distance and individual health monitoring systems for elderly and vulnerable citizens which are directly connected to hospitals to prevent emergency health risks and to acquire specialized health advice with maximum convenience. The city is able to foresee likely potential diseases and develop response systems and preventive care.	Scenario 2	a) District Hospital and 4 Primary health center in the city. There is congregation of private hospitals but they do not provide speciality care. b) Doctor: Patient ratio is as low as 70:1 Lakh patients. Source: City Development Plan 2011	Scenario 3 Doctor patient ratio to be improved to 200: 1 lac patients. Improve hospital bed to patient ratio to 1:800. Use of ICT to enable doctor and patient management system.	a) Greater emphasis on increased use of technology , strong civil society and NGO network to strengthen the healthcare in city b) BMC and NGO to educate city population on basic hygiene specially in slum areas c) Special marketing efforts to bring forward world class multispeciality healthcare companies in city d) Implementation of Health care system including E-Health and digitization of records. Integration of ambulance services and bed availability across public and private sector hospitals. e) Linkage with private and BMC hospitals on bed availability to manage epidemics, and diseases occurrences better.
6	Mixed use	A Smart City has different kinds of land uses in the same places; such as offices, housing, and shops, clustered together. (Guidelines 3.1.2 and 3.1.2)	The city has mostly separated uses and areas are focused either on residential, commercial, or industrial, with little co-existence of uses. The average resident cannot walk to the closest market or shops near his or her home. For almost everyone, going to work or going shopping for basic needs requires a journey by automobile or bus of more than 15 minutes. Land use regulations prevent putting commercial or office locations in residential neighbourhoods and vice versa.	In some parts of the city , there is a mixture of land uses that would allow someone to live, work, and shop in close proximity. However, in most areas, there are only small retail stores with basic supplies near housing. Most residents must drive or use public transportation to access a shop for food and basic daily needs. Land use regulations prevent segregating housing, retail, and office uses, but exceptions are made when requested.	Most parts of the city have housing, retail, and office buildings in close proximity. Some neighbourhoods have light industrial uses within them (e.g., auto repair, craft production). Land use rules allow for mixed uses.	Every part of the city has a mix of uses. Everyone lives within a 15-minute trip of office buildings, markets and shops, and even some industrial uses. Land use rules support segregating developers to incorporate a mixture of uses in their projects.	Scenario 2	The inner-city reflects a mixed land use pattern with a congregation of residential, and commercial, in a single locality. The open spaces are vacant and very often inaccessible. Several slums have come up in the recent past and based on rough estimate about 6.1% of city's population resides in slums. Source: City Development Plan 2011	Scenario 4 Steer existing Mixed Use Development in a planned growth	a) Organising the existing mixed land-use based growth. b) Vast stretch of river and lake front to be converted in worldclass recreational hub c) Parks and vegetable market to be developed in vacant spaces d) Achieve increased density with land monetization plan of the city. e) Promotion of new large scale planned and compact development with good NMT and PT infrastructure. f) Incentivizing developers for mixed use of land. The city will enforce proper bye laws for regulating mix of land use based on accessibility. g) Promoting development of commercial buildings with space for underground parking.
7	Compact	A Smart City encourages development to be compact and dense, where buildings are located close to one another and are ideally within a 10-minute walk of public transportation, forming concentrated neighbourhoods. (Guidelines 2.3 and 5.2)	The city is expanding rapidly at its periphery into undeveloped land, rural or natural areas, or along industrial corridors - both formally and informally. Formal new development is occurring in a way that is "sprawling," meaning that the buildings spread across a wide area and are far from one another. Residents or tenants find it easier or safer to travel by automobile because it takes a long time to walk between destinations and there are busy roads separating buildings. Large pockets of land in the inner-city are vacant. New developments at the periphery tend to be large-scale residential developments, often enclosed with a gate and oriented to the automobile	The city has one or two high density areas - such as the city centre, or historic areas, where buildings are concentrated together and where people can walk easily from building to building and feel as though they are in centre of activity. Most of the city consists of areas where buildings are spread out and difficult to walk between, sometimes with low-density per hectare. Regulations tend to favour buildings that are separated from one another, with lots of parking at the base and set-back from the streets. The city likely has some pockets of under-utilized land in the center. New formal developments at the periphery tend to be large-scale residential developments, often enclosed with a gate and oriented to the automobile	The city has multiple high density clusters that are easy to walk around where buildings are close together. However, the city actively encourages development to occur on under-utilized parcels of land into high-density, walkable areas. When new formal large-scale development projects happen at the periphery, they are encouraged to be dense and compact, with buildings that are close together and line the streets. The city actively encourages or incentivizes re-development of under-utilized parcels in the inner-city, especially those located close to public transportation.	The city is highly compact and dense, making the most of land within the city. Buildings are clustered together, forming walkable and inviting activity centers and neighbourhoods. Regulations encourage or incentivize re-development of under-utilized land parcels in the city center. Buildings are oriented to the street --- and parking is kept to a minimum, located below ground or at the back of buildings. Public transport and walking connects residences to most jobs and amenities. Residential density is at an optimal with affordable housing available in most areas.	Scenario 2	a) The development has taken place along the east west axis. The areas beyond the Panchane River along the western side of the City have seen growth. The existing land use analyzed in 2007 shows 46.3% residential, 45.8% agriculture and water bodies and 7.9% other land uses. b) Population density is 110 persons /Ha which is projected to be 130 persons/Ha by 2027. Source: City Development Plan 2011	Scenario 4 Development of pedestrian pathways so that 60% of the city to be reachable within 10 minutes of walking distance. While revitalizing the inner city city also needs to control the urban sprawl to avoid pushing agro hinterland further away. Linkages between open spaces, recreational area, commercial and residential areas.	a) Development of Biharsharif Central Business Area along NH110 as spine. b) Local area (ABD) envisioned to be a compact development with presence of work place, recreational zones, educational and healthcare facilities in close vicinity c) Incentivize redevelopment to create new commercial/ recreational areas in the core of city. d) Integration with natural assets like pokhars and Panchane river to create new public spaces. d) Promoting transit oriented development (TOD) along major roads supported by seamless mobility infrastructure.

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8	Public open spaces	A Smart City has sufficient and usable public open spaces, many of which are green, that promote exercise and outdoor recreation for all age groups. Public open spaces of a range of sizes are dispersed throughout the City so all citizens can have access. (Guidelines 3.1.4 & 6.2)	The city has very few usable public open spaces and very few usable green spaces. Available recreational spaces are located far away and are dispersed at long distances around the city. The few available public open spaces offer a limited variety of experiences for all sections of population and age groups such as places for sport, places for rest, and places for play.	A variety of public open spaces are available in some neighbourhoods, but are not available in all the areas of the city or are located far away from residential areas. Many of the open spaces have access restrictions, or are not well-maintained. A variety of types of public open spaces may be lacking, such as natural areas, green areas, parks, plazas, or recreation areas.	Most areas of the city have some sort of public open space. There is some variety in the types of public spaces in the city. However, public spaces are sometimes not within easy reach or access of more vulnerable populations and are more restricted in poorer neighbourhoods.	Public open spaces are well dispersed throughout the city. Every residential area and work space has access to open space within 10 minutes walking distance. Open spaces are of various types - natural, green, plazas, parks, or recreation areas - which serve various sections of people. Public spaces tend to truly reflect the natural and cultural identity of the city.	Scenario 1	The open space / green spaces are not as per the URDPFI guidelines. There are 3 neighbourhood parks, 1 city park. Source: City Development Plan 2011	Scenario 4 Proposed recreation and open spaces should be of high quality in terms of facilities, layout and design which meet the needs of aspirations of users.	a) Develop and increase the accessible open space to 15% (international benchmark) b) Convert all the inaccessible open space into gardens & park c) Creating accessible and worldclass lakefront and lake recreational areas d) Use open spaces for cultural events, children's play area, jogging & walking tracks. e) Enhance innovative usage of open spaces. f) Increase the number of neighbourhood parks to 20 and city parks to 4. g) Anti-encroachment drives on public open spaces.
9	Housing and inclusiveness	A Smart City has sufficient housing for all income groups and promotes integration among social groups. (Guidelines 3.1.2)	Housing is very limited and highly segregated across income levels. Population growth far exceeds the creation of new housing. The poor live in informal settlements with limited to no access to basic services, and are concentrated in a few areas. The wealthy live in separate enclaves. Those in the middle have few, if any options.	Housing is available at most income levels but is highly segregated across income levels. Population growth slightly exceeds the creation of new housing. The wealthy and the middle class have housing that meets their needs at costs appropriate to their income. The poor live in informal settlements.	Housing is available at all income levels, but is segregated across income levels. The growth of supply of housing almost meets the rate of population growth. Increasingly, lower and middle-income people can find housing in areas that are conveniently located.	A wide range of a housing is available at all cost levels. The supply of housing is growing at pace with population. Affordable, moderate, and luxury housing are found clustered together in many areas of the city	Scenario 2	Several slums have come up in the recent past and based on rough estimate about 6.1% of city's population resides in slums. Currently there are 33 notified slums. Source: BMC and City Development Plan	Scenario 4	Mission is to make city slum free by 2025. a) Swifter rehabilitation of slum by construction of affordable houses b) BMC to push rehabilitation on land owned by corporation c) Leverage strong citizen participation to build trust between slum dwellers and builders d) Leverage all the GOI and GOB housing schemes to make city slum free and provide all the basic amenities e) Integrated residential development with EWS and LIG housing. f) Incentivize developers to build affordable homes via high FSI. g) Provide soft loans to make ownership accessible for weaker sections
10	Transport	A Smart City does not require an automobile to get around; distances are short, buildings are accessible from the sidewalk, and transit options are plentiful and attractive to people of all income levels. (Guidelines 3.1.5 & 6.2)	Personal automobile centric city with very few modal options. Long trip lengths for daily commute to work and education. Accessing various areas by walking or cycling is difficult. Women and vulnerable sections find it very difficult to move independently in the city. There is limited public transport. Vehicles cause high air and noise pollution levels in the city. Vehicles dominate public spaces and affect their effective functioning.	The street network system is elaborate but public transport choices are restricted. Public transport can be too expensive or unaffordable for the poor. Pedestrian infrastructure is only available in select areas. The majority of investments focus on reducing traffic congestion through the creation of more roads.	Network of streets are fairly complete. Public transport covers most areas of the city. However last mile connectivity remains incomplete -and affects transport options: Foot paths are accessible in most areas, whereas-concerns of safe crossings and security throughout the day remain. Parking zones are demarcated but absence of pricing increases over utilization of parking lots.	Street network is complete and follows a clear structure. Public transportation network covers the entire city and intensity of connection relates with the demand. Plenty of options of public transport are available and affordable for all sections of the society. There is multi-modal integration at all mass transit stations and organized-priced on street and off street parking. Walking and cycling is prevalent.	Scenario 1	At present the city, doesn't have any regularized urban transport in place resulting in predominant dependency on private vehicles. Inadequate parking leads to on- street parking affecting the travel. 200 Kms of road network in need of infrastructure improvement. 1500 auto rickshaws, 55 E-Rickshaws and 450 taxis are serving as main public transport for the city. Traffic signaling is not present. Road junctions need geometry improvements. Source: City development plan 2011, RTO, BMC	Scenario 3 Reduction of travel times by de-congestion of traffic. Enhance use of public transport with improvements in infrastructure. Use of 100% Adaptive traffic lights. Increase of road network by 100% walong with NMT infrastructure. Increase parking facilities with added smart solutions.	Mission is to massively increase the public transport share a) ABD area will see an increase of public transport share by 60% through the introduction of e-rickshaw and NMT corridor b) Build missing road links. Develop major road network. Strengthening /up gradation of footpaths and junctions. c) Up-gradation of railway station, bus stand, auto/taxi stand d) Intelligent traffic management system. e) Preparation of street design guidelines for NMV and pedestrian facilities. f) Promotion of e-rickshaw as major mode of public transport g) App to provide public transport information

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11	Walkable	A Smart City's roads are designed equally for pedestrians, cyclists and vehicles; and road safety and sidewalks are paramount to street design. Traffic signals are sufficient and traffic rules are enforced. Shops, restaurants, building entrances and trees line the sidewalk to encourage walking and there is ample lighting so the pedestrian feels safe day and night. (Guidelines 3.1.3 & 6.2)	The city is designed mainly for the automobile. Daily life without a car requires long bus rides. Walking is difficult and often dangerous; there are few pavements, existing pavements need repair and lack trees to provide shade for pedestrians, and marked pedestrian crossings are rare. New buildings have their main entrances set-back from the street, sometimes with large driveways or parking lots separating them from the street, and sometimes are enclosed by gates.	Older areas of the city see a mix of pedestrians, cyclists, and vehicles but newer areas are focused mainly on the automobile. In the new areas, there are few pavements and main entrances to new buildings are not accessible from the front of the street. large driveways or parking lots often separating them from the street, and sometimes are enclosed by gates. In these areas, traffic signals are disobeyed.	The city has a good network of pavements and bike lanes. Buildings in most areas of the city are easily accessible from the pavement. However, traffic signals are sometimes disobeyed and it can feel difficult to cross the street.	The city is highly walkable. Pavements exist on every street and are maintained. Trees line many sidewalks to provide shade for pedestrians. Buildings in most areas of the city are easily accessible from the sidewalk. Traffic signals control the flow of automobiles and are enforced. A network of bike lanes exists to promote cycling as a means of transport. Traffic rules are followed and enforced with great seriousness.	Scenario 2	a) Discussions with city administration, citizens feedback, site study and analysis that the city has minimal pedestrian walkways. b) Length of pathways for cycling: Nil. Length of pedestrian pathways: 2 km. Non-vehicle streets: Nil. c) Improperly designed intersections with no signalized pedestrian crossing are major concern Source: Biharsharif Municipal Corporation, City Development Plan 2011	Scenario 3 The inner city needs to be come pedestrian friendly with proper tree lined pavements. Length of pathways for cycling: 20 kms. Length of pedestrian pathways: 130 kms. Parking is organised and traffic rules are followed. Anti-encroachment drives to widen the roads for pathways. Non-vehicle zones: 2	a) Creation and redesigning of feeder and main roads with proper demarcated pedestrian and cyclist zones b) Educate and encourage pollution free mode of transportation c) Pedestrian stop lights across designated junctions to ensure safety d) Building encroachment free paths for cyclists. e) Strengthening existing roads/pathways and providing pedestrian facilities at major intersections. f) Street vendors plan and organised informal sector. g) Development of network of green spaces.
12	IT connectivity	A Smart City has a robust internet network allowing high-speed connections to all offices and dwellings as desired. (Guideline 6.2)	City has no major plans to bring increased high speed internet connectivity to the public.	The city has made plans to provide high speed internet connectivity through the existing framework.	The city makes has high speed internet connectivity available in most parts of the city.	The city offers free wifi services to provide opportunity for all the citizens to connect with high speed internet across the city.	Scenario 1	The city has many private telecomm service providers with 96 towers in place. Government offices have poor to moderate IT connectivity. Free Wi-Fi is provided only in Subash Park. Site analysis and discussion with local residents reveals that Biharsharif has low IT connectivity Source: Biharsharif Municipal Corporation	Scenario 4 Robust IT connectivity around business centers for smarter, faster communication. 100% Wi-Fi connectivity. Covering a larger part of the city facilitating telecom companies to offer robust IT connectivity.	a) Seamless wi-fi connectivity throughout the city with 10,000+ smart poles with WiFi hotspot connections with 10Mbps speed b) High speed optical fibre line across area for best connectivity c) Access point at strategic points to avoid travelling and avoid congestion d) Robust integration of systems for controlling and monitoring. e) Facilitating telecom companies to provide robust and cheaper IT connectivity
13	ICT-enabled government services	A Smart City enables easy interaction (including through online and telephone services) with its citizens, eliminating delays and frustrations in interactions with government. (Guidelines 2.4.7 & 3.1.6 & 5.1.4 & 6.2)	Essential Government services are not linked with online platforms. Paper intensive interactions with the local Government continues. Receiving services and response to citizen complaints take a long time. There is limited availability of data to monitor service delivery.	Some of the public services are provided online and infrastructure for total digitalization is not in place. Service delays occur regularly in some sectors. Responses to citizen inquiries or complaints are often delayed. No integration between services and billing.	Most of the services are provided online and offline. Data transparency helps monitoring. System and processes to better coordinate between various Government agencies are being developed.	All major services are provided through online and offline platforms. Citizens and officials can access information on accounting and monitor status of projects and programs through data available on online system. Robust data infrastructure system shares information and enhances internal governmental coordination.	Scenario 2	a) Some of the services are ICT based like property tax, Birth and Death Registration, Building Plan Approval, RTI through e-municipality platform b) Online Centralised Grievance Redressal Cell is operational c) Monitoring of CCTV camers (20 nos) through centralised control room. Source: Biharsharif Municipal Corporation	Scenario 4 Mobile usage to increase up to 50%. Establishing public Wi-Fi zones with free government facilities like online consumer complaint & grievance redressal. 100% documents available online. To provide online payment facilities for all major government services.	a) Leverage ICT solutions like integrated data across utilities, Geo enabled city operations for activities such as land management, tax assessment, etc. to set up integrated command and control center (ICCC) which acts as an E-municipality across all functions in the ABD area b) ABD online portal with multiple activities across all departments with citizen desk for physical verification, etc c) Introduction of Mobile led citizen services. Citizen complaints and grievance redressal module to ensure complaint resolution in under 24 hrs. d) Common Citizen Services Centers (Jan Seva Kendras). e) Digitalization of all its municipal services linked with Municipal corporations web portal/Mobile application.
14	Energy supply	A Smart City has reliable, 24/7 electricity supply with no delays in requested hook-ups. (Guideline 2.4)	There is only intermittent electricity supply with regular power shedding. Many residents have to plan their days around when power is available.	Electricity supply and loads are managed as per demand and priority for various functions with clear scheduling, with electricity being available in many areas for most hours of the day.	Electricity is available in most parts of the city for most hours of the day but some areas are not so well-served. Smart metering exists in some parts of the city but not all.	Electricity is available 24 x 7 in all parts of the city with smart metering linked to online platforms for monitoring and transparency.	Scenario 2	a) Discussions with the citizens and analysis city profile ofshows that good improvement in energy supply has taken place. b) There is no official load shedding schedule as supply meets demands Source: Biharsharif Municipal Corporation	Scenario 4 Smart metering and efficient transmission of power. Power thefts and distribution losses to reduce to less than 15%.	a) Implementation of smart grid in the ABD area for 100% power supply and massive reduction in AT&D losses b) Roll out smart metering and grid, with 100% households connected to the grid in due course
15	Energy source	A Smart City has at least 10% of its electricity generated by renewable. (Guideline 6.2)	The city does not have any renewable sources of energy and there is no commitment to promote this for the foreseeable future.	The city is preparing plans for ensuring that it gets more energy from renewable sources and is in the process of making commitments in this regard.	Some energy consumed is the city is produced through renewable sources. There are long term targets for higher renewable energy capacities and the city is making plans to achieve these.	At least 10% of the energy used in the city is generated through renewable sources. The city is undertaking long-term strategic projects to tap renewable sources of energy in its region/beyond to increase the percentage of renewable energy sources.	Scenario 1	Presently no scheme in pipeline to improve the energy source. Energy from renewable sources: less than 2% Source: Biharsharif Municipal Corporation	Scenario 3 Use of solar energy and biogas for generating more than 10% of total electricity supply. Encourage use of renewable energy sources like bio-fuel, wind energy.	a) Establishment of biomass based renewable energy plant in bazaar samiti area b) Covering the roof tops of all Government buildings with solar panels to be replicated across city c) Encourage households to adopt solar energy model with zero investments.

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16	Water supply	A Smart City has a reliable, 24/7 supply of water that meets national and global health standards. (Guidelines 2.4 & 6.2)	The city has a poor water supply system with limited water availability. There are no clear targets to achieve higher quality and optimal quantity standards. Unaccounted water loss is above 40%	The city has intermittent water supply and availability. However it is setting targets and processes in place to try to improve its water supply. Unaccounted water loss is less than 30%.	The city has 24 x 7 water supply in most areas but the quality of water does not meet international health standards. Unaccounted water loss is less than 20%.	The city has 24 x 7 treated water supply which follows national and global standards and also available in sufficient quantity and affordable across all sections of the society. Unaccounted loss less than 15%.	Scenario 2	a) 100% of the potable water demand is met from underground water source, and the balance from other sources. 34 tube wells having total yield of 60 MLD. b) Current per capita water supply is 105.4 litres. The water is supplied 8-10 hours/day. c) UFW: 35% Source: City development plan 2011	Scenario 4 24x7 supply of potable water in all parts of the city. 100% smart metered connections. Reduce NRW losses to less than 15%	a) Installing an Integrated system of 24x7 water supply services to augment water supply from present supply rate of 105.4 LPCD to 135 LPCD with less than 15% NRW losses along with smart metering and integrate with a central control center for better monitoring of servicing b) Set up of a leak detection system. Conduct water audits c) Energy efficient motoes in water pumping stations.
17	Water management	A Smart City has advanced water management programs, including smart meters, rain water harvesting, and green infrastructure to manage storm water runoff. (Guideline 6.2)	The city does not measure all its supply. It does not recycle waste water to meet its requirements and rain water harvesting is not prevalent. Flooding often occurs due to storm water run-off.	The city has meters for all its water supply but lacks mechanisms to monitor. Water wastage is very high. Some, but not much, rainwater harvesting exists.	The has meters for all its water supply with some smart mechanisms to monitor. Rainwater harvesting systems are installed and storm water is collected and stored in water bodies. However, recycling of waste water and reusage of storm water is limited.	The city has meters for all its water supply. It includes smart mechanisms to monitor remotely. Rainwater harvesting systems are installed and utilized through the city and storm water is collected and stored in water bodies and treated for usage. Recycled waste water is supplied for secondary uses.	Scenario 1	Presently there is no system to measure the water consumption. Metered water connections: Nil. City has 150kms. of drainage network with 82% of open drains. Source: Biharsharif Municipal Corporation	Scenario 4 100% smart metered connections. SCADA system to be implemented. Rain water harvesting system to be installed in all government buildings and public places. 100% closed drainage network. Zero discharge of sewage in drains. Regular cleaning and maintenance of drains.	a)100% smart metering across all commercial & domestic establishments in the ABD area b)Consumption based tariff to curb excess consumption and wastage c)Ensure 100% of household and commercial establishments have rain water harvesting pits d) Create society levels 'sumps' in which rain water is collected and then used for gardens, car washing etc. across all households e) Byelaws have been amended in April 2006 to incorporate rain water harvesting. f) Implementation of SCADA system.
18	Wastewater management	A Smart City treats all of its sewage to prevent the polluting of water bodies and aquifers. (Guideline 2.4)	The city is unable to treat all its sewage. Many local sewer lines open on to water bodies and open ground and pollute the environment.	Most waste water is collected and treated before disposal. However the treated water does not meet standards and is not recycled for secondary uses.	All the waste water is collected and treated before disposal. It is also treated to a high standard and some is recycled.	The city has zero waste water because all the waste water is collected, treated and recycled. It meets standards an reduces the need for fresh water.	Scenario 1	The city of Biharsharif does not have underground sewerage system. Source: City development plan 2011	Scenario 3 100% treatment of waste water for secondary and tertiary usage. 100% efficiency is collection of sewage.	a)Setting of underground sewerage system with 100% coverage and treatment facility b) Start by recycling 21.85 MLD sewage generated in ABD every day c) STP with SBR technology to be developed.
19	Air quality	A Smart City has air quality that always meets international safety standards. (Guideline 2.4.8)	City does not have plans, policies or programs to improve the air quality. Systems to monitor air quality are absent.	City has programs and projects to monitor air quality and spatializing the data to ascertain reasons for degrees of pollution in the air. A few strategies to decrease air pollution have been implemented.	City has programs and projects to monitor air quality and spatializing the data to ascertain reasons for degrees of pollution in the air. Pollution levels are acceptable.	The city has clean air by international standards. Live Air quality monitoring cover the entire city and data of air quality are mapped.	Scenario 1	Air Quality Index: Moderate at 150 compared to 41 of Jaipur. Due to the rapid growth of the city and increasing number of vehicles the air quality is getting affected. Source: City development plan 2011	Scenario 4 Ambient Air Quality (AAQs) monitoring centers. Air quality index to be brought to the scale of 51-100	a)Multipronged strategy to beef up public transportation, facilitate NMT through redesign and augmentation of footpaths and cycle tracks and new philosophy of development maximixing open area b)Creation and redesigning of footpaths and cycle track to be created in the ABD area, supplemented by e-rickshaws and walk to work concept c) Set up of over 15 AAQ monitoring centers.
20	Energy efficiency	A Smart City government uses state-of-the-art energy efficiency practices in buildings, street lights, and transit systems. (Guideline 6.2)	City has no programs or controls or incentive mechanisms to promote or support energy efficiency in buildings	The city promotes energy efficiency and some new buildings install energy efficiency systems that track and monitor energy use and savings.	Most new public buildings install energy efficiency systems and some older buildings are also retrofitted to be more energy efficient. Local government conducts counselling and outreach with developer, businesses and residents to adopt energy efficiency strategies	All the existing old and new public buildings employ energy efficiency principles in development and operation and apply for energy rating by national and international forums. Many non-public buildings are also energy efficient because the government promotes energy efficiency through incentives and regulations.	Scenario 1	a) BMC has installed 2300 LED street lights for energy efficiency and safety of citizens in dark zones. b) Energy efficient buildings: Nil. Roof top solar panels in few government buildings (6nos.). Source : BMC	Scenario 3 95% LED lights to bring 80% savings in energy across the city. All new public buildings to install energy efficiency systems. 50% of existing public buildings to be retrofitted to be more energy efficient. Smart street lighting	a) City wide smart street lighting with LEDs and other smart sensors b) Use of solar panels to support the traffic lights and street lights c) All bus stops electrical fittings to be run on solar panels d) Incentivize green approvals for buildings. Local government to conduct counselling and outreach with developers, businesses and residents to adopt energy efficiency strategies. e) Introduce solar energy policy and power conservation policy. Conduct energy audits with response system.

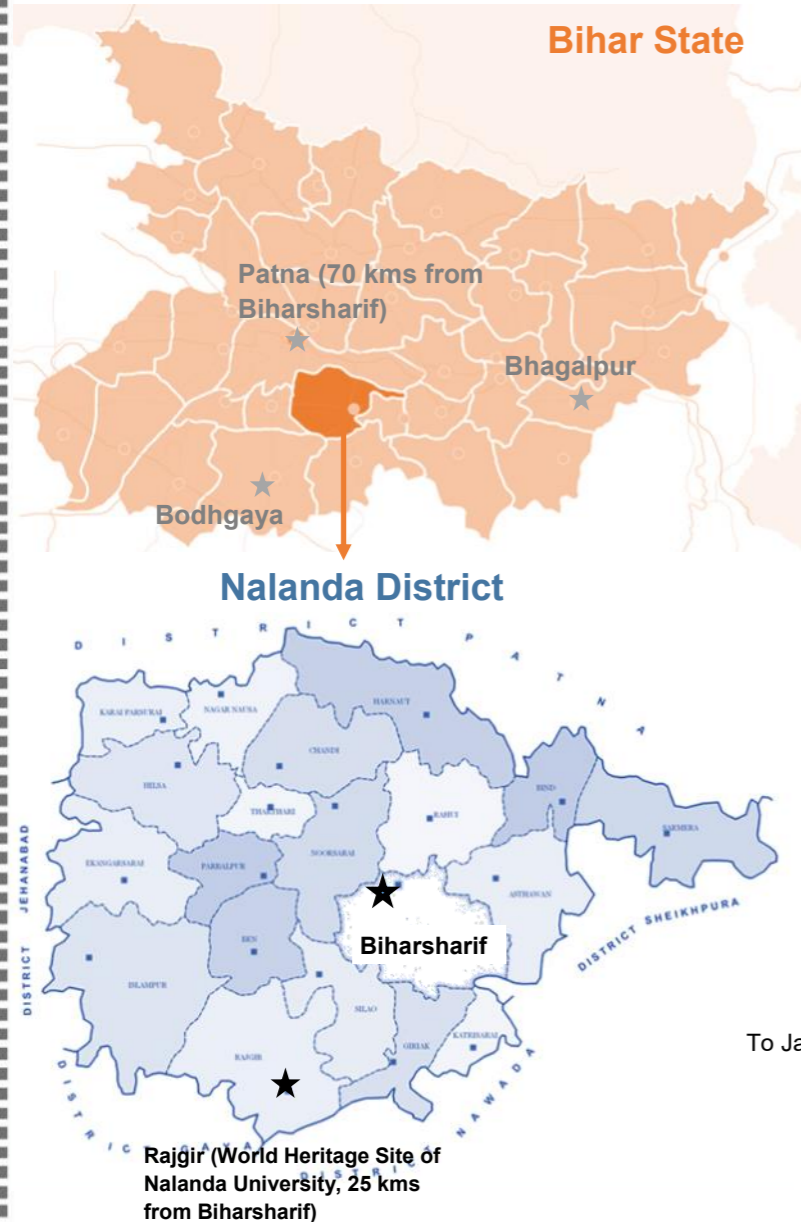
A	B	C	D	E	F	G	H	I	J	K
Sl. No.	Feature	Definition	Scenario 1 (BASE)	Scenario 2	Scenario 3	Scenario 4 (ADVANCED)	Self-assessment of the city (for Pan-City Solution) with regard to each feature	Basis for assessment and/or quantitative indicator (Optional - only if data exists)	Projection of 'where the city wants to be' with regard to the feature/indicator	Input/Initiative that would move the city from its current status to Advanced status (Scenario 4: Column G)
21	Underground electric wiring	A Smart City has an underground electric wiring system to reduce blackouts due to storms and eliminate unsightliness. (Guideline 6.2)	City does not have plans for underground electric wiring system.	More than 40% of the city has underground electric wiring system.	More than 75% of the city has underground electric wiring system.	More than 90% of the city has underground electric wiring system.	Scenario 1	The city does not have underground cabling Source: Executive Engineer, Power supply	Scenario 3 75% underground wiring. Power thefts and distribution losses to reduce to less than 10%. All street light wiring to be underground by 2020.	a) Underground electric wiring fund received under IPDS b) UG multi utility duct of 20 kms c) Educate and encourage citizens to adopt to underground cabling for household connections from source
22	Sanitation	A Smart City has no open defecation, and a full supply of toilets based on the population. (Guidelines 2.4.3 & 6.2)	Many parts of the city do not have access to sanitation infrastructure and facilities.	Sanitation facilities are available to 70% of the city's population.	Sanitation facilities are available to 90% of the city's population.	Sanitation facilities are available to 100% of the city's population.	Scenario 3	All 46 wards of the city have been declared ODF in march 2017 . Total 5538 individual toilets , 16 Community toilets and 10 Public toilets have been constructed so far . 81% of house have individual toilets. Construction of individual toilets (150nos.) in 24 slums. Source: BMC	Scenario 4 ODF city with 50 public toilets. Sewer lines connected to 100% of the HHs including 100% slum areas. Construction of HH toilets under SBM to bridge the gap.	a) 100% coverage of house hold toilets. b) Set up of secondary and tertiary treatment of 90% sewerage. 100% of coverage of sewer lines. SMS based grievance redressal for slum pockets. Promote bio-toilets. c) Citizens are educated to bring about behavioural change
23	Waste management	A Smart City has a waste management system that removes household and commercial garbage, and disposes of it in an environmentally and economically sound manner. (Guidelines 2.4.3 & 6.2)	Waste collection systems do not pick up waste on a frequent basis and waste often enters into water bodies.	Waste generated is usually collected but not segregated. Recycling is attempted but difficult to implement.	Waste is segregated, collected, recycled and disposed in an environmentally sound manner.	The city reduces land fill caused by waste so that it is minimal. All the solid waste generated is segregated at source and sent for recycling. Organic waste is sent for composting to be used for gardening in the city. Energy creation through waste is considered.	Scenario 2	a) Door to Door waste collection is done in all 46 wards . b) No segregation of waste is done at source. c) No processing of waste d) Garbage vans and other equipment Source: BMC	Scenario 4 Zero dumping of garbage on roads and open spaces. 100% door-to-door collection and segregation of waste.	a) Implementation of 100% door-to-door collection and waste segregation. Segregation of wet/dry waste, solid waste management projects underway. VTMS in 100% vehicles. Set up of scientific landfill site with waste to energy plant. Recycling to organic waste to compost. b) NGO participation to encourage segregation from household level c) Online Garbage Tracking and Monitoring System implemented in more than 100 vehicles for real time monitoring. d) 100 bins covered with RFID tags and readers
24	Safety and security	A Smart City has high levels of public safety, especially focused on women, children and the elderly; men and women of all ages feel safe on the streets at all hours. (Guideline 6.2)	The city has low levels of public safety - most groups of residents feel insecure during most parts of the day in many parts of the city.	The city has medium levels of public safety - some more vulnerable groups feel insecure during some points of the day and in some parts of the city	The city has high levels of public safety - all citizens including women, children and the elderly feel secure in most parts of the city during most time in the day.	The city has very high levels of public safety - all residents feel safe in all parts of the city during all hours of the day.	Scenario 2	a) No CCTV cameras installed in the city even at sensitive places. b) Recently 2300 LED lights have been installed in the city. c) Control room at SP office monitoring CCTV camers. Source: BMC ,Office of Superintendent of Police, Nalanda	Scenario 4 Less than five minutes response turn around time for any emergency (through 24X7 call, integrated service) 100% coverage of street lighting	a) Initiate 100 emergency service with response time of less than 10 minutes b) Integration of surveillance with centralised emergency response center for reduced response time c) Smart Walky talkies, phones and GPS in patrol cars to reduce communications lags d) Installation of CCTV cameras at all places to ensure 100% surveillance

Biharsharif City Profile - I



Exhibit 3.1

Location



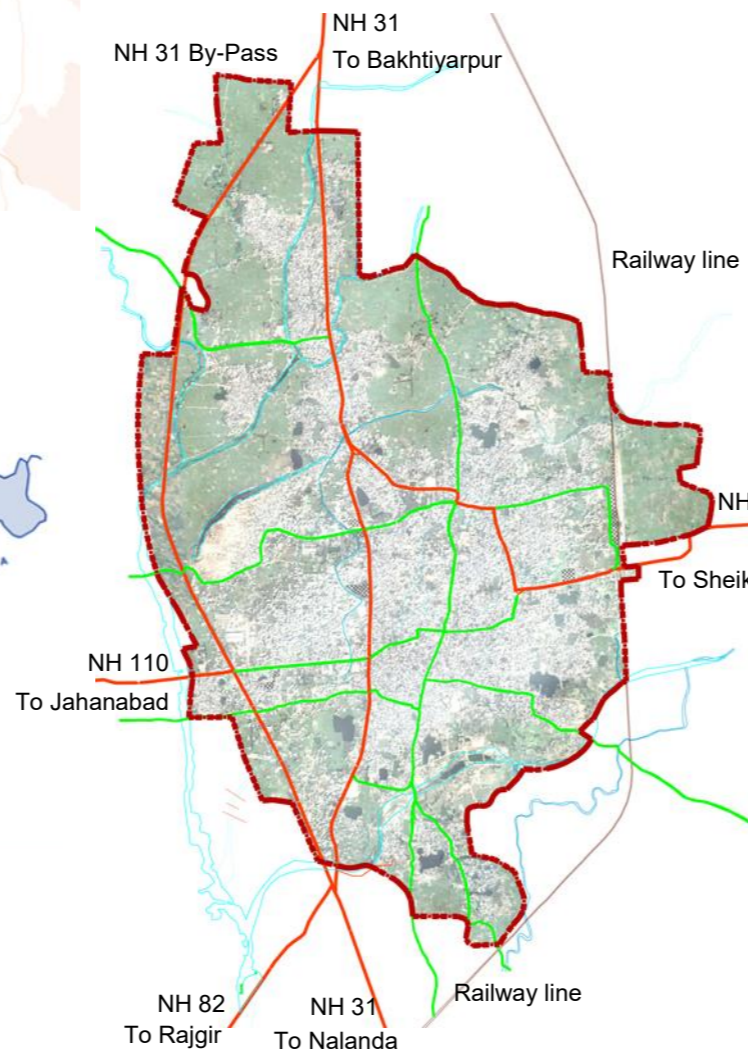
Source:

- Nalanda District Handbook, Census 2011
- Draft Master Plan Biharsharif 2027
- Biharsharif GIS Database

Nalanda District

- As the centre of the great Magadh Empire, the district has a rich and glorious history extending over 2,500 years
- World Heritage Site—Nalanda University located at Rajgir, 25 kms from Biharsharif
- Has second highest agricultural productivity in Bihar with 74.4% of land under cultivation.

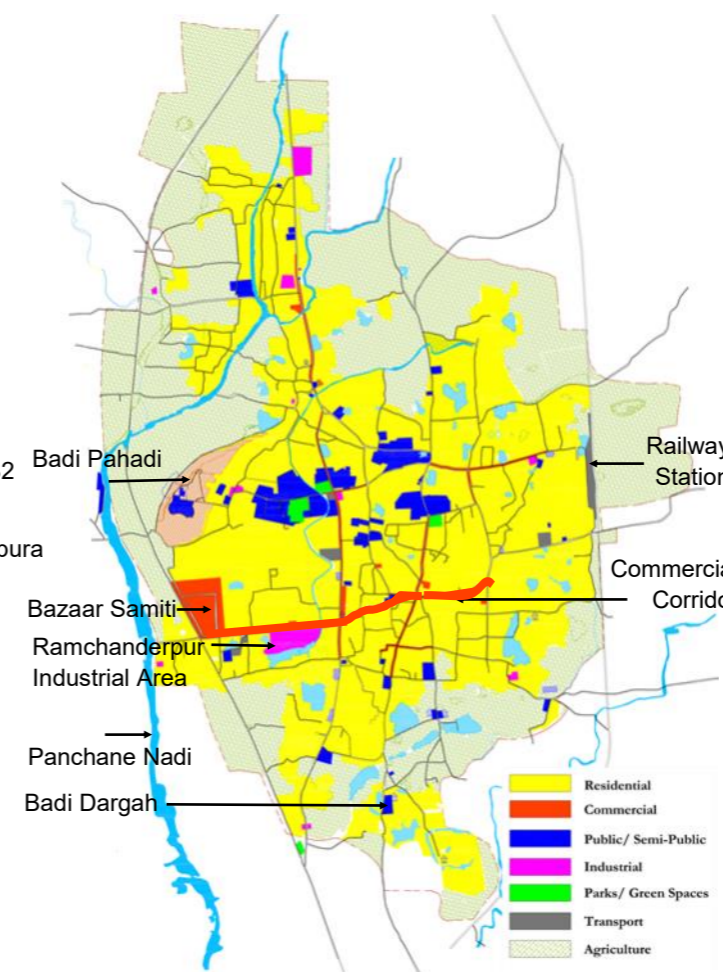
Biharsharif Municipal Area Map



Biharsharif City

- District Headquarters of Nalanda. 60% of Urban population of District
- Storage and distribution hub of agri-based products with around 40 small and medium scale cold storages catering to states of Bihar, Odisha, Assam and West Bengal
- Center of Sufism (part of Bihar Sufi circuit).

Biharsharif Landuse Map



Iconic Places of Biharsharif



Tomb of Syed Ibrahim Malik Biya at Badi Pahadi



Badi Dargah (Makhdum Shah Sharif-ud-din)



Bukhari Mosque



Baba Maniram Akhara



Demographic Profile Indicators (as per 2011 census)	City (Municipal Corporation Area)
Total Population	297268
Population Decadal Growth Rate	28%
Share of ULB population in District Urban population (%)	64.92
Literacy Rate (%)	75.3%
Slum Population (%)	9%
Working population in age (15-59 yrs) (%)	27.94%
Female Work Force Participation (%)	5%

City Lens



Panchane Nadi



Bazaar Samiti



Pulpar Market (CBD Area)



Railway Station

Citizen Engagement — Nagrik Sahbhagita Samvad



Exhibit 3.3

Citizen Engagement Methodology

Citizen Engagement –Round 1

- Problem identification - 6 set of Questionnaire based survey forms in hindi distributed ward wise covering all sections of society
- Prioritization of problems - Based on feedback of above survey opinion poll based survey forms for prioritization of issues and problems

Citizen Engagement –Round 2

- Vision & Goals - FGDs and interview based feedback from civil representatives, govt. officials and other key stakeholders.
- Alternative analysis - Opinion poll based survey to present options identified for ABD and Pan City proposal and take prioritization. (Exhibit 3.5)

Citizen Engagement –Round 3

- Finalization of the ABD & Pan-City Proposal through opinion poll on MyGov (Exhibit 3.5)
- Feedback on draft Smart City Proposal from key

Citizen Engagement Activities on Social Media

Rihar Sharif

Smart City Round -3 proposal gives more attention on #Digitalisation . Mission towards #digitalindia .

#biharsharifsmartcity

21:50

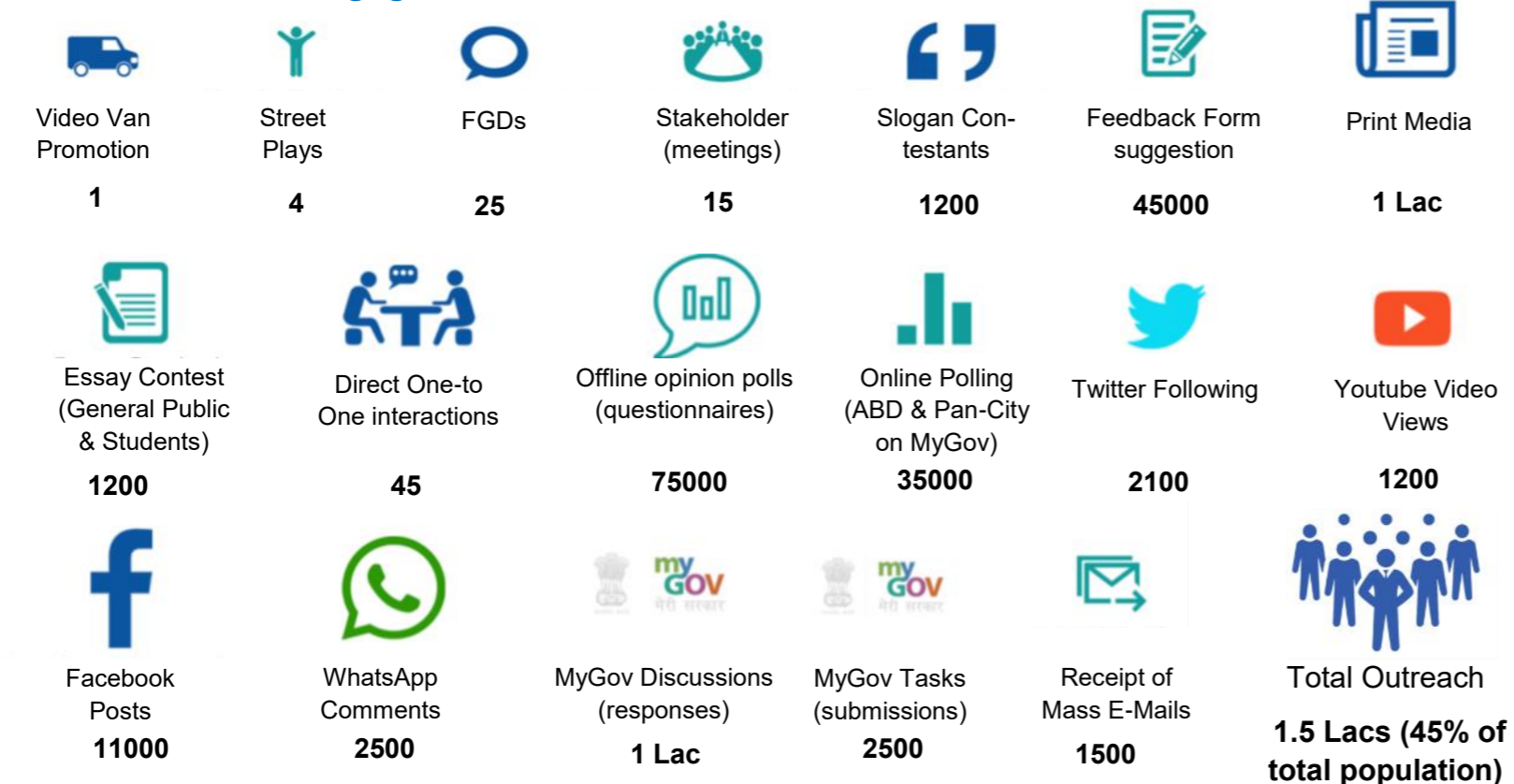
+91 97188 73200

last seen today at 21:25

If a museum is , about all the information of Biharsharif and places near to it , can be built at the place of mass and with every information there have to be a quote about smart behavior like 'an ambulance should go first before him' , 'old person should be respected' etc. I think so the smartness comes from the smart work .

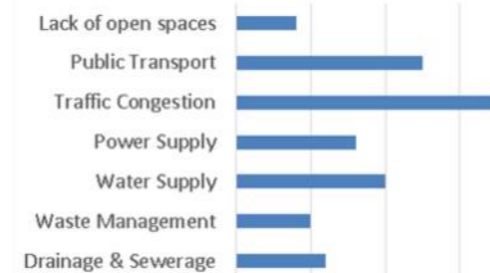
This museum have to be a part of the multifunctional building so that affection should comes by curiously to see what it has something in this museum.

Extent of Citizen Engagement

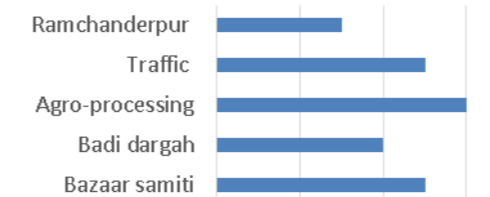


Outcome of Citizen Engagement - Round 1

Top 7 urban infrastructure related issues from analysis of written submission



Top 5 words derived from analysis of responses during stakeholder meetings



Citizen Engagement Activities on MyGov

Smart City Bihar Sharif - Retrofitting Area Identification Poll

Area Option 1: Badi Dargah, Bazar Samiti, Ramchanderpur Bus Stand, Singh College, Gagan-Dewan Lake 12%

Area Option 2: Badi Pahadi, Collectorate, Bazar Samiti, Pulgar Market, Civil Hospital, Fanchane River 41%

Area Option 3: Bazar Samiti, Railway Station, Doctor's Colony, Pulgar Market, Alama Jhal College 48%

Coverage of Smart City Activities in local news papers

Citizen Engagement - Awareness Campaigns, FGDs, Competitions, Workshops etc.

