From

The Chief Administrator, HUIDB-cum- Director Urban Local Bodies
(State Mission Director for Smart Cities Mission)
Bays no.11-14, Sector- 4, Panchkula.

To

Sh. Sameer Sharma, Ph.D.
The Additional Secretary to Government of India (UD),
Room no. 138-C Wing,
Smart City Division, Ministry of Urban Development,
Nirman Bhawan, New Delhi-110011

Memo No. DULB/2017/ATP-I/ 1848
Dated: 29/3/2017

Subject: **Final Submission of Upgraded Smart City Proposal (SCP) of Karnal, Haryana for Challenge-II (Round –III) (HR-01-KNL).**

Kindly refer to your office DO no. K-15016/157/2015-SC-1 (Vol. II), dated 21.03.2017 on the matter cited as subject above.

2. It is to inform that the State Level High Powered Steering Committee (SLHPSC) in its meeting dated 22.03.2017 examined the Smart City Proposals (SCP) of the Municipal Corporation, Karnal which was selected in the Stage-I competition of Smart City Challenge. The upgraded SCP has been recommended by the SLHPSC for submission for the round-3 of the Smart City Challenge Stage-II.

3. The following documents for Smart City Proposals for Karnal **(HR-01-KNL)** are enclosed, as submission for Challenge-II (Round-III):
   a. Proceedings of the meeting held on 22.03.2017 of State Level High Powered Steering Committee (SLHPSC) on Smart Cities.
   b. Five (5) spiral bound printed copies of the SCP (complete in all respect) documents along with a DVD containing the entire complete electronic copy.

Encl.: As stated

State Mission Director for Smart Cities Mission
(CA, HUIDB-cum-Director, Urban Local Bodies)

Endst. No. DULB/2017/ATP-I/ Dated:

A copy of the above is forwarded to the Commissioner, Municipal Corporation, Karnal for information and further necessary action.

State Mission Director for Smart Cities Mission
(CA, HUIDB-cum-Director, Urban Local Bodies)

Karnal Smart City Proposal – Executive Summary

❖ Introduction:

Smart City Mission is the flagship Program of Ministry of Urban Development, Government of India under which 2 cities have been selected in Haryana including Karnal. In Smart City Challenge Round 1, Karnal was ranked 66 whereas in Smart City Challenge Round 2, Karnal ranked 51. A total of 20 cities have been selected in Round 1 and 40 cities have been selected in Round 2 (including 13 cities under the Fast Track Round). The remaining cities are required to submit their proposal for Smart City Challenge Round 3 by 31st March, 2017. The smart city proposal of Karnal has been revised after carrying out a) detailed discussion with key government officials & government departments, b) engaging with citizens & key stakeholders, c) carrying out a study of the various proposed projects and d) finally zeroing in on the area and the projects to be implemented. The smart city proposal of Karnal for Round 3 covering Approach and methodology, Area-based Development proposal, Pan-city proposals, Financial plan, Convergence agenda and Formation of SPV is summarized below.

❖ City Profile:

Karnal Municipal Corporation has a population of 3,57,334 (census 2011) and spreads across 87 sq. kms. The city has 20 administrative wards and a high literacy rate of 86%. 76% of city's population is below age group of 45 years. Karnal is best defined as a young and economically vibrant city with diverse employment opportunities. Given the higher mobile penetrations (65.5% access), the city has computerized its services and engages citizens through its Interactive Portal and dynamic Apps. The youthful energy and entrepreneurship of the city is fast complementing its agricultural identity by diversifying into an industrial hub through creativity and innovation.