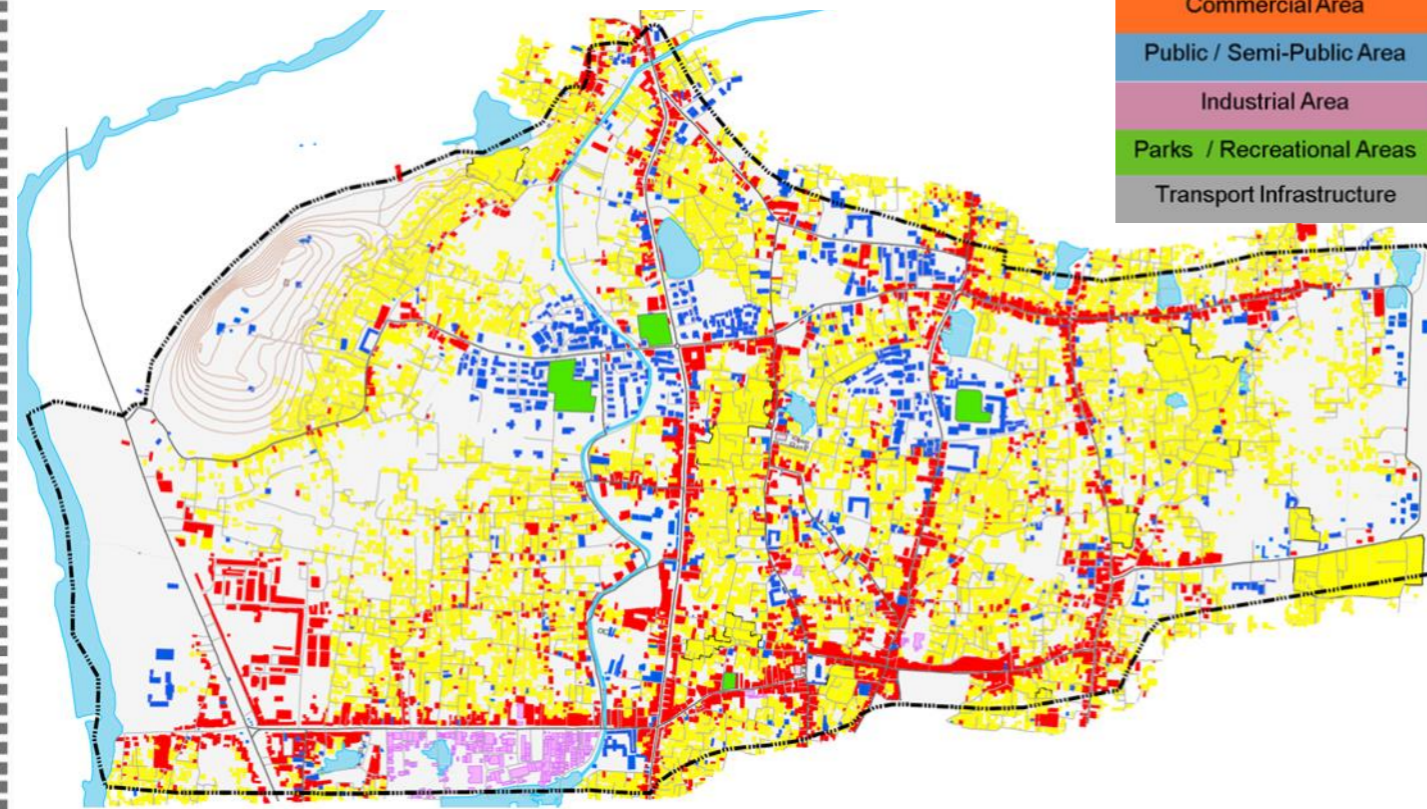


ABD Zone Profile



Exhibit 3.6

Land-use characteristics

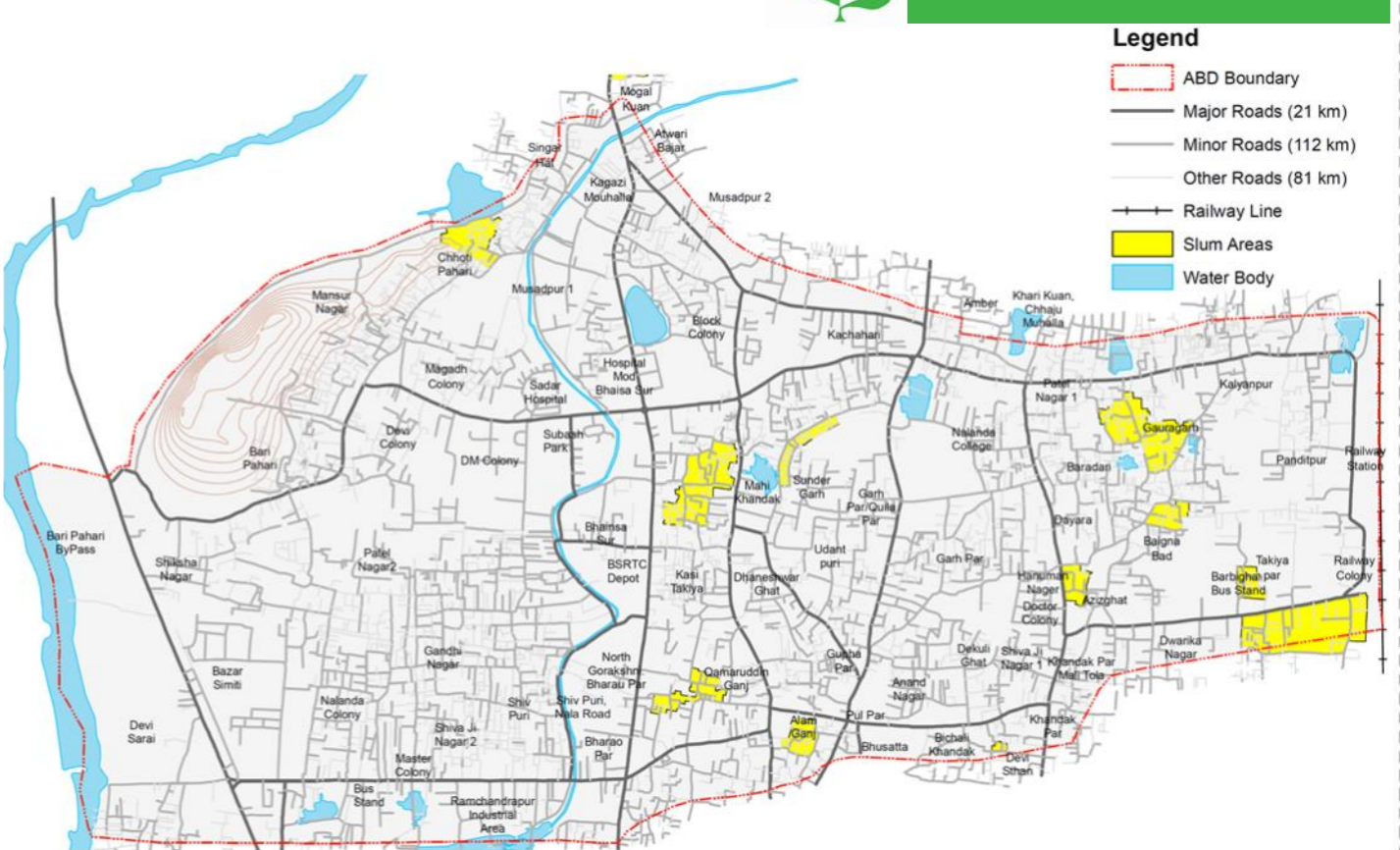


Residential Area ~53%
 Agricultural / Urban Greens ~16%
 Commercial Area ~11%
 Public / Semi-public Area ~9%
 Transport Infrastructure ~8%
 Industrial Area ~3%

Length of Major Road ~ 21 kms
 Length of Minor Roads ~ 112 kms
 Length of Other Roads ~ 81 kms
 Total Length of Road in ABD Zone is ~40% of road network of Municipal Area



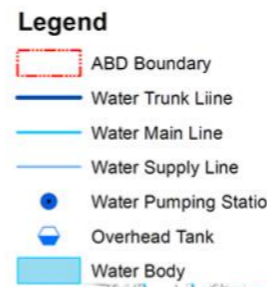
Road Network & Slum Area Map



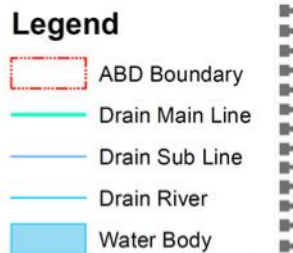
Water Supply Network ~ 67 kms. (65% coverage)
 Overhead Water Tanks - 8 nos.
 Water Pumping Stations - 35 nos.
 Drainage Main Line ~ 60 kms
 Drainage Sub-main Line ~ 140 kms
 Difference between highest altitude at badi pahadi & plan area is ~50 mts.



Water Supply Map



Drainage Map



GOAL 1 : Samrudhha — Create conditions for a vibrant economy



Exhibit 3.7

Conceptual Map showing Major Interventions - ABD Proposal

Indicative Cost Estimate — AG 1 to 3

Multi-faceted approach for comprehensive economic development of city as well as citizens.

Retrofitting of existing economic nodes, creation of new economic hubs, integration with transport nodes, facilitating skill development and supporting policy framework for EoDB.

Retrofitting and face-lifting of CBD area. UG utilities, façade design, non-vehicular zones, one-way road, parking bays, scheduled movement of goods.

WiFi Hotspots in CBD

Redevelopment of Bazaar Samiti area (30 acres) as hub of agrobased processing units, storage facilities, trading center etc.

Skill development in organic farming & products.
Waste to compost plant.

Retrofitting of Ramchanderpur Industrial Area (Logistics area, warehouse, cold storage facility) and conversion of Ramchanderpur Bus Stand into commercial center.

Development of **new vending zones** along edge of ponds and panchane river.

Dedicated vending zones for women, BPL families and differently abled.

Smart kiosks for vendors.

Street vendors along roads to be shifted to New vending zones near khandakpur bus stand, BSRTC Depot, & ramchanderpur bus stand.

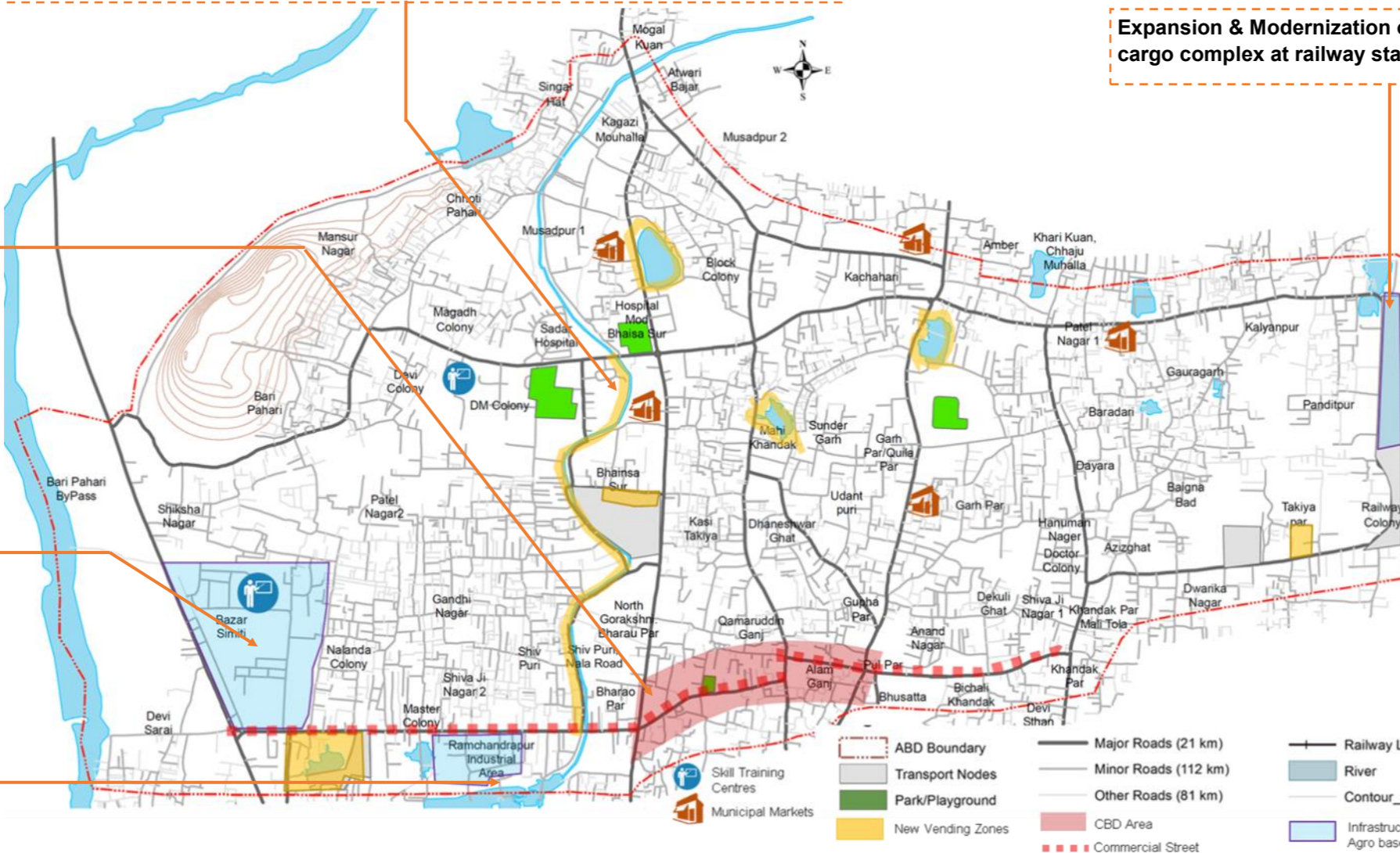
Nala to be covered and developed as vending zone

Skill training institute in Block cum Zonal office of Biharsharif & Bazaar Samiti Area..

Ease of doing business with single window clearance system.

- Indicative Cost Estimate ~INR 283 crore
- Likely Convergence through Govt. funds ~INR 43.85 crores
- Likely PPP funding ~INR 49.10 crore
- Indicative annual O&M cost ~INR 10.81 crore
- Indicative annual revenue generation ~INR 26.28 crore
- Likely employment generation ~370

Expansion & Modernization of cargo complex at railway station.



Existing Situation



Proposed Interventions



Targets >> Activity Groups (AG) with Indicative Cost Estimate (refer annexure 5 for details)

AG 1 : Infrastructure for agro-based products — Indicative Cost Estimate INR 154.50 crore

- Development of Freight Complex at Railway Station ~25 Cr.
- Agro-based training and research institute ~4.5 Cr.
- Redevelopment of Bazaar Samiti ~75 Cr.
- Improvement of Ramchanderpur industrial area ~48 Cr.
- Single Window Clearance System ~2 Cr.

AG 2 : Commercial area development — Indicative cost estimate INR ~109 crore

- Conversion of ramchanderpur bus stand into commercial hub ~45 Cr.
- Redevelopment of Municipal Market ~45 Cr.
- Addition of commercial center at railway station ~9 Cr.
- Facelifting of commercial street ~10 Cr.

AG 3 : Skill Development — Indicative Cost Estimate INR 19.50 crore

- New Skill Training Institute in Block cum Zonal Office & Bazaar Samiti ~16 Cr.
- Renovation of Existing Skill Training Center ~1 Cr.
- Training of SHGs under Ajeevika Program ~2.5 Cr.



GOAL 2 : Jeevant — Focus on livability – enhance quality of life



Exhibit 3.8

Conceptual Map showing Major Interventions - ABD Proposal

Indicative Cost Estimate — AG 4 to 8

Separated sewerage and storm water drainage system along all major and minor roads.

SCADA system for leak detection and monitoring.

Conveyance of storm water to ponds / RWH structures

Conveyance of waste water to STP / CETP (for industrial waste)

2-Bin System to be implemented supported by awareness campaigns

Intelligent SWM for collection & transportation.

Waste to Energy and Waste to Compost Plant

Smart Metering of power connections at HHs.

Intelligent Transformers & Smart Grid System

UG multi utility duct including power, gas and communication lines

Geo-enabling of utilities

OFC Network to all public, semi-public buildings.

IoT in Education, and Health sector. Smart Policing, E-Courts (included in Pan-City Proposal)

Artificial Rain Water Harvesting Structures at open spaces.

Mandatory RWH and solar roof top system for all public/semi-public buildings

Water Treatment Plant

Cleaning and developing ponds as recreational areas.

Focus on revival on natural drains and use ponds as storm water discharge spots.

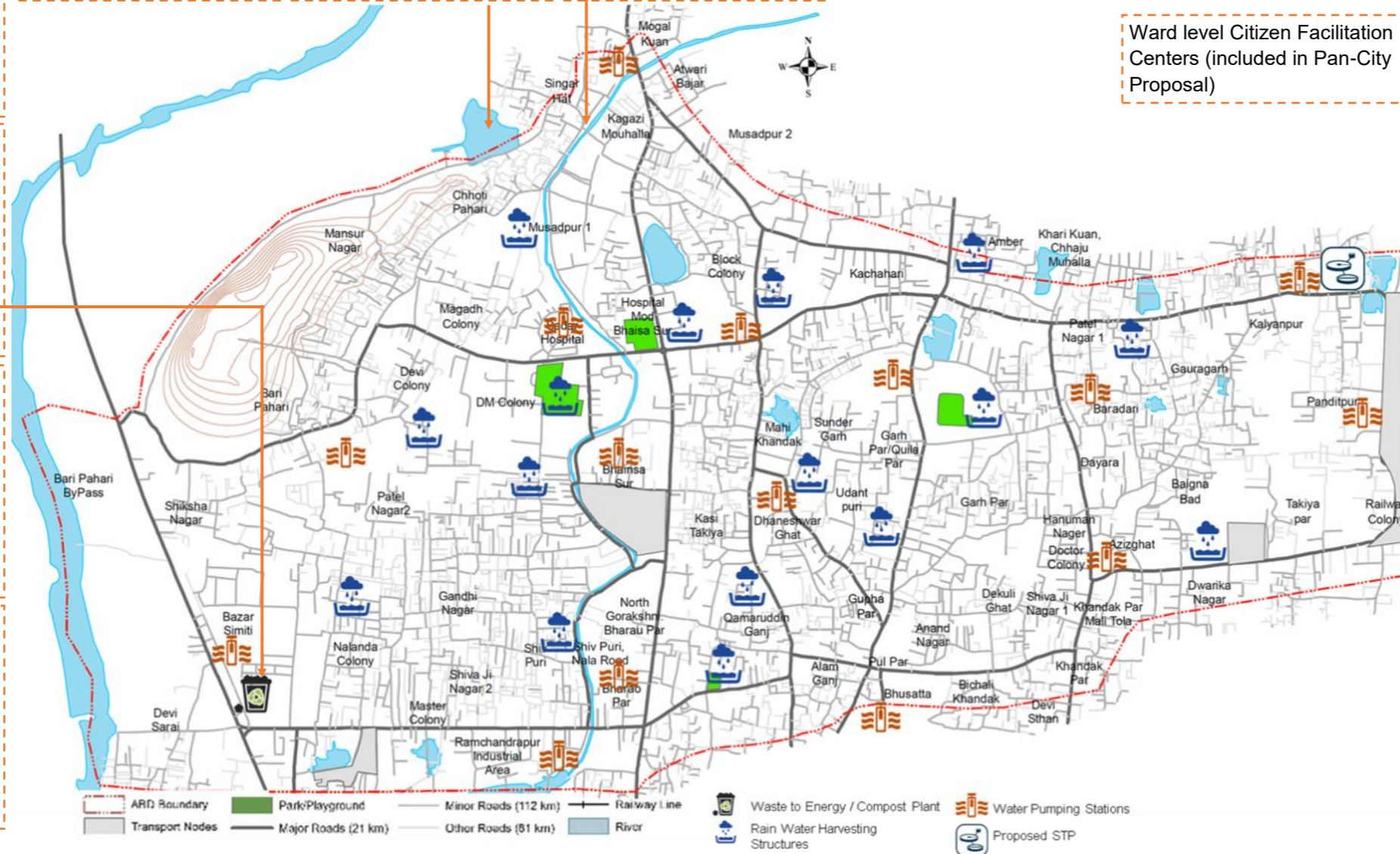
Treatment and Re-use of waste water.

Sewerage Treatment Plant

Closing the open major drain and **converting nala into pedestrian pathway**

- Indicative Cost Estimate ~INR 315.69 crore
- Likely Convergence through Govt. funds ~INR 91.28 crores
- Likely PPP funding ~INR 10.80 crore
- Indicative annual O&M cost ~INR 9.54 crore
- Indicative annual revenue generation ~INR 3.78 crore
- Likely employment generation ~155

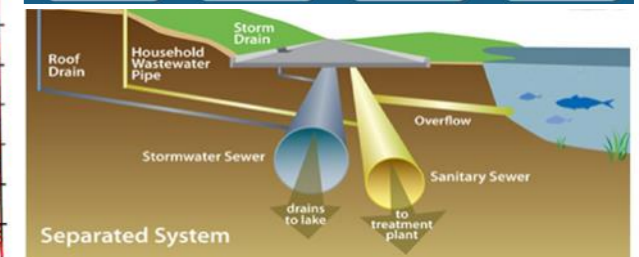
Ward level Citizen Facilitation Centers (included in Pan-City Proposal)



Existing Situation



Proposed Interventions



Smart Grid



Targets >> Activity Groups (AG) with Indicative Cost Estimate (refer annexure 5 for details)

AG4 : 24X7 water supply - Indicative Cost INR ~54.30 crores

- Water Treatment Plant ~12 Cr.
- Water Distribution Network ~24 Cr.
- Smart Water Meters in HHs ~14 Cr.
- Energy Efficient WPS ~3 Cr.
- RO Water Points ~1.3 Cr.

AG5 : Development of UG sewerage system - INR ~135.34 cr.

- Laying of complete new sewerage network & HH connections ~101 Cr.
- Decentralized STPs of 10 MLD & CETP of 6 MLD ~30 Cr.
- Sewage Suction Trucks ~2.76 Cr.
- Construction of Bio-toilets ~1.58 Cr.

AG6 : Development of UG storm water drains - INR ~63.05 cr

- UG Main Storm Water Drain ~9 Cr.
- UG Sub-Main Drain ~33 Cr.
- UG Lateral Storm Water Drain ~20 Cr.
- RWH Structures ~1.05 Cr.

AG7 : SWM - Indicative Cost INR ~19.01 crores

- Waste Segregation Bins (Two-Bin System) ~3.40 Cr.
- SWM Equipment ~2.61 Cr.
- Waste to Energy / Manure Plant ~8 Cr.
- Scientific Landfill Site ~5 Cr.

AG8 : Robust Power Infrastructure - INR ~44 cr

- Under Ground Multi-Utility Duct including PNG pipeline ~15 Cr.
- SCADA & Smart Metering System ~21 Cr.
- Smart Transformers & Sub-station ~5 Cr.

WET WASTE

DRY WASTE



*reference images

GOAL 3 : Gatisheel — Ensure seamless mobility of people and goods



Exhibit 3.9

Conceptual Map showing major interventions - ABD Proposal

Use of ICT for urban mobility. Smart card payment system for cashless payments of user charges of utilities including public transport (included in Pan-City proposal)

Use of ITMS for real time information of traffic, locations of E-Rickshaws / Auto (included in Pan-City).

Dedicated **green pedestrian pathway** developed over major *nala* connecting north & south of ABD area.

Improve NMT infrastructure. Bike lanes along major and minor roads.

Redevelopment of BSRTC Depot into hub of city public transport.

Promote E-Rickshaws as major mode of public transport equipped with GPS devices and integrated with ITMS.

Shifting Ramchanderpur Bus-Stand to Kargil Bus Stand and be redeveloped as commercial center integrated with Industrial Area.

Shifting hawkers major roads to vending zones

All junctions along major & minor roads be re-designed to ease traffic flow

Widening of selected minor roads to major roads (ABD periphery along Badi Pahadi).

All roads be re-designed to **promote movement of E-Rickshaw and facilitate pedestrian movement.**

E-Rickshaw / Auto parking spots are identified.

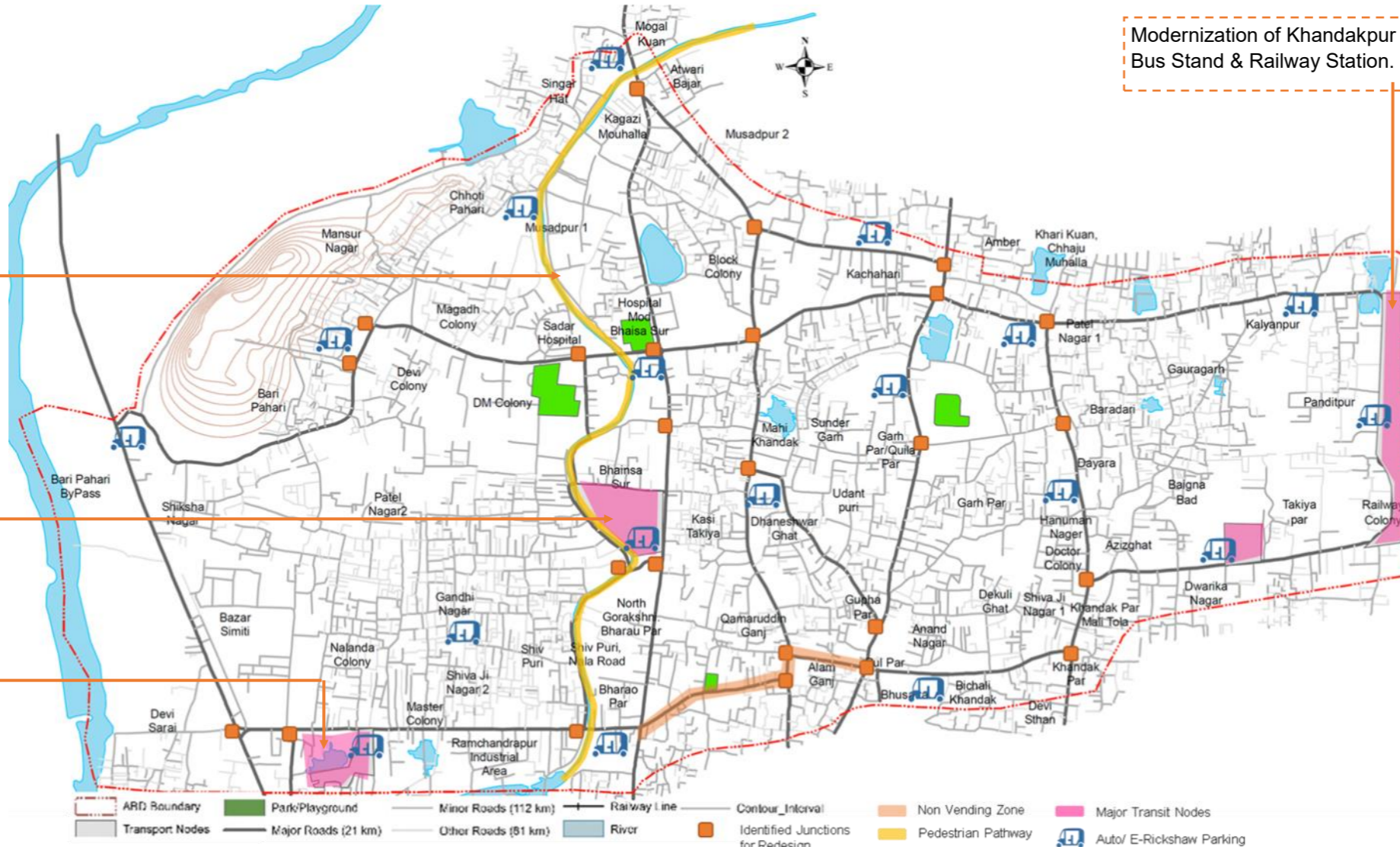
All major roads will be developed as **smart roads with segregated traffic movement, ITMS, smart poles, cycle tracks, E-Rickshaw stands.**

Smart Parking Areas.

Indicative Cost Estimate — AG 9 to 11

- Indicative Cost Estimate ~INR 270.55 crore
- Likely Convergence through Govt. funds ~INR 49.20 crores
- Likely PPP funding ~INR 50.48 crore
- Indicative annual O&M cost ~INR 7.96 crore
- Indicative annual revenue generation ~INR 6.39 crore
- Likely employment generation ~367

Modernization of Khandakpur Bus Stand & Railway Station.



Existing Situation



Proposed Interventions



Targets >> Activity Groups (AG) with Indicative Cost Estimate (refer annexure 5 for details)

AG9 : Seamless Public Transport - Indicative Cost - INR ~44.60 crore

- Redevelopment of Govt. Bus Stand ~27 Cr.
- Redevelopment of Khandakpur Bus Stand ~12 Cr.
- Multi Level Parkings ~3.6 Cr.
- Shifting of Ramchanderpur Bus Stand ~2 Cr.

AG10 : Transport Network Improvement - Indicative Cost INR ~190.95 crore

- Smart Road Network & Strengthening of Major Roads ~85.5 Cr.
- Street & Junction Improvement ~53 Cr.
- Ropeway between badi pahadi & badi dargah ~14.95 Cr.
- Flyover at Ramchanderpur Chowk ~37.5 Cr.

AG11 : Encourage NMT and pedestrian safety - Indicative Cost INR ~35 crore

- Pavement / Pedestrian Pathways ~13 Cr.
- Cycle Tracks ~1 Cr.
- Street furniture, street signages ~21 Cr.

Smart Road Network



*reference images

GOAL 4 : Sandharniya — Preserve natural and cultural heritage



Exhibit 3.12

Conceptual Map showing major interventions - ABD Proposal

Conservation of the city's natural assets like Panchane Nadi, Ponds, Badi Pahadi, Ground Water

Preserve and promote city's cultural heritage like chhoti dargah, ASI protected Tomb at Badi Pahadi, Bukhari Mosque.

Event grounds for religious fairs and tourism.

Green Building features like roof top solar panels, RWH, waste water re-use etc in all public & semi-public buildings.

Energy efficient street lights. Eco-friendly commercial and public vehicles

Renovation of public buildings like Town Hall, Biharsharif Club, Health Club, Biharsharif Museum.

Tree Plantation along roads, open areas, roof top urban farming.

Riverfront development of Panchane Nadi - development of park, cycle track, ghat, fishing ground etc

Development of open spaces for organizing fairs with areas for tents, drinking, sanitation etc.

Potential area for future extension of riverfront and replication of projects

Formulation of Land Pooling Guidelines / Town Planning Scheme guidelines for planned growth of peripheral areas.

Rejuvenation of Badi Pahadi area as heritage hotspot for tourists.

Ropeway connecting badi pahadi, bukhari mosque & badi dargah.

Rejuvenation of ponds as recreational spaces - smart kiosks, pedestrian pathways, children park, yoga area, steps for celebrating festivals.

Rejuvenation of parks, open spaces, new parks.

Indicative Cost Estimate — AG 12 to 14

- Indicative Cost Estimate ~INR 152.15 crore
- Likely Convergence through Govt. funds ~INR 20.30 cr.
- Likely PPP funding ~INR 21.35 crore
- Indicative annual O&M cost ~INR 7.09 crore
- Indicative annual revenue generation ~INR 10.21 crore
- Likely employment generation ~810



Existing Situation



Proposed Interventions



Targets >> Activity Groups (AG) with Indicative Cost Estimate (refer annexure 5 for details)

AG12 : Rejuvenation of Natural Assets — Indicative cost estimate INR ~88 cr

Development of River Front (cleaning, retaining walls, landscaping, ghat development, OAT, boat club) ~50 Cr.

Lakefront development (self-cleaning, recreational area, landscaping, cycle tracks) ~38 Cr.

AG13 : Green Buildings & Pollution Control — INR ~20.25 crore

Rejuvenation of govt. bldgs. with green features ~8.4 Cr.

Roof top solar panel on all public bldgs. ~11.25 Cr.

Air & water pollution sensors ~60 Lacs

AG14 : Rejuvenation of Built Heritage and Open Spaces — INR ~43.90 crore

Placemaking around areas of cultural heritage like Chhoti Dargah, Bukhari Mosque, Badi Pahadi & renovation of Biharsharif Museum, Town Hall ~20.50 Cr.

Iconic Structure for the city, open area for organizing events/ fairs along river, rejuvenation of Open spaces ~23.40 Cr.

Iconic structure for the city



*reference images

GOAL 5 : Saksham — Empower vulnerable groups for inclusive development



Exhibit 3.13

Conceptual Map showing Major Interventions - ABD Proposal

Up-lifting vulnerable groups like EWS, differently abled, slum dwellers, street hawkers, women, senior citizens

Providing improved infrastructure, economic opportunities, good quality education, health facilities, enhanced safety and social security.

In-situ up-gradation of slum areas - 7 out of 11 slum areas in ABD.

Rehabilitation of slums in city core area (4) to **EWS housing** near Panchane Nadi.

Use of ICT for information database of slum dwellers, street vendors, students, senior citizens.

Formation, training and financial support for women **self-help groups**.

Social infrastructure like market area, PHC, police station, aanganwadi, rain baseras will be developed / upgraded.

Affordable housing for LIG near Panchane Nadi.

Retrofitting of existing social infrastructure like govt. schools, govt. hospitals, police & fire station etc.

All public buildings will be modified for universal access design.

Organised street vending zones along the roads. New Areas like Khandaipur & Ramchandrapur Bus Stand identified for shifting of street hawkers.

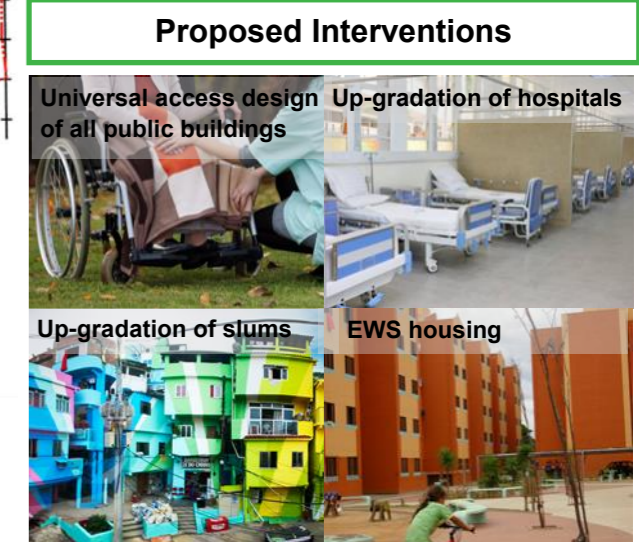
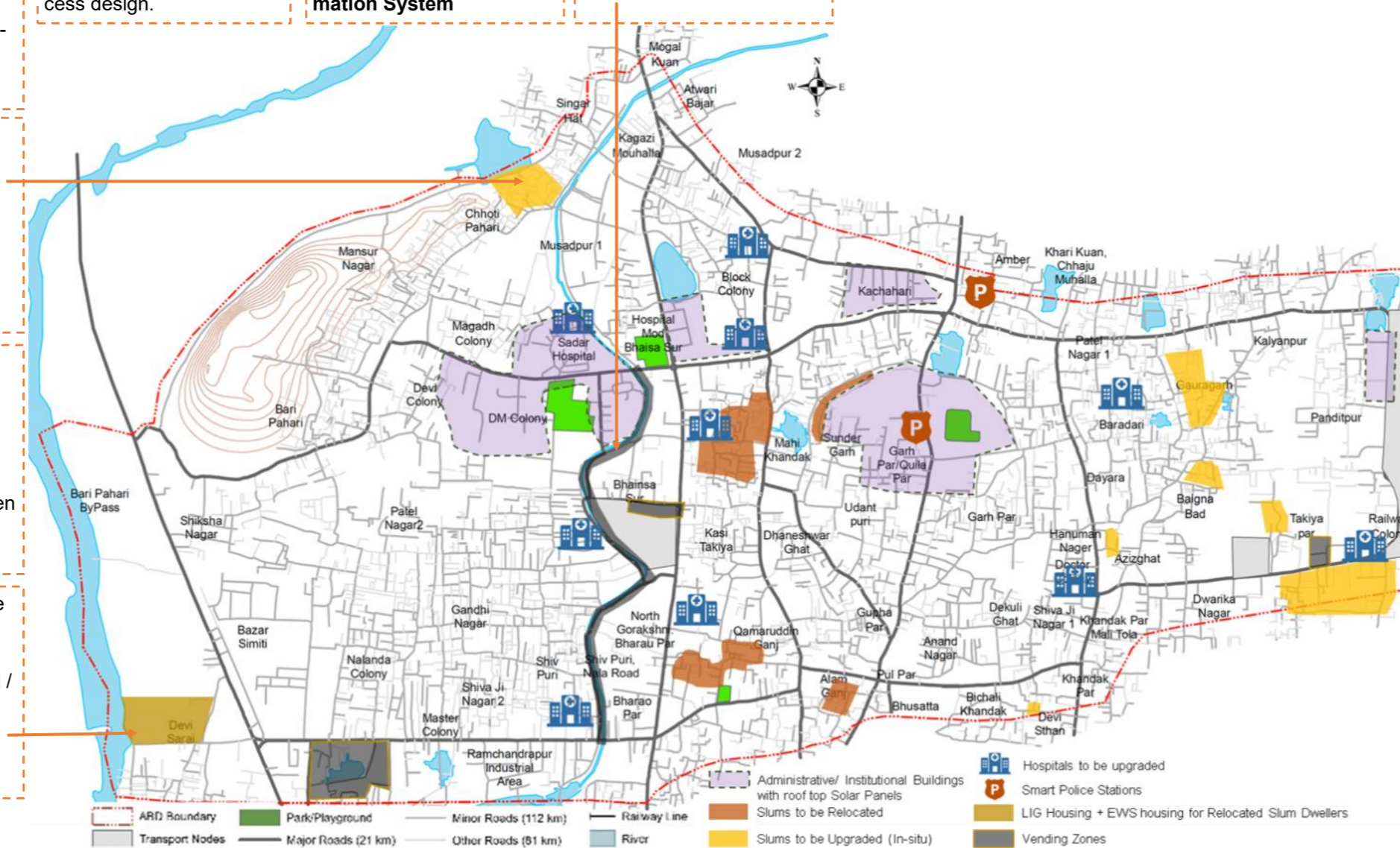
Street Vendors Information System

New street vending zone developed by covering major nala of the city.

Vendors selling vegetables, fruits, fish, meat etc. will be shifted to this new vending zone.

Indicative Cost Estimate — AG 15 to 17

- Indicative Cost Estimate ~INR 194.50 crore
- Likely Convergence through Govt. funds~INR 56.39 crores
- Likely PPP funding ~INR 13.58 crore
- Indicative annual O&M cost ~INR 7.75 crore
- Indicative annual revenue generation ~INR 6.27 crore
- Likely employment generation ~1809



Targets >> Activity Groups (AG) with Indicative Cost Estimate (refer annexure 5 for details)

AG15 : Alleviation of urban poor and slums — INR 92.90 crore

- In-situ up-gradation of slum HHs ~42 Cr.
- Development of new EWS housing for relocated slum dwellers ~50 Cr.
- Slum Information System ~90 Lacs

AG16 : Up-gradng informal sector—Indicative cost INR ~37 crore

- Informal Sector re-organization with improved infrastructure ~21 Cr.
- Solar powered Smart Kiosks ~15 Cr.
- Street vendor information system.

AG17 : Social Infrastructure & Affordable Housing — INR ~64.6 cr.

- Renovation of civil hospital & PHCs, school & colleges, rain baseras ~25 Cr.
- Smart Police & Fire Stations ~2.1 Cr.
- LIG Housing ~37.50 Cr.

Organized street vending



New vending zones



Aanganwadis



*reference images

GOAL 6 : Sushasit — Enhance effectiveness of local government through ICT



Exhibit 3.14

Conceptual Map showing Major Interventions - Pan City Proposal

Unified City Governance :
City wide, citizen centric mobile apps for -
E-Education (digital libraries, distance learning labs in govt. schools),
E-Health (database of medical shops, hospitals, online appointment of doctors),
E-Employment (database for jobs, employers, CVs, private and government recruitment portals),
E-Municipality (Property tax payments, online building plan approval, trading license)

Development of Integrated Command & Control Center

Citizen Facilitation Centers (Jan Seva Kendra) at ward level for better outreach.

City wide **smart street lights** for outreach of ICT services.

Intelligent Traffic Management System

Smart public transport with **GPS fitted E-Rickshaws / Autos** and smart card.

E-Rickshaw Stands & Parking

Intelligent Solid Waste Management - 2 Bin System for segregation at source, GPS based vehicle tracking system, RFID tagged UG bins, citizen awareness workshops

Waste to energy & waste to compost plant in Bazaar Samiti on PPP mode.

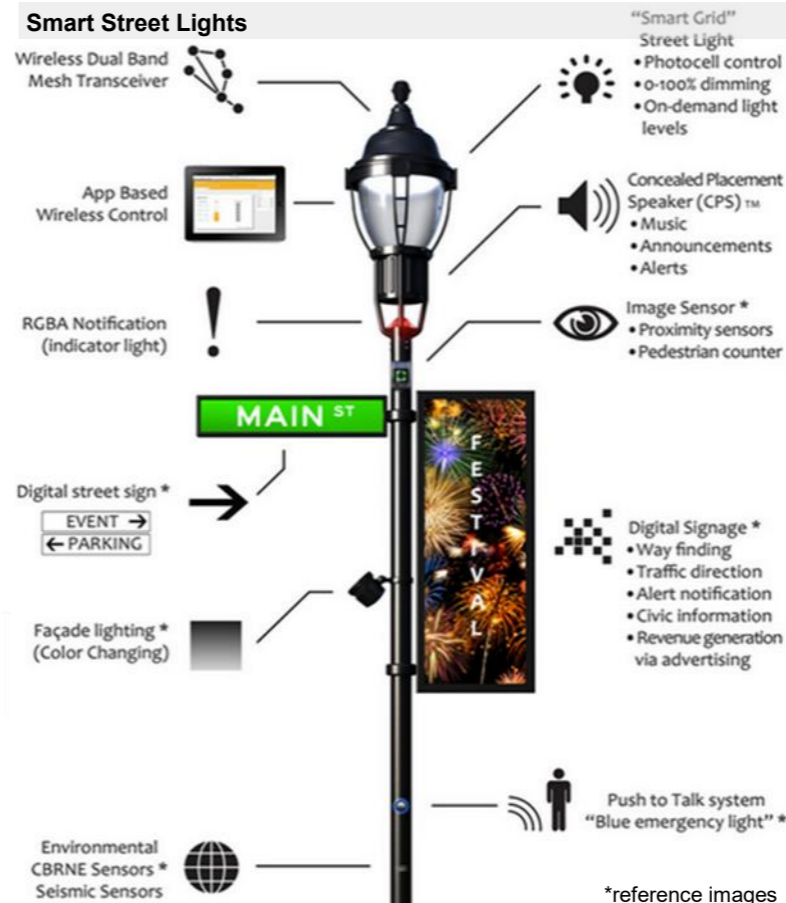


Indicative Cost Estimate — AG 18 to 20

- Indicative Cost Estimate ~INR 187.83 crore
- Likely Convergence through Govt. funds ~INR 38.93 crores
- Likely PPP funding ~INR 58.29 crore
- Indicative annual O&M cost ~INR 17.67 crore
- Indicative annual revenue generation ~INR 7.22 crore
- Likely employment generation ~340

Smart Street Light is proposed as medium for city wide coverage of ICT interventions like WiFi hotspot, traffic sensors, CCTVs, digital signages, public announcement system, emergency management system, e-rickshaw charging points.

Proposed Interventions



ISWM Waste Management
optimise your workflow

reduce costs
environment friendly

Mobile app
iOS and Android mobile app available

Jan Seva Kendra Digital Seva Common Service Centre

Digital Services Available Here

forward C.S.C. Center, K.C. Rani Road, Gadag - 582 101. Mob: 9980383925, 9663129039



Targets >> Activity Groups (AG) with Indicative Cost Estimate (refer annexure 5 for details)

AG18 : Unified City Governance — Indicative Cost Estimate INR 140.90 crore

Integrated Command & Control Center. & Smart Street Lighting ~108.5 Cr.

Establishment of Citizen Facilitation Centers & E-Governance infrastructure (Connecting govt. depts. with OFC network, mobile apps, geo-enabling utilities) ~18.9 Cr.

Policy Support & Citizen Awareness Campaigns ~13.5 Cr.

AG19 : Smart Public Transport — Indicative cost estimate INR ~30 crore

ITMS Devices & Software ~12 Cr.

GPS fitted E-Rickshaws / Autos ~10.5 Cr.

E-Rickshaw stands with charging stations ~7.5 Cr.

AG20 : Intelligent SWM — Indicative Cost INR~16.93 crore

Waste segregation bins for HHs ~8.4 Cr.

UG Waste Bins with RFID Tags ~3.5 Cr.

GPS enable waste transportation vehicles ~2.8 Cr.

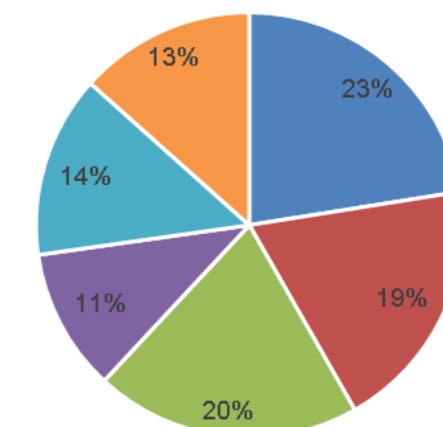
Supervision & Monitoring of Treatment Facilities ~2.23 Cr.



SUGGESTIVE FUNDING PATTERN OF SMART CITY PROPOSAL AND CONVERGENCE WITH OTHER GOVERNMENT SCHEMES & SOURCES OF FUND (all figures in Rs. Lacs)

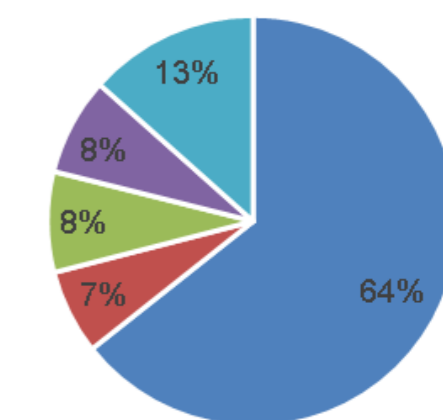
SNo.	Project Precinct	Indicative Project Cost	Source of Fund								
			GoI - Smart City Funding	GoB - Smart City Funding	ULB - Own Source	PPP Funding	GoI - AMRUT	GoI - Swachh Bharat	GoI - PMAY	GoB - State Schemes	Other Schemes (IPDS, NULM etc.)
AREA BASED DEVELOPMENT											
Goal-1	Samrudhha — Create conditions for a vibrant economy	28300									
1	Infrastructure for agro-based products	15450	5565	5565		3560				760	
2	Commercial area development	10900	3425	3425	2700	1350					
3	Skill Development	1950	513	513		0				925	
Goal-2	Jeevant — Focus on livability – enhance quality of life	31569									
4	24X7 water supply	5430	1365	1365		0	1500			1200	
5	Development of UG sewerage system with SBR-STP	13534	6313	6313		0				908	
6	Development of UG Storm water drains	6305	1913	1913		0				2480	
7	SWM system	1901	160	160	1101	160		320			
8	Robust Power Infrastructure	4400	930	930		920				1620	
Goal-3	Gatisheel — Ensure seamless mobility of people and goods	27055									
9	Seamless Public Transport	4460	960	960	540	2000					
10	Transport Network Improvement	19095	6304	6304		2208				4280	
11	Encourage NMT and pedestrian safety	3500	1280	1280	100	840					
Goal-4	Sandharniya - Conserve natural and cultural heritage	15215									
12	Rejuvenation of Natural Assets	8800	3790	3790		860	360				
13	Rejuvenation of Built Heritage and Open Spaces	4390	1060	1060	995	1275					
14	Green Initiatives	2025	675	675		0				675	
Goal-5	Saksham — Empower vulnerable groups for inclusive growth	19450									
15	Alleviation of urban slums	9290	3725	3725		0			1840		
16	Up-grading informal sector	3700	1220	1220		420				840	
17	Social Infrastructure & Affordable Housing	6460	1222	1222	1084	938			1875	120	
	A&OE @ 2%	2432	827	827	778						
	Contingency@ 5%	6079	2067	2067	1945	Contingency amount is distributed equally in ULB and Smart City Fund of GoI & GoB					
TOTAL OUTLAY INCLUDED IN SMART CITY PROPOSAL IN ABD		130100	43312	43312	9243	14531	1860	320	3715	10468	3340
PAN CITY INITIATIVES											
Goal 6	Sushasit — Enhance effectiveness of local government through ICT	18783									
18	Unified City Governance	14090	3651	3651		4648				2141	
19	Smart Public Transport	3000	450	450	1500	600					
20	Intelligent Solid Waste Management	1693	430	430		581		252			
	A&OE @ 5%	939	319	319	301						
	Contingency@ 10%	1878	639	639	601	Contingency amount is distributed equally in ULB and Smart City Fund of GoI &					
TOTAL OUTLAY INCLUDED IN SMART CITY PROPOSAL IN PAN-CITY		21600	5488	5488	2402	5829	0	252	0	0	2141
TOTAL INDICATIVE OUTLAY FOR SMART CITY PROPOSAL (ABD+PAN-CITY)		151700	48800	48800	11645	20360	1860	572	3715	10468	5481

Indicative cost under respective goals



■ Jeevant
 ■ Gatisheel
 ■ Samrudhha
 ■ Sandharniya
 ■ Saksham
 ■ Sushasit

% Breakup of Source of Funds



■ Smart City Component
 ■ Convergence through GoI schemes
 ■ Convergence through GoB schemes
 ■ ULB own funding
 ■ PPP Funds

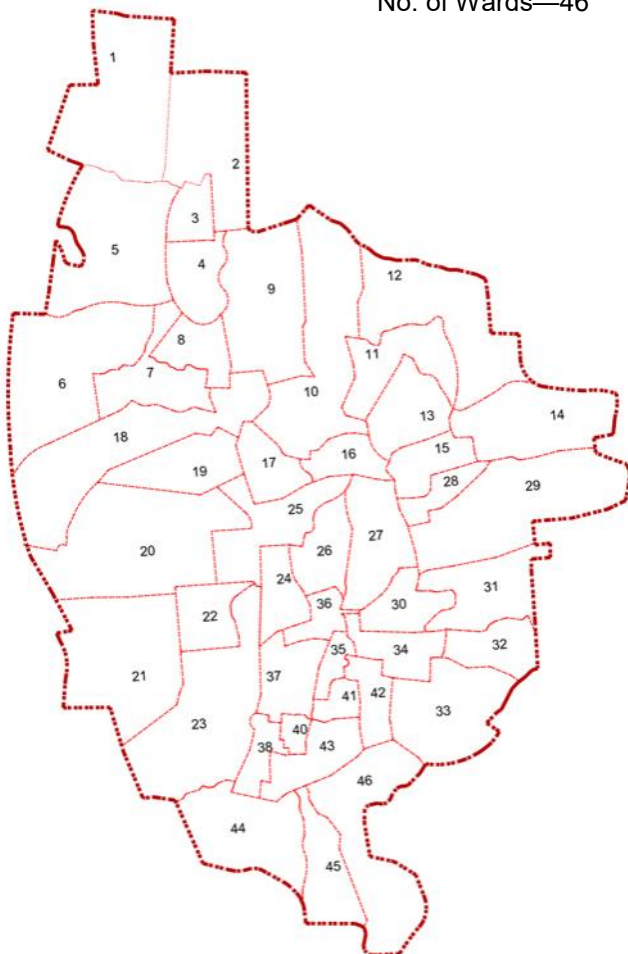
City Profile - II



Exhibit 3.2

Ward Map

No. of Wards—46



Education & Health Facilities

- More than 200 private clinic and one district hospital
- 167 Primary schools. 20 secondary and higher secondary schools.

Natural Resources

- Panchane Nadi in the west and ponds scattered throughout the city.
- Ground water level is around 60 - 80 feet.

E-Governance

- E-Municipality under implementation with 4 modules rolled out in phase 1.
- Online Birth & Death certificates, Building plan approval, Trade licensing, Property tax payment. Web-portal: www.nagarseva.bihar.gov.in
- Property Tax - 147.44% increase. Building plan approval reduced from 30 days to 9 days
- Helpline nos.—06112-232271, 9470488668

Economy

- Major Urban Centre of state, district headquarter, largest urban center of district.
- Economy is based on agro-trading and cloth trading activities. Nalanda district has second highest agricultural productivity in Bihar.
- Emerging hub of organic vegetable produce.

Water

- Water Supply - 105 LPCD. Average Supply Hours: 8-10 hrs. 37 Pumping Stations.
- 100% dependency on under ground water.
- HHs coverage of 55%. Reduction in UFW from 55% to 40%
- Ongoing Project - 24*7 with piped connections to every household in 15 wards

Sewerage Network

- Total sewage generation: ~22 MLD. No underground sewerage system
- Septic tank based Septage Management
- IHHL coverage 63%. Construction of 5538 IHHL undergoing

Solid Waste

- Door to door collection in all 46 wards. HH level coverage - 51%.
- 120 MT solid waste per day. Collection efficiency 90%
- 1st Rank in Bihar as per SBM Rankings.

Transport

- Total road network length ~510 kms. No. of bus stands - Four (Two are operational)
- New kargil chowk bus stand (Shifting of inter city bus services from ramchanderpur stand)
- Public Transport Modal Share - 61%.
- 42 CCTV cameras covering 15 major junctions.

Power

- Average daily power supply of 20-22 hrs.
- 90% HH with electricity connection. 93 MW Power Supply. T&D Losses 33%

Vision & Goals



Exhibit 3.4

Citizen's Aspirations

Based on SWOT analysis and inference of citizen engagement activities, aspiration of citizens have been derived. The citizens' aspirations can be categorized into four broad heads :

- Aspirations of a flourishing economy generating a wide spectrum of employment opportunities in sectors; agro industries, trade and commerce, supported by a educated and skilled workforce, and improved transportation/logistic/warehousing services.
- Aspirations of a Smart City with an accountable, smart and efficient local government striving for improved quality of life by assuring state of art and smart urban infrastructure and services.
- Aspirations of seamless mobility with smart traffic management and improved road infrastructure.
- Aspirations to conserve, develop and promote its cultural and natural heritage.
- Aspirations of inclusive growth where vulnerable sections of society are looked after.

Vision for City of Bihar Sharif



"By 2027, Bihar Sharif aspires to become leading processing and trading hub of agro-based products; and one of the most liveable cities in the state, taking pride in nurturing its natural and cultural heritage"

Vision >> Goals



- #1: **Samrudhha** — Create conditions for vibrant agro-based economy
- #2: **Jeevant** — Focus on livability, enhance quality of life
- #3: **Gatisheel** — Ensure seamless mobility of people and goods
- #4: **Sandharniya** — Preserve natural and cultural heritage
- #5: **Saksham** — Empower vulnerable groups for inclusive growth
- #6: **Sushasit** — Enhance effectiveness of local government through ICT

Goals >> Targets

Samrudhha	Jeevant	Gatisheel
<ul style="list-style-type: none">• Infrastructure support for agro-based economy.• Regeneration of existing commercial and industrial areas.• Provide skilled workforce in agro-processing, organic farming, IT to enhance employability.	<ul style="list-style-type: none">• Access to clean drinking water• Municipal waste will be treated and disposed scientifically• Every household will be connected to a functional sanitation system• Access to quality health care and education	<ul style="list-style-type: none">• Efficient public transport system• Promote E-Rickshaw, NMT and pedestrian culture• Road network will be re-designed based on traffic movements• Adopt new ICT technologies for traffic management
Sandharniya	Saksham	Sushasit
<ul style="list-style-type: none">• Natural assets like river front, ponds and hillocks will be used as recreational spaces and tourist spots.• Use of renewable energy sources, tree plantation, conserve UG water• Cultural heritage (Sufism, Buddhism, etc) shall be promoted through fairs, and cultural events.	<ul style="list-style-type: none">• Urban poor will have equal access to infrastructure services• Improved street vendors' facilities• Affordable housing with adequate social infrastructure.• Promote Women, children, elderly & differently-abled friendly built spaces	<ul style="list-style-type: none">• ICT based governance system and service delivery for all government departments.• Citizen centric & user friendly e-governance platforms for better coverage and accessibility.• Continuous engagement its citizens in the decision making process

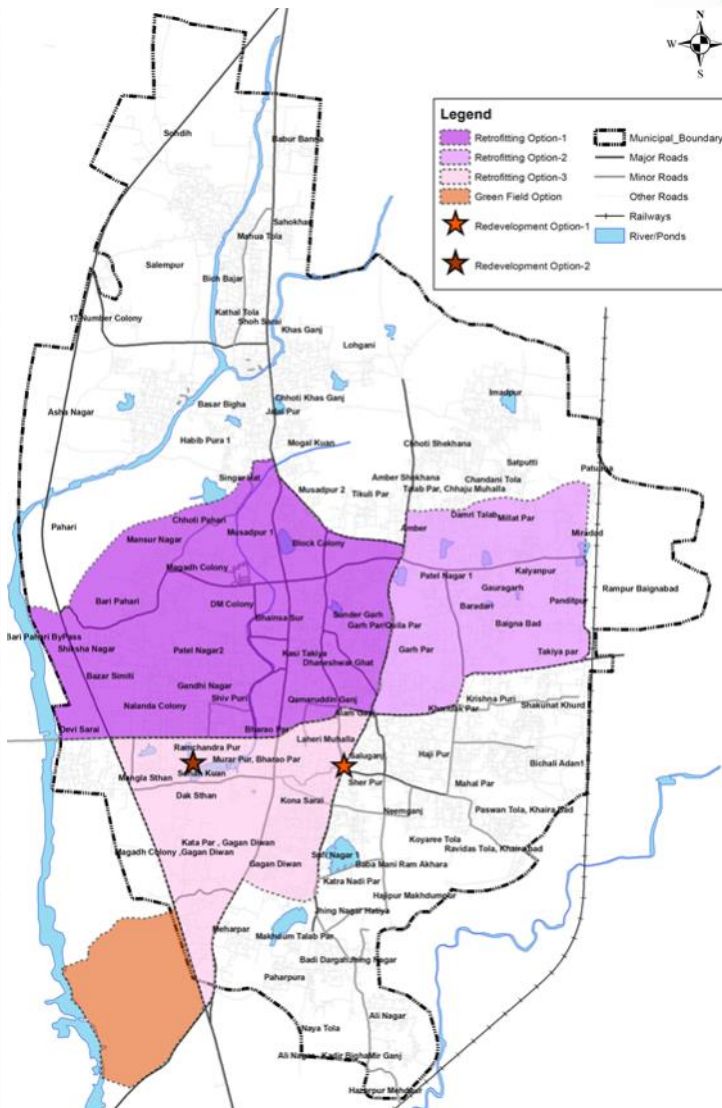
Targets >> Activity Groups (AG1 to AG20) (details in following exhibits)

Delineation of ABD Zone

Map showing potential ABD zones



Exhibit 3.5



Selection Methodology

Area options for model of development based on city profile, technical analysis, inferences from citizen engagement and strategic blueprint — Retrofitting Model (3 options), Redevelopment Model (2 options), Greenfield Model (2 options).



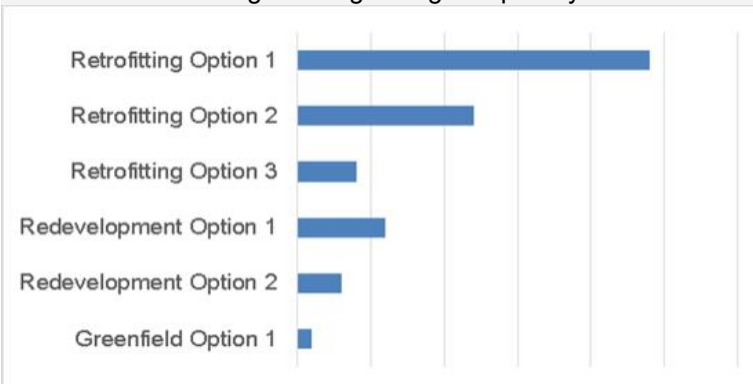
Retrofitting Model of development is shortlisted based on alternative analysis of area options and opinion of various stakeholders like sector experts, government officials and public representatives.



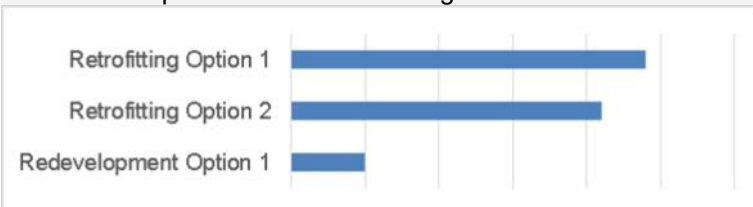
Combined area of Retrofitting option 1&2 of around 1250 acre is shortlisted based upon suggestions and feedback received through opinion poll on MyGov, stakeholder meetings, presentations to government officials and public representatives

Outcome of Citizen Engagement

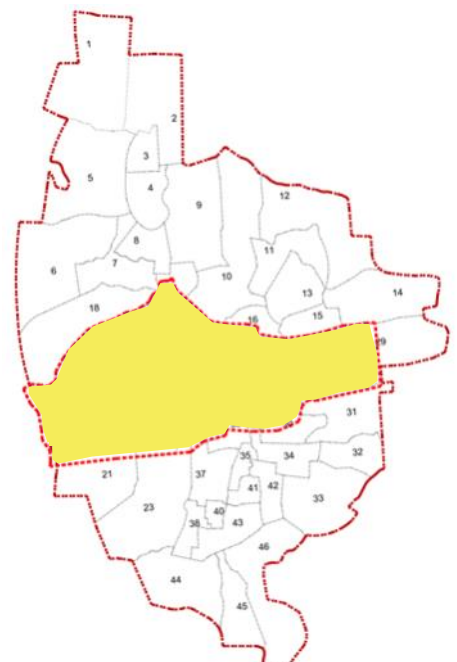
Round II - Retrofitting Model gets highest priority



Round III - Option 1 & 2 of Retrofitting Model is chosen for ABD



Final ABD Area - Ward Map

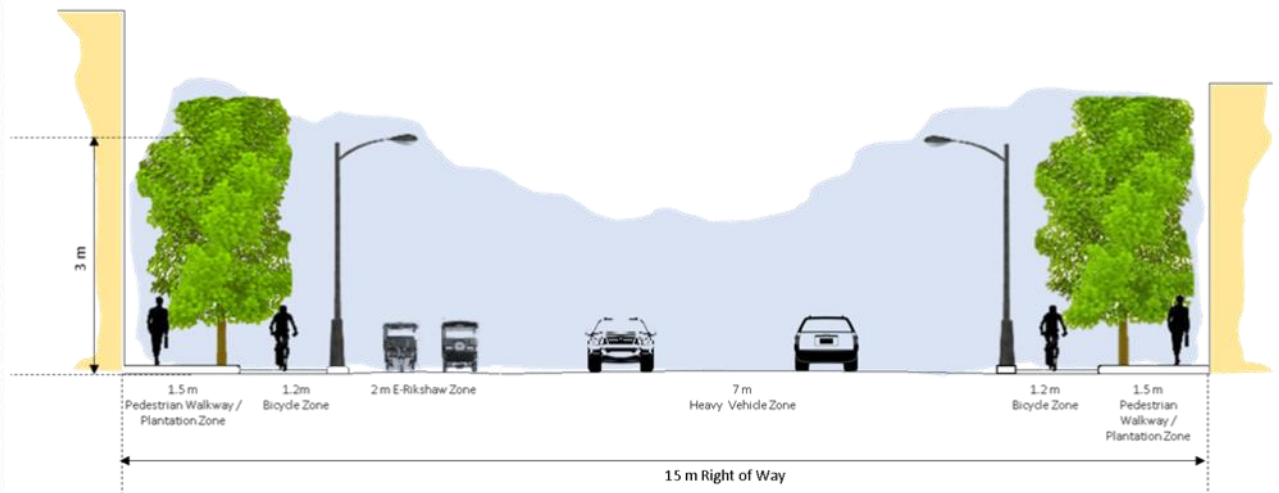




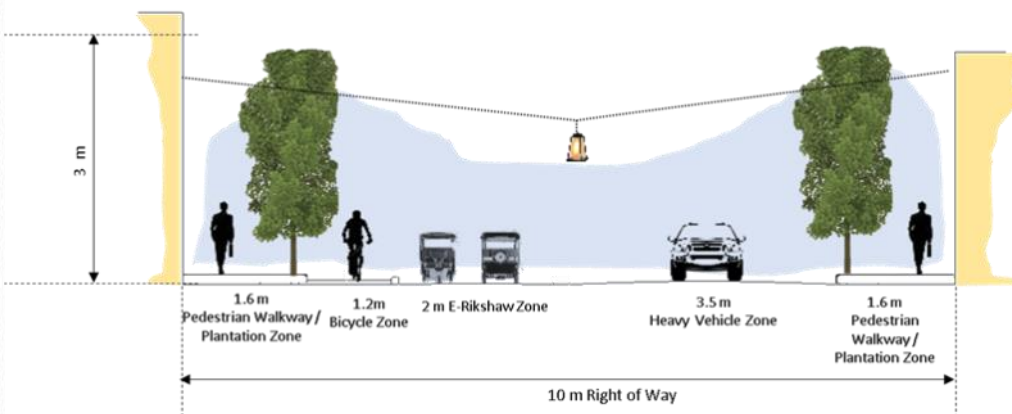
Proposed Cross Sections

Based on survey of various road sections and traffic patterns in the city of Biharsharif, conceptual road and street design cross sections are proposed. These designs are formulated on following criteria:

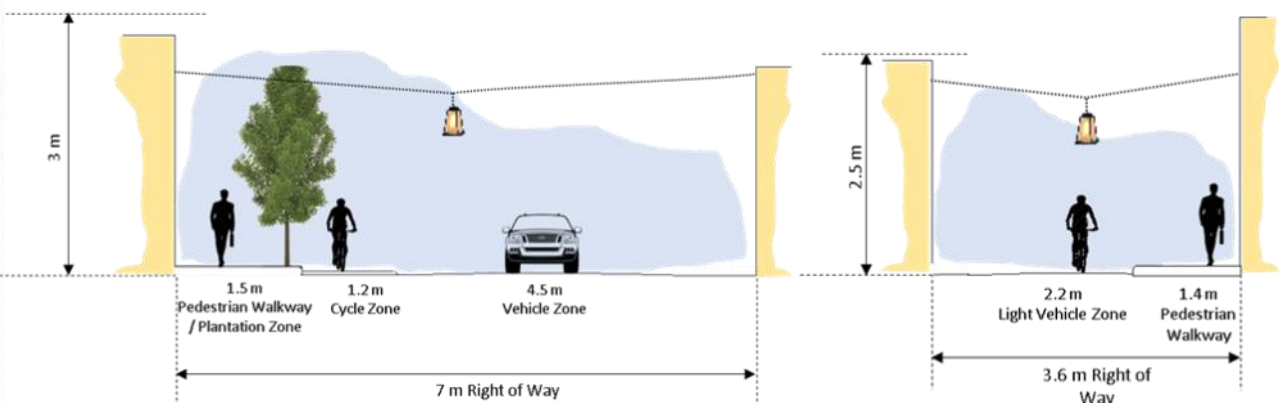
- Flexible designs for different RoWs of existing road network.
- NMT & pedestrian movement be prioritized.
- Promoting e-rickshaw movement.
- Greening of road network.



Cross Section - 15 mtr. RoW



Cross Section - 10 mtr. RoW



Cross Section - 7 mtr. RoW

Cross Section - 3.6 mtr. RoW

Road & Street Design - II

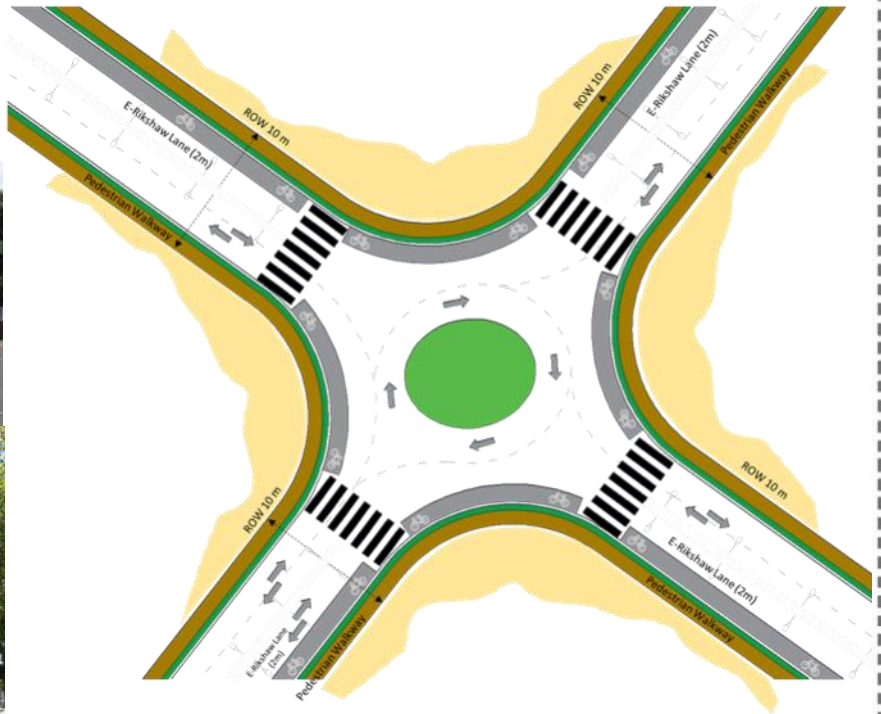


Exhibit 3.11

Proposed Junction Designs

Typical Junction Design - 10 mtr. RoW.

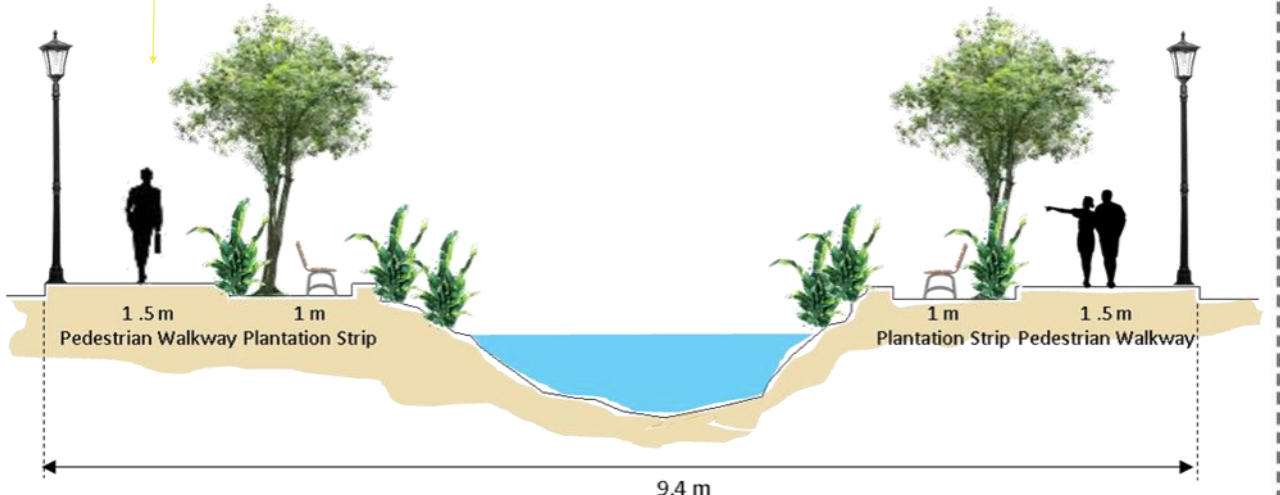
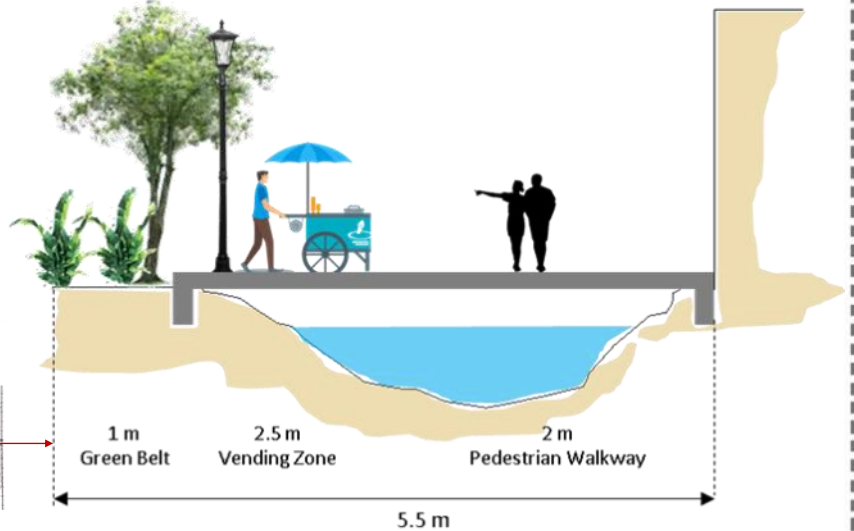
Round-about to show cultural heritage of the city.



Pedestrian Pathway Design

Major *nala* going through ABD zone is proposed to be converted partially as vending zone and partially as green pedestrian pathway.

Conceptual cross-sections are depicted here.



SPV Structure



Exhibit 3.15

Human Resource Constitution



Support Staff - Each department will have team of in house and external support group in the form of PMUs or PMCs

Institutional Arrangement

Constitution—Key Features

Incorporation	Company under Companies Act 2013
Legal Status	Public Sector Company
Promoter—Shareholder	State Government directly or through any State Agency & Biharsharif Nagar Nigam
Other Shareholder	Private Players keeping combine share of State Government and ULB in Majority
Mandatory Holding Pattern	State Government (SG) + BNN = at least 51%. 51% or more will be equally held by SG and BNN
Constitution document	Memorandum of Association and Article of Association will be drafted based on Smart City Guidelines

*Refer Annexure 4 for Details

Organogram for Stakeholder





ACTIVITIES IMPLEMENTATION PLAN																	
Sr. No	Activity	FY 2018-19				FY 2019-20				FY 2020-21				FY 2021-22			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
AREA BASED DEVELOPMENT COMPONENTS																	
Goal-1	Samrudhha — Create conditions for a vibrant economy																
1	Infrastructure for agro-based products			-	-	-	-	-	-	-	-	-	-	-	-		
2	Commercial area development		-	-	-	-	-	-	-	-	-	-	-	-	-		
3	Skill Development	-	-	-	-	-	-	-	-								
Goal-2	Jeevant — Focus on livability – enhance quality of life																
4	24X7 water supply		-	-	-	-	-	-	-	-	-	-	-	-	-		
5	Development of UG sewerage system with SBR-STP					-	-	-	-	-	-	-	-	-	-		
6	Development of UG Storm water drains					-	-	-	-	-	-	-	-	-	-		
7	SWM system	-	-	-	-	-	-										
8	Robust Power Infrastructure									-	-	-	-	-	-		
Goal-3	Gatisheel — Ensure seamless mobility of people and goods																
9	Seamless Public Transport		-	-	-	-	-	-	-	-	-	-	-	-	-		
10	Transport Network Improvement		-	-	-	-	-	-	-	-	-	-	-	-	-		
11	Encourage NMT and pedestrian safety	-	-	-	-	-	-	-	-								
Goal-4	Sandharniya - Conserve natural and cultural heritage																
12	Rejuvenation of Natural Assets		-	-	-	-	-	-	-								
13	Rejuvenation of Built Heritage and Open Spaces		-	-	-	-	-	-	-								
14	Green Initiatives									-	-	-	-	-	-		
Goal-5	Saksham — Empower vulnerable groups for inclusive growth																
15	Alleviation of urban slums		-	-	-	-	-	-	-	-	-	-	-	-	-		
16	Up-grading informal sector					-	-	-	-								
17	Social Infrastructure & Affordable Housing									-	-	-	-	-	-		
PAN CITY INITIATIVES																	
Goal-6	Sushasit — Enhance effectiveness of local government through ICT																
18	Unified City Governance	-	-	-	-	-	-	-	-								
19	Smart Public Transport									-	-	-	-	-	-		
20	Intelligent Solid Waste Management			-	-	-	-	-	-								

QUARTER 1 STARTS FROM 01.04.2018 AND QUARTER 16 ENDS ON 31.03.2022

High Impact Projects

Commercial Area Development
 Smart Public Transport
 Unified City Governance
 Up-grading informal Sector
 Skill Development
 Traffic Network Improvement
 UG Sewerage System & Drainage System

Early Bird Projects

Skill Development
 Rejuvenation of built heritage and open spaces
 Intelligent SWM System
 Rejuvenation of Natural Assets
 Encourage NMT and pedestrian safety
 Green buildings & Pollution Control
 Policy Support & Public Awareness Campaigns



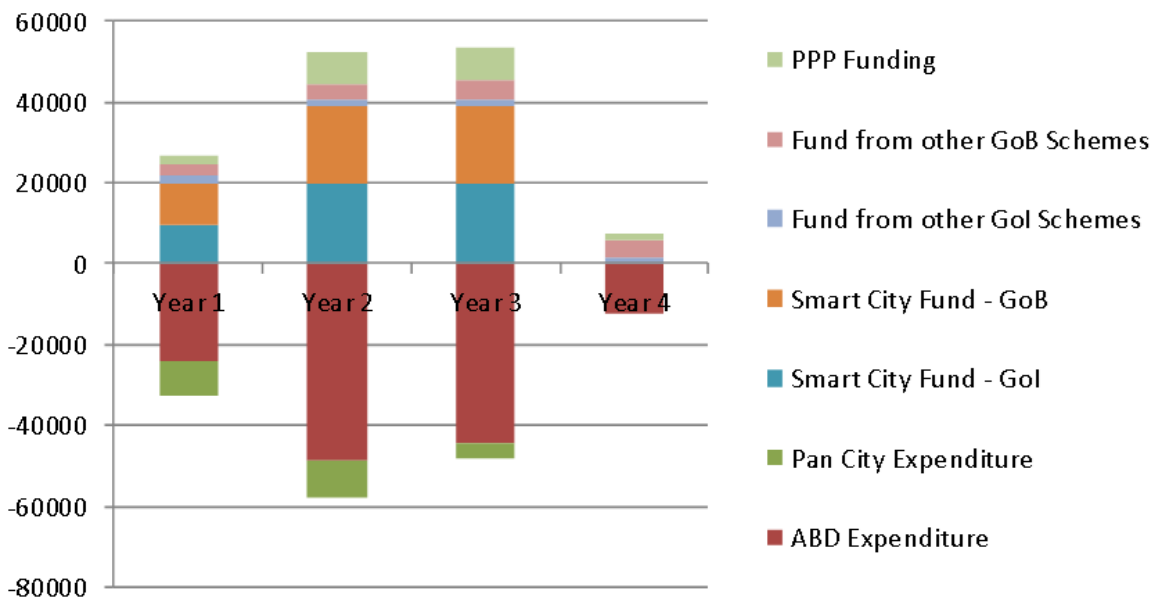
INDICATIVE SMART CITY PROJECT PHASING: COMPONENT WISE					
Sr. No	Activity	Phasing in years with year-wise outlay			
		Year 1	Year 2	Year 3	Year 4
FOR AREA BASED DEVELOPMENT					
Goal-1	Samrudhha — Create conditions for a vibrant economy				
1	Infrastructure for agro-based products	3,090	6,180	6,180	0
2	Commercial area development	2,180	2,907	2,907	2,907
3	Skill Development	975	975	0	0
Goal-2	Jeevant — Focus on livability – enhance quality of life				
4	24X7 water supply	1,086	2,172	2,172	0
5	Development of UG sewerage system with SBR-STP	0	6,767	6,767	0
6	Development of UG Storm water drains	0	3,153	3,153	0
7	SWM system	1,267	634	0	0
8	Robust Power Infrastructure	0	0	2,200	2,200
Goal-3	Gatisheel — Ensure seamless mobility of people and goods				
9	Seamless Public Transport	1,216	1,622	1,622	0
10	Transport Network Improvement	3,819	5,092	5,092	5,092
11	Encourage NMT and pedestrian safety	1,750	1,750	0	0
Goal-4	Sandharniya - Conserve natural and cultural heritage				
12	Rejuvenation of Natural Assets	3,771	5,029	0	0
13	Rejuvenation of Built Heritage and Open Spaces	1,881	2,509	0	0
14	Green Initiatives	0	0	2,025	0
Goal-5	Saksham — Empower vulnerable groups for inclusive growth				
15	Alleviation of urban slums	1,548	3,097	3,097	1,548
16	Up-grading informal sector	0	3,700	0	0
17	Social Infrastructure & Affordable Housing	0	0	6,460	0
	ABD Total	22,585	45,584	41,673	11,747
	A&OE Cost @ 2%	452	912	833	235
	Contingency Cost @5%	1,129	2,279	2,084	587
PAN CITY INITIATIVES					
Goal-6	Sushasit — Enhance effectiveness of local government through ICT				
18	Unified City Governance	7,045	7,045	0	0
19	Smart Public Transport	0	0	3,000	0
20	Intelligent Solid Waste Management	564	1,128	0	0
	Pan City Total	7,609	8,173	3,000	0
	A&OE Cost @ 5%	380	409	150	0
	Contingency @10%	761	817	300	0
	Grand Total	32,916	58,174	48,041	12,569

QUARTER 1 STARTS FROM 01.04.2018 AND QUARTER 20 ENDS ON 31.03.2022



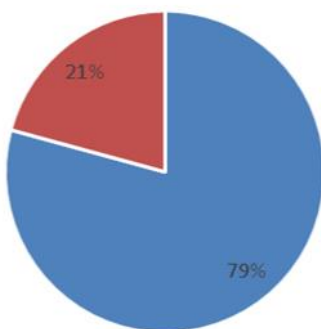
FUND CONVERGENCE FOR THE WHOLE SMART CITY PROPOSAL YEARWISE OF IMPLEMENTATION

Particulars	Year 1	Year 2	Year 3	Year 4	Total Fund
Total Fund Requirement	32916	58174	48041	12569	151700
<i>Fund Release - Year Wise</i>					
Smart City Fund - GoI	9600	19600	19600		48800
Smart City Fund - GoB	9600	19600	19600		48800
Fund from other GoI Schemes	2346	1229	1229	1343	6147
Fund from other GoB Schemes	2691	4012	5058	4187	15948
PPP Funding	2036	8144	8144	2036	20360
ULB Funding	4658	2911	2911	1164	11645
TOTAL FUND RELEASE	30931	55496	56542	8731	151700

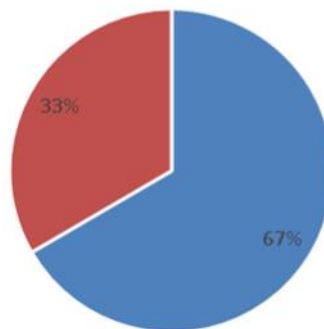


Breakup of Lifetime Cost of ABD & Pan-City Proposal

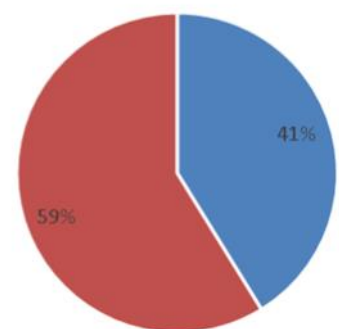
■ Lifetime Cost of ABD Proposal
■ Lifetime Cost of Pan-City Proposal



■ CAPEX of ABD Proposal
■ OPEX of ABD Proposal



■ CAPEX of Pan-City Proposal
■ OPEX of Pan-City Proposal



Total Lifetime Cost of SCP is ~INR 2478 crore.

Financial Plan - IV

Exhibit 3.20

PROJECT SUSTAINABILITY THROUGH COVERAGE OF O&M AND GENERATION OF ADDITIONAL FUNDS FOR FURTHER PROJECT REPLICABILITY IN PHASE WISE MANNER

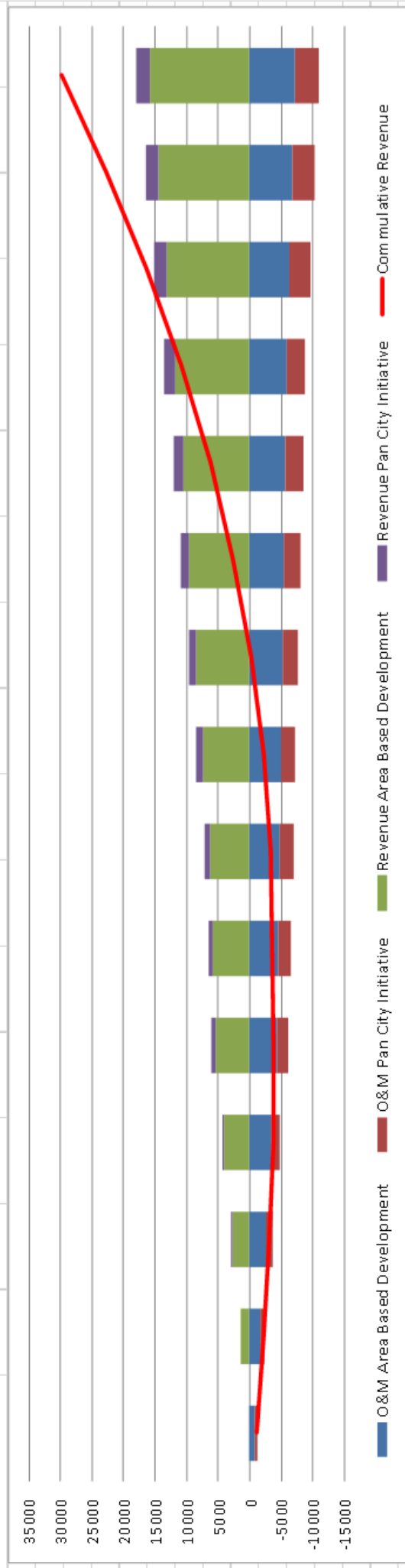
INDICATIVE OPERATIONS AND MAINTENANCE COSTS YEAR WISE OF ALL PROJECT PRECINCT PROPOSED IN SMART CITY PROPOSAL (All figures in Rs . Lacs)

Particulars	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Total
Area Based Development	863	1726	2589	3452	4315	4530	4746	4962	5177	5264	5360	5436	5523	5609	5695	65235
Pan City Initiative	353	707	1060	1413	1767	1943	2120	2296	2473	2561	2650	2738	2826	2915	3003	30825
Total	1216	2432	3649	4865	6081	6473	6866	7258	7651	7825	8000	8174	8349	8524	8698	96061

INDICATIVE REVENUE ESTIMATION FROM ALL PROJECT PRECINCT PROPOSED IN SMART CITY PROPOSAL (All figures in Rs . Lacs)

Area Based Development	1323	2646	3969	5293	5822	6351	7410	8468	9527	10585	11644	12702	13761	14819	114321	
Pan City Initiative		144	361	722	794	866	1010	1155	1299	1443	1624	1804	1984	2165	15370	
Total	1323	2791	4330	6014	6616	7217	8420	9623	10826	12029	13267	14506	15745	16984	129891	
O&M requirement over Revenue. O&M cost to be recovered mainly from BMC own internal resources / GoB funds	1216	1109	868	535	67											
Revenue Generation above O&M expenditure					142	351	1162	1972	3001	4029	5093	6157	7222	8286		

O&M cost to be recovered mainly from MMC own internal resources / FFP w.r.t. each component



ANNEXURE 4

(Supporting documents, such as government orders, council resolutions, response to Question 33 may be annexed here)

S. No	Particulars	✓
1	Minutes of Meeting of High Powered Steering Committee, Smart Cities in Bihar - Dated 28 November 2017	<input checked="" type="checkbox"/>
2	Resolution of Biharsharif Municipal Board approving SPV and SCP including Financial Plan - Dated 25 November 2017	<input checked="" type="checkbox"/>
3	Proceedings, Municipal Empowered Committee Meeting, Biharsharif Municipal Corporation approving SPV and SCP including Financial Plan - Dated 24 November 2017	<input checked="" type="checkbox"/>
4	Agreement/s with Para Statal Bodies, Boards existing in the City for implementing the full scope of the SCP and sustaining the pan-city and area-based developments.	<input checked="" type="checkbox"/>
5	Institutional arrangement for operationalisation of the SPV	<input checked="" type="checkbox"/>
6	Preliminary human resource plan for the SPV (Organisational Structure)	<input checked="" type="checkbox"/>
7	Supporting Documents : Draft MoA & AoA for Biharsharif Smart City Limited	<input checked="" type="checkbox"/>
8	MoU of Government of Bihar with EESL	<input checked="" type="checkbox"/>
9	Contract of Biharsharif Municipal Corporation with EESL	<input checked="" type="checkbox"/>
10	Supporting Documents : Convergence AMRUT Scheme of GoI, 'Saat Nischay' programme of GoB	<input checked="" type="checkbox"/>
11	Supporting Documents : Partnership with private companies (Bharati Airtel)	<input checked="" type="checkbox"/>
12	Supporting Documents : Letter of associations with Civil bodies in Biharsharif	<input checked="" type="checkbox"/>
13		<input type="checkbox"/>
14		<input type="checkbox"/>
15		<input type="checkbox"/>
16		<input type="checkbox"/>
17		<input type="checkbox"/>
18		<input type="checkbox"/>
19		<input type="checkbox"/>
20		<input type="checkbox"/>

SMART CITIES IN BIHAR
BIHARSHARIF SMART CITY PROPOSAL
MEETING OF HIGH POWERED STEERING COMMITTEE
MINUTES OF MEETING
28 NOVEMBER 2017

A Meeting of the High Powered Steering Committee constituted for guidance to the Smart Cities Mission in Bihar under the Chairmanship of Shri Anjani Kumar Singh, Chief Secretary, Government of Bihar was held on 28 November 2017 to discuss the Agenda as placed by the Principal Secretary, Urban Development and Housing Department.

The key decisions taken were as follows:

Agenda Number	Agenda Items	Decision taken
Agenda 1/1	Key differences in Round IV proposal vis-à-vis Round III proposal for Biharsharif	<p>Biharsharif Municipal Corporation is re-submitting their proposal for consideration in Round IV of the Smart City Mission. The key differences in this new proposal compared to that submitted for consideration in Round III is summarised as below.</p> <ol style="list-style-type: none"> 1. Improvement of City Profile <ul style="list-style-type: none"> • Refinement & updation of city profile, SWOT Analysis. • Re-alignment of Strategic Blueprint, Vision and Goals as per city profile and results of citizen engagement. 2. Increase in extent of Citizen Engagement <ul style="list-style-type: none"> • Fresh citizen engagement for Round IV proposal. • Approximately 1.5 Lac touch points (~ 45% of city population) compared to 1.1 Lac in Round III. • Over 1 Lac responses received on MyGov Platform due to extensive efforts for MyGov awareness. 3. Strengthening of ABD Proposal <ul style="list-style-type: none"> • Increase in ABD area from 958 acres in Round III to 1250 acres in Round IV. Modification of area based on results of fresh citizen engagement and discussion with government stakeholders. • Strengthening of ABD Proposal along with implementation plan, financial plan and supporting annexures. • Increase in ABD Proposal cost estimate from Rs. 1100.44 crores in Round III to Rs. 1301 crore in this new proposal. 4. Strengthening of Pan-City Proposal <ul style="list-style-type: none"> • Re-alignment of pan-city initiatives with city profile and fresh citizen engagement. • Strengthening of Pan-City Proposal along with implementation plan, financial plan and supporting annexures.

		<ul style="list-style-type: none"> Increase in Pan-City Proposal cost estimate from Rs. 138.08 crores in Round III to Rs. 216 crore in this new proposal. <p>This was noted by the HPSC</p>								
Agenda 1/2	Presentation on Salient Features of the Bihar Sharif Smart City Proposal	<ul style="list-style-type: none"> The proposal has been prepared on the basis of extensive citizen consultations through online and off line modes with an approximate outreach of 1.5 Lacs. The aspirations of citizens of Bihar Sharif is transformed into a Vision - "By 2027, Bihar Sharif aspires to become leading processing and trading hub of agro-based products; and one of the most liveable cities in the state, taking pride in nurturing its natural and cultural heritage" The proposal has 2 elements as follows: <ol style="list-style-type: none"> Area Based Development: Rs. 1301 crores <ul style="list-style-type: none"> Retrofit cum redevelopment of around 1250 acres of area in the heart of the city, encompassing its major economic, transit and administrative centers. Also area includes cultural heritage and eco-sensitive areas. The area has mixed land-use; has government land that has been leveraged; comprehensive ABD proposal for replication in other parts of the city. <p>Key components of proposed interventions are included in Annexure 1.</p> Pan City Proposal: Rs. 216 crores <p>Three interventions proposed:</p> <ul style="list-style-type: none"> Unified City Governance Smart Public Transport Intelligent Solid Waste Management System <p>Key components of proposed interventions are included in Annexure 1.</p> <p>Total cost of Proposal: Rs. 1517 crores. The details of the funding sources are as follows:</p> <table border="1"> <tr> <td>Smart City Fund, Government of India</td> <td>Rs. 488.00 crores</td> </tr> <tr> <td>Smart City Fund, Government of Bihar</td> <td>Rs. 488.00 crores</td> </tr> <tr> <td>Convergence of Government of India Schemes and Government of Bihar Schemes and ULB own sources</td> <td>Rs. 337.40 crores</td> </tr> <tr> <td>PPP Funding</td> <td>Rs. 203.60 crores</td> </tr> </table> <p>This was noted by HPSC.</p>	Smart City Fund, Government of India	Rs. 488.00 crores	Smart City Fund, Government of Bihar	Rs. 488.00 crores	Convergence of Government of India Schemes and Government of Bihar Schemes and ULB own sources	Rs. 337.40 crores	PPP Funding	Rs. 203.60 crores
Smart City Fund, Government of India	Rs. 488.00 crores									
Smart City Fund, Government of Bihar	Rs. 488.00 crores									
Convergence of Government of India Schemes and Government of Bihar Schemes and ULB own sources	Rs. 337.40 crores									
PPP Funding	Rs. 203.60 crores									
Agenda 1/3	Proposed SPV for implementation of Bihar Sharif Smart City Proposal	<ul style="list-style-type: none"> An SPV is to be formed for execution of projects under the Smart Cities Proposal, as per the Mission Guidelines. The SPV will be established as a 'limited company' under the Indian Companies Act 2013. The authorized capital of the company will be Rs. 400 crores and paid up capital Rs. 10 lakhs in 50:50 ratio from GoB and Bihar Sharif Municipal Corporation. Majority shareholding and control will be with the state and ULB 								

		<p>at all times.</p> <ul style="list-style-type: none"> The composition of Board of the SPV is as follows <table border="1"> <tr> <td>Divisional Commissioner, Patna Commissionerate</td> <td>Chairman</td> </tr> <tr> <td>Municipal Commissioner, Biharsharif Municipal Corporation</td> <td>Managing Director</td> </tr> <tr> <td>Representative of MoUD, GoI</td> <td>Director</td> </tr> <tr> <td>Representative of UDHD, GoB</td> <td>Director</td> </tr> <tr> <td>Representative of Finance Dept., GoB</td> <td>Director</td> </tr> <tr> <td>Managing Director, BUIDCo</td> <td>Director</td> </tr> <tr> <td>District Magistrate, Biharsharif</td> <td>Director</td> </tr> <tr> <td>Mayor, Biharsharif Municipal Corporation</td> <td>Director</td> </tr> <tr> <td>Independent Directors</td> <td>2</td> </tr> </table> <p>This was noted by the HPSC</p>	Divisional Commissioner, Patna Commissionerate	Chairman	Municipal Commissioner, Biharsharif Municipal Corporation	Managing Director	Representative of MoUD, GoI	Director	Representative of UDHD, GoB	Director	Representative of Finance Dept., GoB	Director	Managing Director, BUIDCo	Director	District Magistrate, Biharsharif	Director	Mayor, Biharsharif Municipal Corporation	Director	Independent Directors	2
Divisional Commissioner, Patna Commissionerate	Chairman																			
Municipal Commissioner, Biharsharif Municipal Corporation	Managing Director																			
Representative of MoUD, GoI	Director																			
Representative of UDHD, GoB	Director																			
Representative of Finance Dept., GoB	Director																			
Managing Director, BUIDCo	Director																			
District Magistrate, Biharsharif	Director																			
Mayor, Biharsharif Municipal Corporation	Director																			
Independent Directors	2																			
Agenda 1/4	Recommendations to Ministry of Urban Development, Government of India	<p>The HPSC recommended that the Smart City Proposal for Biharsharif be forwarded to MoUD. Following approval, steps will be taken to operationalize the SPV and facilitate implementation through inter-departmental coordination.</p>																		

Meeting ended with a vote of Thanks to the Chair.

Date:

[Signature]
28/11/2017

Shri Chaitanya Prasad
Principal Secretary
Urban Development & Housing Department
Government of Bihar

Place: Patna

[Signature]
28/11/17
Shri Anjani Kumar Singh
Chief Secretary
Government of Bihar

ANNEXURE 1

DETAILS OF PROPOSED AREA BASED DEVELOPMENT AND PAN-CITY PROPOSALS

	KEY COMPONENTS	ESTIMATED COST (Rs. Crores)
A	AREA BASED DEVELOPMENT PROPOSAL: Rs. 1301 crores	
1	Samrudhha — Create conditions for vibrant agro-based economy <ul style="list-style-type: none"> ▪ Infrastructure for agro-based products ▪ Commercial area development ▪ Skill development 	283.00
2	Jeevant — Focus on livability, enhance quality of life <ul style="list-style-type: none"> ▪ 24x7 Water Supply ▪ UG Sewerage Network ▪ UG Storm Water Drainage ▪ SWM System ▪ Power Infrastructure 	315.69
3	Gatisheel — Ensure seamless mobility of people and goods <ul style="list-style-type: none"> ▪ Seamless public transport ▪ Transport network improvement ▪ Encourage NMT and pedestrian safety 	270.55
4	Sandhamiya — Preserve natural and cultural heritage <ul style="list-style-type: none"> ▪ Rejuvenation of natural heritage ▪ Green initiatives ▪ Rejuvenation of open spaces and built heritage 	152.15
5	Saksham — Empower vulnerable groups for inclusive growth <ul style="list-style-type: none"> ▪ Alleviation of urban slums ▪ Up-gradation of informal sector ▪ Social infrastructure 	194.50
	Contingency + Administrative & Office Expenses	85.11
B	PAN-CITY PROPOSAL: Rs. 216 crores	
6	Sushasit — Enhance effectiveness of local government through ICT <ul style="list-style-type: none"> ▪ Unified City Governance ▪ Smart Public Transport ▪ Intelligent Solid Waste Management 	140.90
		30.00
		16.93
	Contingency + Administrative & Office Expenses	28.17

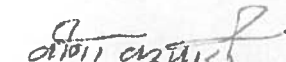
Office of the Bihar Sharif Municipal Corporation.

Letter no: 3880 /


Date: 25-11-17

Resolution of the municipal Corporation for Setting up Special Purpose Vehicle

In exercise of the resolution passed by and authorization conferred upon us by Municipal Board of Bihar Sharif Municipal Corporation, hereby resolve for approval of the **Smart City Plan** including the financial plan prepared and the Special purpose Vehicle (SPV) set up for implementation of the same, for submission to the Chairman, High Power Steering Committee (HPSC) of the State of Bihar for Smart City Mission, for necessary action at their end.


(Veena Kumari)

Mayor
Bihar Sharif Municipal Corporation


(Saurav Jorwal, IAS)

Municipal Commissioner
Bihar Sharif Municipal Corporation.