The city water supply is completed based on ground water. Total 60 MLD of water supplied by PHED after chlorination. 135 LPCD water is supplied as per benchmark through intermittent supply of 8 hours (thrice a day), 65% of water connections are metered. Karnal has achieved 100% D/D collection and source segregation is practiced in all 20 wards. All commercial areas covered through night sweeping and waste transportation vehicles equipped with GPS for improved monitoring. SWM processing/disposal facility of 150 TPD capacity is fully operational. Facility receives 100 TPD of waste, 30-40 TPD of compost and 8-10 TPD of RDF produced. 90 % houses are covered with metered electricity supply and Karnal has been included in National Smart Grid Mission (NSGM) as sole city in Haryana for providing smart metered and uninterrupted electricity. All payments in MCK are issued an electronic receipt (G8). All Citizen Application records maintained in electronic format and citizens can avail 16 different services through various online modules in time bound manner, Services can be availed through eSewa kiosk with reduced human interface to improve transparency

❖ SWOT:

Strengths

Karnal lies on National Highway-1 at a distance of 123 kilometer from National capital Delhi & 130 kilometers from State capital Chandigarh, which makes it a popular mid-halt for traffic and tourists transiting between two cities. The inclusion of Karnal in the National Capital Region (NCR) has provided a spurt in the growth as per the regional plan of the National Capital Regional Planning Board (NCRPB). Karnal is getting popularity with presence of other eminent agriculture research Institutions like NDRI, CSSRI, Wheat Research Directorate, National Bureau of Animal Genetics Resources, Sugarcane Breeding Institute etc. The city also hosts a 100 seat Medical College and Hospital with all modern amenities in the name of Kalpana Chawla, famous astronaut. The Medical College and Hospital is spread over an area of more than 50 acres. Haryana's first

horticulture University is coming up in Karnal district. In additions to its image of agricultural producing area, the region also has rich industrial base with 20 large/medium and 2867 micro/small industrial enterprises. Large and medium scale industries include Rice milling, crystal sugar, Agricultural Implements and parts, Refilling of LPG cylinders, Plywood veneer etc. About 60 number of units export their products to various countries and exports crossed mark of 10,000 crores in year 2015-16. Cluster Development Scheme is also being promoted here to advance the MSMEs. The 2867 MSMEs currently provide employment to 27911 people.

Weaknesses

Karnal current sees a mix of all motorized forms of transport. The e-Rickshaws have been introduced to phase wise eliminate manual rickshaws. The main commercial areas see unregulated traffic, which gets worse with damaged roads or broken infrastructure. The parking in some of the old areas remains a concern during peak business hours. The city administration has already relocated old Vegetable Market and old Grain Market which has improved situation for traffic and opened up prime land for redevelopment. The city including residential and commercial areas has exposed electrical wiring. The HT wiring is exposed and passes at various junctions and along various crowded roads. As the city grows, there is need to have better organized skilled workforce to meet the demand of vibrant local city economy. Only 6.1% workers are employed in primary sector and almost 94% are engaged in secondary and tertiary sector. There is a scope to align unorganized semiskilled workforce to contribute to local industry and city requirements.

Opportunities

Karnal has a young and skilled work force that is seeking new opportunities and business avenues. The city has unique advantage with presence of esteemed research institutions in area of dairying, wheat research, horticulture and array of manufacturing activities. The international links of existing exporters need to be identified and tapped for growing business in the region. Karnal region has 16 ITIs and ITCs with total seat capacity of 3588 with a Vocational training seat density (Seats/1000) of 2.4.There exists opportunity to tap the opportunities provided by vibrant economic magnets and link them with skilling of youth to engage in new startups and diversification of existing services. Excellent central prime commercial area is available in the city along abandoned Mughal Canal for planned development. Potential for MSMEs and service industry is growing in the NCR. There is also potential for feeder industries and support suppliers to major institutions of Central Government. Recently, many service industry opportunities like call centres have also started propping up in the city. The shift towards small towns has also been driven by the lower cost of operations, less churn in the workforce and the availability of staff with multilingual skills at such places.

Threats

At District level, entire drinking water supply to all rural as well as urban parts is based on ground water. Concerns about groundwater depletion or long-term water-level declines caused by sustained groundwater pumping have been in the forefront of the discussions. The project for Renny Wells in Yamuna flood plains is under consideration. The strategic location advantage is enjoyed by all towns on the route. The city youth often migrate to nearby towns in search of better employment opportunities. Karnal needs to pro-actively plan for better infrastructure and incentives that can help maintain its advantages over nearby towns.