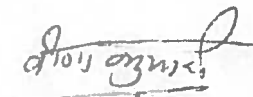
कार्यालय, बिहारशरीफ नगर निगम, नालन्दा

दिनांक-24-11-2017 को समय 11.00 बजे पूर्वाह्न में माननीया महापौर श्रीमती वीणा कुमारी की अध्यक्षता में बिहारशरीफ नगर निगम की बोर्ड की बैठक आयोजित की गई जिसमें निम्नलिखित सदस्य उपस्थित हुए :-

उपस्थित -

1. श्रीमती वीणा कुमारी	महापौर
2. डा० सुनील कुमार	विधानसभा सदस्य
3. श्रीमती रीना देवी	विधान पार्षद
4. श्री दिलीप कुमार	स०स०स०सदस्य
5. श्री रंजय कुमार वर्मा	स०स०स०सदस्य
6. श्री रमेश कुमार	स०स०स०सदस्य
7. श्री प्रदुमन कुमार	स०स०स०सदस्य
8. श्री नारायण यादव	स०स०स०सदस्य
9. मो० जमील अख्तर	स०स०स०सदस्य
10. श्रीमती सुनीता कुमारी	वार्ड पार्षद
11. श्रीमती आरती कुमार	वार्ड पार्षद
12. श्री प्रमोद कुमार	वार्ड पार्षद
13. श्रीमती कुसुम सिंह	वार्ड पार्षद
14. श्रीमती रिकी देवी	वार्ड पार्षद
15. श्री सुशील कुमार	वार्ड पार्षद
16. श्रीमती गुलशन आरा	वार्ड पार्षद
17. श्रीमती गजाला प्रवीण	वार्ड पार्षद
18. श्रीमती भार्मीली प्रवीण	वार्ड पार्षद
19. मो० अशरफ अली खॉ	वार्ड पार्षद
20. श्रीमती सविता देवी	वार्ड पार्षद
21. श्रीमती नुजहत रहमान	वार्ड पार्षद
22. श्रीमती पुष्पा देवी	वार्ड पार्षद
23. श्रीमती नेहा भार्मा	वार्ड पार्षद
24. श्री संतोश कुमार	वार्ड पार्षद
25. श्री अमरनाथ कुमार	वार्ड पार्षद
26. श्रीमती प्रवीला देवी	वार्ड पार्षद
27. श्रीमती रीना महतो	वार्ड पार्षद
28. श्रीमती श्रुति कुमारी	वार्ड पार्षद
29. श्रीमती सुशीला देवी	वार्ड पार्षद
30. श्री नीरज कुमार	वार्ड पार्षद
31. मो० अमीर खुसरू	वार्ड पार्षद
32. श्री लालजीत पासवान	वार्ड पार्षद
33. श्रीमती नीलम गुप्ता	वार्ड पार्षद
34. श्री कपिलदेव प्रसाद	वार्ड पार्षद
35. श्री नीरज कुमार	वार्ड पार्षद
36. श्रीमती उशा देवी	वार्ड पार्षद
37. श्रीमती रोस्रसाना खातुन	वार्ड पार्षद
38. श्री राजगेहरा प्रसाद	वार्ड पार्षद
39. श्रीमती भाहदा खातुन	वार्ड पार्षद
40. मो० वकिल खॉ	वार्ड पार्षद

सर्वप्रथम माननीया महापौर -सह- अध्यक्ष के द्वारा बैठक में उपस्थित माननीय विधान सभा सदस्य डा० सुनील कुमार, माननीय विधानपार्षद श्रीमती रीना देवी, सभी माननीय सभी सशक्त स्थाई समिति सदस्य, सभी माननीय वार्ड पार्षद गण, श्रीमान् नगर आयुक्त एवं अन्य उपस्थित पदाधिकारी/कर्मचारियों का स्वागत किया गया। तत्पश्चात् नगर आयुक्त, महोदय को बैठक की कार्यावाही आरंभ करने हेतु निदेश दिया गया।


24/11/17

निदेशानुसार नगर आयुक्त बिहारशरीफ द्वारा सभी उपस्थित सदस्यों का स्वागत किया गया एवं बैठक की कार्यसूची को सभी सदस्यों के समक्ष रखा गया। कार्यसूची के अनुसार बैठक में किये गए विचार विमर्श एवं लिए गए निर्णय निम्न है -

1. स्मार्ट सिटी चयन के चौथे राउंड के लिए बिहारशरीफ के प्रपोजल पारित करने के संबंध में-
नगर आयुक्त, महोदय द्वारा स्मार्ट सिटी चयन के चौथे राउंड के लिए बिहारशरीफ के प्रपोजल को सभा के पटल पर प्रस्तुत करके माननीय सदस्यों को अपना सुझाव देने का अनुरोध किया गया। सदस्यों द्वारा निम्न सुझाव दिए गए-
 - > माननीय विधान सभा सदस्य डा० सुनील कुमार द्वारा कहा गया कि नगर में बहुत सी सरकारी जमीन खाली पड़ी हुई है उन्हें विहित कर नागरिक सुविधा केंद्र बनाने के प्रस्ताव को प्रपोजल में डालने का सुझाव दिया गया।
 - > माननीय सशक्त स्थायी समिति सदस्य श्री प्रदुमन कुमार द्वारा सुझाव दिया गया कि नालन्दा पहले से ही शिक्षा का केन्द्र रहा है, इसलिए शिक्षण संस्था के विकास को प्रस्ताव में डालना चाहिए।
 - > माननीय सदस्य श्री राजमेहरा प्रसाद द्वारा कहा गया कि ठोस कचरा प्रबंधन को स्थान दिया जाय।
 - > माननीय सशक्त स्थायी समिति सदस्य श्री दिलीप कुमार द्वारा कहा गया कि वार्ड सं०-23 में साई पैलेस के पीछे 07 एकड़ जमीन पानी से सालो भरा रहती है, जल निकासी को प्रस्ताव में स्थान मिलना चाहिए है।
 - > माननीय विधान सभा सदस्य डा० सुनील कुमार एवं माननीय विधान पार्श्व श्रीमती रीना देवी द्वारा कहा गया कि नगर को जल्द से जल्द ODF करना इसे स्मार्ट सिटी बनाने के लिए आवश्यक है।

नगर आयुक्त, महोदय द्वारा माननीय सदस्यों को बताया गया कि सभी सदस्यों के अधिकांश सुझाव जैसे ठोस कचरा प्रबंधन, जल निकासी, नागरिक सुविधा केंद्र, राज्य एवं केंद्र सरकार की पूर्व से चली आ रही योजनाओं जैसे SBM के साथ कन्वर्जन इत्यादि को प्रस्ताव में सम्मिलित किया गया है। स्मार्ट सिटी में चयन के बाद SPV के माध्यम से शहर के विकास के लिए निरंतर प्रयास किये जायेंगे।

सम्यक विचारोंपरांत माननीय सदस्यों द्वारा सर्वसम्मति से स्मार्ट सिटी चयन के चौथे राउंड के लिए बिहारशरीफ के प्रपोजल को पारित किया गया एवं 30 नवम्बर 2017 को नगर आयुक्त के माध्यम से भारत सरकार को समर्पित करने का निर्णय लिया गया।

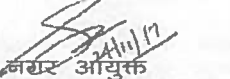
अंत में माननीय महापौर द्वारा धन्यवाद ज्ञापन के उपरांत बैठक की समाप्ति की घोषणा की गई।

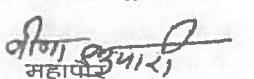

नगर आयुक्त
बिहारशरीफ नगर निगम


महापौर
बिहारशरीफ नगर निगम

ज्ञापांक.....3877.....दिनांक.....24-11-17.....

- प्रतिलिपि - माननीय सांसद, नालन्दा/ माननीय नगर विधायक डा० सुनील कुमार/ माननीय विधान पार्श्व श्री हीरा बिन्द एवं माननीय विधान परिषद् श्रीमती रीना यादव को सूचनार्थ प्रेषित।
प्रतिलिपि - कार्यपालक अभियंता, इंडा बिहारशरीफ/ कार्यपालक अभियंता लोक स्वास्थ्य अभियंत्रण, बिहारशरीफ/ कार्यपालक अभियंता विद्युत आपूर्ति शहरी क्षेत्र बिहारशरीफ/ जिला शिक्षा पदाधिकारी, नालन्दा/ बाल विकास परियोजना पदाधिकारी बिहारशरीफ/ सिविल सर्जन, नालन्दा को सूचनार्थ एवं आवश्यक कार्यार्थ प्रेषित।
प्रतिलिपि - नगर प्रबंधक एवं प्रधान सहायक एवं कोषपाल एवं सभी संबंधित कर्मों को सूचनार्थ एवं आवश्यक कार्यार्थ प्रेषित।
प्रतिलिपि - सभी माननीय वार्ड पार्श्व को सूचनार्थ प्रेषित।
प्रतिलिपि - माननीय महापौर एवं माननीय उप महापौर को सूचनार्थ प्रेषित।
प्रतिलिपि - जिला पदाधिकारी, नालन्दा / आरक्षी अधीक्षक, नालन्दा को सादर सूचनार्थ।
प्रतिलिपि - प्रधान सचिव, नगर विकास एवं आवास विभाग, बिहार, पटना को सादर सूचनार्थ।


नगर आयुक्त
बिहारशरीफ नगर निगम


महापौर
बिहारशरीफ नगर निगम

DANAPUR DIVISION
EAST CENTRAL RAILWAY

No. DRM/DNR/RPT/Engg/17
Dated: 21.11.17

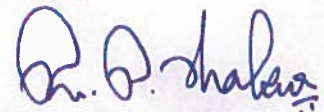
To

Municipal Commissioner,
Biharsharif Nagar Nigam,
Biharsharif, Nalanda.

Sub: Collaboration on Area Based Development projects under Biharsharif Smart City Proposal
Ref: Your letter No. 3712 dt 17/11/2017

With reference to your above referred letter, the projects identified under Smart City Mission of Biharsharif pertaining to Railways can be considered for execution as per the guidelines of Railway Board in line with MOU to be signed as per the extant provisions in the matter & approval of Railway Board on use of Railway land in line with the extant rules on land licensing and development. All the terms and conditions w.r.t. implementation of projects identified in Smart City Proposal concerned to Railways shall be finalized on the basis of a definitive agreement at a later date with the approval of competent authority. The projects will be jointly executed by Biharsharif Smart City SPV and Railways, subject to approval of Smart City Proposal by Ministry of Housing & Urban Affairs, Government of India.

With regards,



Divisional Railway Manager
Danapur Railway Division,
Danapur, Bihar

Copy:

Special Secretary, UDHD, Govt. of Bihar

Nodal Officer, Smart City Mission & Dy. Secretary, UDHD, GOB

Office of the Executive Engineer
Road Construction Department, Road Division, Bihar Sharif (Nalanda)
Hospital More, Bihar Sharif-803101
Telephone + Fax -06112-235279
E-mail Address-eercdbiharsharif@gmail.com

Letter No:- 1843

Date:- 21/11/17

To

Municipal Commissioner
Bihar Sharif Nagar Nigam
Bihar Sharif, Bihar

Sub: Letter of Association regarding partnering Bihar Sharif Smart City SPV under Smart Cities Mission for promotion, planning and implementation of the Smart City Proposal for the city of Bihar Sharif.

Dear Sir,

We understand that Bihar Sharif is one of the candidate cities for Smart Cities Mission from the state of Bihar and is participating in the 4th Round of Selection by submitting its Smart City Proposal. Bihar Sharif Nagar Nigam is the nodal agency for smart city project and it shall be forming a Special Purpose Vehicle (SPV) with the State Government for planning, designing, financing, implementation, operation and maintenance of Smart City Projects.

In view of above context, we intend to collaborate with SPV for planning, designing, financing, implementation, operation and maintenance of proposed Smart City Projects in Bihar Sharif under Smart City Mission of Government of India.

All the terms and conditions w.r.t. implementation of projects identified in Smart City Proposal concerned to department shall be finalized on the basis of a definitive agreement at a later date.

With regards,


Signature & Stamp
Executive Engineer
Road Construction Department
Road Division, Bihar Sharif

Name Md. Alam Hussain
Designation Executive Engineer
Department Road Construction Department
Contact No- 9470001280

DISTRICT PUBLIC RELATION OFFICE, NALANDA
SUCHNA BHAWAN, COLLECTORATE, BIHARSHARIF

Letter No :- 317

Date :- 20/11/2017

To

Municipal Commissioner
Bihar Sharif Nagar Nigam
Bihar Sharif, Bihar

Sub: Letter of Association regarding partnering Bihar Sharif Smart City SPV under Smart Cities Mission for promotion, planning and implementation of the Smart City Proposal for the city of Bihar Sharif.

Dear Sir,

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All the terms and conditions w.r.t. implementation of projects identified in Smart City Proposal concerned to department shall be finalized on the basis of a definitive agreement at a later date.

With regards,


Signature & Stamp
DPRO.
NALANDA

Name **LAL BABOO SINGH.**

Designation

Department **DPRO.**

9199658255

Office of The Executive Engineer DUDA, Nalanda.

E-mail :- eedudanalanda@gmail.com

Letter no. 1669...../

From,

**Executive Engineer,
DUDA, Nalanda.**

To,

**Municipal Commissioner
Bihar Sharif Nagar Nigam
Bihar Sharif, Bihar**

Biharsharif, Dated 21/11...../2017

Sub :

Letter of Association regarding partnering Bihar Sharif Smart City SPV under Smart Cities Mission for promotion, planning and implementation of the Smart City Proposal for the city of Bihar Sharif.

Dear Sir,

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All the terms and conditions w.r.t. implementation of projects identified in Smart City Proposal concerned to department shall be finalized on the basis of a definitive agreement at a later date.

Your Faithfully,


21/11/17
**Executive Engineer
DUDA, Nalanda**



South Bihar Power Distribution Co. Ltd, Patna Bihar

Registered Office: Vidyut Bhawan, Bailey Road, Patna-21

A Govt. of Bihar undertaking

ELECTRIC SUPPLY DIVISION BIHARSHARIF CIN No. U40109BR2012SGC018890

L No. 2185 /

Dated 21/11/2017.

To

**Municipal Commissioner
Bihar Sharif Nagar Nigam
Bihar Sharif, Bihar**

Sub: Letter of Association regarding partnering Bihar Sharif Smart City SPV under Smart Cities Mission for promotion, planning and implementation of the Smart City Proposal for the city of Bihar Sharif.

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We understand that Bihar Sharif is one of the candidate cities for Smart Cities Mission from the state of Bihar and is participating in the 4th Round of Selection by submitting its Smart City Proposal. Bihar Sharif Nagar Nigam is the nodal agency for smart city project and it shall be forming a Special Purpose Vehicle (SPV) with the State Government for planning, designing, financing, implementation, operation and maintenance of Smart City Projects.

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All the terms and conditions w.r.t. implementation of projects identified in Smart City Proposal concerned to department shall be finalized on the basis of a definitive agreement at a later date.

Yours faithfully


Signature & Stamp
Electrical Executive Engineer
Electric Supply Division
Biharsharif

Name: - Sri Indradeo Kumar

Designation:-Electrical Executive Engineer

Department:-Electricity Department

Contact No: - 7763814228

South Bihar Power Distribution Co. Ltd, Vidyut Bhawan, Bailey Road, Patna-21

Email ID- mdl.sbpdc@gmail.com; Ph. No. 0612-2504045; Fax No. 0612-2504532.

Institutional arrangement for operationalisation of the SPV

Constitution—Key Features	
Incorporation	Company under Companies Act 2013
Legal Status	Public Sector Company
Promoter—Shareholder	State Government directly or through any State Agency & Biharsharif Nagar Nigam
Other Shareholder	Private Players keeping combine share of State Government and ULB in Majority
Mandatory Holding Pattern	State Government (SG) + BNN = at least 51%. 51% or more will be equally held by SG and BNN
Constitution document	Memorandum of Association and Article of Association will be drafted based on Smart City Guidelines

Governance Structure – Biharsharif Smart City Project	
Strategic Plan	Managed by SPV
	Supervised by BMC
	Approved by Directorate of Municipal Administration
Project Development, Structuring, Procurement, and Monitoring	Managed by CEO-SPV
	Supervised by MD-SPV
	Approved by Board Meeting of SPV
Execution of Project	Managed by BMC with support of in house working group of SPV
	Supervised by CEO-SPV
	Approved by MD-SPV

Preliminary human resource plan for the SPV (Organisational Structure)

Human Resource Constitution	
Positions in SPV	Designation
1. Chairperson	Divisional Commissioner (Patna Division)
2. Managing Director	Municipal Commissioner BMC
3. Chief Executive Officer	a. IAS/Professional Hired-MBA/Urban Planner/Engineer having atleast 10 yrs. of experience. b. Candidates with prior working experience in any Government organisations will be preferred.
4. Directors	Six Functional Directors (Full Time), Two Independent Directors (On Rotation)
5. Support Staff	Team of in-house and external support group in the form of PMUs or PMCs

One Position out of 6 Positions for Functional Director will be reserved for Women (As per sec 149 of The Companies Act 2013)

Human Resource Constitution	
Departments	Functions
D1-Innovation Department	<ul style="list-style-type: none"> • Preliminary scrutiny of Innovative project proposals for admissibility of projects under aproved policy: • Preliminary scrutiny of project proposals covering areas of Redevelopment , Retrofitting, Greenfield or any area other than covered above. • Forward feasible proposals to D2
D2-Expansion Department	<ul style="list-style-type: none"> • Carry out Procurement process for feaasible proposals of D1.
D3-Funding Department	<ul style="list-style-type: none"> • Fund Mobilization from different sources including market borrowings • Funding of infrastructure development projects by providing loans/Grants to ULBs/Para Statal Bodies and other Statutory Bodies • Portion of Revenue of Projects will be escrowed in favour of SPV so that it can be used to fund other projects like Revolving Fund • Managing recovery of loans given to ULBs and other bodies • Manage repayment of loans raised from Markets
D4-Implementation and Monitoring Department	<ul style="list-style-type: none"> • Perform accounting and internal control including enforcement functions.

INCORPORATED UNDER THE COMPANIES ACT, 2013 (NO. 18 OF 2013)

COMPANY LIMITED BY SHARES

DRAFT MEMORANDUM OF ASSOCIATION

OF

BIHARSHARIF SMART CITY LIMITED

**(A PUBLIC LIMITED GOVERNMENT COMPANY WITHIN THE MEANING OF
SECTION 2(45) OF THE COMPANIES ACT, 2013)**

- I. The name of the Company is **Biharsharif Smart City Limited**.
- II. The registered office of the Company will be situated in the State of **Bihar**.
- III. The objects for which the Company is established are:-

(A) THE OBJECTS TO BE PURSUED BY THE COMPANY ON ITS INCORPORATION ARE:

1. To plan, appraise, approve, release funds, implement, manage, operate, monitor, promote and develop Biharsharif city as a Smart City under the Smart City Mission of the Government of India.
2. To execute the smart City Development projects through joint ventures, subsidiaries, public-private-partnership (PPP), turnkey contracts etc.
3. To drive economic growth and improve the quality of life of people of Biharsharif city and surroundings by enabling local area development through the concepts of Retrofitting / Redevelopment / Pan city development as provided in the Smart City Mission guidelines, mixed land use development, new areas (green field) development.
4. To design and implement smart solutions in the city
5. To take up and implement any other activity in the promotion and development of Biharsharif city as a smart city.

(B) MATTERS WHICH ARE NECESSARY FOR FURTHERANCE OF THE OBJECTS SPECIFIED IN CLAUSE III

(A) ARE:—

- I. To enter into contracts, agreements and arrangements with any other company, firm or person for the carrying out by such other company, firm or person of the objects for which the company is formed.

2. To employ experts to investigate and examine into the condition, prospective value, character and circumstances of any business concern or undertaking and generally of any assets, property or rights.
3. To nominate directors or managers of any subsidiary company or of any other company in which this company is or may be interested and for such purpose remunerate any directors, trustees, accountants or other experts or agents with prior approval of the State Government.
4. To amalgamate, enter into any partnership or partially amalgamate with or acquire the whole or any part of the business, property and liabilities of, or acquire any interest in the business or undertaking of, or enter into partnership or any arrangement for sharing profits or losses, or for any union of interest, joint ownership, joint venture, reciprocal concession or co-operation with any person, association of persons, firm or company, carrying on or engaged in or about to carry on or engage in business or transaction, which the company is or may be authorized to carry on or for mutual assistance, with any such person, association, firm or company with prior approval of the State Government.
5. To establish or promote or concur in establishing or promoting any company or companies having similar object for the purpose of acquiring all or any of the property, rights and liabilities of the company or for any other purpose and to place or guarantee the placing of, underwrite, subscribe for or otherwise, acquire all or any part of the shares, debentures or other securities of any such other company with prior approval of the State Government.
6. To enter into any arrangement with any government or authority, supreme, municipal, local or otherwise, or any person or company that may seem conducive to the company's objects or any of them and to obtain from any such government, authority person or company any rights, privileges, charters, contracts, licenses and concessions which the company may think fit and desirable to obtain and to carry out, exercise and comply with.
7. To apply for, promote and obtain any act, charter, privilege, concession, license or authorization of any government, state or municipality, provisional order or license or any authority for enabling the company to carry any of its objects into effect or for extending any of the powers of the company or for effecting any modification of the Company's constitution or for any other purpose which may seem expedient and to oppose any proceedings or applications which may seem calculated, directly or indirectly, to prejudice the Company's interests.
8. To own, establish, or have and maintain branches and agencies all over India and elsewhere, for serving its customers and for servicing its business.

9. To subscribe, contribute or guarantee money for any general or useful object or funds or political parties or institutions and association, body or movement having for an object the solution, settlement or surmounting of industrial or labor problems.
10. For all or any other purposes of the company to draw, make, accept, endorse, discount, execute, issue, negotiate and sell bills of exchange, promissory notes, bill of lading, warrants, debentures and other negotiable instruments with or without security and also to draw and endorse promissory notes and negotiate the same and also take and receive advances by discounting on such terms and conditions as the company deems fit and also to advance any sum or sums of monies upon materials or other goods or any other things of the company upon such terms and securities as the company may deem expedient with prior approval of the State Government.
11. To acquire by concession, grant, purchase, barter, lease, license or otherwise, either absolutely or conditionally and either alone or jointly with others, any movable or immovable property of any description and any patents, trademarks, concessions, privileges and other rights for the objects and business of the Company and to construct, maintain and alter any buildings or works necessary or convenient for the purposes of the company and to pay for lands, buildings, works, property or rights or any other property and rights purchased or acquired by or for the company, shares, debentures, debenture-stocks, bonds or other securities of the company or otherwise and to manage, develop, sell, let on lease or for hire or otherwise dispose of or turn to account the same at such time or times and in such manner and for such consideration as may be deemed proper or expedient.
12. To sell, exchange or lease the whole or any part of the land or other immovable property for the time being belonging to the Company and to take back the same on lease or re-purchase for such price or prices and on such terms and conditions as may be agreed upon with prior approval of the State Government.
13. To enter into partnership or into any arrangements for sharing profits, amalgamation, union of interest, reciprocal concession or co-operation with any person, partnership or company having similar objects and to promote and aid in promoting or constituting companies or partnerships having similar objects of all kinds for the purpose of acquiring and undertaking any property and liabilities of the Company and also to pay for any properties, rights or privileges acquired by this Company either in shares of the Company or partly in shares and partly in cash or otherwise and to give shares or stock of this company in exchange for shares or stock of any other

company with prior approval of the State Government.

14. To sell, mortgage or otherwise to deal with or dispose off the property, assets or undertaking of the company or any part thereof, for such consideration as the company may think fit and in particular for shares, stocks, debentures and other securities of any other company having objects altogether or in part similar to those of the company with prior approval of the State Government.
15. To purchase or otherwise acquire and undertake the whole or any part of the goodwill, interest in the business, concern, contracts, agreements, undertaking, property, rights, privileges, effects, assets and liabilities of any person, firm, association, society, company or corporation carrying on any business or having ceased to carry on, which the company is authorized to carry on, to pay for the same by shares or debentures of this company or by cash or otherwise, or partly in one way and partly in another or others, and to conduct, expand and develop or wind-up and liquidate such business and to purchase and take steps for the acquisition of existing and new licenses in connection with any such business.
16. To borrow or raise money by way of loans or otherwise or secure the payment of money by the issue, sale of debentures, debenture stock, bonds, obligations, mortgages and securities of all kinds, either perpetual or terminable and either redeemable or otherwise and to charge or secure the same by trust deed or otherwise on the undertaking of the Company or upon any specific property and rights, present and future of the Company or otherwise, howsoever with prior approval of the State Government.
17. To levy and collect interest, fees, commission, commitment, service and other charges for the loans and advances granted by the Company, or for its financial or other assistance or in respect of indemnities, licenses, permissions, guarantees or counter-guarantees given by it or the services rendered by the Company to other persons.
18. To receive, raise, mobilize, accept required funds for the implementing, operating and maintaining the Bihar Sharif Smart City from State Government, Central Government, ULBs, Capital market, Financial Institutions, Joint venture partners, PPP partners etc with the exception of funds received from the Central Government, State Government and ULBs, prior approval of the State Government will be required in all other instances.
19. To levy and collect user charges, consumption charges, cess, impositions, taxes etc. for the services provided to the citizens of the smart city with prior approval of the State Government.
20. To hold immovable and movable properties of every description other than agricultural and

charged to the Company as security for any financial assistance granted by it, in whatever form and to sell or otherwise dispose of or deal with such properties for the purpose of realizing the amounts due to the Company in respect of such financial assistance or as the directors of the Company may think fit.

21. To pay all the costs, charges and expenses of and incidental to the promotion, formation, registration and establishment of any company and issue of its capital.
22. To remunerate any person, firm, company or association of persons for services rendered or to be rendered to, or on behalf of the company.
23. To refer or agree to refer any claims, demands, dispute or any other question by or against the Company or in which the Company is interested or concerned, and whether between the Company and the members of the Company and/or his representatives or between the Company and the third parties to arbitration and to observe and perform and do all acts, matters and things to carry out or enforce the awards.
24. To apply for and take out, purchase by way of license or otherwise any patents, patent rights or inventions, trademark rights, copyrights of secret processes or technical aid or know-how which may be useful for the Company's objects and to grant licenses to use the same.
25. To give to any officers, servants or employees of the Company any shares of interest in the profits of the Company's business or any branch thereof, and whether carried on by means of or through the agency of any subsidiary company or not, and for that purpose to enter into any arrangements as the Company may think fit with prior approval of the State Government.
26. The company may at anytime, invite and receive or without any such invitation receive any gifts or immovable or movable property and offerings or voluntary donations or bequests and legacies either from the shareholder or from any other person for all or any of the objects of the company with or without any special conditions provided that such receipts or the conditions attached are not inconsistent with or derogatory to any of the objects of the company. Subject to any such conditions as aforesaid, all such gifts, donations, grants, offerings, legacies and bequests including lands, buildings and other immovable properties shall be treated as forming parts of the property of the company and may be applied accordingly. The Directors shall in their absolute discretion be entitled to decide whether they shall be at liberty to refuse any of them without giving any reason whatsoever for such refusal.
27. To open current, demat or other accounts with any banks or merchants, to pay money into and

draw money from such accounts and to draw, make, accept, endorse, discount, execute and issue bills of exchange, promissory notes, bills of lading, warrants, debentures and other negotiable or transferable instruments or securities.

28. To aid pecuniary or otherwise any association or body having objects of the solution, settlement, surmounting of economic, industrial, agricultural or labor problems or troubles or the promotion of industry, trade and agriculture.
29. To enter into all types of internal or external foreign collaborations, license arrangements, technical assistance, financial or commercial arrangements including the survey of market for export and to survey market conditions in India and outside, for the fulfillment of any objects herein contained.
30. To manage, sell and realize any property which may come into the possession of the Company in satisfaction or part satisfaction of any of its claims for sale of properties in its possession, prior approval of the State Government is required.
31. To establish and maintain or procure the establishment and maintenance of any contributory or non-contributory pension or superannuation funds for the benefit of any persons who are or were at any time in the employment or service of the company, or of any company which is a subsidiary of the company.
32. To arrange Seminars, Workshops, Guest Lectures in India and abroad for training and capacity building activities in the fields of Smart City, Urban Management, Smart Solutions, Management, Information and Technology, Engineering, Scientific, Commercial, Financial, Legal, Secretarial and other nature.
33. Subject to the provisions of Section 73 and other relevant sections of the Companies Act 2013 and rules made there under and Directives of Reserve Bank of India to receive money on deposit with or without allowances or interest, to borrow or raise money with or without security and/or secure the payment of money by mortgage or by the issue of bond mortgages, hypothecation, lien or any other security founded or based or charged upon all or any of the property or rights of the company or in such other manner as the company shall think fit and for the purposes aforesaid to charge all or any of the Company's property or assets movable or immovable liquid or otherwise present secure and securities of the company by a trust deed or other assurance and redeem, purchase or pay off any such security, provided that the company shall not do banking business as defined in the Banking Regulations Act, 1949. This will require prior approval of State Government.

- IV. The liability of the members is limited and this liability is limited to the amount unpaid, if any, on the shares held by them.
- V. The Authorized Capital of the Company is Rs. 4,000,000,000/- (Rupees Four hundred crores) divided into 40,000,000 (Four crore) equity shares of Rs. 100/-(Rupees One Hundred) each with the rights, privileges and conditions attached thereto as provided by the regulations of the company for the time being in force and with power to increase and reduce the capital of the company and to divide the shares in the capital for the time being into several classes and to attach there to respectively such preferential rights, privileges or conditions of the company and to vary, modify, or abrogate any such rights, privileges or conditions in such manner as may for the time being be provided by the regulations of the company.

We the several persons whose names and addresses are subscribed are desirous of being formed into a company in pursuance of this Memorandum of Association, and we respectively agree to take the number of shares in the capital of the Company set against our respective names, for and on behalf of the Governor of Bihar / ULB:

Names, Addresses, Occupations and Fathers name of Subscribers	Number of shares taken by each subscriber	Subscriber's Signature	Photograph
..... S/o			
..... S/o			
..... S/o			

..... S/o			
Total			

Dated:

THE COMPANIES ACT, 2013
(COMPANY LIMITED BY SHARES)

DRAFT ARTICLES OF ASSOCIATION OF BIHARSHARIF SMART CITY LIMITED
(A PUBLIC LIMITED GOVERNMENT COMPANY WITHIN THE MEANING OF SECTION
2(45) OF THE COMPANIES ACT, 2013)

Table F shall not Apply

- (1) The Regulations contained in "Table F" of Schedule I to the Companies Act, 2013 shall not apply to the company, except in so far as the same are repeated or expressly made applicable in these articles or by the said Act.
- (2) These regulations for the management of the Company and for the observance by the members thereto and their representatives shall be subject to deletions, alterations or additions made pursuant to the statutory powers under the Companies Act, 2013 from time to time
- (3) The Company is a Public Company within the meaning of Section 2(71) of the Companies Act, 2013, limited by shares, and is and shall remain to be the Government company as long as not less than fifty-one (51) percent of the paid-up share capital in the company is held either by the Central Government or one or more State Government or Governments or partly by Central Government and partly by one or more State Governments, whether directly or indirectly.
- (4) The Company is a Government Company within the meaning of Section 2(45) of the Companies Act, 2013 and all the exemptions, privileges, rights, obligations, restrictions applicable to a government company under the Companies Act, 2013 and any rules, regulations, notifications made under the said Act or any modifications thereof shall also apply to this Company notwithstanding anything contained in these Articles of Association unless exclusively or specifically prohibited or restricted under these Articles of Association or by Special Resolution passed by the shareholders of the company in the General Meeting, whether Annual or Extra-ordinary.

Exemptions to Government Companies

Exemption available to Government Companies under Companies Act, 2013 shall have overriding effect over the Articles of Association of the Company.

1. INTERPRETATION

In the interpretation of these Articles, the following expressions shall have the following meanings unless repugnant to or inconsistent with the subject or context

- i. **"The Company" or "this Company" means Biharsharif Smart City Limited;**
- ii. **"Act"** means the Companies Act, 2013 and shall include any statutory modification or re-enactment thereof, from time to time;
- iii. **"Applicable Law"** means any statute, law, regulation, ordinance, rule, judgment, order, decree, bye-law, approval from any Competent Authority, directive, guideline, policy, requirement, or other government restriction or any similar form of decision, or determination by, or any interpretation or administration having the force of law of any of the foregoing, by any Competent Authority having jurisdiction over the matter in question, whether in effect or at any time thereafter;
- iv. **"Articles" or "Articles of Association"** means these Articles of Association of the Company, as amended from time to time;
- v. **"Auditor"** means Auditor appointed under Section 139 of the Companies Act 2013;
- vi. **"Board of Director" or "Board"** means the collective body of the directors of the company;
- vii. **"Board Meeting"** means a meeting of the Board at which a Quorum is present;
- viii. **"Business Day"** means any day on which banks are open for business in the State Government;
- ix. **"Central Government" or "Union Government" or "Government of India (GOI)"** means Ministry of Urban Development (MOUD), Government of India;
- x. **"Chairperson"** means the chairperson of the Board as appointed under the provision of these Articles of Association;
- xi. **"Executive Director"** means the executive director of the Board as appointed under the provision of these Articles of Association;
- xii. **"Chief Executive Officer"** means executive officer as defined under Section 2(18) of the Companies Act 2013;
- xiii. **"Circular Resolution"** means resolution within the meaning of section 175 of Companies Act 2013;

- xiv. **"Director"** means the Director appointed or nominated to the Board of the Company.
- xv. **"Employees"** means the employee of the Company;
- xvi. **"Employees Stock Option"** means employees stock options as defined under Companies Act 2013.
- xvii. **"Extraordinary General Meeting"** means an Extra Ordinary General meeting of the members held in accordance with the provisions of section 100 or other related provisions of the Act;
- xviii. **"Financial Year"** has the meaning assigned to it pursuant to the provisions of section 2(41) of the Act;
- xix. **"General Meeting"** means a meeting of the Members;
- xx. **"Government Authority"** or **"Regulatory Authority"** means any court, tribunal, arbitrator, statutory or regulatory authority, agency, commission, official or other instrumentality of India or any other country as applicable;
- xxi. **"Grants"** means funds given by the Central Government or the State Government or the State Government Undertaking to the Company to be utilized for the specific purpose as prescribed;
- xxii. **"In Writing"** and **"Written"** include printing, lithography and other modes of representing or reproducing words in a visible form;
- xxiii. **"Independent Director"** means Independent director as defined under Section 149(6) of the Companies Act 2013;
- xxiv. **"Losses"** includes any and all damages, fines, fees, penalties, deficiencies, losses and expenses (including without limitation interest, court costs, fees of legal counsel accountants and other experts or other expenses of litigation or other proceedings or of any claim, default or assessment);
- xxv. **"Member"** means member under Section 2(55) of Companies Act 2013;
- xxvi. **"Memorandum of Association"** means the Memorandum of Association of the Company as amended from time to time.

- xxvii. **“Month”** means calendar month;
- xxviii. **“Municipal Act”** means Bihar Municipal Act, 2007 as amended from time to time;
- xxix. **“New Securities”** shall have the meaning as set out in these presents;
- xxx. **“Office”** means the registered office for the time being of the Company;
- xxxi. **“Ordinary Resolution”** and **“Special Resolution”** shall have meanings assigned thereto by Section 114 of the Act;
- xxxii. **“Paid-up Capital”** in relation to the Share Capital of the Company means the amount credited as paid up in respect of Shares, which are subscribed, issued and allotted;
- xxxiii. **“Proxy”** is an instrument whereby any person is authorized to vote for a member at a general meeting on poll;
- xxxiv. **“Quorum”** means a quorum for a Board Meeting, a quorum for a meeting of committee of the Board or a quorum for a General Meeting as prescribed in the Act and as provided herein;
- xxxv. **“Registrar of Companies”** means the Registrar of companies, under whose jurisdiction registered office of the company is for the time being situated;
- xxxvi. **“Register of Member”** means the Register of Members to be kept pursuant to the Act, and the Register and index of beneficial owner maintained by the depository under Depositories Act, 1996;
- xxxvii. **“Seal”** means the common seal of the Company;
- xxxviii. **“SEBI”** means the Securities and Exchange Board of India;
- xxxix. **“Secretary”** means Secretary as defined under Section 2(24) of Companies Act 2013;
- xl. **“Securities”** means shares or any warrants, bonds, debentures, preference shares or debt instruments or other securities which are convertible into or exchangeable for Shares or any equity-linked securities or options or rights entitling the holder to subscribe to or acquire Shares, and includes hybrids;
- xli. **“Shares” or “a share”** means share in the capital of the Company, whether held in tangible or fungible form and includes stock except where a distinction between stock and shares is expressed or implied.

- xlii. **“State Government”** means Government of Bihar;
- xliii. **“Urban Local Body”** means Bihar Sharif Municipal Corporation;
- xliv. **“DMA”** means Directorate of Municipal Administration, Bihar
- xliv. **“BUIDCO”** means Bihar Urban Infrastructure Development Corporation Limited;

The marginal notes used in these articles shall not affect the construction or interpretation thereof. Unless the context otherwise requires, the words or expressions contained in these articles shall bear the same meaning as in the Act. The Word importing the masculine gender shall include the feminine gender. Words importing the singular number only, include the plural number and vice versa.

2. KEY FUNCTIONS AND RESPONSIBILITIES OF THE COMPANY

The Company will plan, implement, manage and operate the Smart City Development projects. The key functions and responsibilities of the Company will include:

- i) Approve and sanction the projects including their technical appraisal.
- ii) Execute the Smart City Proposal with complete operational freedom.
- iii) Take measures to comply with the requirements of the MoUD/other Ministries/Departments of the Government of India/State Government Rules and regulations, local laws etc. for implementation of the Smart Cities Mission.
- iv) Mobilize resources within timelines with prior approval of the State Government.
- v) Approve and act upon the reports of a third party Review and Monitoring Agency.
- vi) Oversee capacity building activities.
- vii) Develop and benefit from inter linkages of academic institutions and organizations.
- viii) Ensure timely completion of projects according to set timelines.
- ix) Undertake review of activities of the Mission including budget, implementation of projects, preparation of Smart City Proposal (SCP) and co-ordination with other missions/schemes and activities of various Ministries/Departments.
- x) Monitor and review quality control related matters and act upon issues arising thereof.
- xi) Incorporation of joint ventures and subsidiaries and enter into Public Private Partnerships including with foreign entities as may be required for the implementation of the Smart Cities Mission with prior approval of the State Government.
- xii) Enter into contracts, partnerships and service delivery arrangements with Indian as well as foreign firms, as may be required for the implementation of the Smart Cities Mission with prior approval of the State Government.
- xiii) Determine and collect user charges as authorized by the ULB with prior approval of the State Government.

- xiv) Collect taxes, surcharges etc. as authorized by the ULB with prior approval of the State Government.
- xv) Any other functions as delegated by the Central Government/State Government/ULB within the scope of Smart Cities Mission.

3. EXERCISE OF DELEGATED POWERS

The Company will exercise the following powers delegated by the State Government and ULB subject to extent and as provided under the Municipal Act;

- i. The rights and obligations of the municipal body with respect to the smart city projects;
- ii. Decision making powers available to the ULB under the Municipal Act/ Government Rules by the Chief Executive Officer/Commissioner;
- iii. Approval or decision making powers available to the Urban Development & Housing Department/Directorate of Municipal Administration by the Board of Directors of the Company.

4. SHARE CAPITAL

4.1 Authorized Share Capital

- a) The authorized Share Capital of the Company shall be such amount as stated in clause V of the Memorandum of Association of the Company including amendments thereto if any.
- b) The minimum paid up capital of the company shall be Rs. 10,00,000 (Rupees ten lakhs).
- c) The authorized Share Capital may be divided into several classes attaching thereto any preferential rights, privileges or conditions, which could be altered, reclassified or increased from time to time, in accordance with the terms hereof and legislative provisions for the time being in force in this behalf.
- d) State Government or State Government Undertaking and ULB will contribute in equal proportion to equity shareholding and their combined shareholding will always be in majority in total equity of the Company.

4.2 Power to issue Preference Shares

The Company shall have the power to issue preference shares with prior approval of the State Government subject to the provisions of the Act and a special resolution authorizing such issue, which shall prescribe the manner, terms and conditions of redemption and conversion, if any.

4.3 Issue of shares for consideration other than cash

Subject to these Articles and the provisions of the Act and with prior approval of the State Government, the Board may issue and allot shares in the capital of the Company as payment or in consideration or as part payment or in part consideration of the purchase or acquisition of any property or for service rendered to the Company in the conduct of its business, and such shares shall become debt due to and recoverable by the Company from the allottees thereof and shall be paid by them accordingly.

4.4 Restriction on purchase of Company's shares

Notwithstanding anything contained in these articles but subject to the provisions of sections 67 to 70 and any other applicable provisions of the Act of any other law for the time being in force, the company may purchase its own shares or securities or giving loans for purchase of such shares with prior approval of the State Government.

4.5 Issue and Allotment of Shares

Save as aforesaid and subject to these presents, the shares, whether forming part of the original capital or of any increased capital of the Company, shall be issued and allotted to such persons on such terms and conditions and, either at a premium or at par and at such times as the Board of Directors may think fit, but subject to the provisions of the Act, provided that the option or right to call of shares shall not be given to any person or persons without the sanction of the Company in General Meeting.

4.6 Call Money on shares to be duly paid

If, by the conditions of allotment of any share, the whole or part of the amount or issue price thereof, shall be payable by calls, every such installment shall, when due, be paid to the Company by the persons, who, for the time being and from time to time, shall be the registered holder of the share.

4.7 Liability of Joint-holders

The joint holders of a share shall be, severally as well as jointly, liable for the payment of all installments and calls due in respect of such shares.

4.8 Shares to be numbered progressively and no shares to be sub-divided

The shares in the capital shall be numbered progressively according to their several denominations, and except in the manner herein mentioned, no share shall be subdivided.

4.9 Acceptance of shares

Any application signed by the applicant for shares in the Company, followed by an allotment of any share therein, shall be an acceptance of shares within the meaning of these presents; and every person who, thus or otherwise, accepts any shares and whose name is on the Register of members shall, for the purpose of these presents, be a Member.

4.10 Liability of Members

Every member or his heirs, executors, administrators shall pay to the Company the portion of the capital represented by his share or shares which may, for the time being remain unpaid thereon, in such amounts, at such time or times and in such manner as the Board of Directors shall, from time to time, require or fix for the payment thereof.

4.11 Trust not recognized

Except, as ordered by a Court of competent jurisdiction or as provided by the Act, no notice of any trust, express, implied or constructive shall be entered on the Register of Members or of Debenture holders of the Company.

5. RAISING AND UTILIZATION OF FUNDS

5.1 The Company may raise additional finance to the extent permitted by law including but not limited to by means of (a) loans and subsidies, (b) by way of deposits; (c) User Charges, Taxes, Surcharges (d) Grants by State Government, State Government Undertaking and Central Government, (e) debentures and bonds however, prior approval of the State Government will be required. Such additional funds may be utilized by the Company for such purpose that the Board deems fit.

5.2 Funds given by Central Government to the Company will be in the shape of tied grants. These funds given by the Central Government as "Tied Grants" will be kept in a separate Grant Fund. The Grant Fund will be utilized only for the purposes as given in the Mission Statement and Guidelines and subject to conditions as laid down by the Central Government or the State Government or the State Government Undertaking in this regard.

5.3 The ULB may through the State Government request MoUD to permit utilization of Government of India grants as ULB's equity contribution in the Company subject to the following conditions:

- a) The State Government or the State Government Undertaking has made adequate contribution to the Company out of its own funds.
- b) The approval will be limited to the initial GOI grants that have already been released.

Since future installments of Smart City grants are subject to performance and are not guaranteed, the ULB will not be permitted to earmark future installments to meet its equity contribution.

- c) The utilization of GOI grants as equity contribution will not alter the relative shareholding of the State Government and the ULB as per mission guidelines.
- d) The GOI contribution to Smart Cities is strictly in the form of grant and the ULB will be exercising its own discretion in utilizing these funds as its equity contribution to the Company.

6. SHARE CERTIFICATES

6.1 Certificates- how to be issued

The certificate of title to shares shall be issued under the Seal of the Company and shall bear the signature of any person or persons authorized by the Board in that behalf. The Company shall within two months {section 56 (4)(b) of Companies Act 2013} after the allotment of shares, complete delivery of the certificates of shares allotted. The Director may sign a share certificate by affixing his signature thereon by means of any machine equipment or other mechanical means such as engraving in metal or lithography. Notwithstanding anything contained in this Article, the certificates of title to shares may be executed and issued in accordance with such other revisions of the Act or the Rules made thereunder, as may be in force for the time being and from time to time.

6.2 Member's right to Certificate

Every member shall be entitled, free of charges, to one certificate for all the shares registered in his name. And the particulars of every share certificate issued shall be entered in the Register of Members against the name of the person, to whom it has been issued, indicating the date of issue(s). Every certificate of shares shall specify the number and the denoting number/numbers of the shares in respect of which it was issued and the amount paid up thereon. For each further certificate, the Directors shall be entitled, but shall not be bound, to prescribe a charge not exceeding one rupee. The Company shall comply with the provisions of Section 56 of the Act.

6.3 Fractional Certificate

The Company may issue such fractional certificates as the Board of Directors may approve in respect of any of the shares of the Company, on such terms as the Board of Director thinks fit, as to the period within which the fractional certificates are to be converted into share certificates.

6.4 Issue of new Certificate in place of defaced, lost or destroyed

- (i) If any certificate be worn out or defaced or torn or otherwise mutilated or there is no further space on the back thereof for endorsement of transfer, then upon production thereof to the Board of Directors, they may order the same to be cancelled and may issue a new certificate in lieu thereof; and if any certificate be lost or destroyed, then, upon proof thereof to the satisfaction of the Board of Directors and on such indemnity as the Board deems adequate being given and the payment of out-of-pocket expenses incurred by the Company and upon such advertisement being published as the Board may require, a new certificate in lieu thereof shall be given to the party entitled to such lost or destroyed certificate. Such sum not exceeding two Rupees as the Board of Directors may from time to time prescribe shall be, paid to the Company for every certificate issued under this Article, provided that no fee shall be charged for issue of new certificates in replacement of those which are old, decrepit or worn out or where the pages on the reverse for recording transfers have been fully utilized. When a new share certificate has been issued in pursuance, it shall state on the face of it and against the stub or counterfoil to the effect that it is "duplicate" issued in lieu of share certificate No.____." The word "Duplicate" shall be stamped or punched in bold letters across the face of the share certificate. Where a new share certificate has been issued in pursuance of this Article, particulars of every such share certificate shall be entered in a Register of Renewed and Duplicate Certificates indicating against the names of the persons to whom the certificate is issued, the number and date of issue of the share certificate in lieu of which the new certificate is issued and the necessary changes indicated in the Register of Members by suitable cross reference in the "Remarks" column.
- (ii) All blank forms to be used for issue of share certificates shall be printed and the printing shall be done only on the authority of a resolution of the Board. The blank forms shall be consecutively machine-numbered and the forms and the blocks engravings, facsimiles and hues relating to the printing of such forms shall be kept in the safe custody of the Secretary or of such other person as the Board may appoint for the purpose; and the Secretary or the other person aforesaid shall be responsible for rendering an account of these forms to the Board.
- (iii) Chief Executive Officer of the Company for the time being or, if the Company has no Chief Executive Officer, every Director of the Company shall be responsible for the maintenance, preservation and safe custody of all books and documents relating to the issue of share certificates except the blank forms of share certificate (refer to Article 4 and 6).

6.5 Issue of Certificate to Joint-holders

The certificate of shares registered in the names of two or more persons shall be delivered to the person first named in the Register.

6.6 The first named of Joint-holders deemed sole holder

If any share stands in the names of two or more persons, the person first named in the Register shall, as regards receipt of dividends or bonus, or service of notices or any other matter connected with the Company except, voting at meetings and the transfer of the shares, be deemed the sole holder thereof, but the joint holders of a share shall be, severally as well as jointly, liable for the payment of all installments and calls due in respect of such share and for all incidents thereof, according to the provisions of the Act.

6.7 Calls

The Board of Directors may, from time to time, by resolution passed at a meeting of the Board of Directors, and not by a circular resolution, make such calls, as they think fit, upon the members in respect of all moneys unpaid on the shares held by them (whether on account of the nominal value of the shares or by way of premium) and not by the conditions of allotment thereof made payable at fixed times. Each member shall pay the amount of every call so made on him, to the persons, and at the time and place appointed by the Board of Directors. A call may be made payable by installments and shall be deemed to have been made when the resolution of the Board of Directors authorizing such calls was passed.

6.8 Notice of Call

Subject to the provisions of the Agreement, at least fourteen (14) days' notice of any call shall be given by the Company specifying the time and place of payment and to whom such calls shall be paid, provided that, before the time for payment of such call, the Board of Directors may, by notice in writing to the members, revoke the same or extend the time for payment thereof.

6.9 Call to date from Resolution

Call shall be deemed to have been made at the time when the resolution authorizing such call was passed at a meeting of the Board and may be made payable by those members whose names appear on the register of members on such dates, or at the discretion of the Directors on such subsequent dates as may be fixed by the Directors.

6.10 Amount payable at fixed times or by installments payable as calls

If, by the terms of issue of any share or otherwise, any amount is or becomes payable on allotment or at any fixed date or by installments at fixed time, whether on account of the nominal amount of the share or by way of premium, every such amount or installment shall be payable as if it were a call duly made by the Board of Directors and payable on the date on which, by the terms of issue or otherwise, such sum becomes payable and of which due notice has been given. In case of non-payment of such sum, all the relevant provisions herein contained as to payment of interest and expenses, forfeiture or otherwise shall apply as if such amount had become payable by virtue of a call duly made notified.

6.11 When interest on call or installment payable

If a sum payable in respect of any call or installment be not paid on or before the day appointed for payment thereof, the holder for the time being of the share in respect of which the call shall have been made or the installment shall be due, shall pay interest at such rate as the Board of Directors may determine. The Board of Directors may, however, in their absolute discretion, waive payment of any interest.

6.12 Evidence in action for call

On the trial or hearing of any action for the recovery of any money due for any call, it shall be sufficient to prove that the name of the member sued is entered in the register as the holder or one of the holders, of the shares, in respect of which such debt accrued, that the resolution making the call is duly recorded in the minute book and that notice of such call was duly given to the member sued, in pursuance of these presents and it shall not be necessary to prove the appointment of the Directors who made such call, nor that of a quorum nor any other matters whatsoever and the proof of the matters aforesaid shall be conclusive evidence of the debt.

6.13 Partial payment not to preclude forfeiture

Neither a judgment nor a decree in favour of the Company for calls or other moneys due in respect of any shares, nor the receipt by the Company of a portion of any money, which shall from time to time be due from any member in respect of any shares either by way of principal or interest, nor any indulgence granted by the Company in respect of payment of any such money shall preclude the Company from thereafter proceeding to enforce a forfeiture of such shares as herein provided.

6.14 Payments of call in advance

The Board of Directors may, if they think fit, receive from any member willing to advance the same, all or any part of the sum due upon the shares held by him beyond the sums actually called for, and upon the moneys so paid in advance or so much thereof, as from time to time exceeds the amount of calls then made upon the shares in respect of which such advance has been made, the Company may (until the same would but for such advance become presently payable) pay interest at such rate not exceeding nine (9) per cent per annum to the member paying such sum in advance and the Board of Directors may agree upon and the Board of Directors may at any time repay the amount so advanced upon giving to such member three (3) months' notice in writing. The member making such advance payment shall not, however, be entitled to dividend or to participate in profits of the Company or to any voting rights in respect of the money so paid by him until the same would, but for such payment, become presently payable.

6.15 Proof on trial of suit for money due on shares

On the trial or hearing of any action or suit brought by the Company against any Member or his representatives for the recovery of any money claimed to be due to the Company in respect of his shares, it shall be sufficient to prove that the name of the Members in respect of whose shares the money is sought to be recovered, appears entered on the Register of Members as the holder, at or subsequently to the date at which the money sought to be recovered is alleged to have become due on the shares in respect of which such money is sought to be recovered, that the resolution making the call is duly recorded in the Minute Book; and that notice of such call was duly given to the Member or his representatives so sued in pursuance of these Articles; and it shall not be necessary to prove the appointment of the Directors who made such call nor that a quorum of Directors was present at the Board at which any call was made, nor that the meeting at which any call was made was duly convened or constituted nor any other matters whatsoever, but the proof of the matters aforesaid shall be conclusive evidence of the debt.

6.16 Payment in anticipation of calls may carry Interest

(i) The Board may, if it thinks fit, agree to and receive from any Member willing to advance the same, all or any part of the amounts of his respective shares beyond the sums, actually called up and upon the moneys so paid in advance, or upon so much thereof, from time to time, and at any time thereafter as exceeds the amount of the calls then made upon and due in respect of the shares on account of which such advances are made the Board may pay or allow interest,

at such rate as the Member paying the sum in advance and the Board agree upon. The Board may agree to repay at any time any amount so advanced or may at any time repay the same upon giving to the Member three months' notice in writing. Provided that moneys paid in advance of calls on any shares may carry interest but shall not confer a right to dividend or to participate in profits.

(ii) No Member paying any such sum in advance shall be entitled to voting rights in respect of the moneys so paid by him until the same would but for such payment become presently payable.

6.17 Members not entitled to privileges of membership until all calls paid.

No members shall be entitled to receive any dividend or to exercise any privilege as a member, including such privilege of voting, until he shall have paid all calls for the time being due and payable on every share held by him, whether alone or jointly with any other person, together with interest and expenses, if any.

7. FORFEITURE AND LIEN

7.1 Call or installment not paid, notice may be given

If any member fails to pay any call or installment on or before the day appointed for the payment of the same, the Board of Directors may at any time thereafter, during such times as the call or installment remains unpaid, serve a notice on such member requiring him to pay the same together with any interest that may have accrued and all expenses that may have been incurred by the Company by reason of such non-payment.

7.2 Form of notice

The notice shall name a day (not being earlier than the expiry of fourteen (14) days from the date of service of the notice) and a place(s), on and at which such call or installment and such interest and expenses as aforesaid are to be paid. The notice shall also state that in the event of non-payment on or before the time and at the place appointed, the shares in respect of which the call was made or installment is payable will be liable to be forfeited.

7.3 Notice not complied with, shares may be forfeited

If the requisitions of any such notice as aforesaid are not complied with, any shares in respect of which such notice has been given may, at any time thereafter, before payment of all calls or installments, interest and expenses, due in respect thereof, be forfeited by a resolution of the Board of Directors to that effect. Such forfeiture shall include all dividends declared in respect of the forfeited shares and not actually paid before the forfeiture.

7.4 Notice of forfeiture

When any share has been so forfeited, notice of the resolution of the Board of Directors shall be given to member in whose name it stood immediately prior to the forfeiture and an entry of the forfeiture with the date thereof shall forthwith be made in the register of members, provided however, that the failure to give the notice will not in any way invalidate the forfeiture.

7.5 Forfeited shares to become property of the Company

Any shares so forfeited shall be deemed to be the property of the Company and the Board of Directors may sell, re-allot and other-wise dispose of the same in such manner as they think fit.

7.6 Power to annul forfeiture

The Board of Directors may, at any time, before any shares so forfeited shall have been sold, re- allotted or otherwise disposed of, annul the forfeiture thereof as a matter of grace and favour but not as of right, upon such terms and conditions as they may think fit.

7.7 Arrears to be paid notwithstanding forfeiture

Any member whose shares shall have been forfeited shall, notwithstanding the forfeiture, be liable to pay and shall forthwith pay to the Company all calls, installments, interest and expense, owing upon or in respect of such shares at the time of forfeiture, together with interest thereon; from the time of forfeiture until payment, at the rate twelve (12) per cent per annum and the Board of Directors may enforce the payment of such moneys or any part thereof if they think fit, but shall not be under any obligation so to do.

7.8 Effect of forfeiture

The forfeiture of a share shall involve the extinction of all interests in and also of all claims and demands against the company in respect of the share and all other rights incidental to the same, except only such of those rights as by these presents are expressly saved.

7.9 Certificate of forfeiture

A certificate in writing under the hands of a Director or the Secretary of the Company, that the call in respect of a share was made and notice thereof given and that default in payment of the call was made and that the forfeiture of the shares was made by a resolution of the Board of Directors to that effect, shall be conclusive evidence of that fact stated therein as against all persons entitled to such share.

7.10 Title of purchaser and allottees of forfeited shares

The Company may receive the consideration, if any, given for the share on any sale, re-allotment or other disposal thereof and may execute transfer of the share in favour of the person to whom the share is sold or disposed of and the person to whom such share is sold, re-allotted or disposed of may be registered as the holder of the share. Any such purchaser or allottee shall not (unless by express agreement) be liable to pay any calls, amounts, installments, interest and expenses owing to the Company prior to such purchase or allotment not shall he be entitled (unless by express agreement) to any of the dividends, interest or bonuses accrued or which might have accrued upon the share before the time of completing such purchase or before such allotment. Such purchaser or allottees shall not be bound to see to the application of the purchase money, if any, not shall his title to the share be affected by any irregularity or invalidity in the proceedings in reference to the forfeiture, sale, re-allotment or disposal of the share.

7.11 Cancellation of share certificates in respect of forfeited shares

Upon any sale, re-allotment or other disposal under the provision of the preceding Articles, the certificate or certificates originally issued in respect of the relative shares shall (unless the same shall on demand by the Company have been previously surrendered to it by the defaulting Member) stand cancelled and become null and void and of no effect, and the Directors shall be entitled to issue a duplicate certificate or certificates in respect of the said shares to the person or persons entitled thereto.

7.12 Company's lien on shares

The Company shall have no lien on its fully paid-up shares. In the case of partly paid up shares, the Company shall have a lien only to the extent of all moneys called or payable at a fixed time in respect of such shares, otherwise such partly paid up shares shall be free from any lien of the Company. Any lien on shares shall extend to all dividend and bonus from time to time declared in respect of such shares. Unless otherwise agreed, the registration of a transfer of shares shall operate as a waiver of the Company's lien, if any on such shares. The Board of Directors may at any time declare any shares to be wholly or in part exempt from the provisions of this Article.

7.13 Enforcement of lien by sale

For the purpose of enforcing such lien, the Board of Directors may sell the shares subject thereto in such manner as they think fit; but no sale shall be made until notice in writing of the intention to sell has been served on such member or in the event of his death or insolvency, on his heirs, executors or administrators and, default shall have been made by him or them in the payment, fulfilment, or

discharge of such debts, liabilities, or engagements for seven days after such notice. To give effect to any such sale, the Board may authorize any person to execute an instrument of transfer in respect of the shares sold and to transfer the shares sold to the purchaser thereof and the purchaser shall be registered as the holder of the shares comprised in any such transfer. Upon any such sale as aforesaid, the certificates in respect of the shares sold shall stand cancelled and become null and void and of no effect, and the Directors shall be entitled to issue a new certificate in lieu thereof to the purchaser concerned.

7.14 Application of proceeds of sale

The net proceeds of such sale shall be received by the Company and, after payment of the cost of such sale, shall be applied in or towards satisfaction of the debts, liabilities or engagements of such member and the residue if any, paid to him, his heirs, executors and administrators or assignees or other legal representatives, as the case may be.

7.15 Validity of Sale in lien and after exercise of forfeiture

Upon any sale after forfeiture or for enforcing a lien, in purported exercise of the powers hereinbefore given, the Board of Directors may appoint any person to execute an instrument of transfer of the shares sold and cause the purchaser's name to be entered in the Register in respect of the shares sold and the purchaser shall not be bound to see to the regularity of the proceeding nor to the application of the purchase money and after his name has been entered in the Register in respect of such shares, the validity of the sale and the entry in the Register in respect of the shares sold shall not be impeached by any person.

7.16 Board of Directors may issue new certificates

Where any shares under the powers in that behalf herein contained are sold by the Board of Directors after forfeiture or for enforcing a lien, and the certificate in respect thereof has not been delivered to the Company by the former holder of such shares, the Board of Directors may issue a new certificate of such shares distinguishing it in such manner as they may think fit from the certificate not so delivered.

7.17 Application of forfeiture provisions

The provisions of the Articles as to forfeiture shall apply in the case of non-payment of any sum which, by the terms of the issue of a share becomes payable at a fixed time, whether on account of the amount of the share, or by way of premium, as if the same had been payable by virtue of a call duly made and notified.

8. TRANSFER & TRANSMISSION OF SHARES

8.1 Restriction on Transfer and Permissible Transfer

- (i) The company may transfer / transmit shares in such manner as the Board of Directors of the company may deem fit, subject to applicable provisions of the Act.

Provided that nothing aforesaid shall prejudice the power of the company to register, on receipt of an intimation of transmission of any right to securities by operation of law from any person to whom such right has been transmitted.

- (ii) No Shareholder shall sell, transfer or assign its shares or any part thereof at a price lower than the par value of the shares, without the express prior written consent of the remaining Shareholders.

- (iii) Notwithstanding anything contained hereinabove, unless otherwise any contrary direction received from the Government of Bihar and / or ULB, the shares held in the name of subscribers / shareholders, on behalf of Governor of Bihar, shall be transferred in the name of persons holding the following posts in the Government of Bihar / Biharsharif Municipal Corporation, from time-to-time:

- (a) Representative, Finance Department
- (b) Representative, Urban Development & Housing Department ,
- (c) Divisional Commissioner, Patna Commissionerate
- (d) District Magistrate, Biharsharif
- (e) Managing Director, Bihar Urban Infrastructure Development Corporation
- (f) Municipal Commissioner, Biharsharif Municipal Corporation
- (g) Director, Municipal Administration

8.2 Register of Transfer

The Company shall keep a "Register of Transfer", and therein shall be fairly and distinctly entered particulars of every transfer or transmission of any share.

8.3 Transfer Books and Register of Members when closed

The Board shall have power on giving not less than seven days' previous notice by advertisement in some newspaper circulating in the district in which the Registered Office of the Company is situated to close the Transfer Books, the Register of Members or Register of Debenture holders, at such time or times and for such period or periods, not exceeding thirty days at a time and not exceeding in the aggregate forty-five days in each year.

9. INCREASE, REDUCTION AND ALTERATION OF CAPITAL

9.1 Alteration of capital

The Company in General Meeting may, from time to time by an Ordinary Resolution alter the conditions of its Memorandum of Association as follows that is to say;

- (i) It may increase its share capital by such amount as it thinks expedient by issuing new shares to private and other investors. Even in case private and other equity shareholders are inducted into the Company, the State Government or the State Government Undertaking and the ULB will maintain their contribution in equity shareholding in equal proportion and will together maintain a majority equity shareholding in the Company.
- (ii) Consolidate and divide all or any of its share capital into shares of larger amount than its existing shares.
- (iii) Subdivide its shares, or any of them, into shares of smaller amount than that is fixed by the memorandum, so however, that in the sub-division the proportion between the amount paid and the amount if any unpaid on each reduced share shall be the same as it was in the case of the share from which the reduced share is derived.
- (iv) Cancel any share which, at the date of the passing of the resolution in that behalf, have not been taken or agreed to be taken by any person and diminish the amount of its share capital by the amount of the shares so cancelled.
- (v) The resolution whereby any share is sub-divided may determine that as between the holders of the shares resulting from such sub-division one or more of such shares shall have the same preference or special advantage as regards dividend, capital or otherwise as compared with the others.

9.2 Offer of New Securities

Notwithstanding anything herein contained, unless otherwise any contrary direction received from the Government of Bihar and / or ULB any securities ("New Securities"), to be issued by the Company, shall be first offered for subscription to all Shareholders in proportion to their respective shareholding percentages; Provided that any further issue / allotment of shares to Government of Bihar shall be issued / allotted in the name of Governor of Bihar.

9.3 New capital same as existing capital

Except so far as otherwise provided by the conditions of issue or by these presents, any capital raised by the creation of new shares shall be considered as part of the original capital, and shall be subject to the provisions herein contained, with reference to the payment of calls and installments, forfeiture, lien, surrender, transfer and transmission, voting and otherwise.

9.4 Redeemable Preference Shares

Subject to the provisions of the Section 55 of the Act, the Company shall have the power to issue Preference Shares which are or at the option of the Company are liable to be redeemed and the resolution authorizing such issue shall prescribe the manner, terms and conditions of redemption.

9.5 Voting right of Preference Holders of Shares

The holder of Preference shares shall have a right to vote only on Resolutions which directly affect the rights attached to his Preference Shares. The Preference Shareholders shall also be entitled to vote on every kind of Resolution placed before the Company at any meeting until and then only for so long as their dividends are more than 2 years in arrears preceding the date thereof.

9.6 Provisions to apply on issue of Redeemable Preference Shares

On the issue of Redeemable Preference Shares under the Provisions of Article 77 hereof the following provisions shall take effect:-

- i. no such shares shall be redeemed except out of the profits of the Company which would otherwise be available for dividend or out of the proceeds of a fresh issue of shares made for the purpose of the redemption;
- ii. no such shares shall be redeemed unless they are fully paid;
- iii. The premium, if any, payable on redemption must have been provided for out of the profits of the Company or the Company's Share Premium Account before the shares are redeemed;
- iv. where any such shares are redeemed otherwise than out of the proceeds of a fresh issue, there shall out of profits which would otherwise have been available for dividend, be transferred to a reserve fund, to be called the "Capital Redemption Reserve Account", a sum equal to the nominal amount of the shares redeemed and the provisions of the Act relating to the reduction of the share capital of the Company shall, except as provided in Section 55 of the Act, apply as if the Capital Redemption Reserve Account were paid-up share capital of the Company.

9.7 Power to vary shareholders rights

Whenever the capital, by reason of the issue of Preference Shares or otherwise, is divided into different classes of shares, all or any of the rights and privileges attached to each class may subject to the provisions of Section 48 of Act be modified, commuted, affected or abrogated, or dealt with by agreement between the Company and any person purporting to contract on behalf of that class, provided such agreement is ratified in writing by holders of at least three-fourths in nominal value of the issued shares of the class or is confirmed by a Special Resolution passed at a separate general meeting of the holders of shares of that class.

9.8 Reduction of Capital

Subject to the provisions of the Section 66 of the Act and subject to confirmation by the Tribunal on an application by the company which may by a special resolution reduce the share capital in any manner in a particular way: may-

- a) Extinguish or reduce liability on any of its share not paid up or;
- b) Either with or without extinguishing or reducing liability or any of its shares –
 - i) Cancel any paid up share capital which is lost or is unrepresented by available assets; or
 - ii) Pay off any paid up share capital which is in excess of the wants of the company;
 - iii) Alters its memorandum for reducing the amount of its share capital or of its shares accordingly. Provided that no such reduction shall be made if it is in arrears in the repayment of any deposits it accepted by either before or after the commencement of the Act or interest payable thereof.

10. BORROWING POWERS

10.1 Power to Borrow

Subject to the provisions of section 179 & 180 of Act, the Board of Directors may, from time to time, by a resolution passed at a meeting of the Board, accept deposits from members, either in advance of calls or otherwise and, may generally raise or borrow or secure the payment of any sum or sums of money for the Company. Provided however, where the moneys to be borrowed together with the moneys already borrowed (apart from temporary loans obtained from the Company's bankers in the ordinary course of business) exceed the aggregate of the paid-up capital of the Company and its free reserves (not being reserves set apart for any specific purpose), the Board of Directors shall not borrow such moneys without the consent of the Company in general meeting.

10.2 Conditions for repayment of Moneys borrowed

The payment or repayment of moneys borrowed pursuant to **Article 11.15** may be secured in such manner and upon such terms and conditions in all respects as the Board of Directors may think fit, including by the issue of debentures or debenture stock of the Company, with charge on all or any part of the undertakings or property of the Company (both present and further) and its uncalled share capital for the time being.

10.3 Debentures to be subject to control of Directors

Any debentures, debenture stock, bonds or other securities, issued or to be issued, by the Company shall be under the control of the Board of Directors who may issue them upon such terms and conditions and in such manner and for such consideration as they shall consider to be for the benefit of the Company.

10.4 Terms of issue of Debentures

Any debentures, debenture stock, or other securities may be issued at a discount, premium or otherwise, and may be issued on condition that they shall be convertible into shares of any denomination, and with privileges and conditions as to redemption, surrender, drawing, allotment of shares, attending General Meeting of the Company and right to appoint Directors and otherwise. Subject to presents, debentures carrying the right of conversion into or allotment of shares shall be issued only with the consent of the Company in General Meeting and subject to provisions of section 53 of the Act.

10.5 Mortgage of uncalled capital

If any uncalled capital of the Company is included in or charged by any mortgage or other security, the Board of Directors shall, subject to the provisions of the Act and these presents, make calls on the members in respect of such uncalled capital in trust for the person in whose favour such mortgage or security is executed or, if permitted by the Act, may, by instrument under the Company's Seal, authorize the person in whose favour such mortgage or security is executed or any other person in trust for him, to make calls on the members in respect of such uncalled capital, and the provisions herein before contained in regard to calls shall, mutatis mutandis, apply to calls made under such authority, and such authority may be made exercisable either conditionally or unconditionally and either presently or contingently and either to the exclusion of the Board's power or otherwise, and shall be assignable if expressed so to be.

10.6 Priority over charge on uncalled capital

Where any uncalled capital of the Company is charged, all persons taking any subsequent charge thereon shall take the same subject to such prior charge, and shall not be entitled by notice to the shareholders or otherwise, to obtain priority over such prior charge.

10.7 Indemnity may be given

If the Directors or any of them or any other person shall become personally liable for the payment of any sum primarily due from the Company, the Board of Directors may execute or cause to be executed any mortgage, charge or security over or affecting the whole or any part of the assets of the Company, by way of indemnity to secure the Directors or persons so becoming liable as aforesaid, from any loss in respect of such liability.

11. BOARD OF DIRECTORS

11.1 Number of Directors

- i) The Board of Directors will comprise of minimum 3 (three) and a maximum of 15 (fifteen) Directors inclusive of at least 2 (two) Independent Directors. Unless directed otherwise by Government of Bihar, the following persons shall act as Directors of the Company:
- a) Representative of Ministry of Urban Development, Govt. of India – Nominee Director
 - b) Representative, Finance Dept., Govt. of Bihar –Nominee Director
 - c) Representative, Urban Development & Housing Dept., Govt. of Bihar – Nominee Director
 - d) District Magistrate, Biharsharif – Nominee Director
 - e) Mayor, Biharsharif Municipal Corporation – Nominee Director
 - f) Managing Director, BUIDCO – Nominee Director
 - g) Divisional Commissioner, Patna Commissionerate–Nominee Director and Chairman
 - h) Municipal Commissioner, Biharsharif Municipal Corporation–Managing Director (MD).
 - i) Two (2) Independent Directors, subject to applicability of Section 149(6) of the Act

Provided that, subject to applicability of Section 149 of the Act, the company shall have a Women Director either as one of the above directors or in absence, to be appointed afresh.

(Note:- The Board composition/board committee/appointment of directors has to be in compliance with Companies Act read with applicable Rules, depending on its paid up capital and other criteria prescribed).

- ii) In addition to the CEO and Functional Directors, Additional Directors may be taken on the Board if considered necessary with prior approval of State Government.
- iii) In case the Government of Bihar modifies the composition of directors of the company by issuing new or fresh GR (Government Resolution), the composition of the Board shall be amended accordingly subject to retaining the representation of the Central Government and proportionate representation of Independent Directors.
- iv) Except Nominee of the Central Government appointment of all the Directors of the Company or change therein shall be done with the approval of UD & HD, GoB.

11.2 First Directors:

The following officers shall be First Directors of the Company:-

1. Divisional Commissioner, Patna
2. Representative, Urban Development & Housing Department, Govt. of Bihar
3. Representative, Finance Department, Govt. of Bihar
4. Municipal Commissioner, Biharsharif Municipal Corporation

11.3 Company may increase or reduce the number of Directors

Subject to Sections 149 and 152 of the Act, the Company may, by ordinary resolution, from time to time, increase or reduce the number of Directors, within the limits fixed in that behalf by those present. In the event of an increase or decrease in the number of Directors, the nomination of Directors by each Shareholder shall be in proportion to each Shareholder's interest in the Company, unless otherwise agreed upon by the Shareholders further subject to prior approval of Government of Bihar.

11.4 Appointment of Representative of the Central Government and Independent Director

a) Representative of the MoUD, Government of India:

- (i) Notwithstanding anything to the contrary contained in these Articles, the representative of the Central Government will be a Director in the Board of the Company and nominated by the Ministry of Urban Development. He will hold office for the period as decided by the Central Government subject to the provisions of the Act.
- (ii) The Board of Directors of the Company shall have no power to remove from office the Representative of the Central Government. Representative of the Central Government shall not be required to hold any share qualification in the Company. Also Representative of the Central Government shall not be liable to retirement by rotation of Directors. Subject as aforesaid, the Representative of the Central Government shall be entitled to the same rights and privileges and be subject to the same obligations as any other Director of the Company.
- (iii) The Representative of the Central Government so appointed shall hold the said office for the period as decided by the Central Government.
- (iv) The Representative of the Central Government appointed under this Article shall be entitled to receive all notices of and attend all General Meetings, Board Meetings and all the Meetings of the Committee of which the Representative of Central Government is member as also the minutes of such meetings.

- (v) The Company shall pay the Representative of the Central Government sitting fees and expenses which the other Directors of the Company are entitled, subject to provisions of Schedule V of the Act.
- (vi) Provided that if any such Representative of the Central Government is an officer of the Government, the sitting fees, in relation to such Representative of the Central shall also accrue to the Central Government and the same shall accordingly be paid by the Company directly to the Central Government.
- (vii) Provided also that in the event of the Representative of the Central Government being appointed as whole-time Director such Representative of the Central Government shall exercise such powers and duties as are usually exercised or available to a whole-time Director, in the management of the affairs of the Company. Such Representative of the Central Government shall be entitled to receive such remuneration, fees, commissions and monies as approved by the Board of Directors and in compliance with the approved policy of the Government regarding receipt of remuneration, fees, commission or monies by its representatives in force at the relevant time.

b) Independent Directors

- (i) The Company and shareholders will comply with the provision of the Act with respect to induction of independent Directors. The Independent Directors may be selected from the data bank maintained by Ministry of Corporate Affairs. Preference will be given to those who have served as Independent Directors fulfilling conditions of the SEBI (Listing obligations and disclosure requirements), Regulations, 2015 or any other notified website.
- (ii) The Independent Director may be appointed for a term of up to five consecutive years on the Board. However, in case of his reappointment for further five years, then special resolution passed in general meeting and disclosure of such appointment is required to be made in Board's report .
- (iii) The Independent Director shall not be entitled to any stock options. He may receive remuneration by way of sitting fee, reimbursement of expenses incurred for participation in the Board and other committee meetings and profit related commissions as may be approved by the members as provided under Section 197 (5) of the Act.
- (iv) An independent director shall be held liable only in respect of such acts of omission or commission by company which had occurred with knowledge, attributable through Board processes and with his consent or connivance or where he had not acted diligently.
- (v) The Independent Directors shall abide by code of conduct as per Schedule IV of the Act.

(C) Managing Director

The Municipal Commissioner, Biharsharif Municipal Corporation shall be the Managing Director of the company, unless decided otherwise by Government of Bihar and shall be responsible for all Executive Affairs of the company as required under the Act and including the responsibilities and powers delegated to or vested in him either by the Board of Directors or shareholders or the Government of Bihar or under any bye-laws or regulations of the company and duly approved by the Board or shareholders of the company.

11.5 Directors' Vote

- a) The approval of the following matters shall require the affirmative vote or express consent of a majority of all the members of the Board of Directors present at the meeting;
- i. approval of each scheme, project, development works, plans and projects;
 - ii. approval to floating tenders, administrative approval to technical sanction;
 - iii. sanction estimates and tenders; and
 - iv. Investment of the Company's funds;
 - v. the merger or consolidation of the Company with, or into, any other company or entity or any proposal permitting any other company to consolidate with or merge into the Company, or the dissolution, liquidation or declaration of voluntary insolvency of the Company, including its recapitalization or reorganization.
 - vi. Establishment and approval of dividend policy and any declaration of dividends;
 - vii. Incurring, creating or increasing bonded indebtedness and debt or loan facilities in excess of pre-approved limits;
 - viii. Sale, lease, exchange, mortgage, pledge, encumbrance or other disposition or creation of any security on or investment of all or any material amount of the Company's assets, or any of the foregoing done outside the normal course of business;
 - ix. Settlement of the terms and appointment of the Directors;
 - x. Approval of the annual business plans, annual expense budget and capital expenditures budget of the Company or any material variation or deviation thereto;
 - xi. The issuance by the Company of new Shares or rights to acquire new Shares and the redemption or purchase by Company of its common or preferred shares;
 - xii. Formation of subsidiaries or joint ventures, where the Company is required to do so under the terms of any concession agreement;
 - xiii. Prepare rules and policies for pension, retirement and other benefit of the Company's directors, officers and employees;

- xiv. Change of any material accounting policy or write-off of any substantial asset within a calendar year;
- xv. negotiation, execution and/or amendment of contracts with a Shareholder, and/or its subsidiaries or Affiliates, including the technical services agreements; and
- xvi. confirmation and acceptance of the Company's financial statements;
- xvii. the change in or setting up of the tariffs or prices for the services to be provided by the Company or the setting up of an independent tariff / pricing committee for this purpose.
- xviii. Appointment of various officers of the Company for its proper management.

11.6 Board may fill up casual vacancies

Subject to prior approval of Govt. of Bihar:

- a) If any Director, appointed by the Company in General Meeting, vacates office as a Director before his term of office expires in the normal course, the resulting casual vacancy may be filled up by the Board at a meeting of the Board by appointment thereto of any other person but any person so appointed shall retain his office so long only as the vacating Director would have retained the same, if no such vacancy had occurred.
- b) If any casual vacancy has not been filled by the Board up to the date of the Annual General Meeting of the Company next following the arising of the vacancy, the same may be filled by ordinary resolution of the members at such Annual General Meeting.
- c) Notwithstanding anything contained herein, where a casual vacancy is caused in the Office of any Nominee Director, such vacancy shall be filled only with a person nominated by the Shareholder whose Nominee Director has vacated such office.

11.7 Additional Director

Subject as aforesaid, the Board of Directors shall have the power at any time to appoint any other person or persons as a Director or Directors as an additional Director on the Board but so that the total number of directors shall not at any time exceed the maximum number fixed under these Articles. Any Director or Directors so appointed shall hold office only until the next following Annual General Meeting of the Company and shall then be eligible for re-election.

11.8 Appointment of an Alternate Director

The Board of Director of the Company may appoint an Alternate director to act for a Director (herein called "the Original Director") during his absence for a period of not less than three months from the State in which the meetings of the Board are ordinarily held. An Alternate Director appointed under this Article shall not hold office for a period longer than that permissible to the Original

Director in which place he has been appointed and shall vacate office if and when the Original Director returns to that State. If the term of office of the Original Director is determined before he so returns to the State, any provision in the Act or in these presents for the automatic reappointment of retiring Directors in default of another appointment shall apply to the Original Director and not to the Alternate Director. If alternate director is appointed in the place of an Independent Director, such director shall also meet with criteria for independence as prescribed under the Act.

11.9 Chairperson

- a) The Chairperson of the Company will be Divisional Commissioner, Patna.
- b) The Chairperson can be removed from his position strictly in accordance with the provisions provided in the Act.
- c) The Chairperson shall hold the office for the period and on such terms and conditions as decided by the State Government.
- d) The office of the Chairperson and the Chief Executive Officer shall not be held by the same person.

11.10 Key Managerial Personnel: Subject to the provisions of Section 203 of the Act the company shall appoint the following Key Managerial Personnel:-

A) Chief Executive Officer

- i. The Chief Executive Officer shall be appointed by the Board in consultation with the Government of Bihar and Government of India.
- ii. Financial and administrative powers of the Company shall rest with Chief Executive Officer to the extent authorized or provided by the Board of Directors.
- iii. The Chief Executive Officer shall be responsible for day-to-day planning, execution and management functions of the Company.
- iv. Any document, file, agenda, paper etc to be sent by CEO, on behalf of the company, to Board of Directors or shareholders or government or other authorities, shall be sent through the Managing Director of the company.

B) Chief Financial Officer to be appointed by the Board of Directors.

C) Company Secretary to be appointed by the Board of Directors.

11.11 Qualification Shares

The Directors (including Nominee Directors) shall not be required to hold any Shares or qualification shares.

11.12 When office of Director to be vacated

Subject to the provisions of these Articles and Section 167 of the Act, the office of a Director shall become vacant if;

- i. He/she is found to be of unsound mind by a Court of competent jurisdiction;
or

- ii. He/she applies to be adjudicated as an insolvent; or is adjudged as an insolvent; or
- iii. he/she fails to pay any call made on him in respect of shares of the Company held by him, whether alone or jointly with others, within six months from the last date fixed for the payment of the call, unless the Central Government has, by notification on the Official Gazette, removed the disqualification incurred by such failure; or
- iv. he/she absents himself/herself from three consecutive meetings of the Board of Directors or from all meetings of the Board of Directors for a continuous period of three months, whichever is longer; or
- v. he/she becomes disqualified by an order of the Court under Section 203 of the Act; or
- vi. he acts in contravention of Section 184 of the Act; or he/she is convicted by a court for any offence involving moral turpitude and sentenced in respect thereof to imprisonment for not less than six months; or he/she having been appointed as a Director by virtue of his/her holding any office or other employment in the Company ceases to hold such office or other employment in the Company.
- vii. Subject to the provisions of the Act, a Director may resign his/her office at any time by notice in writing addressed to the Company or to the Board of Directors.

11.13 Interested Directors not to participate or vote in Board's proceedings

- (i) No director shall, by virtue of his/her office as a Director, take any part in the discussion of, or vote on, any contract or arrangement entered into, or to be entered into, by or on behalf of the Company, if he/she is in any way, directly or indirectly, concerned or interested in the contract or arrangement nor shall his/her presence count for the purpose of forming a quorum at the time of any such discussions or vote; and if he/she does vote, his/her vote shall be void, provided that this prohibition shall not apply;
- (ii) To any contract of indemnity against any loss which the Directors or any one or more of them may suffer by reason of becoming or being sureties or a surety for the Company.
- (iii) Any contract or arrangement entered into or with a public company or a private company which is a subsidiary of a public company, in which the interest of the Director consists solely of (a) his being a director of such company and the holder of not more than shares of such number or value therein as is requisite to qualify him for appointment as a director thereof, he having been nominated as such director by the Company or (b) his being a member holding not more than two percent of its paid-up share capital.

- (iv) In case a notification is issued under Section 184 of the Act, to the extent specified in the notification.

11.14 Certain Powers to be exercised by Board of Directors only at meeting

- i. to make calls on shareholders in respect of money unpaid on their shares;
- ii. to authorize buy-back of securities under section 68;
- iii. to issue securities, including debentures, whether in or outside India;
- iv. to borrow monies;
- v. to invest the funds of the company;
- vi. to grant loans or give guarantee or provide security in respect of loans;
- vii. to approve financial statement and the Board's report;
- viii. to approve amalgamation, merger or reconstruction;
- ix. to take over a company or acquire a controlling or substantial stake in another Company;
- x. any other matter which may be prescribed:
- xi. Provided that the Board may, by a resolution passed at a meeting, delegate to any Committee of directors, the managing director, the manager or any other principal officer of the company or in the case of a branch office of the company, the principal officer of the branch office, the powers specified in clauses (iv) to (vi) on such conditions as it may specify:
- xii. Every resolution delegating the power in these presents shall, specify the total amount up to which loans may be made by the delegates, the purpose for which the loan(s) may be made, and each such purpose in individual cases;
- xiii. Nothing contained in this Article shall be deemed to affect the right of the Company, in General Meeting, to impose restrictions and conditions on the exercise by the Directors of any powers herein specified.

11.15 Committees of the Board

The Board shall have the power to constitute sub-committees and delegate to such sub-committee(s) the powers of the Board in respect of any matter relating to the governance of the Company. Subject to the Act and these presents, the Board shall constitute from amongst its members one or more committees which will have delegated responsibility for dealing with specified functions otherwise carried out by the Board and which the Board delegates to such committees, at the time of constitution thereof. Each committee shall determine the procedure to be followed for the discharge of its functions. Such committees may include but not limited to:

- i. Audit Committee (for the approval of Company accounts);

- ii. Finance Committee (for the approval of financing matters including any proposed amendments to the Financing Plan);
- iii. Nomination and Remuneration Committee under Section 178 of the Act and clause 19 of SEBI (Listing obligations and disclosure requirements) Regulations 2015. The Nomination and Remuneration Committee will be consisting of three or more non-executive directors out of which not less than one-half shall be independent directors.
- iv. Risk Management Committee under clause 21 of the SEBI (Listing obligations and disclosure requirements) Regulations 2015. The Board will define the roles and responsibilities of the Risk Management Committee and may delegate monitoring and reviewing of the risk management plan to the committee and such other functions as it may deem fit. The majority of committee may be members of the Board of Directors. Senior executives of the company may be members of the said committee, but the Chairman of the committee shall be a member of the Board of Directors.
- v. Compensation Committee (to approve or propose remuneration and compensation of the senior management of the Company);
- vi. Share Transfer and Allotment Committee (to approve allotment of Shares and any and all transfers thereof); and
- vii. Project Management Committee for the purpose of supervising and monitoring the progress in implementation of the Project.
- viii. The meetings and proceedings of any Committee shall, save as herein provided, be governed by the provisions herein contained for regulating the meetings and proceedings of the Board, so far as the same are applicable thereto and are not superseded by any regulations made by the Board.
- ix. All minutes of meetings of a committee along with actions taken pursuant thereto, shall be placed before the immediately subsequent Board Meeting.

11.16 Acts of Committee

All acts done by any Committee of the Board in conformity with the regulations made by the Board and in fulfillment of the purpose for which the Committee is appointed but not otherwise, shall have effect as if done by the Board.

11.17 Remuneration of Directors

The maximum remuneration of a Director for his services shall be such sum as may be prescribed by the Act or the Central Government from time to time for each meeting of the Board of Directors attended by him. The Director shall be paid such further remuneration as the Company in General Meeting may, from time to time, determine and such further remuneration shall be divided amongst the Directors in such proportion and manner as the Board of Directors may, from time to time, determine and in default of such determination, equality.

11.18 Removal of Directors

Subject to the provisions of Section 169 of the Act, the Company may remove any Director (other than a Representative of the Central Government) before the expiration of his period of office and appoint another person in his stead. The person so appointed shall hold office during such time as the Director in whose place he is appointed would have held, if he had not been removed.

11.19 Notice of candidature for Office of Director

- (i) Subject to the provisions of the Section 160 of the Act and these presents, any person who is not a retiring Director shall be eligible for appointment to the office of Director at any General Meeting if he or some member intending to propose him has, not less than fourteen days before the Meeting left at the office of the Company, a notice in writing under his hand signifying his candidature for that office, along with the deposit of one lakh rupees or such higher amount as may be prescribed which shall be refunded to such person or, as the case may be, to the member, if the person proposed gets elected as a director or gets more than twenty-five percent of total valid votes cast either on show of hands or on poll on such resolution.
- (ii) Every person (other than a Director retiring by rotation or otherwise or a person who has left at the office of the company notice under Section 160 signifying his candidature for the office of a Director) proposed as a candidate for the office of a Director shall sign, and write to the company, his consent in writing to act as a Director, if appointed, a person other than-Director re-appointed after retirement by rotation or immediately on the expiry his term of office; or an additional or alternate Director or a person filling a casual vacancy in the office of a Director under Section 266 of the Act, appointed as a Director or re-appointed as an additional or alternate Director, immediately on the expiry of his term of office; or person named as a Director of the Company under its Articles as first registered shall not act as a Director of the Company unless he has within 30 (thirty) days of his appointment signed and communicated to the Registrar his consent in writing to act as, such Director.

11.20 Acts of board or Committee valid not with-standing defective appointment etc.

All acts done by any meeting of the Board or by a committee of the Board or by any person acting as Director shall notwithstanding that it shall afterwards be discovered that there was some defect in the appointment of such Director or Committee person acting as aforesaid, or that they or any of them were or was disqualified or had vacated office or that the appointment of any of them had been terminated by virtue of any provisions contained in the Act or in these presents, be as valid as if every such person had been duly appointed and was qualified to be a Director and had not vacated office or his appointment had not been terminated; provided that nothing in this Article shall be deemed to give

validity to acts done by a Director after his appointment has been shown to the Company to be invalid or to have terminated.

12. Retirement of Directors by rotation

The company, being a Government Company, the Directors of the Company shall not be liable to retire by rotation.

13. BOARD MEETINGS

The Directors may meet together for the dispatch of business, adjourn and otherwise regulate their meetings and proceedings as they may think fit.

13.1 Frequency of Board Meetings

- i. The Board shall meet at such time and at such place as it shall deem necessary (whether in India or overseas), provided that at least one meeting of the Board shall be held every calendar quarter, with a maximum interval of 120 days between any two consecutive meetings of the Board.
- ii. At least 7 days' prior written notice (excluding the date of deemed receipt and the date of the meeting) by facsimile, e-mail, registered post or physical / hand delivery (together with a confirmation by registered airmail, e-mail or facsimile, in the case of Directors resident outside the Republic of India) shall be given to all Directors, their alternates and their local attorneys in India (whose address shall have been notified in writing to the Company for convening a Board meeting); and such notice shall be accompanied by an agenda setting out in reasonable detail the matters to be discussed except that in the event that any Director, (acting reasonably and in good faith), deems that circumstances exist which require a meeting to be convened at shorter notice, in which case such Director may convene or instruct the Secretary to call a meeting of the Board as aforesaid by giving less than 7 days' prior written notice of such meeting.

13.2 Place of Board Meetings

Board Meetings will be held primarily at Registered Office of the Company, or at such other place as decided by the Chairman. All Board Meetings shall be attended in person; provided that, if and when permitted by the Act, meetings may be attended by telephone conference call or video conferencing where each Director participating in the meeting can hear all other Directors participating in the meeting; provided that any vote at such telephonic Board Meeting shall be conducted by calling the name of each Director present and documenting the verbal response made by such Director. Where any Director's telephonic connection is disconnected or substantially impaired, such affected Board Meeting shall be deemed to have been adjourned during such period of disconnection. At the conclusion of any such telephonic Board Meeting, each participant shall be requested to confirm orally that there has been no telephonic interference or disconnection and, provided all participating members confirm this, then no adjournment pursuant to this Article shall be deemed to have taken place.

13.3 Quorum

- i. No business shall be transacted at any Board meeting unless a quorum is present at the beginning of and throughout the meeting. The quorum for a meeting of the Board shall be one third of its total strength (any fraction contained in that one-third being rounded off as one) or two Directors, whichever is higher. In case of failure to hold a meeting on account of insufficient quorum, the meeting would stand adjourned till the same day at the same time the following week or some other later date and notice thereof would be given to all the Directors. If at such adjourned meeting, a quorum is not present within one-half an hour of the time appointed for the meeting, then the Directors present not being less than two shall constitute quorum and the business at such meeting shall be confined to the remaining items as specified in the agenda for such meeting and no general matter other than specific matters set out in the agenda may be decided at such meeting.
- ii. All decision to be taken by the Board shall be duly and validly taken by resolution adopted by the affirmative vote of a majority of the Directors present at the meeting, whether by show of hands or by concurrence to a resolution in any other form.
- iii. Subject to the Act, any matter to be decided by the Board or Committee thereof may be decided by way of a circular resolution, where the draft resolution has been circulated to all Directors or as the case may be, all members of the Committee and the same has been consented to by a majority of the Directors or as the case may be, majority of the members of the Committee.

14. GENERAL MEETING

14.1 Annual or Ordinary General Meeting

- i. Subject to provision of Section 96 of the Act, the Company shall in each year hold in addition to any other meeting, an Annual General Meeting and shall specify the meeting as such in the notices calling it, and not more than fifteen months shall elapse between the date of one annual general meeting and that of next;
Provided that in case of first annual general meeting, it shall be held with a period of nine months from the date of closing of the first financial year of the company and in any other case, within a period of six months, from the date of closing of the financial year:
Provided further that if the first annual general meeting is held in the manner aforesaid, it shall not be necessary to hold any annual general meeting during the year of incorporation:
Provided also that the Registrar may, for any special reasons, extend the time within which any annual general meeting, other than the first annual general meeting, shall be held, by a period not exceeding three months.

- ii. Every Annual General Meeting shall be called for a time during business hours, that is between 9 a.m. to 6 p.m. on any day that is not a public holiday, and shall be held at the Registered Office of the Company or at some other place within the city, town or village in, which the Registered Office of the Company is situated.

14.2 Right to attend General Meeting

As per Secretarial Standard-II issued by Institute of Company Secretaries of India (ICSI) applicable w.e.f. 1st July, 2015, all directors of the Company should attend all meetings of shareholders. If any Director is unable to attend the meeting, the Chairman shall explain such absence at the meeting.

14.3 Convening of Extraordinary General Meeting

In accordance with the provisions of Section 100 of the Act, the Board may, whenever it deems fit, call an Extraordinary General Meeting. Extraordinary General Meeting may also be called on a requisition in writing by any Member or Members holding in the aggregate not less than one-tenth of such of the paid-up capital as at that date carries the right of voting in regard to the matter in respect of which the requisition has been made.

14.4 Notice and Place for General Meeting

Any notice of a meeting of the Shareholders shall be served on each Shareholder, Director, Auditors, and Secretarial Auditor in writing at least twenty one (21) days before the date of such meeting unless otherwise agreed by all the Shareholders of the Company in the manner provided under Section 101 of the Act. The notice shall set out the agenda for the meeting to be convened and the texts of the resolutions proposed to be adopted at such meetings. No business shall be transacted at any meeting or a resolution passed on any matters except as was fairly disclosed in the notice convening the meeting.

14.5 Contents of notice

Every notice of a meeting of the Company shall specify the place, the date and hour of the meeting and shall contain a statement of the business to be transacted thereat. No General Meeting, Annual or extraordinary shall be competent to enter upon, discuss or transact any business, which has not been specifically mentioned in the notice, or notices upon which it was convened. In accordance with the provisions of Section 102 of Act:

- i. A statement setting out the following material facts concerning each item of special business to be transacted at general meeting, shall be annexed to the notice calling such meeting, namely:

- a) The nature of concern or interest, financial or otherwise, if any, in respect of each item-
 - Every director and the manager, if any;
 - Every other key managerial personnel; and
 - Relatives of the persons mentioned in above sub-clauses
- b) Any other information and facts that may enable members to understand the meaning, scope and implications of the items of business and to take decision thereon.

ii. For the purpose of sub-section 1,

- a) In the case of annual general meeting, all business to be transacted there as shall be deemed special, other than-
 - The consideration of financial statements and the reports of the Board of Directors and auditors;
 - The declaration of any dividend;
 - The appointment of directors in place of those retiring;
 - The appointment of and fixing of the remunerations of, the auditors; and
 - In the case of any other meeting, all business shall be deemed special.

14.6 Notice to be given to the Auditors

Notice of every general meeting of the Company shall be given to the Auditor or Auditors for the time being of the Company, in the manner provided in Section 101 of the Act.

14.7 Omission to give Notice not to invalidate Meeting

The accidental omission to give notice of any meeting to or the non-receipt of any notice by any member or other person, to whom it should be given, shall not invalidate the proceedings at the meeting.

14.8 Quorum

A quorum shall be at least five (5) members, including the authorized representative of Governor of Bihar, personally present if the number of members as on the date of meeting is not more than one thousand subject to conditions laid down in Section 103 of the Act. In default of quorum within half an hour of the appointed time, meeting shall stand adjourned to the following week at the same time and place and in default of a quorum within half an hour of the appointed time at the adjourned meeting, any shareholder, including the authorized representative of Governor of Bihar, present in person and not being less than two shall constitute quorum

14.9 Chairperson

The Chairperson of the Board shall be the Chairperson of every General Meeting. However, if the chairperson is not present within half-an-hour from the time appointed for the meeting, the members personally present at the meeting shall elect one of themselves to be the chairperson by show of hands or by poll, if demanded

14.10 How questions to be decided at meetings

Every question submitted to a General Meeting shall be decided in the first instance on a show of hands. Unless a poll is demanded, a resolution put to vote at a meeting shall be decided on a show of hands.

14.11 Demand for poll

Before or on the declaration of the result of the voting on any resolution on a show of hands, a poll may be ordered to be taken by the Chairperson of the meeting of his own motion, and shall be ordered to be taken by him on a demand made in that behalf by members present in person or through authorized representative and having not less than one-tenth of the total voting power or holding shares on which an aggregate sum of not less than five lakh rupees or such higher amount as may be prescribed has been paid up subject to provisions of Section 109 of the Act.

14.12 Time of taking poll

Any poll duly demanded on the question of adjournment shall be taken forthwith. A poll demanded on any other question, not being a question relating to the election of a Chairperson, shall be taken at such time not exceeding 48 hours from the time when the demand was made, as the Chairperson may direct.

14.13 Power to adjourn General Meeting

The Chairperson of a General Meeting, may with the consent of the meeting adjourn the same from time to time and from place to place, but no business shall be transacted at any adjourned meeting other than business left unfinished at the meeting from which the adjournment took place.

14.14 Business may proceed not with standing

The demand of a poll shall not prevent the continuance of a meeting for the transaction of any business other than the question on which a poll has been demanded.

14.15 Scrutineers at the Poll

- i. Where a poll is to be taken, the Chairperson of the meeting shall appoint two scrutineers to scrutinize the votes given on the poll and to report thereon to him.

- ii. The Chairperson shall have power, at any time before the result of the poll is declared, to remove a scrutinizer from the office and to fill vacancies in the office of scrutinizer arising from such removal or from any other cause whatsoever.
- iii. Of the two scrutinizers, one shall always be a member (not being an officer or employee of the Company) present at the meeting, provided such a member is available and willing to be appointed.

14.16 Manner of taking poll and result thereof

The Chairperson of the meeting shall have power to regulate the manner in which a poll shall be taken. The result of the poll shall be deemed to be decision of the meeting on the resolution, on which the poll was taken.