❖ Vision and Strategic Focus

In an attempt to envelope the entire proposal under one, it was ensured that the Vision statement reflects the results of the SWOT analysis. With much review and analysis, the City's Vision was formulated to be:

"Karnal aspires to be a Futuristic NCR town by leveraging its Business and Research acumen to attract Knowledge based enterprises and Start-up activities".

Karnal will use its strategic location, presence of esteemed business players, manufacturers, knowledge institutions and young human capital to establish itself as a futuristic NCR town. City assessment, SWOT and extensive citizen inputs were taken into account when defining this vision. This three-part blueprint is a true reflection of Karnal's unique profile, opportunities and challenges.

Focus Area	Goals and Sub Goals
Strengthen Research and Business identity while seeking New Avenues	GOAL 1 - City of Diverse opportunities and Resilient Economy SUB GOALS - 1.1 Provide enabling environment for Service Sectors 1.2 Continue to provide avenues for Agricultural and allied Research 1.3 Promote entrepreneurship and Startups and convert job seekers to job enablers 1.4 Integrate spaces and avenues for Business/ Commercial activities in city economy
Upgrading Infrastructure for a futuristic town	GOAL 2 – Robust Infrastructure to enhance livability in Futuristic NCR town SUB GOALS - 2.1 Assured and reliable water supply with 100% metering by 2021 2.2 Open-defecation- free Karnal with 100% coverage of individual toilets and 100% underground sewage network by 2019 2.3 100% Door to Door collection of solid waste with segregation and 100% scientific disposal of waste using waste to energy plant by 2019 2.4 24x7 power supply with smart grid and smart metering by 2021 2.5 100% of the road covered with underground utility duct to reduce maintenance cost, improve aesthetic appeal & provide assured safety by 2021 2.6 Acquiring 10% of energy requirement from renewable energy sources by 2021 2.7 Conversion of 100% streetlights to LED by 2019 2.8 Housing for all by 2022 to ensure provision of housing & basic services for all slum dwellers 2.9 Availability of and accessibility to social infrastructure such schools, PHCs
	GOAL 3 - Transit friendly and safe city SUB GOALS - 3.1 Provide a holistic public transport facility which will turn the modal shift from private vehicles towards public transport

	3.2 Provide reliable non-motorized transport and increase the share of public transport usage to 25% by 2019 3.3 Improve safety and security through digital surveillance system by 2019
FOCUS AREA – Responsive Governance	GOAL 4 – Accountable Governance SUB GOALS - 4.1 Create a one-stop-destination for all municipal services 4.2 Enhance the reliability of all citizen services through time bound response and resolution 4.3 Promote and support engagement of citizens and empower citizens to understand, evaluate and analyze information using digital technology 4.4 Setting-up digital literacy centers for providing IT training
	GOAL 5 - Improved performance in sector services through ICT applications SUB GOALS - 5.1 Improve service quality and reliability through use of technology and advanced data analytics in services 5.2 Reduction in operation costs for major services (water, solid waste, transport and electricity) through advanced data analytics 5.3 Provide seamless integration of data with various departments to generate meaningful insights for service operations and citizen satisfaction

- **Review of the proposals prepared during round 1 and 2 of the Smart City Mission:**

A detailed study of the smart city proposal Round 1 and 2 was carried out with the aim of understanding the selected area, the gaps in the approach and proposal. Detailed discussions were carried out with various key Government officials, Government departments, and focus groups to give them a picture of what can be done, and all the activities we need to carry out in order to revise and revamp the proposal. For Round 3, we again went back to citizens for recording their choice between Retrofitting, Redevelopment and Greenfield Options. A fresh set of options for ABD and Pan city was also prepared to consult with citizens and record their choice. Both ABD and Pan City solutions were finalised based on public polling and extensive citizen engagement.