14.17 Chairperson to be the sole judge of the validity of the vote tendered at meeting and at poll.

The Chairperson of any meeting shall be the sole judge of the validity of every vote tendered at such meeting. The Chairperson present at the taking of all polls shall be the sole judge of the validity of every vote tendered at such poll.

14.18 Right of member to use his vote

On a poll taken at a meeting of the Company, a member entitled to more than one vote, or his proxy or other person entitled to vote for him, as the case may be, need not, if he votes, use all his votes or cast in the same ways all the votes he uses.

14.19 Resolution passed at adjourned meeting

Where a resolution is passed at an adjourned meeting of the Company, the resolution shall, for all purpose, be treated as having been passed on the date on which it was in fact passed and shall not be deemed to have been passed on any earlier date.

15. PASSING OF RESOLUTION BY CIRCULATION

- i. No resolution shall be deemed to have been duly passed by the Board or by a committee thereof by circulation, unless the resolution has been circulated in draft, together with the necessary papers, if any, to all the directors, or members of the committee, as the case may be, at their addresses registered with the company in India or at their official address by hand delivery or by post or by courier, or through such electronic means as may be prescribed under the Act or the rules and the resolution has been approved by a majority of the directors or members, who are entitled to vote on the resolution.

Provided that, where not less than one-third of the total number of directors of the company for the time being require that any resolution under circulation must be decided at a meeting, the chairperson shall put the resolution to be decided at a meeting of the Board.

- ii. A resolution under clause (i) shall be noted at a subsequent meeting of the Board or the committee thereof, as the case may be, and made part of the minutes of such meeting.

16 MINUTES

16.1 Minutes

The Draft minutes of the Board meeting should be circulated within 15 days from the date of conclusion of the Board meeting to all the Board Members for their comments. The board members shall have to communicate their comments within 07 (seven) days from the date of circulation of the draft minutes.

The Company shall cause minutes of all proceedings of every General Meeting and of all proceedings of every meeting of its Board of Directors or of every Committee of the Board to be entered in a book kept for this purpose in the manner, prescribed under the Act. The minutes shall truly reflect the proceedings of every General Meeting and of all proceedings of every meeting of its Board of Directors or of every Committee of the Board, including details regarding voting by each Director/Member for or against a resolution.

16.2 Minutes to be evidence

Any such minutes, if purporting to be signed by the Chairperson of the Meeting at which the proceedings take place or by the Chairperson of the next succeeding meeting, shall be evidence of the proceedings.

16.3 Presumption to be drawn where minutes duly drawn are signed

Where minutes of the proceedings of any General Meeting of the Company or of any meeting of the Board or of a Committee of the Directors have been made and duly drawn are signed in accordance with the provisions of these presents and the Act, then until the contrary is proved, the Meeting shall be deemed to have been duly called and held and all proceedings thereat to have been duly taken place and in particular all appointments of Directors or liquidators made at the meeting shall be deemed to be valid.

16.4 Inspection of minute Books of General Meetings

The books containing the aforesaid minutes shall be kept at the Registered Office of the Company, with certified true copies being kept at its corporate office, in the event its corporate office is located in a city different from its registered office, and be open for the inspection of any member without charge, as provided in Section 119 of the Act. Any member shall be furnished with a copy of any minutes in accordance with the terms of that Section.

17 VOTING RIGHTS

17.1 Votes of members

Every member, who being an individual, is present in person, or being a Corporation, is present by a representative, shall have one vote on a show of hands. Every member, who being an individual, is present in person or by a proxy or by attorney duly authorized under power of attorney, or being a Corporation is present by a representative or his proxy shall, on a poll, have voting right in proportion to his share of the paid up equity capital of the Company.

17.2 No voting by Proxy on show of hands

No member, not personally present, shall be entitled to vote on a show of hands unless such member is present by attorney duly authorized under power of attorney or unless such member is a body corporate present by a representative. The attorney or representative mentioned in this Article may vote on a show of hands as if he were a member of the Company.

17.3 Votes may be given by proxy or attorney

Subject to the provisions of the Act and these presents, votes may be given personally or by attorney duly authorized under power of attorney or by proxy or in case of a body corporate also by a representative duly authorized under Section 113 of the Act or by proxy of such representative of the body corporate.

17.4 Instrument appointing proxy

The instrument appointing a proxy shall be in writing, under the hand of the appointer or his attorney duly authorized in writing or, if such appointer is a corporation, under its common seal or the hand of an officer or an attorney duly authorized by it. A person may be appointed a proxy though he is not a member of the Company, but such proxy shall not have any right to speak at any meeting.

17.5 Member's rights to appoint Proxy to be stated in notice.

Every notice convening a meeting of the Company shall state that a member entitled to attend and vote at the meeting is entitled to appoint a proxy to attend, who need not be a member of the Company.

17.6 Proxy to be deposited at office

The instrument appointing a proxy and the power of attorney or other authority, if any, under which it is signed or a naturally certified copy of that power of authority shall be deposited at the Registered Office of the Company not less than forty-eight hours before the time for holding the meeting, at which the person named in the instrument propose to vote in case of a poll and in default, the instrument of proxy shall not be treated as valid.

17.7 When vote by proxy valid, though authority revoked

A vote in accordance with the terms of an instrument of proxy shall be valid, notwithstanding the previous death of the principal or revocation of the proxy or transfer of the share in respect of which the vote is given, provided no intimation in writing of the death, revocation or transfer shall have been received at the office of the Company or by the chairperson of the meeting before the vote is given.

17.8 Form of proxy

Every instrument of proxy, whether for a specified meeting or otherwise shall, as nearly as circumstances will admit, be in the form specified in Schedule IX of the Act.

17.9 Time and place to inspect the proxies lodged

Every member entitled to vote at a meeting of the Company according to the provisions of these presents on any resolution to be moved thereat, shall be entitled during the period beginning twenty four hours before the time fixed for the commencement of the meeting and ending with the conclusion of the meeting, to inspect the proxies lodged, at any time during the business hours of the Company provided, not less than three days' notice in writing of the intention so to inspect is given to the Company.

17.10 No member entitled to vote etc. while call due to Company

No member shall be entitled to vote, either personally or by proxy, at any General Meeting of a class of shareholders either upon a show of hands or on poll in respect of any shares registered in his name, on which any calls or other sums presently payable by him have not been paid or in regard to which the Company has exercised any right of lien.

18 THE SEAL

18.1 The Seal, its custody and use-

The Board of Directors shall provide a Seal for the purpose of the Company and shall have power, from time to time, to destroy the same and substitute a new Seal in lieu thereof and, shall provide for the safe custody of the Seal for the time being and, the Seal shall never be used except under the authority of the Board of Directors or a Committee of the Directors previously given. Every deed or other instrument to which the Seal of the Company is affixed shall be signed by at least one Director or such other officer of the Company as may be authorized in that behalf by the Board of Directors or Committee of Directors; provided nevertheless, that certificates of shares may be under the signatures of such persons as provided by the Companies (Issue of Share Certificates) Rules in force, from time to time. Save as otherwise expressly provided by the Act, a document requiring authentication by the Company may be signed by a Director, or the Secretary or any other officer authorized in that behalf by the Board and need not be under its Seal.

19 REGISTERS

19.1 Registers

The Company shall keep and maintain Registers as required by the Act including the following Registers;

- (i) Register of investments made by the Company, but not held in its own name, as required by section 187(3) of the Act and shall keep it open for inspection of any member or debenture holder of the Company without charge.
- (ii) Register of charges as required by Section 85 of the Act and shall keep it open for inspection of any creditor or member of the Company without fee, and person on payment of a fee of Rs. 10/- for each inspection.
- (iii) Register of Members under Section 88 of the Act and shall keep the same open for inspection of any member or debenture holder without fee and of any other person, on payment of a fee of Rs. 10/- for each inspection except when the Register is closed.
- (iv) Register of Debenture Holders under Section 88 of the Act and shall keep it open for inspection of any member or debenture holder without fee and for any other person on payment of a fee of Rs. 10/- for each inspection except when the Register is closed.
- (v) Register of Contracts in which Directors are interested, as required by Section 189 and shall keep it open for inspection of any member without fee.
- (vi) Register of Directors and Secretary, as required by Section 170 of the Act and shall keep it open for inspection of any member of the Company without charge and of any other person on payment of a fee of Rs. 1/- for each inspection.
- (vii) Register of Key Managerial Personnel (KMP) under Section 203 and Attendance Register.
- (viii) Registers as to the Holdings by Directors of shares and debentures in the Company as required by Section 170 of the Act and shall keep it open for inspection of any member or debenture holder of the Company on any working day, during the period beginning 14 (fourteen) days before the date Company's Annual General Meeting and ending 3 (three) days after the date of its conclusion. (ix) Register of investments in shares or debentures of bodies corporate according to Section 186 of the Act.
- (x) Books of Account in accordance with the provisions of Section 129 of the Act.
- (xi) Copy of instruments creating any charge requiring registration, according to Section 85 of the Act.
- (xii) Copies of Annual Returns prepared under Section 92 of the Act together with the copies of certificates and documents required to be annexed thereto under Section 92 of the Act.

- (xiii) Register of Renewed and Duplicate share certificates according to Companies(Share Capital and Debentures) Rules 2014
- (xiv) Other statutory registers as prescribed under the Act.
- (xv) Copies of entries in the above Registers shall be furnished to the persons entitled to the same on payment of one Rupee for every hundred words or Fractional part thereof required to be copied. The Company shall give inspection of the above Registers to the persons entitled to the same on any working day between the hours of 3 p.m. and 5 p.m. except Saturday. The Company shall in addition to keeping and maintaining the above Registers at its Registered Office keep and maintain certified true copies of the above Registers at its corporate office, in the event its corporate office is located in a city different from its Registered Office.

20 DIVIDENDS

20.1 Dividends

- a) The Shareholder shall ensure that the Board in making any decision in relation to the declaration of dividends and the appropriation of surplus shall consider the following factors:
 - (i) the maintenance of prudent and proper reserves including allowance for future working capital, provisions for tax, and other restrictions required by local laws;
 - (ii) the due and prudent provisions for all actual and carried forward losses of the Company;
 - (iii) the due and prudent provision for the payment of all indebtedness , borrowings and loans owed by the Company to the Shareholders or to banks and financial institutions as unsecured creditors; and
 - (iv) any other factors which the Shareholders may agree to be taken into account.
- b) The Shareholders shall ensure any dividend recommended by the Board to be approved by the Shareholders and distributed by the Company not later than 30 (thirty) days of such approval at a General Meeting. The right to dividends will vest on the date of the General Meeting approving such dividends and dividends will be paid on each Share, which was registered with the Company on the record date. The record date for determining entitlement to any such dividend shall be a date 30 days prior to the date of the General Meeting to recommend such dividend.

20.2 Dividends on Capital paid up in advance and carrying interest

Where capital is paid up on any shares in advance of calls upon the footing that the same shall carry interest, such capital shall not whilst carrying interest, confer a right to participate in profit.

20.3 Dividends only to be paid out of profits

No dividend shall be payable except out of the profits of the year or any other undistributed profits excepts as provided by section 123 of the Act.

20.4 Dividend in proportion to amount paid up

All dividends shall be apportioned and paid proportionately to the amounts paid or credited as paid on the shares during any portion or portions of the period in respect of which the dividend is paid, but if any share is issued on terms providing that it shall rank for dividends as from a particular date, such share shall rank for dividend accordingly.

20.5 Interim dividends

The Directors may recommend, from time to time, pay to the members such interim dividends, as in their judgment, the position of the Company justifies.

20.6 Debts may be deducted

The Directors may retain any dividends payable on shares on which the Company has a lien, and may apply the same in or towards satisfaction of the debts, liabilities or engagements in respect of which the lien exists.

20.7 Dividend and call together set off allowed

Any general meeting declaring a dividend may make a call on the members of such amount as the meeting fixes, but so that the call on each member shall not exceed the dividend payable to him, and so that the call can be made payable at the same time as the dividend and the dividend may, if so arranged between the Company and the member, be set off against the call. The making of a call under this Article shall be deemed ordinary business of an Annual General Meeting which declares a dividend.

20.7.1 Effect of transfer

A transfer of shares shall not pass the right to any dividend declared thereon, after such transfer but before the registration of the transfer.

20.7.2 Retention in certain cases

The Directors may retain the dividends payable upon shares in respect of which any person is, under the Transmission Clause, entitled to become a member or which any person under that Article is entitled to transfer until such person shall become a member in respect of such shares or shall duly transfer the same.

20.8 No member to receive dividend whilst indebted to the Company and the right to reimbursement there out

No member shall be entitled to receive payment of any interest or dividend in respect of his share or shares, whilst any money may be due from him, either alone or jointly with any other person or persons and the Director may deduct from the interest or dividend payable to any such member, all sums of money so due from him to the Company.

20.9 Dividend to joint holders

Any one of several persons who are registered as the joint holders of any share, may give effectual receipts for all dividends and payments on account of dividends, in respect of such shares.

20.10 Payment of dividend

Unless otherwise directed, any dividend may be paid through electronic mode or by cheque or warrant sent through the post to the registered address of the member or person entitled or, in the case of joint holders, to the registered address of that one whose name stands first on the Register, in respect of the joint holding; and every cheque or warrant so sent shall be made payable to the order of the person to whom it is sent. Several executors or administrators of a deceased member in whose sole name any share stands, shall for the purpose of this Article be deemed to be joint holders thereof. The Company shall not be responsible or liable for any cheque or warrant lost in transit or for any dividend lost by the member or person entitled thereto by the forged endorsement of any cheque or warrant or the fraudulent recovery thereof by any other means:

- (i) If the Company has paid the dividend or sent the warrant in respect thereof to the shareholder entitled to the payment of the dividend, within 30 (thirty) days from the date of the declaration of the dividend unless; Where the dividend could not be paid by reason of the operation of any law or Where a shareholder has given directions regarding the payment of dividend and those directions cannot be complied with. PROVIDED THAT the dividend in respect of shareholders holding shares for and on behalf of any government or ULB or body corporate or financial institution, may be directly paid to such government or ULB or body corporate or financial institution.
- (ii) Where there is a dispute regarding the right to receive the dividend.
- (iii) Where the dividend has been lawfully adjusted by the Company against any sum due to it from the shareholders; or
- (iv) Where for any other reason, the failure to pay the dividend or to post the warrant within, the period aforesaid was not due to any default on the part of the company.

20.11 Unclaimed Dividend

- (i) If the Company has declared a dividend, but which has not been paid within 30 (thirty) days from the date of declaration to any shareholder entitled to the payment of the dividend, the Company shall within 7 (seven) days from the date of expiry of the said period of 30 (thirty) days, open a special account in that behalf in any scheduled bank and deposit the amount of such unclaimed dividend in the said account.
- (ii) Any money transferred to the unpaid dividend account of the Company which remains unpaid or unclaimed for a period of seven (7) years from the date of such transfer, shall be transferred by the Company to the Investors Education and Protection Fund established by the Central Government; a claim of any money so transferred to the general revenue account may be preferred to the Central Government by the shareholders to whom the money is due. No unclaimed dividend shall be forfeited till the claim thereto becomes barred by law.

21 RESERVE AND DEPRECIATION FUNDS

The Company may raise additional finance to the extent permitted by law including but not limited to by means of (i) a depreciation fund, (ii) loans and subsidies, (iii) by way of deposits; Such additional funds may be utilized by the Company for such purpose that the Board deems fit but subject to conditions laid down in the objectives of the Company under Memorandum of Association.

21.1 Reserve Fund

The Directors may, from time to time, before recommending any dividend, set apart any and such portion of the profits of the Company as they think fit, as a Reserve fund, to meet contingencies or for the liquidation of any debentures, debts or other liabilities of the Company, for equalization of dividends or for repairing, improving and maintaining any of the property of the Company and for such other purpose of the Company as the Directors, in their absolute discretion, think conducive to the interest of the Company. The Directors may invest the several sums so set aside upon such investment, other than shares of the Company, as they may think fit and, from time to time, to deal with such investments and dispose of all or any part thereof for the benefit of the Company. The Directors may divide the Reserve Fund into such special funds as they think fit, with full power to transfer the whole or any portion of a Reserve Fund to another Reserve Fund or a division of a Reserve Fund and also with full power to employ the Reserve Funds or any part thereof in the business of the Company, separate from the other assets and without being bound to pay interest on the same. However the Board may, in their discretion, pay or allow to the credit of such funds, interest, at such rate as the Board may, think proper.

21.2 Depreciation Fund

The Directors may, from time to time, before recommending any dividend, set apart any such portion of the profits of the Company, as they think fit, as a depreciation fund applicable at the discretion of the Directors, for providing against any depreciation in the property and investments of the Company, destroyed or damaged by fire, flood, storm, tempest, earthquake, accident, riot, wear and tear or any other means whatsoever and for repairing, altering and keeping in good condition, the property of the Company or for extending and enlarging the building, machinery and property of the Company, applicable subject that the dividend and such moneys and all the other moneys of the Company may be invested by the Directors in or upon such investments or securities as they may select or may be used as working capital or may be kept at any bank on deposit or otherwise as the Directors may from time think proper.

21.3 Investment of moneys

All moneys carried to any reserve fund and depreciation fund respectively shall, nevertheless remain and be profits of the Company applicable, subject to due provisions being made for actual loss or depreciation, for payment of dividend, and such moneys and all the other moneys of the Company may be invested by the Directors in or upon such investments or securities as they may select, or may be used as working capital, or may be kept at any bank on deposit, or otherwise, as the Directors may, from time to time, think proper.

22 CAPITALISATION

Subject to the provisions of Section 63 of the Act, the company in general meeting may on the recommendation of the Board, resolve that it is desirable to capitalize any part of the amount for the time being standing to the credit of any of the company's reserve account or to the credit of the profit and loss account or otherwise available for distribution. The board shall give effect to resolution passed by the company in general meeting in pursuance of the article.

23 ACCOUNTS AND AUDIT

23.1 Audit Committee

Subject to applicability of law, the Board of Company will constitute an Audit Committee in pursuance to Section 177 of the Act and the Audit Committee shall consist of minimum three directors with Independent Directors forming a majority. The audit committee shall act in accordance with terms of reference specified in writing by the Board which shall inter alia include:

- The recommendations for appointment , remuneration and terms of appointment of auditors of the company;
- Review and monitor the auditor's independence and performance and effectiveness of audit process;
- Examination of the financial statement and the auditor's report thereon;

- Approval or any subsequent modification of transactions of the company with related parties.
 - Scrutiny of inter-corporate loans and investments;
 - Valuation of undertakings of assets of the company, wherever it is necessary
 - Evaluation of internal financial controls and risk management systems.
 - Monitoring the end use of funds raised through public offers and related matters.
- Besides above, the audit committee will perform all other functions prescribed under Section 177 of the Act.

23.2 Books where to be kept

The books of account and other books and paper shall be kept at the Registered Office of the Company or at such other place or places as the Board of Directors think fit and shall be open to inspection by any Directors or any person authorized under the Act during business hours.

23.3 Books of Account to be preserved

The books of account of the Company relating to a period of not less than eight year immediately preceding the current year, together with the vouchers relevant to any entry in such books of account, shall be preserved in good order. The Board of Directors shall, from time to time, determine whether, and to what extent, and at what times and places and under what conditions or regulations, the accounts and books and documents of the Company, or any of them shall be open to inspection of the members, and no member (not being a Director) shall have any right of inspecting any account or book or document of the Company, except as conferred by stature or authorized by the Board of Directors or by a resolution of the Company in the General Meeting.

23.4 Statement of Account to be furnished to General Meeting

The Board of Directors shall lay before each Annual General Meeting a Profit and Loss Account for the financial year of the Company and a Balance Sheet made up as at the end of the financial year which shall be a date which shall not precede the day of the meeting by more than 6 (six) months, or where an extension of time has been granted by the Registrar of Companies under the provisions of the Act, till the date of such extension.

23.5 Balance Sheet and Profit and Loss Account

- (i) Subject to the provisions of Section 129 of the Act, every Balance Sheet and Profit and Loss Account of the Company shall be in the forms set out in parts I and II respectively of Schedule III of the Act, or as near thereto as circumstances admit or in such other form as may be approved by the Central Government.

- (ii) So long as the Company is a holding Company having a subsidiary, the Company shall conform to Section 129 and other applicable provisions of the Act.
- (iii) If in the opinion of the Board, any of the current assets of the Company do not have a value on realization in the ordinary course of business, which is at least equal to the amount at which they are stated, the fact that the Board is of that opinion, shall be stated.

23.6 Authentication of Balance Sheet and Profit and Loss Account

- (i) Every Balance Sheet and every Profit and Loss Account of the Company shall be signed on behalf of the Board of Directors, by the Secretary, and by not less than 2 (two) Directors of the Board of Directors.
- (ii) Provided that, when only one Director is, for the time being, in India, the Balance Sheet and Profit and Loss Account shall be attached to a statement signed by him explaining the reason of noncompliance with the provisions of Clause (i) above.
- (iii) The Balance Sheet and the Profit and Loss Account shall be approved by the Board of Directors before they are signed on behalf of the Board, in accordance with the provisions of this Article and before they are submitted to the Auditors for their report thereon.

23.7 Profit and Loss Account, to be annexed and Auditor's Report to be attached to the Balance Sheet

The Profit and Loss Account shall be annexed to the Balance Sheet and the Auditor's Report, (including the Auditor's separate, special or supplementary report, if any) shall be attached thereto.

23.8 Board's Report to be attached to Balance Sheet

- (i) Every Balance Sheet laid before the Company in General Meeting shall have attached to it, a Report by the Board of Directors with respect to the state of the Company's affairs, the amounts, if any, which it propose to carry to any Reserve in such Balance Sheet and the amount, if any, which it recommends to be paid by way of dividend, and material changes and commitments, if any, affecting the financial position of the Company which have occurred between the end of the financial year of the Company for which the Balance Sheet has been drawn and the date of the Report.
- (ii) The Report shall, so far as it is material for the appreciation of the state of the Company's affairs by its members, and will not is the Board's opinion be harmful to the business of the Company or of any of its subsidiaries, deal with any changes which have occurred during the financial year in the nature of the Company's business, in the Company's subsidiaries or in the nature of the business carried on by them and generally in the classes of business in which the Company has an interest.

- (iii) The Board shall also give the fullest information and explanations in its report, or in cases falling under the proviso to the Section 129 of the Act, in an addendum to that report, on every reservation, qualification or adverse remark contained in Auditor's Report.
- (iv) The Board's Report and addendum, if any, thereto shall be signed by its Chairperson if he is authorized in that behalf by the Board; and where he is not so authorized, shall be signed by such number of Directors as are required to sign the Balance Sheet and the Profit and Loss Account of the Company by virtue of Article 23.6.
- (v) The Board shall have the right to charge any person with the duty of seeing that the provisions of Clauses (i) to (iii) of this Article are complied with. Such person need not be a Director.

23.9 Accounts to be audited

- (i) Every Balance Sheet and Profit and Loss Account shall be audited by one or more Auditors to be appointed as hereinafter mentioned.
- (ii) An annual audit of the books of account, records and affairs of the Company shall be made for each Financial Year as soon as practicable, but no later than 180 (one hundred and eighty) days, following the close of such Financial Year, The Company shall submit to the Board and each of the Shareholders the accounts in respect of each Financial Year.

23.10 Auditors

The Company shall comply with the provisions of the Companies Act and other applicable provisions in this regard for appointment of auditor(s).

23.11 Remuneration of Auditors

Being a Government Company, the Auditors shall be appointed by the Controller & Auditor General of India who may determine the remuneration of the Auditor or else the Board of Directors of the Company shall have discretion to fix the remuneration of Auditors, subject to approval or confirmation from shareholders in the ensuing general meeting.

23.12 Powers and duties of Auditors

The Powers and duties of the Auditors of the Company shall be laid down in Section 143 of the Act.

23.13 Audit of Branch Offices

The Company shall comply with the provisions of Section 143 of the Act in relation to the audit of the accounts of branch offices of the Company, except to the extent to which any exemption may be granted by the Central Government in that behalf. A secretarial audit shall also be conducted under provisions of section 143 and 204 of the Act.

23.14 Reading and inspection of Auditor's Report

The Auditor's Report shall be read before the Company in General Meeting and shall be open to inspection by any member of the Company.

23.15 Service of documents on members by Company

- (a) A document (which shall, for this purpose, be deemed to include any summons, requisition, process, order, judgement, or any other document in relation to the winding up of the company) or notice may be served by the Company on any member thereof, either personally or by sending by registered post or e-mode, to him, at his registered address, if any, within India or abroad supplied by him to the Company for giving of notices to him.
- (b) A document or notice may be served by the Company on the joint holders of a share, by serving it on the joint holder named first in the Register in respect of the share.
- (c) A document or notice may be served by the Company on the persons entitled to a share, in consequence of the death or insolvency of a member, by sending it through registered post addressed to them by name, or by the title of representatives of the deceased or assigns of the insolvent or by any like representatives of the deceased or assigns of the insolvent or by any like description, at the address, if any, in India supplied for the purpose by the persons claiming to be so entitled or until such an address has been so supplied, by serving the document or notice in any manner in which it might have been served if the death or insolvency had not occurred.
- (d) The signature to any document or notice to be given by the Company may be written or printed or lithographed.

23.16 By Advertisement

A document or notice advertised in a newspaper circulating in the neighborhood of the Registered Office of the Company shall be deemed to be duly served or sent on the day on which the advertisement appears, on every Member who has no registered address in India and has not supplied to the Company an address within India for the serving of documents on or the sending of notices to him.

23.17 Service of Documents on personal Representatives, etc.

A document or notice may be served or given by the Company on or to the persons entitled to a share in consequence of the death or insolvency of a Member by sending it through the registered post addressed to them by name or by the title of representatives of the deceased, or assignee of the insolvent or by any like description, at the address (if any) in India supplied for the purpose by the persons claiming to be entitled, or until such an address has been so supplied by serving the document or notice in any manner in which the same might have been given if the death or insolvency had not occurred.

23.18 Service of document on company

A document may be served on the Company, or an officer thereof, by sending it to the Company or the said officer respectively, at the Registered Office of the Company by post, under a certificate of posting or by registered post with a copy sent to the Company at its corporate office or by leaving it at its Registered Office or corporate office.

24 INDEMNITY

Subject to the provisions of the Act, every Director, Chairperson, Officer or Servant of the Company shall be indemnified by the Company against, and it shall be the duty of Directors, out of the funds of the Company, to pay all costs, charges, losses and expenses which any such officer or servant may incur or become liable to, by reason of any contract entered into, or acts done by him as such officer or servant or during the discharge of his duties, including expenses and, in particular, and so as not to limit the generality of the foregoing provisions, against all liabilities incurred by him as such Director, Chairperson, Officer or servant in defending any proceedings, whether civil or criminal in which judgment is given in his favour or he is acquitted or in connection with any application under Section 463 of the Act in which relief is granted by the Court, and the amount, if any, shall be treated as a lien on the property of the Company.

25 GOVERNMENT'S POWER TO REVIEW

Notwithstanding anything to the contrary contained in these Articles, the Govt. of Bihar may review the work and progress of the Company, hold enquiries in to affairs thereof, get the accounts of the Company audited or re-audited by any internal auditor and issue directions, as deemed appropriate, to the Company.

26 WINDING UP

26.1 Distribution of assets

If the Company shall be wound up, and the assets available for distribution among the members as such shall be insufficient to repay the whole of the paid up capital, such assets shall be distributed so that, as nearly as may be, the losses shall be borne by the members in proportion to the capital paid up, or which ought to have been paid up, at the commencement of the winding up, on the shares held by them respectively. And if in a winding up, the assets available for distribution among the members shall be more than sufficient to repay the whole of the capital paid up at the commencement of the winding up, the excess shall be distributed amongst the members in proportion to the capital, at the commencement of the winding up, paid up or which ought to have been paid up on the shares held by them respectively. But this Article is to be constructed and applied without prejudice to the rights of the holder of shares issued upon special terms and conditions.

26.2 Distribution in specie or kind

- i. If the Company shall be wound up, whether voluntarily or otherwise, the liquidators may, with the sanction of a special resolution, divide amongst the contributories, in specie or kind, any part of the assets of the Company and may, with like sanction, vest any part of the assets of the Company in Trustees, upon such trusts for the benefit of the contributories, or any of them, as the liquidators, with the like sanction, shall think fit.
- ii. If through expedient, any such division may, subject to the provisions of the Act, be otherwise than in accordance with the legal rights of the contributories, (except where unalterably fixed by the Memorandum of Association) and in particular, any class may be given preferential or special rights or may be excluded altogether or in part but in case any division otherwise than in accordance with the legal rights of the contributories shall be determined on, any contributory who would be prejudiced thereby, shall have a right to dissent and ancillary rights, as if such determination were a special resolution passed pursuant to Section 319 of the Act.
- iii. In case any shares to be divided as aforesaid, involve a liability to calls or otherwise, any person entitled under such division to any of the said shares may, within ten days after the passing of the special resolution, by notice in writing, direct the liquidators to sell his proportion and pay him the net proceeds and the liquidators shall, if practicable, act accordingly.

26.3 Rights of shareholders in case of sale

Special resolution sanctioning a sale to any other Company, duly passed pursuant to Section 319 of the Act, may subject to the provisions of the Act, in like manner as aforesaid, determine that any shares or other consideration receivable by the liquidators be distributed amongst the members, otherwise than in accordance with their existing rights and any such determination shall be binding upon all the members subject to the rights of dissent and consequential rights conferred by the said Section.

27 SECRECY CLAUSE

- (i) Every Director, Manager, Secretary, Auditor, Treasurer, Trustee, member of a committee, officer, servant, agent, accountant or any other person employed in the business of the Company shall, if so required by the Directors, before entering upon his duties, sign a declaration pledging himself to observe strict secrecy respecting all transactions and affairs of the Company with the customers and the state of the accounts with individuals and in matters relating thereto, and shall by such declaration pledge himself not to reveal any of the matters which may come to his knowledge in the discharge of his duties except when required so to do by the Directors or by law or by the person to whom such matters relate and except so far as may be necessary in order to comply with any of the provisions in these presents contained.

(ii) No member shall be entitled to visit or inspect any works of the Company without the permission of the Directors or to require discovery of or any information respecting any details of the Company's trading, or any matter which is or may be in the nature of a trade secret, mystery of trade, secret process or any other matter which may relate to the conduct of the business of the Company and which in the opinion of the Directors, it would be inexpedient in the interest of the Company to disclose.

We the several persons whose names and addresses are subscribed are desirous of being formed into a company in pursuance of this Articles of Association, and we respectively agree to take the number of shares in the capital of the Company set against our respective names, for and on behalf of the Governor of Bihar / Biharsharif Municipal Corporation:

Names, Addresses, Occupations and Fathers name of Subscribers	Number of shares taken by each subscriber	Subscriber's Signature	Photograph

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Total:

WITNESS:-

I witness to subscribers, who have subscribed and signed in my presence (date and place to be given); further I have verified his or their Identity Details(ID) for their identification and satisfied myself of their identification particulars as filled in”

Name of Witness:

Signature of the Witness:

Occupation:

Address:

Date:

Place:

एकरारनामा हस्ताक्षरित कर LED अधिष्ठापन का सफल कार्यान्वयन किया गया है, जिससे उर्जा की बचत हो रही है।

4. सम्प्रति बिहार राज्य में LED लाईटिंग का विस्तार अपेक्षित रूप में नहीं किया जा सका है, जिससे राज्य में उर्जा की अपेक्षित बचत नहीं हो पा रही है।

उक्त परिप्रेक्ष्य में यह प्रस्ताव है कि M/s Energy Efficiency Services Ltd. के माध्यम से राज्य के सभी शहरी स्थानीय निकायों में चरणवार LED पथ प्रकाश व्यवस्था का अधिष्ठापन किया जाय, जिस क्रम में प्रथमतः राज्य के सभी नगर निगमों में यह कार्य कराया जायेगा। इसके उपरांत राज्य के समस्त अवशेष शहरी स्थानीय निकायों में भी इस योजना का कार्यान्वयन किया जायेगा। पारम्परिक स्ट्रीट लाईट को L.E.D लाईट में परिवर्तित करने पर निम्नलिखित लाभ होंगे:-

ऊर्जा की बचत होगी।

- (i) उर्जा की बचत होने के कारण बिजली बिल की राशि में बचत होगी।
- (ii) विद्युत उत्पादन के क्रम में पर्यावरण को हो रहे नुकसान में कमी आयेगी।
- (iii) Central Control and Monitoring System (CCMS) के अधिष्ठापन से सही नियंत्रण एवं metering की व्यवस्था होगी, साथ ही बिजली की चोरी रोकी जा सकेगी एवं एकीकृत अनुश्रवण व्यवस्था द्वारा आवश्यकताओं की पूर्ति की जा सकेगी।
- (iv) पुरानी एवं पारम्परिक प्रकाश व्यवस्था के मुकाबले 45 से 55 प्रतिशत कम बिजली की खपत होगी।
- (v) सार्वजनिक स्थानों पर उत्तम प्रकाश व्यवस्था उपलब्ध हो सकेगी।
- (vi) प्रकाश व्यवस्था की देख-रेख (Operation & Maintenance) में कम लागत आयेगी।
- (vii) रख-रखाव (O&M) की समस्या दूर होगी।
- (viii) एल०ई०डी० लाईट को चालू/बन्द करने की व्यवस्था, रिमोट स्विच के द्वारा किया जायेगा, जिससे निश्चित समय पर लाईट जलेगी एवं बन्द होगी। फलस्वरूप बिजली की बचत होगी।
- (ix) सर्विस लेवल एकरारनामा के प्रावधान के अनुसार 72 घंटे में खराब हुए एल०ई०डी० लाईट को ठीक करने की व्यवस्था होगी। अगर 72 घंटे में EESL द्वारा खराब हुए एल०ई०डी० लाईट को ठीक नहीं किया जायेगा तो इसके लिए 25/-रु० प्रतिदिन प्रति पोल Penalty का प्रावधान किया गया है।

5. उक्त क्रम में M/s Energy Efficiency Services Ltd. द्वारा राज्य सरकार को प्रस्ताव समर्पित किया गया है, जिसके प्रमुख अवयव निम्नवत् हैं:-

बिहार सरकार
नगर विकास एवं आवास विभाग

॥ संकल्प ॥

विषय:- बिहार राज्य के विभिन्न शहरी स्थानीय निकायों में Annuity Model के आधार पर LED पथ प्रकाश व्यवस्था को उर्जा मंत्रालय, भारत सरकार के अधीन कार्यरत संयुक्त क्षेत्रीय उपक्रम M/s Energy Efficiency Services Ltd. के माध्यम से अधिष्ठापित करने एवं आवश्यकतानुसार अतिरिक्त आधारभूत संरचनाओं की स्थापना हेतु M/s Energy Efficiency Services Ltd. से मनोनयन के आधार पर सेवाएँ प्राप्त करने हेतु स्वीकृति के संबंध में।

नित्य विकास की ओर अग्रसर बिहार राज्य में उर्जा की निरंतर बढ़ती हुई आवश्यकताओं एवं बिजली की कमी को देखते हुए उर्जा दक्ष तकनीक एवं उपकरणों का उपयोग समयानुकूल है। केन्द्रीय विद्युत प्राधिकरण के एक अनुमान के अनुसार पारम्परिक स्ट्रीट लाईटिंग को एल०ई०डी० में परिवर्तित कर लगभग 50% उर्जा की बचत की जा सकती है।

उल्लेखनीय है कि भारत सरकार द्वारा राष्ट्रीय पथ प्रकाश कार्यक्रम (Street Light National Programme) आरम्भ किया गया है। राष्ट्रीय पथ प्रकाश कार्यक्रम (SLNP) के अन्तर्गत 3.50 करोड़ पारम्परिक स्ट्रीट लाईट को एल०ई०डी० लाईट में परिवर्तित करने पर वार्षिक 9000 million units की बचत की जा सकेगी एवं इस प्रकार प्रतिवर्ष कुल 5000 करोड़ रुपये नगर निकायों को बचत होगी। इस कार्य हेतु M/s Energy Efficiency Services Ltd. (EESL) को कार्यान्वयन एजेन्सी नामित किया गया है। राष्ट्रीय पथ प्रकाश का उद्देश्य बिजली बिल में कमी लाने के साथ ही विद्युत उत्पादन के क्रम में हो रहे नुकसान को कम करते हुए लोक निधि की बचत करना है।

2. M/s Energy Efficiency Services Ltd. (EESL) का गठन उर्जा मंत्रालय, भारत सरकार के अधीन चार केन्द्रीय लोक उपक्रमों, यथा National Thermal Power Corporation (NTPC), Power Grid Corporation of India Ltd. (PGCIL), Power Finance Corporation Ltd. (PFCL) एवं Rural Electrification Corporation (REC) के संयुक्त उपक्रम के रूप में किया गया है।

इसी क्रम में बिहार में शहरी स्थानीय निकायों में पथ-प्रकाश हेतु M/s Energy Efficiency Services Ltd. (EESL) के सहयोग से पारम्परिक स्ट्रीट लाईटिंग के स्थान पर LED Street Light के अधिष्ठापन का प्रस्ताव है।

3. M/s Energy Efficiency Services Ltd. (EESL) द्वारा नगर निकायों, कृषि क्षेत्र, सार्वजनिक भवनों एवं प्रकाश व्यवस्था की दिशा में उर्जा बचत हेतु केन्द्र एवं राज्य सरकारों को सहयोग किया जाता है। M/s Energy Efficiency Services Ltd. द्वारा झारखण्ड, राजस्थान एवं हिमाचल प्रदेश राज्यों में LED अधिष्ठापन का कार्य व्यापक रूप से किया जा रहा है। उक्त राज्यों में M/s Energy Efficiency Services Ltd. द्वारा राज्य सरकार एवं स्थानीय नगर निकायों के साथ

5.1 M/s Energy Efficiency Services Ltd. द्वारा Central Control and Monitoring System (CCMS) अधिष्ठापित किया जायेगा, जिसके माध्यम से Remote On/Off व्यवस्था, उर्जा की खपत मापने की व्यवस्था तथा प्रकाश व्यवस्था में उसे ठीक करने की व्यवस्था अधिष्ठापित की जायेगी।

5.1 कार्यान्वयन मॉडल :-

(i) सर्वप्रथम EESL एवं UD&HD के बीच एक Umbrella MoU हस्ताक्षरित किया जाएगा। EESL एवं UD&HD के बीच किये जाने वाले Umbrella MoU के पश्चात् EESL द्वारा नगर निकायों का Survey किया जाएगा, जिसके आधार पर EESL द्वारा यह स्थापित किया जाएगा कि कितने पारम्परिक स्ट्रीट लाईट अधिष्ठापित है, जिसे LED Light में परिवर्तित किया जाना है, कितने Blank Pole अधिष्ठापित है, जिसमें LED Light लगाने की आवश्यकता है एवं कितने पोल सहित LED Light लगाने की आवश्यकता है।

(ii) EESL द्वारा किये गये Survey को संबंधित नगर निकाय के नगर आयुक्त/कार्यपालक पदाधिकारी द्वारा सत्यापित किया जायेगा कि EESL द्वारा किया गया survey सही है। इस प्रकार survey के आधार पर EESL एक प्राक्कलन तैयार कर LED Light लगाने के लिए राशि का आकलन करेगी।

(iii) EESL द्वारा survey के पश्चात् EESL एवं संबंधित नगर निकाय के बीच एकरारनामा कर LED Light अधिष्ठापित कराने का कार्य कराया जाएगा।

(iv) EESL द्वारा LED Light अधिष्ठापित करने का कार्य तीन फेज में किया जाएगा:-

(a) प्रथम फेज में पारम्परिक स्ट्रीट लाईट को LED Light में परिवर्तित किया जाएगा।

(b) दूसरे फेज में जहाँ Pole अवस्थित है लेकिन स्ट्रीट लाईट नहीं है, वहाँ LED Light का अधिष्ठापन किया जाएगा।

(c) तीसरे फेज में जहाँ Pole नहीं है वहाँ पर Pole के साथ LED Light का अधिष्ठापन का कार्य किया जाएगा।

(v) इसके अधीन प्रारम्भिक निवेश M/s Energy Efficiency Services Ltd. द्वारा किया जायेगा। M/s Energy Efficiency Services Ltd. द्वारा उपलब्ध कराये गये आकलन के अनुसार उक्त निवेश की राशि का भुगतान Annuity basis पर नगर निकायों द्वारा 07 वर्षों में पथ-प्रकाश हेतु उर्जा एवं मरम्मत मद की बचत की राशि से हो सकेगा तथा उर्जा एवं मरम्मत मद में किए जा रहे वास्तविक व्यय में कमी भी आएगी। इस अवधि में M/s Energy Efficiency Services Ltd. द्वारा इन सभी LED lights एवं Fixtures का रख-रखाव एवं मरम्मत भी सुनिश्चित करायी जायेगी।

बिहारशरीफ, नगर निगम के सर्वे के उपरान्त वार्षिक उर्जा खपत एवं लागत बचत के संबंध में M/s Energy Efficiency Services Ltd. द्वारा उपलब्ध कराया गया आकलन निम्नवत् है:-

For 2127 nos. of Street Lights

(i)	Existing no. of Street Lights	2127 No.
(ii)	Existing energy consumption based on 100% burning of lights for 11 hrs.	0.93 MU
(iii)	Existing Connected Load	0.23 MW
(iv)	Existing annual energy cost (@ Rs. 4400 per kW per month)	Rs. 122.00 Lac
(v)	Existing annual maintenance cost	Rs. 40.00 Lac
(vi)	Estimated energy consumption after replacement	0.43 MU
(vii)	Connected Load after replacement	0.11 MW
(viii)	Estimated annual energy cost after replacement (Metered)	Rs. 30.12 Lac
(ix)	Maintenance cost after replacement	NIL
(x)	Estimated annual savings to ULBs [(iv) + (v) - (viii) + (ix)]	Rs. 131.88 Lac
(xi)	Average EESL Annuity (Annual for 7 years)	Rs. 32.58 Lac
(xii)	Net annual saving to ULBs [(x) - (xi)]	Rs. 99.03 Lac
(xiii)	Investment by EESL	Rs. 121.00 Lac
(xiv)	Repayment in 7 Years (Including AMC and taxes) [(xi) x 7]	Rs. 228.00 Lac
(xv)	Savings in 7 Years [(iv) + (v)] x 7 - [(viii) x 7 + (xiv)]	Rs. 695.16 Lac

The savings predicted above are based on deemed saving approach. Actual saving may differ from the predicted saving. Under Infrastructure Development Cost (IDC) EESL will use 10% of total project cost for Arms, clamps and 3 mtr wire (i.e. from Street Light Phase wire to Luminaire) wherever required. Any other IDC work i.e. poles, cables, switching points, MCB, Earthing or any other work will have to be born separately. EESL will undertake such work on upfront basis on signing separate agreement for IDC only (i.e. cost of the same will be paid to EESL on upfront at actuals). AMC charges including fixtures and accessories shall be 3% of the total project cost per annum, throughout the contract period.

(vi) C.C.M.S स्थापित करने हेतु आधारभूत संरचना के अन्तर्गत निम्न प्रकार के कार्य कराये जाएँगे:-

(A) ऊर्जा विभाग, बिहार सरकार द्वारा Aerial Bunch Cables के साथ नये L.T Line का अधिष्ठापन कराया जा रहा है। पुराने खुले L.T Wire को भी Aerial Bunch Cables से बदला जा रहा है। ऊर्जा विभाग द्वारा प्रयुक्त में लाये जा रहे Aerial Bunch Cables में कुल 5 Core है। 3 Core Phase Wire है, 1 Core earthing के लिए है तथा 1 Core Street Light हेतु प्रावधानित है। नगर विकास एवं आवास विभाग के पत्र के आलोक में ऊर्जा विभाग द्वारा L.T 5 Core A B Cable में 1 Core को Street Light में उपयोग में लाने हेतु सहमति प्रदान किया गया है।

वर्तमान में ऊर्जा विभाग द्वारा बिहार राज्य में 984 कि०मी० में नये 5 Core Aerial Bunch Cables तथा लगभग 2000 कि०मी० में पुराने खुले L.T Wire के स्थान पर 5 Core A B Cable का अधिष्ठापन किया जा चुका है, जबकि लगभग 4500 कि०मी० में 5 Core Aerial Bunch Cables के अधिष्ठापन का कार्य प्रक्रियाधीन है।

- (B) Supply & Installation of pipe earthing (40 dia 2.5m long G.I. Pipe for C.C.M.S earthing).

EESL द्वारा बिहारशरीफ, नगर निगम के सर्वे के उपरान्त 2127 पारम्परिक लाईट को LED Light में परिवर्तन करने पर 07 वर्ष में 695.16 लाख रु० की बचत का आकलन किया गया है। बिहारशरीफ, नगर निगम के सर्वे के अनुसार कुल 5179 पोल है, जिसमें 3130 Blank Pole है। कुल 5179 पोल पर 5257 LED Light लगाने पर भी C.C.M.S स्थापित करने हेतु आधारभूत संरचना मद में 5.10 लाख रु० की ही लागत आयेगी। इस प्रकार C.C.M.S स्थापित करने हेतु आधारभूत संरचना के अधिष्ठापन की राशि 5.10 लाख रु० की लागत के पश्चात भी 2127 LED Light लगाने पर $(695.16 - 5.10) = 690.06$ लाख रु० की बचत होगी।

5.3 सर्विस लेवल एग्रीमेंट :-

इसके अधीन M/s Energy Efficiency Services Ltd. एवं नगर निकायों के बीच सर्विस लेवल एग्रीमेंट किया जायेगा, जिसके अन्तर्गत M/s Energy Efficiency Services Ltd. यह सुनिश्चित करेगी कि आपूर्ति एवं अधिष्ठापित किये गये सामग्री उत्तम तकनीकी स्तर के हैं। M/s Energy Efficiency Services Ltd. 07 वर्ष की अवधि के लिए Manufacturing Defect के विरुद्ध वारंटी उपलब्ध करायेगी। M/s Energy Efficiency Services Ltd, LED लाईट को चालू/बंद करने हेतु रिमोट स्विच सुविधा उपलब्ध करायेगी।

LED Light खराब होने की स्थिति में EESL को 72 घंटे में LED Light को ठीक करना होगा। यदि 72 घंटे में EESL द्वारा इसे ठीक नहीं किया गया तो 25/- रुपये प्रतिदिन प्रति पोल EESL के Quartelry Payment से deduct कर ली जाएगी।

5.4 भुगतान की व्यवस्था :-

LED Light अधिष्ठापन के कार्य का भुगतान Annuity Model के माध्यम से किया जाएगा, जिसमें LED Light, CCMS, arms, Clamps, Nut-bolt इत्यादि का Cost समाहित रहेगा।

CCMS स्थापित करने हेतु आधारभूत संरचना यथा Earthing for CCMS का भुगतान Earthing for CCMS का कार्य कराने के पश्चात संबंधित नगर निकाय द्वारा upfront cost basis पर

किया जाएगा। पूर्व में स्थापित बिजली पोल को मानक मापदण्ड के अनुसार बदलने, नये बिजली पोल की स्थापना तथा नये/पुराने/क्षतिग्रस्त केबुल को बदलने का भुगतान भी कार्य कराने के पश्चात् संबंधित नगर निकाय द्वारा upfront cost basis पर किया जाएगा।

5.5 भुगतान सुरक्षा व्यवस्था :-

राज्य सरकार द्वारा M/s Energy Efficiency Services Ltd. को उसके द्वारा किये गये निवेश की सुरक्षा हेतु State Govt. Assurance उपलब्ध करायी जायेगी। जिन नगर निकायों द्वारा EESL के साथ किये गये एकरारनामा के अनुसार Annuity Payment एवं आधारभूत संरचना के अन्तर्गत किये गये कार्य का भुगतान नहीं किया जाएगा, वैसे नगर निकायों के राज्य वित्त आयोग के अनुदान की राशि की कटौती कर EESL को भुगतान की व्यवस्था सुनिश्चित की जाएगी।

5.6 M/s Energy Efficiency Services Ltd. द्वारा खरीद :-

M/s Energy Efficiency Services Ltd. द्वारा सभी कार्यों हेतु ई-टेंडरिंग प्रक्रिया अपनायी जायेगी एवं निकाय के प्रतिनिधि को M/s Energy Efficiency Services Ltd. द्वारा निविदा समिति के सदस्य के रूप में आमंत्रित किया जायेगा।

6. M/s Energy Efficiency Services Ltd. द्वारा संबंधित शहरी स्थानीय निकाय के साथ समन्वय कर मुख्यतः निम्नांकित दो प्रकार के कार्य किये जायेंगे :-

6.1 कार्यान्वयन एजेंसी का चयन :- इसके अधीन Procurement services एवं Bid Process Management के कार्य सम्पन्न किये जायेंगे।

6.2 परियोजना प्रबंधन एवं कार्यान्वयन :- इसके अधीन Project Planning and Execution, Quality Inspection Plan तथा Performance Monitoring का कार्य किया जायेगा।

7. विभाग के साथ MoU एवं संबंधित शहरी स्थानीय निकाय के साथ एकरारनामा हस्ताक्षरित करने के पश्चात् M/s Energy Efficiency Services Ltd. द्वारा योजना का कार्यान्वयन 45 दिनों के अन्दर संबंधित नगर निकाय में आरंभ किया जाएगा।

8. उपर्युक्त परिप्रेक्ष्य में निम्नांकित प्रक्रिया अपनाई जायेगी :-

8.1 M/s Energy Efficiency Services Ltd. के माध्यम से LED अधिष्ठापन का कार्य सम्पन्न कराया जाएगा, जिसमें सर्वप्रथम राज्य के वैसे नगर निकायों में कार्यारंभ किया जायेगा, जिसमें उर्जा विभाग द्वारा Aerial Bunch Cables का कार्य किया जा रहा है। तत्पश्चात् अवशेष सभी शहरी स्थानीय निकायों में इसे लागू किया जायेगा।

8.2 राज्य के संबंधित शहरी स्थानीय निकायों को आवश्यकतानुसार अतिरिक्त आधारभूत संरचनाओं की स्थापना/मरम्मत करने के कार्य हेतु M/s Energy Efficiency Services Ltd. से मनोनयन के आधार पर सम्पन्न कराया जाएगा।

8.3 M/s Energy Efficiency Services Ltd. के साथ नगर विकास एवं आवास विभाग द्वारा एक Umbrella MoU (Memorandum of Understanding) हस्ताक्षरित किया जाएगा तथा संबंधित शहरी स्थानीय निकायों के द्वारा EESL के साथ एकरारनामा (Agreement) किया जायेगा। नगर निकायों के साथ EESL के द्वारा जो Service Level Agreement किया जायेगा, उसका प्रारूप तैयार कर विधि विभाग से विधीक्षा कराकर वित्त विभाग की सहमति के उपरांत विभाग द्वारा जारी किया जायेगा।

8.4 किसी स्थानीय शहरी निकाय की वित्तीय स्थिति को देखते हुए नगर विकास एवं आवास विभाग, बिहार सरकार के द्वारा प्रसंगाधीन प्रयोजन हेतु आवश्यकतानुसार राशि उपलब्ध करायी जा सकेगी।

9. EESL के द्वारा राजस्थान, हिमाचल प्रदेश तथा झारखंड राज्य के सरकारों के साथ किये गये M.O.U की समीक्षा एवं EESL के प्रतिनिधियों के साथ किये गये बैठकों के उपरांत बिहार राज्य के साथ किये जाने वाले MOU में राज्य हित में निम्नलिखित मुख्य संशोधित प्रावधान किये गये हैं :-

- (i) झारखंड राज्य के M.O.U में इन्फ्रास्ट्रक्चर कार्य के भुगतान पर 10 प्रतिशत Service Charge का प्रावधान है, जबकि बिहार राज्य के साथ EESL के प्रस्तावित M.O.U में Service Charge के भुगतान का प्रावधान नहीं है।
- (ii) राजस्थान, हिमाचल प्रदेश तथा झारखंड सरकार के साथ EESL के सम्पादित M.O.U में AMC के मासिक भुगतान का प्रावधान है, जबकि बिहार राज्य के प्रस्तावित M.O.U में AMC के त्रैमासिक भुगतान का प्रावधान किया गया है।
- (iii) हिमाचल प्रदेश एवं झारखंड सरकार के साथ EESL के सम्पादित M.O.U के अनुसार Default interest Payable to EESL, SBI PLR + 2% Per annum है, जबकि बिहार राज्य के साथ किये जाने वाले प्रस्तावित M.O.U में Default interest Payable to EESL, में मात्र SBI PLR Per annum प्रावधानित है।
- (iv) स्ट्रीट लाईट का परिचालन 95 प्रतिशत से कम होने की स्थिति में AMC मूल्य के 1 प्रतिशत वार्षिक के दर से कटौती किये जाने का प्रावधान झारखंड सरकार के M.O.U में किया गया है। बिहार राज्य के प्रस्तावित M.O.U में 72 घंटे के अंदर त्रुटि के सुधार नहीं किये जाने की स्थिति में 25 रुपये प्रति दिन प्रति लैम्प के दर से EESL के त्रैमासिक भुगतान से कटौती किये जाने का प्रावधान किया गया है।
- (v) स्ट्रीट लाईट का परिचालन 96 प्रतिशत से अधिक होने की स्थिति में 96 प्रतिशत से ऊपर प्रत्येक 01 प्रतिशत बढ़ोतरी के लिए 0.5 प्रतिशत वार्षिक इन्सेंटिव का भुगतान किये जाने के प्रावधान को इस राज्य के प्रस्तावित M.O.U में शून्य किये जाने का प्रावधान किया गया है अर्थात् कोई इन्सेंटिव देय नहीं होगा।

10. उपर्युक्त निर्णय में मंत्रिपरिषद् की बैठक दिनांक- 18.10.2017 के मद संख्या- 07 के रूप में स्वीकृति प्राप्त है।

आदेश:- आदेश दिया जाता है कि इस संकल्प को बिहार राजपत्र के असाधारण अंक में प्रकाशित किया जाय एवं इसकी प्रति सरकार के सभी विभागों/विभागाध्यक्षों/प्रमंडलीय आयुक्तों/जिला पदाधिकारियों/नगर निकायों/महालेखाकार, बिहार, पटना को सूचनार्थ भेजी जाय।

(चैतन्य प्रसाद),

सरकार के प्रधान सचिव।

ज्ञापांक: 2ब०/ना०सु०-03-18/2013 7054 /न०वि०एवं आ०वि०/दिनांक-30/10/17

प्रतिलिपि:- अधीक्षक, राजकीय मुद्रणालय, गुलजारबाग, पटना को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित। उनसे अनुरोध है कि इसे बिहार राजपत्र के अगले असाधारण अंक में प्रकाशित करते हुए इसकी 500 प्रतियाँ विभाग को उपलब्ध करायी जायें।

सरकार के प्रधान सचिव।

ज्ञापांक: 2ब०/ना०सु०-03-18/2013 7054 /न०वि०एवं आ०वि०/दिनांक-30/10/17

प्रतिलिपि:- मुख्य सचिव, बिहार/विकास आयुक्त, बिहार/महामहिम राज्यपाल के प्रधान सचिव/माननीय मुख्यमंत्री के प्रधान सचिव/प्रधान सचिव/सचिव, सभी विभाग/विभागाध्यक्ष, बिहार सरकार/माननीय विभागीय मंत्री के आप्त सचिव/विभागीय प्रधान सचिव के प्रधान आप्त सचिव/महालेखाकार, बिहार, पटना/स्थानीय लेखा परीक्षक, बिहार, पटना/प्रबंध निदेशक, बुडको/बिहार राज्य जल पर्षद/बिहार राज्य आवास बोर्ड/सभी प्रमंडलीय आयुक्त/सभी जिला पदाधिकारी/नगर आयुक्त, सभी नगर निगम/नगर कार्यपालक पदाधिकारी, सभी नगर परिषद/सभी नगर पंचायत/मुख्य अभियंता/अधीक्षण अभियंता, बुडा/कार्यपालक अभियंता, सभी जिला शहरी विकास अभिकरण/कोषागार पदाधिकारी, सभी कोषागार, बिहार/सभी विभागीय पदाधिकारियों को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

सरकार के प्रधान सचिव।

ज्ञापांक: 2ब०/ना०सु०-03-18/2013 7054 /न०वि०एवं आ०वि०/दिनांक-30/10/17

प्रतिलिपि:- श्री विवेक उत्पल, क्षेत्रीय प्रबंधक, EESL, चौथा तल, सेवा भवन, आर०के०पुरम, नई दिल्ली- 110066 को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

सरकार के प्रधान सचिव।

भारतीय गैर न्यायिक INDIA NON JUDICIAL

एक हजार रुपये

ONE THOUSAND RUPEES

रु.1000

Rs.1000



बिहार BIHAR

6.35.2015 3/8/15 4000 अयुक्त बिहार प्रज्ज् अयुक्त बिहार N 036400

Handwritten signatures and notes in Hindi.

IMPLEMENTATION MOU
विद्युत सेवा (नालन्दा) नं. 40-42/2015

BETWEEN

ULB AND EESI.

FOR

Implementation of energy efficiency measures in street lights in Biharsharif Municipal Corporation, Nalanda in the State of Bihar

This MoU is made and executed on 04th this day of August 2015, at Nalanda place of execution by and between

Biharsharif Municipal Corporation, Government of Bihar acting through its Representative THIYAGARAJAN . S . M . , MUNICIPAL COMMISSIONER, BIHARSHARIF (hereinafter referred to as the "ULB" which expression shall, unless the context otherwise requires, include its administrators, successors and permitted assigns) of First Part;

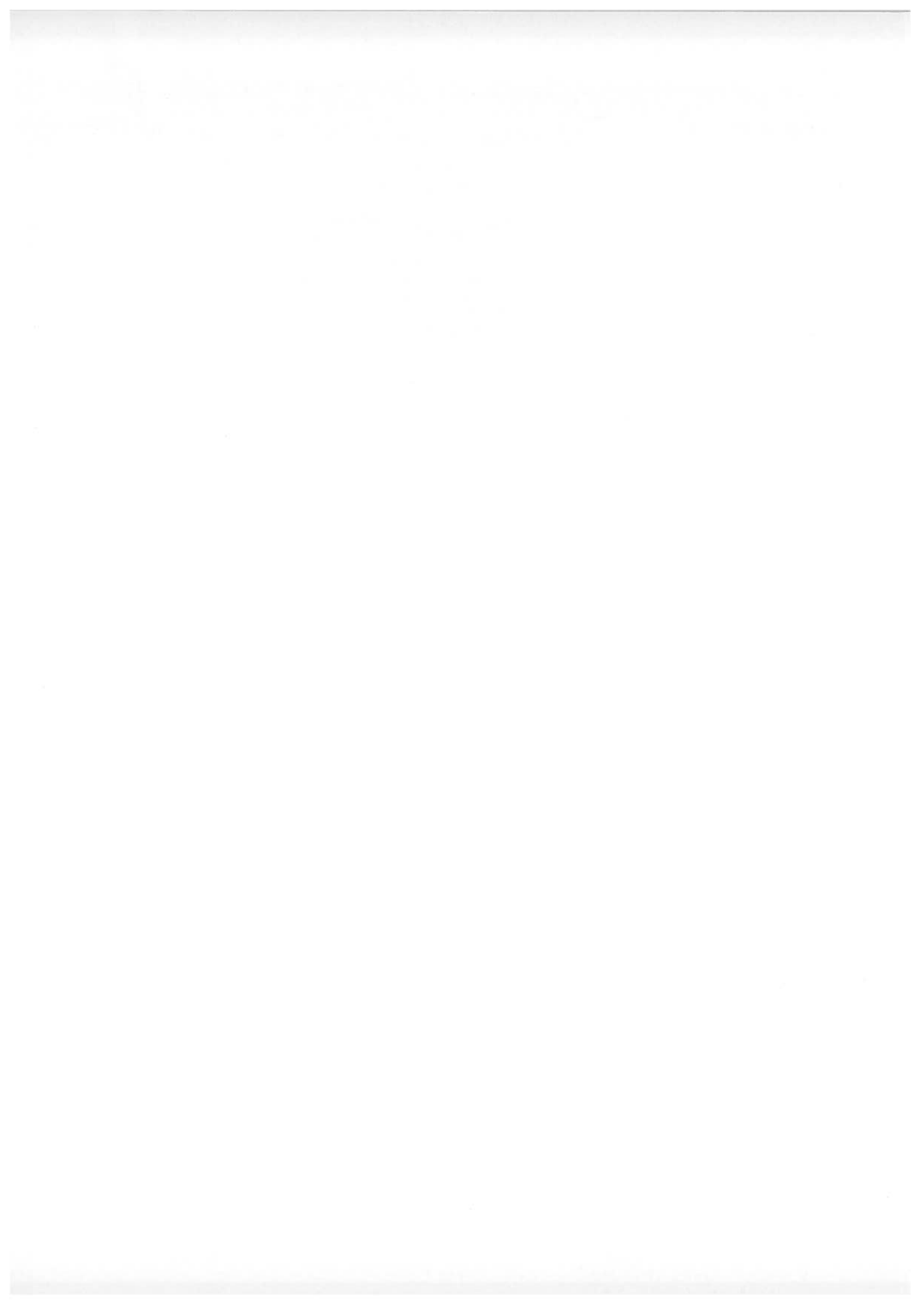
And Energy Efficiency Services Limited, a company incorporated under the provisions of the Companies Act, 1956 as a joint venture of PSUs of the Ministry of Power, Government of India, having its office at 4th Floor, IWAI Building, A-13, Sector -1, Noida -- 201301 (UP) acting through its Representative VIVEK UTPAL, PROJECT MANAGER, EESI (hereinafter referred to as "EESI" which expression shall, unless repugnant to the context or meaning thereof, include its successors, permitted assigns and substitutes) of Second Part.

नगर आयुक्त

EESI

बिहार शरीफ-नगर निगम
(नालन्दा)

Handwritten signature: Vivek Utpal 4/8/15



बिहार सरकार
नगर विकास एवं आवास विभाग
॥ कार्यालय आदेश ॥

संचिका सं०-03/AMRUT-03-01/2016 212

दिनांक 26/5/16

अटल नवीकरण और शहरी परिवर्तन मिशन (AMRUT) योजना के अंतर्गत केन्द्रांश की प्रथम किस्त की राशि ₹6642.00 लाख (छियासठ करोड़ बयालीस लाख रू० मात्र) स्तम्भ-02 में अंकित नगर निकायों के नाम के सम्मुख स्तम्भ-7 में अंकित राशि की विमुक्ति की स्वीकृति प्रदान की जाती है। यह राशि वर्ष 2015-16 में स्वीकृत जलापूर्ति योजना एवं पार्क विकास योजना के कार्यान्वयन हेतु विमुक्त किया जा रहा है :-
(राशि लाख रू० में)

क्र. सं.	नगर निकायों का नाम	जलापूर्ति योजना की स्वीकृत राशि	पार्क विकास योजना की स्वीकृत राशि	जलापूर्ति योजना के प्रथम किस्त केन्द्रांश की स्वीकृत राशि	पार्क विकास के लिए प्रथम किस्त केन्द्रांश की स्वीकृत राशि	प्रथम किस्त केन्द्रांश की विमुक्ति हेतु स्वीकृत कुल राशि (5+6)
1	2	3	4	5	6	7
1	हाजीपुर	4110.00	50.00	411.00	5.00	416.00
2	बक्सर	2932.00	50.00	293.20	5.00	298.20
3	बेगूसराय	6910.00	50.00	691.00	5.00	696.00
4	मुंगेर	5931.00	100.00	593.10	10.00	603.10
5	आरा	7453.00	50.00	745.30	5.00	750.30
6	बिहारशरीफ	7474.00	50.00	747.40	5.00	752.40
7	दरभंगा	4985.00	50.00	498.50	5.00	503.50
8	छपरा	5618.00	100.00	561.80	10.00	571.80
9	जहानाबाद	2942.00	50.00	294.20	5.00	299.20
10	बगहा	3211.00	50.00	321.10	5.00	326.10
11	मोतिहारी	3496.00	50.00	349.60	5.00	354.60
12	सिवान	3730.00	50.00	373.00	5.00	378.00
13	औरंगाबाद	2915.00	50.00	291.50	5.00	296.50
14	किशनगंज	3027.00	50.00	302.70	5.00	307.70
15	सासाराम	-	50.00	-	5.00	5.00
16	कटिहार	-	100.00	-	10.00	10.00
17	पूर्णिया	-	100.00	-	10.00	10.00
18	डेहरी डालमियानगर	-	50.00	-	5.00	5.00
19	बेतिया	-	50.00	-	5.00	5.00
20	जमालपुर	-	50.00	-	5.00	5.00
21	सहरसा	-	50.00	-	5.00	5.00
22	भागलपुर	-	100.00	-	10.00	10.00
23	गुजफरपुर	-	50.00	-	5.00	5.00
24	दानापुर निजामत	-	50.00	-	5.00	5.00
25	पटना	-	186.00	-	18.60	18.60
26	गया	-	50.00	-	5.00	5.00
	कुल	64734.00	1686.00	6473.40	168.60	6642.00

2. कुल स्वीकृत राशि ₹6642.00 लाख (छियासठ करोड़ बयालीस लाख रू० मात्र) स्तम्भ-02 में अंकित नगर निकाय के सम्मुख स्तम्भ-07 में अंकित राशि की विमुक्ति बुडा (BUDA) में रक्षित AMRUT योजना की राशि से RIGS के माध्यम से किया जायेगा।
3. उक्त विमुक्त राशि का उपयोगिता प्रमाण पत्र (U.C.) एक मुस्त नगर निकायों द्वारा उपलब्ध कराया जायेगा, जिसके आधार पर पुनः अगली किस्त की राशि विमुक्त की जायेगी।
4. AMRUT योजना के अधीन जलापूर्ति योजनाओं के लिए स्वीकृत राशि जो विमुक्त की जा रही है, को योजना के कार्यान्वयन एजेंसी बिहार राज्य जल पर्षद द्वारा मांग किये जाने पर शीघ्र उपलब्ध करा दिया जाय।
5. प्रस्ताव पर सक्षम प्राधिकार का अनुमोदन प्राप्त है।

ह०/-

अपर सचिव-सह-निदेशक,
नगर विकास एवं आवास विभाग।

ज्ञापांक-03/AMRUT-03-01/2016

पटना, दिनांक-

प्रतिलिपि:-उप निदेशक, बुडा/प्रधान सचिव के प्रधान आप्त सचिव/अपर सचिव-सह-निदेशक के निजी सहायक/लेखापाल, बुडा, नगर विकास एवं आवास विभाग, बिहार, पटना को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

ह०/-

अपर सचिव-सह-निदेशक।

ज्ञापांक-03/AMRUT-03-01/2016 1007

पटना, दिनांक-26/5/16

प्रतिलिपि:- प्रबंध निदेशक, बिहार राज्य जल पर्षद, पटना/AMRUT योजना अर्थात् नगर निकायों के नगर आयुक्त/नगर कार्यपालक पदाधिकारी को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

अपर सचिव-सह-निदेशक।

बिहार सरकार नगर विकास एवं आवास विभाग।

॥ संकल्प ॥

विषय:- शहरी क्षेत्र में हर घर तक पक्की गली-नालियों के लिए "मुख्यमंत्री शहरी नाली-गली पक्कीकरण निश्चय योजना" के प्रवर्तन एवं कार्यान्वयन के संबंध में।

मंत्रिमंडल सचिवालय विभाग की संकल्प संख्या- 873, दिनांक- 21.12.2016 द्वारा अधिसूचित राज्य सरकार के 7 निश्चयों में शहरी क्षेत्रों में हर नाली-गली का पक्कीकरण सुनिश्चित करने के संबंध में शामिल निश्चय का उद्धरण निम्नवत है :-

"प्रधानमंत्री ग्राम सड़क योजना के क्रियान्वयन के उपरांत, शेष बचे राज्य के सभी सम्पर्क-विहीन बसावटों को पक्की सड़क से जोड़ा जाएगा। सभी गाँव एवं शहरों में गली नाली का निर्माण कराया जाएगा।"

इसके लिए नगर विकास के अंतर्गत बिहार के प्रत्येक शहर में मुहल्लों को पक्की सड़क से जोड़ा जाएगा। प्रत्येक घर पक्की सड़क से जुड़े इसके लिए सभी मुहल्लों में गलियों एवं नालियों का निर्माण किया जाएगा।

इस उद्देश्य की पूर्ति हेतु राज्य सरकार द्वारा पूर्ण विचारोपरान्त एक नई योजना "मुख्यमंत्री शहरी नाली-गली पक्कीकरण निश्चय योजना" प्रवर्तित एवं कार्यान्वित कराने का निर्णय लिया गया है।

यह नई योजना प्रारंभ हो रही है, जिसके कारण पूर्व से संचालित मुख्यमंत्री नगर विकास योजना अगले वित्तीय वर्ष में जारी नहीं रहेगी, परंतु मुख्यमंत्री नगर विकास योजनान्तर्गत पूर्व से लंबित योजनाएं एवं अवशेष राशि इस नई योजना में समाहित हो जाएंगी।

2. पृष्ठभूमि

(i) वर्ष 2011 की जनगणना के अनुसार शहरी क्षेत्रों में लगभग 20,13,671 परिवार निवास करते थे। वर्ष 2020 तक शहरी क्षेत्रों में रहने वाले परिवारों की संख्या-24,16,405 अनुमानित है।

(ii) शहरी क्षेत्रों में मुख्यतः चार तरह की सड़कें होती हैं- प्रधान मुख्य सड़कें, मुख्य सड़क, शाखा सड़क एवं गली। इन सभी सड़कों से पानी निकालने के लिए नाला-नाली संबद्ध होते हैं। शहरी क्षेत्रों में प्रधान सड़क एवं मुख्य सड़क का निर्माण प्रायः पथ निर्माण विभाग एवं जिला शहरी विकास अभिकरण द्वारा हो चुका है। लेकिन शाखा सड़क एवं गलियों एवं इससे संबद्ध नालियों की स्थिति में सुधार (पक्कीकरण) की नितांत आवश्यकता है।

(iii) वर्ष 2011 तक शहरी क्षेत्र का क्षेत्रफल 1900 वर्ग किलोमीटर था जो कि 2020 तक लगभग 2500 वर्ग किलोमीटर हो जायेगा। इसके लगभग 60 प्रतिशत क्षेत्रफल में गलियाँ हैं, जिसमें शहर के लगभग 75 प्रतिशत आबादी निवास करती है।

(iv) शहरी क्षेत्रों के आर्थिक रूप से कमजोर परिवार ज्यादातर गलियों में निवास करते हैं। गली एवं नाली की जर्जर स्थिति के कारण यहाँ के निवासियों को अत्यधिक कठिनाई का सामना करना पड़ता है। शहरी परिवारों को इस स्थिति से निजात दिलाना ही इस योजना का मुख्य मकसद है।

3. योजना का उद्देश्य

योजना के निम्नांकित उद्देश्य हैं :-

(i) इस योजना के अंतर्गत अगले 5 वर्षों में शहरी क्षेत्र के वैसी गलियों एवं नालियों जिनका पक्का निर्माण नहीं हो पाया है, उसे पूरा करना है।

(ii) नालों के घयन में आउटफॉल एरिया को प्राथमिकता दी जायेगी। सबसे ज्यादा जल जमाव वाले स्थान पर ट्रंक चैनल बनाया जायेगा एवं उसे आउटफॉल चैनल से जोड़ा जाएगा, जिससे ज्यादा पानी निकल सके।

(iii) बिहार नगरपालिका अधिनियम, 2007 के अंतर्गत नगर निकायों में रहने वाली आबादी को सुगम पथ एवं जल-मल की निकासी हेतु समुचित व्यवस्था करने का दायित्व है। इस योजना से शहरी गलियों एवं नालियों का पक्कीकरण कर परिवारों को निवास हेतु स्वच्छ माहौल तैयार किया जाना है।

(iv) मुख्यमंत्री शहरी गली एवं नाली पक्कीकरण निश्चय योजना का कार्यान्वयन नगर निकाय द्वारा किया जायेगा। इसके लिए नगर निकायों के कार्य प्रबंधन क्षमता में वृद्धि करना भी इस योजना का महत्वपूर्ण घटक है।

4. रणनीति

(i) इस योजना के अंतर्गत शहरी क्षेत्रों की वैसी गलियों एवं नालियों, जिसे अभी तक पक्का नहीं किया जा सका है, उनको चिह्नित कर GIS Map पर प्रदर्शित किया जाएगा।

(ii) ऐसी बसावटें जो कि गलियों में निवास करती हैं, उसे मुख्य सड़क से जोड़ते हुए पक्की सड़कों का निर्माण किया जाएगा एवं नाली का निर्माण कर गली के नाली को मुख्य नाला में जोड़ा जायेगा।

(iii) इस योजना के घयन से लेकर निर्माण तक के लिए संबंधित नगर निकाय नोडल एजेंसी होगी। नगर निकाय अपने-अपने संबद्ध क्षेत्रों में इस योजना हेतु गली एवं नाली का प्राथमिकतावार सूची एवं डी०पी०आर० तैयार कर सक्षम प्राधिकार से तकनीकी अनुमोदन प्राप्त करेंगे तत्पश्चात् नगर निकाय में उपलब्ध निधि से इसका निर्माण प्राथमिकता के आधार पर करायेंगे।

(iv) नगर विकास एवं आवास विभाग द्वारा सरकार के निश्चय की प्राप्ति के उद्देश्य से योजना की मार्गदर्शिका में समय-समय पर आवश्यक संशोधन किया जा सकेगा।

5. निधि की व्यवस्था एवं बजट प्राबन्धन

(i) इस योजना के कार्यान्वयन हेतु प्रत्येक वित्तीय वर्ष में राज्य योजना से बजट उपबंध कराया जायेगा। वित्तीय वर्ष, 2016-17 में 140 करोड़ रुपये का बजटीय उपबंध किया जा रहा है। पंचम राज्य वित्त आयोग की अनुशंसा के आलोक में प्राप्त होने वाली राशि का न्यूनतम 26 प्रतिशत राशि इस योजना के लिए कर्णांकित किया जाएगा। राज्य योजना के अंतर्गत मुख्य शीर्ष 2217-शहरी विकास- उप मुख्य शीर्ष-01-राज्य की राजधानी का विकास-लघु शीर्ष-191-नगर निगम को सहायता-उपशीर्ष-0115-परिवहन के लिए शहरी स्थानीय निकायों को सहायक अनुदानविपत्र कोड-P2217011910115, मुख्य शीर्ष 2217-शहरी विकास- उप मुख्य शीर्ष-03-छोटे तथा मध्यम श्रेणी

के नगरों का समेकित विकास -लघु शीर्ष-193-नगर पंचायतों-अधिसूचित क्षेत्र की समितियों या उनके समतुल्य को सहायता-उपशीर्ष-0103-परिवहन के लिए शहरी स्थानीय निकायों को सहायक अनुदान विपत्र कोड-P2217031930163, मुख्य शीर्ष 2217-शहरी विकास- उप मुख्य शीर्ष-01-राज्य की राजधानी का विकास-लघु शीर्ष-789-अनुसूचित जातियों के लिए विशेष घटक योजना -उपशीर्ष-0102-परिवहन के लिए शहरी स्थानीय निकायों को सहायक अनुदान विपत्र कोड-P2217017890102, मुख्य शीर्ष 2217-शहरी विकास- उप मुख्य शीर्ष-03-छोटे तथा मध्यम श्रेणी के नगरों का समेकित विकास -लघु शीर्ष-789-अनुसूचित जातियों के लिए विशेष घटक योजना -उपशीर्ष-0102-परिवहन के लिए शहरी स्थानीय निकायों को सहायक अनुदान विपत्र कोड-P2217037890102, एवं मुख्य शीर्ष 2217-शहरी विकास- उप मुख्य शीर्ष-03-छोटे तथा मध्यम श्रेणी के नगरों का समेकित विकास -लघु शीर्ष-796-जन जातीय क्षेत्रीय उप-योजना -उपशीर्ष-0101-परिवहन के लिए शहरी स्थानीय निकायों को सहायक अनुदान विपत्र कोड-P2217037960101 से राशि उपलब्ध कराया जायेगा।

(ii) शहरी स्थानीय निकायों द्वारा इस योजना का अलग खाता खोला जाएगा। पंचम राज्य वित्त आयोग से प्राप्त अनुदान की राशि की इस योजना हेतु कर्णांकित राशि इस खाते में रखी जाएगी। राज्य स्तर से प्राप्त होने वाली राशि भी इसी खाते में रखी जाएगी।

6. अनुश्रवण की व्यवस्था

- (i) संबंधित नगर निकाय बोर्ड, नगर निकाय स्तर पर योजना के अनुश्रवण के लिए जिम्मेवार होंगे।
- (ii) जिला स्तर पर जिला पदाधिकारी योजनाओं के अनुश्रवण की व्यवस्था करेंगे।
- (iii) राज्य स्तर पर प्रधान सचिव/सचिव की अध्यक्षता में एक समिति निम्नवत होगी, जो "राज्य स्तरीय समन्वय एवं अनुश्रवण समिति" के रूप में कार्य करेगी -

विशेष सचिव	सचिव (सदस्य)
मुख्य अभियंता	सदस्य
नोडल पदाधिकारी	सदस्य

7. गुणवत्ता नियंत्रण :-

- (i) प्रथम स्तर- निकाय स्तर पर संवेदक/प्रमारी अभियंता द्वारा गुणवत्ता सुनिश्चित की जायेगी।
- (ii) द्वितीय स्तर- जिला गुणवत्ता समन्वयक (District Quality Monitor-DQM):- इसके लिए जिला स्तर पर सेवानिवृत्त कार्यपालक अभियंता/सेवानिवृत्त प्रशासनिक पदाधिकारी का पैनल तैयार किया जाएगा। इसके लिए प्रशासी विभाग द्वारा समय-समय पर इसके संबंधित विस्तृत आदेश/दिशा निर्देश/अनुदेश निर्गत किया जायेगा। बिहार विकास मिशन के जिला स्तरीय "परियोजना प्रबंध इकाई" के विशेषज्ञों द्वारा भी अनुश्रवण किया जायेगा।
- (iii) तृतीय स्तर- राज्य गुणवत्ता समन्वयक (State Quality Monitor-SQM):- इसके लिए सेवानिवृत्त अभियंता प्रमुख/मुख्य अभियंता/अधीक्षण अभियंता तथा सेवानिवृत्त वरिष्ठ प्रशासनिक पदाधिकारियों (उप सचिव स्तर एवं उपर) का राज्य स्तरीय पैनल तैयार किया गया है। इसके लिए प्रशासी विभाग द्वारा समय-समय पर विस्तृत आदेश/निर्देश/अनुदेश निर्गत किया जायेगा।
- (iv) तृतीय पक्ष निरीक्षण- सभी योजनाओं के प्रमुख सामग्रियों यथा पाईप, पम्प, मोटर, ट्रांसफॉर्मर आदि के लिए Third Party Inspection अनिवार्य होगा।

आदेश:- आदेश दिया जाता है कि इस संकल्प को बिहार राजपत्र के असाधारण अंक में सर्वसाधारण की जानकारी हेतु प्रकाशित किया जाये एवं इसकी प्रति सरकार के सभी विभागों/विभागाध्यक्षों/प्रमंडलीय आयुक्तों/जिला पदाधिकारियों/नगर निकायों/महालेखाकार, बिहार, पटना को सूचनार्थ भेजी जाय।

बिहार राज्यपाल के आदेश से

[Signature]
24.2.16
(अमृत लाल मीणा),

सरकार के प्रधान सचिव।

ज्ञापांक: 2ब०/मु०शा०ना०ग०यो०-30-01/2016/1288

/न०वि०एवं आ०वि०/दिनांक: 25/2/16

प्रतिलिपि:- अध्यक्ष, राजकीय मुद्रणालय, गुलजारबाग, पटना को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित। उनसे अनुरोध है कि इसे बिहार राजपत्र के अगले असाधारण अंक में प्रकाशित करते हुए इसकी 500 प्रतियाँ विभाग को उपलब्ध करायी जायें।

[Signature]
24.2.16

सरकार के प्रधान सचिव।

ज्ञापांक: 2ब०/मु०शा०ना०ग०यो०-30-01/2016/1288

/न०वि०एवं आ०वि०/दिनांक: 25/2/16

प्रतिलिपि:- मुख्य सचिव, बिहार/विकास आयुक्त, बिहार/ महामहिम राज्यपाल के प्रधान सचिव/माननीय मुख्यमंत्री के प्रधान सचिव/प्रधान सचिव/सचिव, सभी विभाग/विभागाध्यक्ष, बिहार सरकार/माननीय विभागीय मंत्री के आप्त सचिव/विभागीय प्रधान सचिव के प्रधान आप्त सचिव/महालेखाकार, बिहार, पटना/स्थानीय लेखा परीक्षक, बिहार, पटना/सभी प्रमंडलीय आयुक्त/सभी- जिला पदाधिकारी/प्रबंध निदेशक, बुडको/प्रबंध निदेशक, बिहार राज्य जल पर्वद, पटना/प्रबंध निदेशक, बिहार राज्य आवास बोर्ड/टीम लीडर, स्पर/नगर आयुक्त, सभी नगर निगम/नगर कार्यपालक पदाधिकारी, सभी नगर परिषद/सभी नगर पंचायत/मुख्य अभियंता/अधीक्षण अभियंता, बुडा/कोषागार पदाधिकारी, सभी कोषागार, बिहार/सभी कार्यपालक अभियंता तथा सभी सहायक अभियंता, जिला शहरी विकास अभिकरण, बिहार/सभी विभागीय पदाधिकारियों को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

[Signature]
24.2.16

सरकार के प्रधान सचिव।

ज्ञानरु.

बिहार सरकार नगर विकास एवं आवास विभाग।

॥ संकल्प ॥

विषय:- शहरी क्षेत्र में हर घर तक पाईप जलापूर्ति के लिए "मुख्यमंत्री शहरी पेयजल निश्चय योजना" के प्रवर्तन एवं कार्यान्वयन के संबंध में।

मंत्रिमंडल सचिवालय विभाग की संकल्प संख्या- 673, दिनांक- 21.12.2015 द्वारा अधिसूचित राज्य सरकार के 7 निश्चयों में शहरी क्षेत्रों में हर घर तक पाईप जलापूर्ति सुनिश्चित करने के संबंध में शामिल निश्चय का उद्धरण निम्नवत है:-

"बिहार के हर नागरिक को स्वच्छ पेयजल मिले इसके लिए सभी घरों में पाईप जल की सुविधा सुनिश्चित की जाएगी। अगले पांच वर्षों में चापाकल और पेयजल के अन्य साधनों पर लोगों की निर्भरता को पूरी तरह से खत्म किया जाएगा।"

इसके लिए नगर विकास के अंतर्गत राज्य के शहरी क्षेत्रों में रहने वाले सभी परिवारों को नल के माध्यम से शुद्ध पेयजल उपलब्ध कराया जाएगा।

इस उद्देश्य की पूर्ति हेतु राज्य सरकार द्वारा पूर्ण विचारोपरान्त एक नई योजना "मुख्यमंत्री शहरी पेयजल निश्चय योजना" प्रवर्तित एवं कार्यान्वित कराने का निर्णय लिया गया है।

2. पृष्ठभूमि

(i) वर्ष 2011 की जनगणना के अनुसार शहरी क्षेत्रों में लगभग 20,13,671 परिवार निवास करते थे। वर्ष 2020 तक शहरी क्षेत्रों में रहने वाले परिवारों की संख्या 24,16,405 अनुमानित है।

(ii) सरकार द्वारा वर्तमान में राज्य योजना के अंतर्गत बिहार राज्य जल पर्वट के माध्यम से 32 नगर निकायों में पेय जलापूर्ति योजना का कार्यान्वयन किया जा रहा है, जिसमें लगभग 98,405 परिवार आच्छादित होने का अनुमान है। एशियन डेवलपमेंट बैंक (ADB) से सहायता प्राप्त करके भागलपुर शहर में पेय जलापूर्ति योजना का कार्यान्वयन किया जा रहा है। जिसमें लगभग 80,000 परिवार आच्छादित होने का अनुमान है। केन्द्र सरकार द्वारा लागू की गयी Atal Mission for Rejuvenation & Urban Transformation (AMRUT)के अंतर्गत 14 शहरों की पेयजल आपूर्ति योजना की मंजूरी प्राप्त हुई है, जिससे लगभग 3,70,685 परिवार आच्छादित होने का अनुमान है।

(iii) शेष बचे लगभग 14,64,581 परिवारों को पाईप जलापूर्ति उपलब्ध कराने के उद्देश्य से "मुख्यमंत्री शहरी पेयजल निश्चय योजना" लागू की जानी है।

3. योजना का उद्देश्य

योजना के निम्नांकित उद्देश्य है :-

(i) इस योजना के अंतर्गत अगले 5 वर्षों में सभी शहरी परिवारों को पाईप जलापूर्ति के माध्यम से शुद्ध पेयजल उपलब्ध कराना है।

(ii) बिहार नगर पालिका अधिनियम 2007 के अंतर्गत नगर निकायों को प्रतिनिधायित्व दायित्वों में पेयजल का संचारण शामिल है। तदनुसार शहरी स्थानीय निकायों की क्षमता विकास करना एवं पेयजल आपूर्ति योजनाओं के संचारण हेतु सक्षम बनाना भी इस योजना का घटक है।

(iii) योजना के अंतर्गत जलापूर्ति के आधारभूत ढाँचा का निर्माण शहरी स्थानीय निकायों को साथ बिहार राज्य जल पर्वद द्वारा किया जाएगा। तदनुसार बिहार राज्य जल पर्वद का क्षमता वृद्धि भी इस योजना का घटक है।

(iv) "नगर अभियंत्रण संगठन" की क्षमता वृद्धि भी इस योजना का घटक है।

4. रणनीति

(i) इस योजना के अंतर्गत शहरी क्षेत्रों की सघन एवं निरंतर बसे घरों के लिए पेय जलापूर्ति सुनिश्चित करने के लिए आवश्यकता आधारित सतही जल/भूगर्भीय जल का उपयोग करके योजनाएँ बनायी जाएगी। लगभग 15-20 प्रतिशत क्षमता Overhead Tank के माध्यम से सृजित की जाएगी एवं शेष क्षमता के लिए Direct Pumping से आपूर्ति करने का प्रावधान किया जाएगा।

(ii) ऐसी बसावटें, जो शहरी क्षेत्रों के किनारे पर अलग से स्थित हैं, उनमें छोटी विकेंद्रित योजनाएँ ली जाएगी, जिसमें बोरिंग कर समरसेबुल पम्प के माध्यम से Direct Pumping किया जाएगा।

(iii) शहरी स्थानीय निकायों की सक्रिय भागीदारी सुनिश्चित करने के प्रयोजन से छोटी जलापूर्ति योजनाओं का कार्यान्वयन शहरी स्थानीय निकायों द्वारा किया जाएगा। बिहार राज्य जल पर्वद द्वारा मॉडल परियोजना तैयार करके, सक्षम तकनीकी स्वीकृति के उपरांत, नगर निकायों को उपलब्ध कराया जाएगा। नगर निकायों द्वारा उनके पास उपलब्ध निधि से वार्ड के अंदर या अंतरवार्ड महत्व की छोटी योजनाओं का कार्यान्वयन कराया जाएगा।

(iv) इस क्रम में शहरी स्थानीय निकायों, पूर्व से गाढ़े गये टयूबवेल, जिनका जीर्णोद्धार करना हो या क्षमता विकसित करनी है, उसके लिए भी कार्य ले सकेंगे।

(v) छोटी जलापूर्ति योजनाओं का कार्यान्वयन शहरी स्थानीय निकायों द्वारा किया जाएगा। शहरी स्थानीय निकायों द्वारा प्रस्तुत योजनाओं पर तकनीकी स्वीकृति बिहार राज्य जल पर्वद के मुख्य अभियंता के स्तर पर गठित समिति द्वारा की जायेगी। इस संबंध में समय-समय पर नगर विकास एवं आवास विभाग द्वारा दिशा निर्देश दिया जायेगा।

(vi) योजना का क्रियान्वयन 'E-tendering' के माध्यम से ही किया जायेगा।

(vii) नगर विकास एवं आवास विभाग द्वारा सरकार के निश्चय की प्राप्ति के उद्देश्य से योजना की मार्गदर्शिका में समय-समय पर आवश्यक संशोधन किया जा सकेगा।

5. निधि की व्यवस्था एवं बजट प्रावधान

(i) AMRUT से आच्छादित योजनाओं के अलावा बची हुई बड़ी योजनाओं का कार्यान्वयन राज्य योजना से बिहार राज्य जल पर्यद द्वारा कराया जाएगा। शहरी स्थानीय निकायों को प्राप्त होने वाली 14वें वित्त आयोग की 30 प्रतिशत धनराशि शहरी स्थानीय निकायों द्वारा अनिवार्य रूप से पाईप जलापूर्ति योजनाओं के लिए कर्णांकित की जायेगी। इसी प्रकार राज्य वित्त आयोग की अनुशंसा के आलोक में प्राप्त होने वाली विकास मद की राशि का न्यूनतम 30 प्रतिशत पाईप जलापूर्ति योजना के लिए कर्णांकित किया जाएगा। दोनों स्रोतों से कर्णांकित कुल राशि के बराबर समतुल्य राशि राज्य योजना से संबंधित शहरी स्थानीय निकायों को पेय जलापूर्ति योजनाओं के कार्यान्वयन के लिए सहायक अनुदान के रूप में अतिरिक्त आवंटित की जाएगी, जिसकी निकासी मांग सं०- 48 मुख्य शीर्ष 2215-जलापूर्ति एवं सफाई-उप मुख्य शीर्ष- 01-जलापूर्ति के विभिन्न उपशीर्षों से की जाएगी। इन योजनाओं का कार्यान्वयन शहरी स्थानीय निकायों द्वारा किया जाएगा।

(ii) शहरी स्थानीय निकायों द्वारा इस योजना का अलग खाता खोला जाएगा। 14वें वित्त आयोग एवं पंचम राज्य वित्त आयोग से प्राप्त अनुदान की राशि की इस योजना हेतु कर्णांकित राशि इस खाते में रखी जाएगी। राज्य स्तर से प्राप्त होने वाली राशि भी इसी खाते में रखी जाएगी।

6. अनुश्रवण की व्यवस्था

(i) संबंधित नगर निकाय बोर्ड, नगर निकाय स्तर पर योजना के अनुश्रवण के लिए जिम्मेवार होंगे।

(ii) राज्य स्तर पर प्रधान सचिव/सचिव की अध्यक्षता में एक समिति निम्नवत् होगी, जो राज्य स्तरीय समन्वय एवं अनुश्रवण समिति के रूप में कार्य करेगी:-

प्रबंध निदेशक, बिहार राज्य जल पर्यद	:-सचिव
मुख्य अभियंता, लोक स्वास्थ्य अभियंत्रण विभाग	:-सदस्य
संबंधित नगर निकाय के प्रतिनिधि	:-सदस्य

7. गुणवत्ता निर्यंत्रण

(i) प्रथम स्तर- निकाय स्तर पर संवेदक/प्रभारी अभियंता द्वारा की जायेगी।

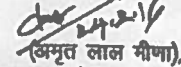
(ii) द्वितीय स्तर- जिला गुणवत्ता समन्वयक (District Quality Monitor-DQM) इसके लिए जिला स्तर पर सेवानिवृत्त कार्यपालक अभियंता/सेवानिवृत्त प्रशासनिक पदाधिकारी का पैनल तैयार किया जाएगा। इसके लिए प्रशासी विभाग द्वारा समय-समय पर इससे संबंधित विस्तृत आदेश/दिशानिर्देश/अनुदेश निर्गत किया जायेगा। बिहार विकास मिशन के जिला स्तरीय "परियोजना प्रबंधन इकाई" के विशेषज्ञों द्वारा भी अनुश्रवण किया जाएगा।

(iii) तृतीय स्तर- राज्य गुणवत्ता समन्वयक (State Quality Monitor-DQM) इसके लिए सेवानिवृत्त अभियंता प्रमुख/मुख्य अभियंता/अधीक्षण अभियंता तथा सेवानिवृत्त वरीय प्रशासनिक पदाधिकारियों (उप सचिव स्तर एवं उपर) का राज्य स्तरीय पैनल तैयार किया गया है। इसके लिए प्रशासी विभाग द्वारा समय-समय पर विस्तृत आदेश/निर्देश/अनुदेश निर्गत किया जायेगा।

(iv) Third Party Inspection-सभी योजनाओं के प्रमुख सामग्रियों यथा पाईप पम्प, मोटर, ट्रान्सफार्मर आदि के लिए अनिवार्य होगा। इस संबंध में Specification के लिए विभागीय मुख्यालय की समिति एवं IS Specification से सहयोग प्राप्त किया जायेगा।

आदेश:- आदेश दिया जाता है कि इस संकल्प को बिहार राजपत्र के असाधारण अंक में सर्वसाधारण की जानकारी हेतु प्रकाशित किया जाये एवं इसकी प्रति सरकार के सभी विभागों/विभागाध्यक्षों/प्रमंडलीय आयुक्तों/जिला पदाधिकारियों/नगर निकायों/महालेखाकार, बिहार, पटना को सूचनार्थ भेजी जाय।

बिहार राज्यपाल के आदेश से



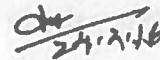
(अमृत लाल मिश्रा),
सरकार के प्रधान सचिव।

ज्ञापांक: 2ब०/जला०-01-01/2016 1287 /न०वि०एवं आ०वि०/दिनांक: 25/2/16
प्रतिलिपि:- अधीक्षक, राजकीय मुद्रणालय, गुलजारबाग, पटना को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित। उनसे अनुरोध है कि इसे बिहार राजपत्र के अगले असाधारण अंक में प्रकाशित करते हुए इसकी 500 प्रतियाँ विभाग को उपलब्ध करायी जायें।



सरकार के प्रधान सचिव।

ज्ञापांक: 2ब०/जला०-01-01/2016 1287 /न०वि०एवं आ०वि०/दिनांक: 25/2/16
प्रतिलिपि:- मुख्य सचिव, बिहार/विकास आयुक्त, बिहार/ महामहिम राज्यपाल के प्रधान सचिव/माननीय मुख्यमंत्री के प्रधान सचिव/प्रधान सचिव/सचिव, सभी विभाग/विभागाध्यक्ष, बिहार सरकार/माननीय विभागीय मंत्री के आप्त सचिव/विभागीय प्रधान सचिव के प्रधान आप्त सचिव/महालेखाकार, बिहार, पटना/स्थानीय लेखा परीक्षक, बिहार, पटना/सभी प्रमंडलीय आयुक्त/सभी जिला पदाधिकारी/प्रबंध निदेशक, बुडको/प्रबंध निदेशक, बिहार राज्य जल पर्यद, पटना/प्रबंध निदेशक, बिहार राज्य आवास बोर्ड/टीम लीडर, स्पर/नगर आयुक्त, सभी नगर निगम/नगर कार्यपालक पदाधिकारी, सभी नगर परिषद/सभी नगर पंचायत/मुख्य अभियंता/अधीक्षण अभियंता, बुडा/कोषागार पदाधिकारी, सभी कोषागार, बिहार/सभी कार्यपालक अभियंता तथा सभी सहायक अभियंता, जिला शहरी विकास अभिकरण, बिहार/सभी विभागीय पदाधिकारियों को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।



सरकार के प्रधान सचिव।



November 21, 2017

BIL/SMARTX/BIHARSHARIF/01

To,

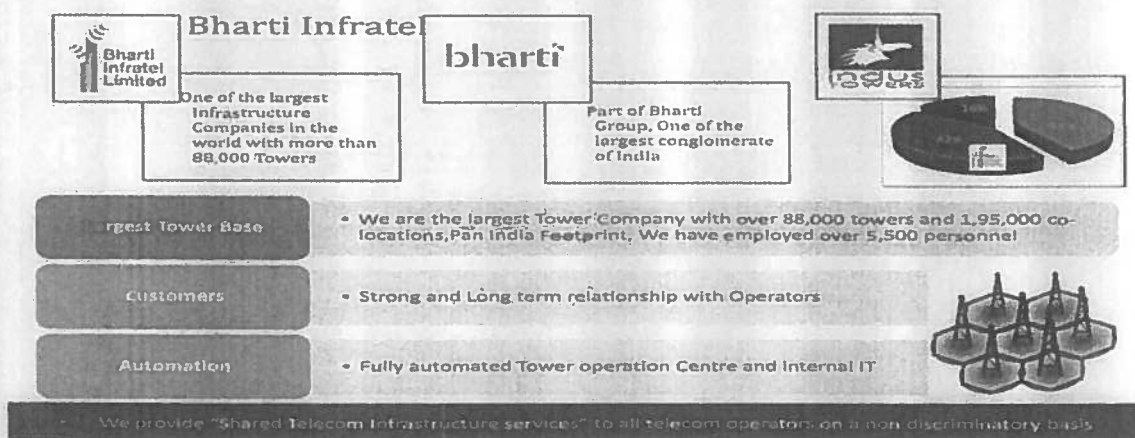
The Municipal Commissioner
Bihar sharif Municipal Corporation
Bihar

Sub: Expression of interest/ Letter of association towards providing smart solutions to Bihar sharif smart city project

Dear Sir,

This refers to the captioned subject matter, we are pleased to express our interest in providing smart solutions to Bihar sharif smart city project and are keen in associating with the upcoming smart city in Bihar towards the same .In line with the requirements of smart city we are keen to offer the smart solutions keeping in line the beautification and authenticity of the city under PPP model.

We, Bharti Infratel Ltd. (Infratel) are one of India's largest telecom passive infrastructure provider (IP-I category) company duly registered with the Department of Communications, Ministry of Communications and IT, Government of India, and engaged inter alia in the maintenance and erection of telecom towers and sharing the same with various licensed telecom operators. Infratel deploys, owns and manages telecom towers and communication structures, for all wireless operators across various states of Union of India, including the state of Bihar. We are providing our services to all operators incumbent (viz BSNL, Reliance, RJIO,Idea, Airtel, Vodafone, Telenor, TTSL & others). An overview of Bharti Infratel is provided below



Bharti Infratel Limited
CIN: L64201DL2006PLC156038
Alankar Business Centre, 2nd Floor,
East Boring Canal Road, Budha Colony,
Patna - 800001, Bihar
Phone: +91 612 6604100
Email: info@bharti-infratel.in
www.bharti-infratel.com

Handwritten signature



Registered Office
Bharti Crescent
1, Nelson Mandela Road, Vasant Kunj
Phase II, New Delhi -110070, India

Implementation of Green Initiatives

1 Solar Installations and Diesel Free Towers

- Close to 3,070 solar powered towers with installed capacity of over 11 MW
- Over 33,750 (38% of the Portfolio) towers across the network are Green towers

2 Improving Energy Efficiency of Towers

- Implemented hybrid battery bank solutions in towers across the country
- Installed variable speed diesel generator (DG) sets in various sites

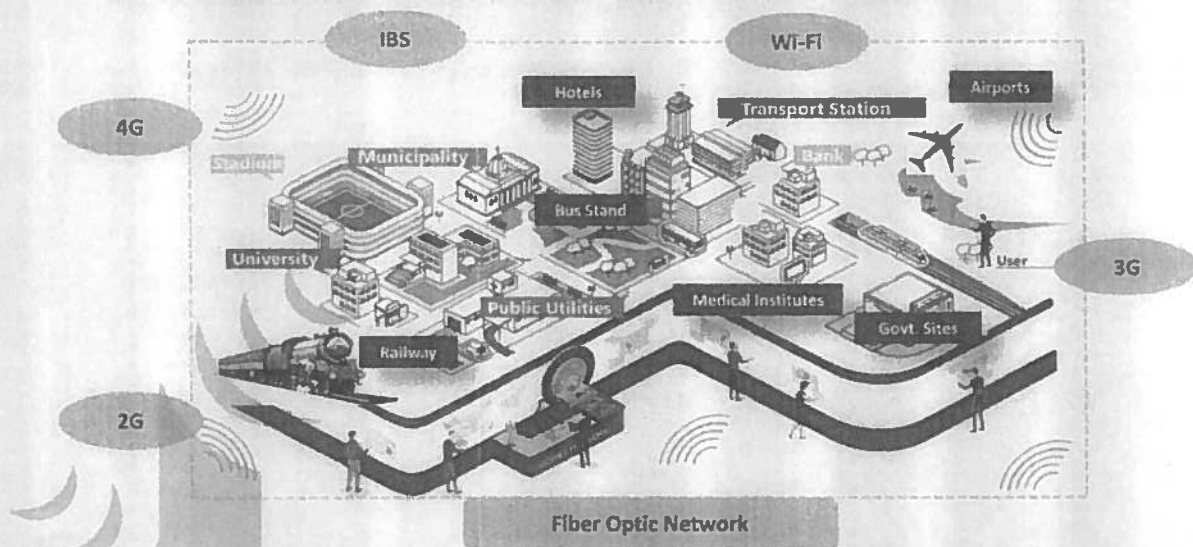
3 Reduction of Power Consumption via Free Cooling Units (FCU)

- FCUs utilize the outside ambient air for cooling the shelter

Infratel is pioneer in saving energy and has been recognized for this effort globally

In line with the requirement of the Bihar sharif smart city we can offer various smart solutions, some of which are highlighted below

Bharti Infratel In-roads into smart infrastructure



Telecom solutions implementation at Airports, Railways, Hospitals & Large Institutions.
Bharti Infratel is running Wi-Fi services of similar kind in major Airports

W



We are glad to introduce some more of our innovative product installed at various parts of India

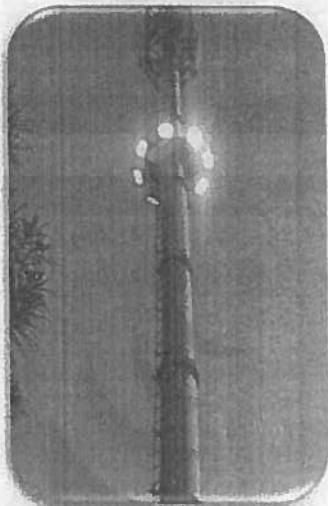
1. Ground based smart monopoles with Telecom solution and automated LED lights



Bhopal Smart City



Guwahati Smart city (POC)



Ranchi Smart city

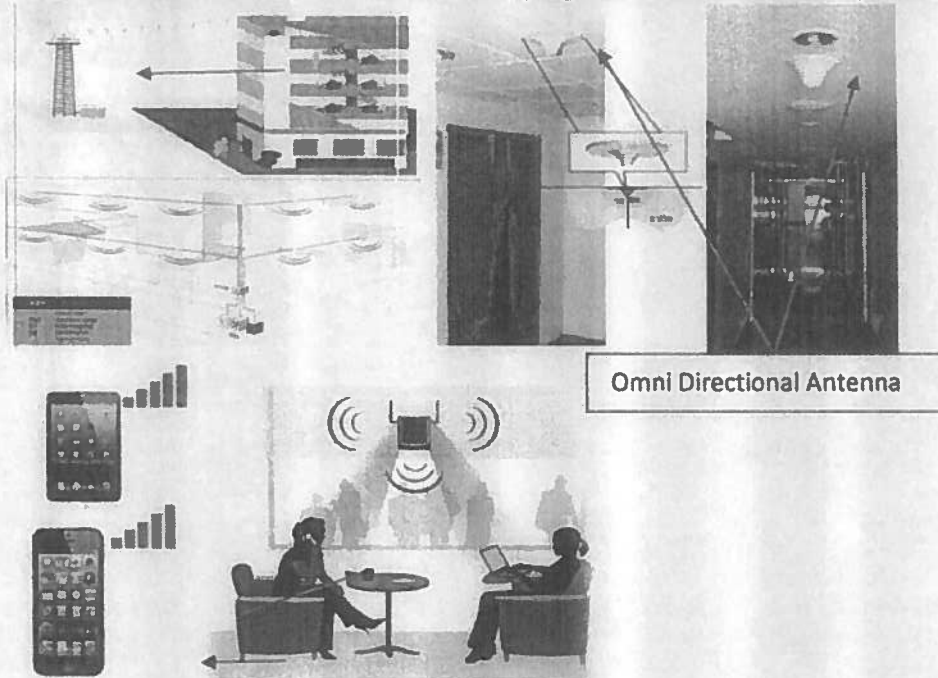


Guwahati Smart city (POC)

SV



2. In Building Solutions/ Wi-Fi for enhancing indoor connectivity at places such as government offices, admin blocks, shopping malls, commercial complexes, hotels, etc.



At Patna airport, Ranchi Airport, Hotel Capitol Hill Ranchi, Hotel Capitol residency Ranchi

With technology as a key component for the implementation of smart cities, mobile and fixed line technologies will be a key enabler in this digitization process. Mobile technologies such as 2G/3G/4G and Wi-Fi along with fixed networks of Fiber and cable will be vital to realize the government's vision of smart cities, as well enhancing the delivery of healthcare and education services. This will not only transform the standard of healthcare, education and urban living, but will also ensure that IoT (Internet of Things) becomes a reality in India.

The amount of mobile data generated globally and in India is staggering and showing signs of tremendous growth. This growth is largely driven by insatiable demand for innovative smart phones, tablets, and connected devices, as well as mobile applications and content. It then becomes imperative to develop shared infrastructure to be offered on nondiscriminatory basis to all telecom service providers. The shared infrastructure is also important because some technologies / standards might work in an unlicensed spectrum band and hence are prone to interference. Robust and ubiquitous telecom networks are required to be deployed to achieve the digital vision. In order to support the cause Bharti Infratel Ltd. would like to seek permission for developing shared telecom Infrastructure in earmarked locations / buildings / properties. The objective of this proposal is to build infrastructure / network to enable telecom services such as 2G/3G/4G/ Next Generation services/Optical Fiber and Wi-Fi for a period of about 15 years (Extendable for further mutually agreed period) at earmarked locations.



Key deliverables:

- Design and implement shared Infrastructure on a non-discriminatory basis.
- Installation of telecom equipment to enable telecom services (2G/3G/4G/Wi-Fi/Next Gen) on existing street light poles. Build, operate and manage new poles wherever required
- Lay underground optical fibre cables to provide services to licensed telecom service providers.
- Create shared Wi-Fi hotspots

Period of the contract:

The period of the contract shall be of 15 years. The same shall be extendable with the mutual consent.

Scope of the Proposal:

The Scope for Bharti Infratel Ltd. to build and monetize the sharable Infrastructure is,

(a) Street Light Poles / New Poles:

- Installation of telecom equipment to enable telecom services (2G/3G/4G/Wi-Fi/Next Gen) on existing street light poles. Build, operate and maintain new poles wherever required for the period of contract. Deploy standard telecom Poles to be shared by multiple operators take approval for the space required to put up a tower from the Authority concerned
- The deployment of Tower shall be carried out without disturbing any public utility or services and in coordination with Authority concerned
- Provide arrestors for protection from lightening

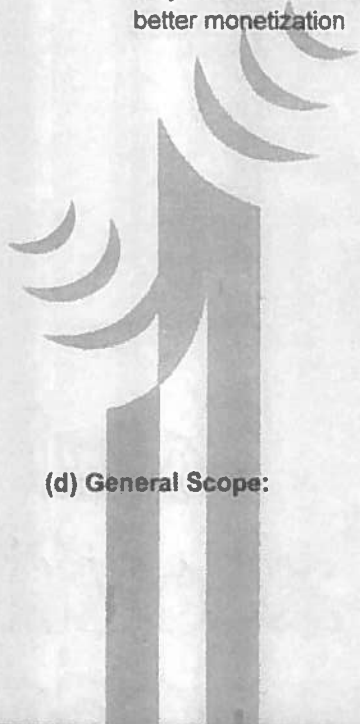
(b) IBS / Wi-Fi:

- Shall deploy Wi-Fi hotspots at the allocated locations to allow internet access.
- Shall lay Optical fibre cables or use Wireless medium as a backhaul to support fast internet access
- Shall provide Wi-Fi Services to all subscribers free of cost for 20 minutes with maximum download limit of 50 MB per day and an aggregate limit of 200 MB per month

(c) Optical Fibre:

- Shall lay optical fibre and ducts in order to create a backhaul for reliable internet access
- May also connect other locations / poles with Optical fibre to create an integrated network for better monetization

(d) General Scope:



[Handwritten signature]



(d) General Scope:

- Shall obtain all approvals, permits, etc. from all concerned and required authorities, etc. at its own cost.
- Shall ensure regular and timely payments of all amounts due to Government and discharge all obligations.
- Shall not discriminate in sharing the Infrastructure established by it
- Shall install sub meters and make actual payment on account of electricity as per the actual usage.

Obligation of Municipal Corporation:

- Shall facilitate the concept, execution and coordination of the program mentioned under this proposal
- Shall assist in addressing in any regulatory issues in achieving the object by present Proposal and assist in getting approvals from Government agencies.
- Shall provide 24x7 electricity to fulfil the objective of this Proposal. However, electricity bill shall be paid on actual by Bharti Infratel Ltd. for the scope mentioned above.
- Shall provide Right of way to establish & maintain infrastructure to be installed under this proposal
- Shall provide permission to lay trench/ducts, HDD(permission of digging roads for laying fibre to fulfill the objective of this proposal
- The route allotted to Bharti Infratel Ltd. for laying OFC shall not be allotted to any other party for the term of the contract

Free ROW (Right of Way) for,

- i. Deploying roof top and ground based towers / mast / poles with adequate space
- ii. Deploying Access points/Antennas and other related Infrastructure in the premises/venue/area
- iii. Laying Optical Fibre Cables
- iv. 24x7 access to the site for operation and maintenance

Special terms and conditions:

- Shall be responsible for obtaining necessary permissions from Department of Telecommunication [DOT] and comply with all guidelines issued by DOT from time to time. Any Law / Instruction issued by Local Authority, in this regard, shall also be adhered to.
- Once the specific location is allotted in favor of Bharti Infratel Ltd, no new permission to be accorded for the same location to any other party.
- Bharti Infratel Ltd. will have exclusive right to earn revenue on account of the following sources but not limited to,
 - Leasing towers to different Telecom service providers
 - Usage of Wi-Fi beyond the free period of 20 Minutes per day
 - Selling Optical fiber to Operators
 - Any other revenue source that the Bharti Infratel Ltd. has envisaged
- Bharti Infratel Ltd. limited will execute agreement with Bihar sharif Municipal Corporation for every allotted location on mutually agreed terms and conditions.

SV



Annexures - 1

01. Bharti Infratel smart city offerings for Biharsharif smart city.

We look forward to associate with you and the upcoming smart city project to contribute towards the development of the smart City Bihar sharif.

Thanking You

Vijay Prakash
M/S Bharti Infratel Ltd.




AS





ट्रेड यूनियन ऐक्ट के अन्तर्गत निर्बाधित संघे शक्ति कलियुगे निबंधन संख्या 2525 वर्ष 1981

फेयर प्राइस डीलर्स एसोसिएशन नालन्दा जिला

वरुण कुमार सिंह (जन वितरण प्रणाली "भारत सरकार की योजना, वर्ष 1979" के अन्तर्गत उचित मूल्य के दूधनवाटो च विहार राज्य संगठन)
जिला सचिव फोन :- 0612-8530388, 9334298156
मो- 9334137330 नि० कार्यालय -मिखना पहाड़ी, पटना- 4 प्रधान कार्यालय- उझान टोला, न्यूबाईपास, अनिसाबाद, पटना-2
जिला शाखा कार्यालय- अम्बेर, बिहारशरीफ, नालन्दा

पत्रांक-20 सेवा में,

दिनांक 21-03-2017

नगर आयुक्त,
बिहारशरीफ, नगर निगम, नालन्दा।

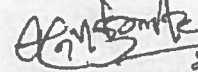
विषय:- Smart City Challenge Stage - 2 के Round 3 में
बिहारशरीफ नगर निगम को स्मार्ट सिटी घोषित करने हेतु
अपनी भागीदारी दर्ज करने के संबंध में।

महाशय,

उपयुक्त विषय के संबंध में कहना है कि बिहारशरीफ नगर निगम द्वारा
Smart City Challenge Stage - 2 के Round 3 में बिहारशरीफ नगर निगम को
स्मार्ट सिटी घोषित किये जाने हेतु प्रोपोजल तैयार किया गया है। नगर निगम द्वारा
तैयार किया गया प्रोपोजल सभी दृष्टिकोण से सही है एवं प्रोपोजल में नगरवासियों
को बेहतर सुविधा मुहैया हों इसके लिए बेहतर कार्य किये गये हैं।

हम फेयर प्राइस डीलर्स एसोसिएशन, नालन्दा की ओर से
बिहारशरीफ को स्मार्ट सिटी बनाने के लिए अपनी शुभेच्छा प्रेषित करते हुये नगर
निगम को सहयोग करना चाहते हैं। नगर निगम के इस प्रयास में पूरी सहायता के
लिए हम संघ के सभी सदस्य सदैव तत्पर हैं।

विश्वासभाजन


21.3.17

(वरुण कुमार सिंह)

जिला सचिव,

फेयर प्राइस डीलर्स एसोसिएशन, नालन्दा,
बिहारशरीफ नालन्दा।

Nalanda District Bar Association

BIHAR SHARIF (NALANDA)



नालन्दा जिला अधिवक्ता संघ

बिहार शरीफ (नालन्दा) पिन कोड 803909

पत्रांक 11/2017

दिनांक 18.08.2017

सेना में

श्री मान नगर आशुक्त

बिहार शरीफ, नगर निगम, नालन्दा

विषय: Smart City Challenge Stage-2 के
Round 3 में बिहार शरीफ, नगर निगम को
स्मार्ट सिटी घोषित करने हेतु अपनी भागी
दारी करने के सम्बन्ध में।

महोदय,

अभूक्त विषयक के सम्बन्ध में कहना है, कि
बिहार शरीफ, नगर निगम द्वारा Smart City
Challenge Stage-2 के Round-3 में बिहार शरीफ
नगर निगम को स्मार्ट सिटी घोषित करने हेतु
प्रोपोजल तैयार किया गया है। नगर निगम द्वारा तैयार
किया गया प्रोपोजल सभी शर्तों से पूर्ण है एवं
प्रोपोजल में नगरवासियों से केहर भविष्य प्रस्ताव
को सर्वेक्षण के लिए केहर प्रस्ताव किया गया है।

हम सभी नालन्दा जिला अधिवक्ता संघ,
बिहार शरीफ की ओर से बिहार शरीफ को स्मार्ट सिटी बनाने
के लिए अपनी शुभेच्छा प्रेषित करते हुए आपको धन्यवाद
कहा करते हैं। आपके इस प्रयास में हर कदम सफलता
के लिए हम सदैव साथ हैं।

Anand Kumar

18-08-2017
General Secretary

Nalanda Dist Bar Association

Bihar Sharif



Lions Club of Biharsharif

Session 2016 - 17

President
Lion Arvind Kumar Singh
Mob. : 9572596566

Treasurer
Lion Vikash Kumar Rastogi
Mob. : 9835052150

Secretary
Lion Atul Rastogi
Mob. : 9334800796

Directors
Lion Shyam Bhatta, Mob. : 9334879913
Lion Sadhu An. Deyar, B.N.G. Mob. : 9935227969
Lion Mahesh An. Gupta, Mob. : 9835410666
Lion Sanil Kumar, Mob. : 8229900832

P.R.O. / Com Proce. Postar Director
Lion Arvind An. Singh, Mob. : 9572596566

Lion's Quest
Lion Manoj Kumar (T.M.'M)
Mob. : 993452 034
Lion Rishi Kumar, Mob. : 9572596566
Lion Gertanaji, Mob. : 9386544161

Environment
Lion N.K. Shaha, Mob. : 9931076730
Lion Mahesh An. Gupta, Mob. : 9835410666
Lion L. pendru Kumar, Mob. : 9334815957
Lion (Dr.) Anas Shaha, Mob. : 9931291299
Lion Sanil Kumar, Mob. : 8229900832
Lion Deepika, Mob. : 9525364555

Hunger First
Lion Manoj An. Sarava, Mob. : 9939053576
Lion Bahubal Prasad, Mob. : 7677173257
Lion Santosh Kumar, Mob. : 9334813323
Lion Sharda Devi, Mob. : 8229400885

Blood Donation
Lion Farhad Arif, Mob. : 9631030763
Lion Umesh An. Shaha, Mob. : 9470412973
Lion Sharda Devi, Mob. : 9470443747
Lion Seema Kumar, Mob. : 7677773067

Eye First
Lion Ajay Kumar, Mob. : 9934844724
Lion Archana, Mob. : 9835494943
Lion Nidhi Ranjan, Mob. : 9356509540
Lion Neha Rastogi, Mob. : 19472195096
Lion Ashish Kumar, Mob. : 9472412229

Lion Tamer
Lion Nikam, Mob. : 9869844823

Tall Twister
Lion Manoj An. Sarava, Mob. : 9939053576

Family Get Together
Lion Pallavi, Mob. : 7677173257
Lion Sanjay Kumar
Lion Anita Devi
Lion Gertanaji, Mob. : 9386544161
Lion Manish Gupta, Mob. : 7631899420
Lion Nirmala Shaha, Mob. : 9931291299

Ref No.

Date

सेवा में,

नगर आयुक्त
बिहारशरीफ, नगर निगम, नालन्दा।

विषय:- Smart City Challenge Stage-2
के Round 3 में बिहारशरीफ नगर
निगम को स्मार्ट सिटी घोषित करने
के लिए अपनी भागीदारी दर्ज करने के
संबंध में।

महोदय,
उपरोक्त विषय के संबंध में कृपया कि
बिहारशरीफ नगर निगम द्वारा Smart City Challenge
Stage-2 के Round 3 में बिहारशरीफ नगर निगम को
स्मार्ट सिटी घोषित किया जाये इस प्रोजेक्ट तैयार
किया गया है। नगर निगम द्वारा तैयार किया गया
प्रोजेक्ट सभी दृष्टिकोण से सही है, एवं प्रोजेक्ट में
नगरवासियों को बेहतर सुविधा मुहैया हो इसके
लिए बेहतर प्रयास किये गये हैं।

हम Lions Club, Biharsharif की
ओर से बिहारशरीफ को स्मार्ट सिटी बनाने के लिए
आपकी शुभेच्छा प्रेषित करते हुये आपका सहयोग
करना चाहते हैं। आपके इस प्रयास में हर संभव
सहायता के लिए हम सदैव तत्पर हैं।

-बिहारशरीफ
अरवि कुमार सिंह

अध्यक्ष/अध्यक्ष
लायन्स क्लब
बिहारशरीफ, नालन्दा।

नालन्दा जिला ऑटो चालक एसोशिएसन

कार्यालय:- मोहल्ला अम्बर (मोहदीनगर), बिहारशरीफ (नालन्दा)

वरुण कुमार सिंह
अध्यक्ष

पता:- मोहल्ला अम्बर (मोहदीनगर),
बिहारशरीफ (नालन्दा)
मो० नं०- 9334137330

ज्ञापांक.....15/2017.....

दिनांक.....21.3.17.....

सेवा में,

नगर आयुक्त,
बिहारशरीफ, नगर निगम, नालन्दा।


विषय:- Smart City Challenge Stage - 2 के Round 3 में
बिहारशरीफ नगर निगम को स्मार्ट सिटी घोषित करने हेतु
अपनी भागीदारी सुनिश्चित करने के संबंध में।

महाशय,

उपर्युक्त विषय के संबंध में कहना है कि बिहारशरीफ नगर निगम
द्वारा Smart City Challenge Stage - 2 के Round 3 में बिहारशरीफ नगर
निगम को स्मार्ट सिटी घोषित किये जाने हेतु प्रोजेक्ट तैयार किया गया है। नगर
निगम द्वारा तैयार किया गया प्रोजेक्ट सभी दृष्टिकोण से सही है एवं प्रोजेक्ट में
नगरवासियों को बेहतर सुविधा मुहैया हों इसके लिए बेहतर कार्य किये गये हैं।

हम नालन्दा जिला ऑटो चालक एसोशिएसन की ओर से
बिहारशरीफ को स्मार्ट सिटी बनाने के लिए अपनी शुभेच्छा प्रेषित करते हुये नगर
निगम को सहयोग करना चाहते हैं। नगर निगम के इस प्रयास में पूरी सहायता के
लिए हम संघ के सभी सदस्य सदैव तत्पर हैं।

विश्वासभाजन



(वरुण कुमार सिंह)

अध्यक्ष,

नालन्दा जिला ऑटो चालक एसोशिएसन,
बिहारशरीफ नालन्दा।



INNER WHEEL CLUB OF BIHARSHARIF

District : 325

Email ID : iiw.in.biharsharif.com

Charter No. : 3065



Touch A Heart IIW Theme 2016-17

District Chairman
Mrs. Dipti Sahay

Association President
Mrs. Prabha Raghunandan

President
Dr. Ranjana
Mob : 9546442624

Vice-President
Mrs. Sudha Gupta
Mob : 9031070342

INM. Past President
Mrs. Nirja Kumari
Mob : 9835883684

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Mob : 9835674356

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Editor
Dr. Purna Priyadarshi
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Executive Members
PP. Dr. Suniti Sinha
Mob : 9905888505
PP. Mrs. Meera Raj
Mob : 9334920982

Ref. No. :

Date : 18-03-2017

सेवा में,

नगर आयुक्त,

बिहारशरीफ, नगर निगम, नालन्दा ।

विषय :- Smart City Challenge Stage-2
के Round 3 में, बिहारशरीफ नगर
निगम को स्मार्ट सिटी घोषित करने
के लिए अपनी भागीदारी दर्ज करने के संबंध में।

महोदय,

उपरोक्त विषय के संबंध में कहना है कि
बिहारशरीफ नगर निगम द्वारा Smart City
Challenge Stage-2 के Round-3 में बिहार-
शरीफ नगर निगम को स्मार्ट सिटी घोषित करने
आने हेतु प्रोजेक्ट तैयार किया गया है। नगर
निगम द्वारा तैयार प्रोजेक्ट सभी दृष्टिकोण से
सही है एवं प्रोजेक्ट में नगरवासियों को
बेहतर सुविधा मुहैया हो इसके लिए
बेहतर प्रयास किये जा रहे हैं।

हम Inner Wheel Club Bihar Sharif
की ओर से बिहारशरीफ को Smart City
बनाने के लिए अपनी सुझाव प्रेषित करते
हुए आपको सहयोग करना चाहते हैं। आपके
इस प्रयास में हर संभव सहायता के लिए हम
सदैव तत्पर हैं।

विप्रवाह राजन

Dr. Ranjana

अध्यक्ष, स्मार्ट छहिल क्लब
बिहारशरीफ, नालन्दा



ROTARY CLUB OF BIHARSHARIF

R. I. Dist. 3250

e-mail: rotarybiharsharif@gmail.com

Club No.- 16004

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Rtn. Ravi Shankar Kumar, PHF
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Secretary

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Jahnvi Eye Care & Research Centre,
Neel Gagan Complex, Paila Pokher,
Ranchi Road, Bihar Sharif (Nalanda)
Mob.- 9934844724
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Imm. Past President

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Mob.- 9955286644, 9835216316

Vice President

Rtn. Dr. Sujit Kumar, MPH+1
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Joint Secretaries

Rtn. Dr. Ashutosh Kumar, PHF
Mob.- 9334263314
Rtn. Deepak Kumar, PHF
Mob.- 9304817280

Club Trainer

PP Rtn. Dr. Shyam Narayan Pd., MPH
Mob.- 9431061030

Sgt. at Arms

Rtn. Dr. Arbind Kumar Sinha, MPH
Mob.- 7250311443, 9905888505

Directors

Club Administration -
- Rtn. Joseph TT, PHF
8521033316

Membership -

- PP Rtn. Dr. Sumil Kumar, MPH+1
9835233232

Public Relation -

- PP Rtn. Arun Kumar Verma, PHF
9334810772

Service Projects -

- PP Rtn. Bharat Bhushan Singh
9431687729

Rotary Foundation -

- PP Rtn. Prof. Binod Kr. Sinha, MPH
9709476590

We Meet Every Tuesday @8:00 PM

सेवा में,

नगर आयुक्त,

नगर निगम, बिहारशरीफ, नानदा।

विषय:- Smart City Challenge Stage- 2 के
Round 3 में बिहारशरीफ नगर निगम को स्मार्ट
सिटी घोषित कराने हेतु अपनी जागीदारी दर्ज
करने के संबंध में।

महाराज,

उपरोक्त विषय के संबंध में कहता हूँ कि
बिहारशरीफ नगर निगम द्वारा Smart City Challenge Stage-
के Round 3 में बिहारशरीफ नगर निगम को स्मार्ट सिटी
घोषित करने हेतु प्रॉपोजल तैयार किया गया है।
नगर निगम द्वारा तैयार किया गया प्रॉपोजल सभी इंसिस्टेंस
में सहो है एवं प्रॉपोजल में नगरवाकियों के बेहतर सुविधा
मुहैया हो इसके लिए बेहतर समाल किया गया है।

हम Rotary club of Biharsharif की ओर से
बिहारशरीफ को स्मार्ट सिटी बनाने के लिए अपनी
जुनूनी प्रवृत्ति करते हुये आपको सहयोग करना चाहते हैं।
आपके इस प्रयास में हर संभव सहायता के लिए हम सदैव
तैयार हैं।

With Rotary Regards,

President, 16-12
Rotary club of Biharsharif

Rotary



!! सर्वे सन्तु सुखिनः !!

!! सर्वे सन्तु विकसिनः !!



INDIAN MEDICAL ASSOCIATION

BUILDING PARTNERSHIPS IN HEALTHCARE

BIHARSHARIF BRANCH

OFFICE : IMA BIHAWAN, Opposite Sadar Hospital, Bihar Sharif (Nalanda) - 803101

President

Dr. Pawan Kumar Choudhary
Mob:- 09431648784
Email- drpchoudhary13@gmail.com

SESSION : 2016 - 2017

Hony. Secretary

Dr. Mithilesh Prasad
Mob:- 08987186418
Email- drmithileshp@gmail.com

Vice President

Dr. Braj Bhushan Sinha
Dr. Shyam Kishor Prasad
Dr. Arun Kumar (Sahokhar)

Hony. Secretary Finance

Dr. Abhishek Kumar
Mob-07677630831
Email- abinas77@gmail.com

Joint Secretary

Dr. Devaraj Prasad
Dr. Prabhat Kumar
Dr. Birendra Pd. Singh

Member Central Council

Dr. Narendra Kr. Sinha
Dr. Priya Ranjan

Alternate Member

Dr. Satish Kumar

Member State Council

Dr. Sheo Shanker Pd.
Dr. Awadhesh Kumar (Patho)
Dr. Rumanandan Pd.
Dr. Ram Briksh Prasad
Dr. Ajay Kumar (Patho)
Dr. (Mrs.) Vaidehi
Dr. Pradeep Prasad
Dr. Dhirendra Kishore
Dr. Arun Kumar (ENT)

Past President (2014-15)

Dr. Shyam Narayan Prasad

Past President (2015-16)

Dr. Awadhesh Kumar Sinha

Hony. Secretary (2015-16)

Dr. Ashutosh Kumar

Co-opted Member

Dr. Birendra Prasad (Patho)
Dr. Akhilesh Prasad
Dr. Anil Kr. Sinha

सेवा में:

नगर आयुष्म,
बिहारशरीफ नगर निगम

विषय: Smart City Challenge Stage-2 के Round 3 में
बिहारशरीफ नगर निगम को स्मार्ट सिटी घोषित
करने हेतु अपनी भागीदारी सुनिश्चित करने के संबंध में,

महाराज,

उपर्युक्त विषय के संबंध में कहना है कि बिहारशरीफ
नगर निगम द्वारा Smart City Challenge Stage-2 के Round 3
में बिहारशरीफ नगर निगम को स्मार्ट सिटी घोषित करने हेतु
नगर निगम द्वारा Proposal तैयार किया गया है। तैयार किए
गये Proposal में आयुष्म की बेहतर सुविधा का उल्लेख
किया गया है।

हम IMA की ओर से बिहारशरीफ में Smart
City बनाने के लिए आपका सहयोग करना चाहते हैं तथा
अपनी शुभेच्छा प्रेषित करने हैं। नगर निगम के इस प्रयास
में हर संभव सहायता के लिए हम सदा उत्तर हैं।

विश्वासमय

Om Prakash Prasad

सचिव

IMA, Biharsharif

सबका साथ, सबका विकास



नालन्दा जिला खुदरा व्यवसायी संघ

प्रधान कार्यालय:- रॉची रोड, अस्पताल मोड़, टाउन हॉल के सामने, विहार शरीफ (नालन्दा) 803101

पत्रांक :

दिनांक 18/03/2017

सेवा में,

नगर आयुक्त,
बिहारशरीफ, नगर निगम, नालन्दा।

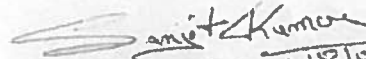
विषय:- Smart City Challenge Stage - 2 के Round 3 में
बिहारशरीफ नगर निगम को स्मार्ट सिटी घोषित करने हेतु
अपनी भागीदारी सुनिश्चित करने के संबंध में।

महाशय,

उपयुक्त विषय के संबंध में कहना है कि बिहारशरीफ नगर निगम द्वारा Smart City Challenge Stage - 2 के Round 3 में बिहारशरीफ नगर निगम को स्मार्ट सिटी घोषित किये जाने हेतु प्रोजेक्ट तैयार किया गया है। नगर निगम द्वारा तैयार किया गया प्रोजेक्ट सभी दृष्टिकोण से सही है एवं प्रोजेक्ट में नगरवासियों को बेहतर सुविधा मुहैया हों इसके लिए बेहतर कार्य किये गये हैं।

हम नालन्दा जिला खुदरा व्यवसायी संघ की ओर से बिहारशरीफ को स्मार्ट सिटी बनाने के लिए अपनी शुभेच्छा प्रेषित करते हुये नगर निगम को सहयोग करना चाहते हैं। नगर निगम के इस प्रयास में पूरी सहायता के लिए हम संघ के सभी सदस्य सदैव तत्पर हैं।

विश्वासभाजन


(संजीत कुमार गुप्ता) 18/03/2017

अध्यक्ष,

नालन्दा जिला खुदरा व्यवसायी संघ
बिहारशरीफ नालन्दा।



Mob. : 9935270829, 9386230973

बिहार चैम्बर ऑफ कॉमर्स से निबंधित

नालन्दा चैम्बर ऑफ कॉमर्स

कार्यालय : मरावपर, बिहार शरीफ, नालन्दा- 803101 (बिहार)

अध्यक्ष
श्री अनिल कुमार अकेसा
प्रधान महासचिव
जवाहर लाल गाँधी
मो0 नं0 9905488711

महासचिव
श्री सुरेश प्रसाद
श्री स्वधर्म कुमार

कोषाध्यक्ष
सचिवदानन्द प्रसाद

पत्रांक- 09/दिनांक 18.03.2017.

दिनांक : 18.03.2017.

प्रेषित :-

मान्यवर नगर प्रशासक,
नगर निगम बिहार शरीफ,
बिहार शरीफ (नालन्दा).

संदर्भ :- ब्याना मणिराम एवं महुदु में स्थापित है
पावन रंगली, बिहार शरीफ को SMART
CITY, CHALLENGE, STAGE -2 के ROUND-
-3 में बिहार शरीफ नगर निगम को SMART-
-CITY की घोषणा हेतु अहमियत है
गुणवत्ता हेतु मानवता के सेवार्थी ।

मान्यवर,
उपरोक्त विषय बिहार शरीफ नगर निगम
के क्षेत्राधिकार को SMART CITY हेतु प्रोपोजल
नगर विभा गता है जो नगरवासियों को नेहवर
एवं समुचित सुविधाएं हेतु स्थापित एवं
रखनात्मक प्रयास कराएगी है ।

नालन्दा चैम्बर ऑफ कॉमर्स समर्थित
करने हेतु हम लोगों की प्रोत्साहन गुणवत्ता एवं
गुणवत्ता स्थापित करता है एवं प्रोत्साहन सहयोग
के लिए आपसे साथ है ।

परमात्मा गानवा के सेवार्थी इस नैपुण्य
हेतु आपसे उर्जा एवं बगैरे प्रदान करें ।
गुणवत्ताओं के साथ ।

सचिव,
Jawahar Lal Chamber
18.03.17
नालन्दा चैम्बर ऑफ कॉमर्स, बिहार शरीफ

Sr. No	Activity / Component	Indicative Quantity	Unit	Indicative Unit Rate	Indicative Cost (In Lacs)	Likely Convergence Fund (In Lacs)	Likely PPP Fund (In Lacs)	Likely Date of Completion	Indicative Annual O&M Cost (In Lacs)	Annual Revenue Generation	Likely Employment Generation	Remarks / Assumptions
GOAL 1	Samrudhha — Create conditions for a vibrant economy				28,300	4,385	4910		1081	2628	370	
Activity Group 1	Infrastructure for agro-based products				15,450	760	3560	Sep-21	861	1040	65	
1.1	Expansion of cargo complex at railway station including cold storage, warehouses, weighing bridges and parking.	LS			2,500		500	Sep-21	200		15	
1.2	Agro Based product marketing and processing training and research centre in bazaar samiti	1,500	sqmtr	30,000	450	180	225	Sep-20	36	36	25	
1.3	Redevelopment of Bazaar Samiti Area	LS			7,500		1875	Mar-21	26	600		
1.4	Up-gradation of Ramchanderpur Industrial Area	40,000	Sqm	12,000	4,800	480	960	Mar-20	384	384	12	
1.5	Single Window Clearance System for Industries & EoDB	LS			200	100		Apr-20	16	20	13	
Activity Group 2	Commercial area development				10,900	2,700	1350	Sep-22	174	1432	120	1. Development of Market on PPP mode. 2. O&M charges to be incurred by private party 3. Revenue generation through rentals by leasing property.
2.1	Vending Zones at areas like Ramchanderpur & Khandakpur Bus Stand. Smart vending kiosks with improved infrastructure.											
2.2	Conversion of Ramchanderpur Bus Stand into multi storey Commercial Center with parking at lower levels	15,000	sqm	30,000	4,500		1125	Mar-21	90	900	120	
2.3	Up-gradation of Municipal / Parishad Markets upto 4 levels	25,000	sqm	18,000	4,500	2,700		Mar-21	45	360		
2.4	Redevelopment of Railway Station to add commercial area	3,000	sqmtr	30,000	900		225	Sep-22	9	72		
2.5	Place making along Roads and vacant plots for vending zones											
2.6	Face Lifting of the CBD area along Major Roads	20	kms	5,000,000	1,000			Mar-22	30	100		
Activity Group 3	Skill Development				1,950	925	0	Sep-20	46	156	185	1. Convergence achieved under NULM for development of new skill training institute. 2. Fund expected under CSR for training of SHGs
3.1	New Skill Training Institute in Block cum Zonal Office for IT training & at Bazaar Samiti for training on agro-processing	4,000	sqm	40,000	1,600	800		Sep-19	40	128	150	
3.2	Up-gradation existing training center	LS			100			Mar-19		8	15	
3.3	Training of SHGs under Ajeevika program & provision of revolving fund	200	nos	200,000	250	125		Sep-20	6	20	20	
GOAL 2	Jeevant — Focus on livability – enhance quality of life				31,569	9,128	1080		954	378	155	
Activity Group 4	24X7 water supply				5,430	2,700	0	Mar-21	125	173	85	1. In Bihar water is not charged. Smart metering can bring accountability and revenue. 2. Convergence through Mukhyamantri har ghar jal yojana, AMRUT.
4.1	Water Treatment Plant near Panchane River	LS			1,200	1,200		Mar-21	24		20	
4.2	Water Distribution Network	80	kms	3,000,000	2,400	1,200		Mar-20	48			
4.3	Energy Efficient Water Pumping Stations & Mass Metering	60	nos	500,000	300	300		Mar-20	12			
4.4	100% smart bulk , commercial and domestic Smart Metering	20,000	nos	7,000	1,400			Sep-20	28	140		
4.5	Installation of water quality monitoring system											
4.6	SCADA, Advanced Leak Detection and monitoring system											
4.7	RO Water Point at different junctions & pumping stations	65	nos	200,000	130				13	33	65	
Activity Group 5	Development of UG sewerage system with SBR-STP				13,534	908	0	Sep-21	232	91	10	1. Locations for sewage treatment plants identified under City Sanitation Plan 2. Sewerage network is non-existent, so new network will be laid.
5.1	Laying of new sewerage network complete with laterals, collector, interceptors and other allied	130	kms	7,000,000	9,100			Mar-21	182			
5.2	Decentralised sewage treatment plant based on SBR technology including UV system near Railway Station	10	MLD	15,000,000	1,500			Sep-21	30			
5.3	House Sewer Connection	20,000	nos	5,000	1,000			Sep-20	20			
5.4	Online Water Quality monitoring – STPs											
5.5	Common Effluent Treatment Plant (CETP) at Ramchanderpur Industrial Area	6	MLD	25,000,000	1,500	750		Sep-20	30	75		
5.6	Construction of Bio-toilets	45	nos	350,000	158	158			8	16		
5.7	De-Silting Trucks & Suction Trucks for Sepatge (3 each)	6	nos	4,600,000	276			Mar-19	14			
Activity Group 6	Development of UG Storm water drains				6,305	2,480	0	Mar-21	74	0	25	1. Convergence under Mukhya Mantri Pakki Nali Gali Nischay Yojna.
6.1	UG Main Storm Water Drainage	20	kms	4,500,000	900	360		Mar-20	11			
6.2	UG Sub-Main Storm Water Drainage	110	kms	3,000,000	3,300	1,320		Sep-20	40			
6.3	UG Lateral Storm Water Drainage	80	kms	2,500,000	2,000	800		Mar-21	24			

6.4	Rain Water Harvesting Structures		30 nos	350,000	105			Sep-19	0		25	
Activity Group 7	SWM system				1,901	1,421	160	Sep-19	391	85	15	1. Waste to Energy/ Compost Plant is proposed in Bazaar Samiti Area. Convergence from SBM.
7.1	Cost of Waste segregation Bins (2 Bin System)		40,000 nos	850	340	340		Mar-19				2. The purchase of equipment by ULB funds.
7.2	Cost of Four Wheel Auto Tipper		15 nos	550,000	83	83		Mar-19	83			3. Two-bin system to be promoted with distribution of bins to HHs
7.3	Cost of Battery Operated Rickshaw		10 nos	100,000	10	10		Mar-19	10			
7.4	Cost of 1.1 m3 capacity Bins on Main Roads with Sensors		50 nos	20,000	10	10		Mar-19	10			
7.5	Cost of 14m3 Refuse Compactor		4 nos	3,200,000	128	128		Mar-19	128			
7.6	Cost of Loader Backhoe		1 nos	3,000,000	30	30		Mar-19	30			
7.7	Development of Sanitary Landfill	LS			500	500		Sep-19	50			
7.8	Waste to energy (bio-methanation) plant at Bazaar Samiti		2 nos	40,000,000	800	320	160	Sep-19	80	85	15	
7.9	Zero waste and garbage (through garbage trucks , RFID based vehicle tracking, attendance system and Sanitation and Waste Action Team (SWAT) Vehicles											Included in Pan-City Proposal
7.10	Integration with Command & Control Center											
Activity Group 8	Robust Power Infrastructure				4,400	1,620	920	Mar-22	132	30	20	1. Revenue will be taken from power distribution company. Also share of user charges from installation of smart meters will be taken from power distribution company.
8.1	Underground Multi-Utilities Duct on Major Roads		20 kms	5,000,000	1,000	600		Sep-21	30	30	20	
8.2	Shifting of overhead power cables and communication lines in utility duct		20 kms	2,500,000	500	300		Mar-22	15			
8.3	Smart Meters for households		15,000 nos	12,000	1,800	720	720	Sep-21	54			
8.4	SCADA System	LS			300			Mar-22	9			
8.5	Smart Transformers & Intelligent Substation		100 nos	800,000	800		200	Mar-21	24			
GOAL 3	Gatisheel — Ensure seamless mobility of people and goods				27,055	4,920	5048		796	639	367	
Activity Group 9	Seamless Public Transport				4,460	540	2000	Mar-21	265	324	121	1. Electric Vehicles to be operated under PPP mode. O&M will be incurred by private party. 2. Revenue Generation from advertisements on bus stops/sheds 3. Warehouse to improve the trade. 4. Cold storage for agri-products
9.1	Redevelopment of Govt. Bus Stand for E-Rickshaw Parking at ground floor and govt. offices at upper floors	LS			2,700	540	1080	Mar-20	135	162	80	
9.2	Multi Level Parking with charging stations at Railway Station & Bus Stands		4 nos	9,000,000	360			Jun-19	18	22	25	
9.3	PHEV charging stations at various places for E-Rickshaws											Included in Pan-City Proposal
9.4	Re-development of Khandakpur Bus Stand for inter-city bus services.	LS			1,200		720	Mar-21	96	120	8	
9.5	Shifting Ramchanderpur Bus Stand to Kargil Bus Stand.	LS			200		200	Mar-19	16	20	8	
Activity Group 10	Transport Network Improvement				19,095	4,280	2208	Mar-22	382	0	246	1. Convergence under Road works of ULB Budget.
10.1	New flyover on By-Pass (NH) to avoid conflict of city traffic with By-Pass traffic		3 kms	150,000,000	3,750	3,000		Mar-21	75		5	
10.2	Smart Road Network		20 KMs	7,000,000	1,400		350	Mar-22	28		10	
10.3	Strengthening and Upgradation of Major Roads		130 kms	5,500,000	7,150			Sep-20	143		150	
10.4	Ropeway between Badi Pahadi & Badi Dargah	LS			1,495		598	Mar-21	30		15	
10.5	Street Improvement works		80 kms	4,000,000	3,200	1,280		Jun-21	64		50	
10.6	Junction improvement works		60 nos	3,500,000	2,100		1260	Sep-20	42		16	
Activity Group 11	Encourage NMT and pedestrian safety				3,500	100	840	Mar-20	149	315	0	1. Revenue generation through advertisements.
11.1	Footpaths, Streets, Pedestrian Ways (Universally accessible design), Street Furniture		130 kms	1,000,000	1,300			Mar-20	39			
11.2	Integrated way finding - digital signages, street signs, pedestrian signals roadside landscape and street furniture		210 kms	1,000,000	2,100		840	Mar-20	105	315		
11.3	Cycle track network along major roads		20 kms	500,000	100	100		Mar-20	5			
11.4	Identification of Non Vehicular Zones											Covered under Traffic Management Plan under Policy Support
GOAL 4	Sandharniya - Conserve natural and cultural heritage				15,215	2,030	2135		709	1021	810	
Activity Group 12	Rejuvenation of Natural Assets				8,800	360	860	Mar-20	251	426	455	1. O&M expenses to be shared by private party in case of PPP agreement 2. Eco Park/Retail Kiosk Development on PPP 3. Tent city has been proposed to meet the temporary demand of accommodation for visitors
12.1	Cleaning of river, Development of retaining walls, Riverfront Development		2.5 kms	95,000,000	2,375			Feb-19	48		150	
12.2	Lake Front Development (Paeli pokhar, Khandakpur pokhar, subhash pokhar, pahadi tali pokhar, jail road pokhar etc)		8 kms	45,000,000	3,600	360	720	Mar-20	72	360	150	
12.3	Boat club+water recreation along river front		1 nos	20,000,000	200		140	Apr-18		12	25	
12.4	Development of ghats and gardens along river front		5,000 sqm	18,000	900			Sep-18	45	54	30	

INDICATIVE ITEM COST AND O&M COST OF PAN-CITY INITIATIVES

Sr. No	Activity /Component	Quantity	Unit Rate	Indicative Cost (In Lacs)	Likely Date of Completion	Likely Convergence Fund (In Lacs)	Likely PPP Fund (In Lacs)	Indicative Annual O&M Cost (In Lacs)	Indicative Annual Revenue (In Lacs)	Likely Employment Generation	Remarks / Assumptions
GOAL 6	Sushasit — Enhance effectiveness of local government through ICT										
AG-19	Unified City Governance			14090	Mar-19	2141	4648	1274	434	110	0
19.1	Jan Seva Kendra (Municipal Services, E-Education, E-Health, Smart Mobility Cards, Utility Services, other citizen services)	46	1500000	690		138	138	69	27.6	1. Installation of Street Lights on PPP annuity mode. MoU with EESL and Biharsharif Nagar Nigam is signed. Digital Advertisement panels to be used as sources of revenue. O&M to be done by Private Entity.	
19.2	Integrated Command & Control Centre (ICCC) at Govt. Bus Stand Area. Equipment for integration of utilities including ITMS, ISWM and other ICT based services.	LS		1500		300		150			
19.3	Smart Poles/Street Lights (Traffic sensors/lights, WiFi Hotspots, Charging Stations, Digital Signages, CCTVs)	8500	110000	9350		1403	3740	935	374		
19.4	E-Governance infrastructure for various departments (OFC Network connecting departments to E-Governance Center)	75	1000000	750		300		75			
19.5	City level mobile applications for E-Governance services provided by various departments	LS		150			120	15	12		
19.6	Smart Video Walls - Citizen Information & Advertisement	20	500000	100			80	10	20		
19.7	Geo-enabling of all utilities & integration with CCC	LS		200				20			
19.8	Policy Support - Preparation of city level guidelines and plan like city mobility plan, smart road guidelines etc.	LS		1,200			480				
19.9	Conducting Public awareness campaigns and workshops	LS		150			90				
AG-20	Smart Public Transport			3000	Mar-21	1500	600	300	120	120	
20.1	ITMS + E-Rickshaws/Autos with GPS devices & smart card payment system	1500	150000	2250		1125	450	225	90	1. E-Rickshaw as major public transport system. Infrastructure from ULB funds	
20.2	E-Rickshaw Stands with charging stations (Other than govt. bus stand area & railway station)	30	2500000	750		375	150	75	30		
AG-21	Intelligent Solid Waste Management			1693	Mar-19	252	581	193	168	110	
21.1	2 Bin for each Household	70000	1200	840			581	126	168	1. To promote segregation at source two bins will be provided to each Household	
21.2	GPS devices on collection vehicles & VTMS	LS		280		112		14			
21.3	Supervision & Monitoring of Treatment Facilities	LS		223							
21.4	Underground Dustbins with RFID Tags	100	350000	350		140		53			
	Total			18783		3893	5829	1767	722	340	
	A&OE Cost @ 5%			939	Economic Benefits: 340 employment generation for IT skilled professionals i.e. influx of approx. 10 crore in the city's economy from employment						
	Contingency Cost @ 10%			1878							
	TOTAL PAN-CITY INITIATIVE COST			21600							