- **Citizen Engagement:**

MCK has conducted an extensive Citizen Consultation Campaign called 'Jansampark Abhiyan' across Round 2 and Round 3. The campaign created immense buzz using radio, display panels at eminent city locations and spreading messages and collection ideas through a mobile van equipped with LED TV. Vision and logo competitions were organized to create ownership within student groups, youth and citizens. In various rounds, 40 Smart City Student Ambassadors and local NGOs were brought on board to ensure that the Citizens' Survey is equally represented across socio-economic and geographical parameters. Keeping inclusivity at the core of the campaign, Industry associations, Doctors associations, NGOs, OEM/SI, RWAs, street vendors, slum dwellers, labors, taxi drivers and slum populations were reached out. Apart from offline engagement, Kiosks with high-speed Wi-Fi were also set up to facilitate online engagement of citizens. The campaign in all rounds registered a total of 4.30 lakh outreach and 2.38 lakh participation including 73,153 responses through www.mygov.in in various rounds of consultation. MCK provides free Wi-Fi in 20 parks and major commercial areas. This was promoted and utilised extensively to gather feedback and suggestions from citizens for smart city proposals.

❖ **Formulating approach for ABD selection:**

The approach for selecting the ABD was both analytical (using primary & secondary research tools); & participatory (assembling a cross-section of opinions from the widest possible pool of people). Five rigorous steps of citizen engagement strategy involved - Inform, Consult, Engage, Collaborate and Feedback. City SWOT analysis was the stepping stone with which heap of primary and secondary sectoral data was juxtaposed. Based on larger vision and strategic blueprint, citizen opinion was used to arrive at choice of retrofitting, redevelopment and Greenfield options. When the larger citizen viewpoint and requirements of city hinted towards retrofitting cum redevelopment option, several options for ABD area were shared for wider consultation. A comparative matrix of merits of each ABD area was developed and subjected to polling. Potential areas were debated around possibility for endorsement from stakeholders, ability to serve as lighthouse for other areas & monetary and technical support for converging existing programs & projects. Triangulating information from all these polls, discussions and indicators presented only one feasible option of Retrofitting- Redevelopment of Karnal's central business area (CBA) comprising of area around Ghanta Ghar Chowk, Kunjpura & Mughal Canal market.

❖ **ABD Proposal:**

Karnal's Central Business Area (CBA) rejuvenation is a self-funded Retrofitting - Redevelopment project. It envisions to develop 720 acres of land around Ghanta Ghar Chowk, Kunjpura & Mughal Canal Market with state of art smart amenities & transform it to a light house for the city. The CBA rejuvenation will directly impact 34,532 residents (9.6% of city population) & a daily footfall of >1,00,000 persons. The ABD area being centrally located has a strong connection with citizens of Karnal & is seen as commercial & cultural hub. It contains key commercial/ retail businesses, buzzing Interstate Bus Stand, Karan Tal, Parks, Ramleela Ground, Hotels, Hospitals, Schools and residential layouts. The CBA rejuvenation will facilitate intelligent regeneration of inner city, markets, public spaces & bus stand to create mixed use & sustainable neighbourhood. It will render CBA more accessible, decongested & walkable by leveraging upcoming public transport facility and existing non-motorized commuting forms.

❖ **Key Components of ABD proposal**

THEME 1 - Strengthening Research / Business identity and creating new avenues by attracting service sectors like BPOs, Call centers and Agritech Start-ups.

Advancing Business and Research

- Project PAHAL - Agritech Exchange Pavilion, Commercial spaces for Start-ups and new Businesses.
- Project PRAGATI - Development of commercial space for new BPOs & Service sectors, shifting of Old MCK office from crowded city centre for commercial use & parking spaces

Collaboration and Exhibition spaces

- Project MELA - Development of Exhibition space and promotion

<u>THEME 2 - Upgrading Infrastructure for a Futuristic town</u>

Neighbourhood Regeneration through Futuristic infrastructure

- Project SAKSHAM - Creating vending zones, Weekend Markets & Urban Haat
- Project KAUSHAL - Vocational & Skill development Center

- Project AASHIANA - Re-settling 264 slum families from Model town to Sector 14 (already under progress)
- Project UPHAAR - A series of projects on revitalization of Open & Green spaces will be taken up. The stretch along Mughal canal market will be developed to create Central Park & Plaza, landscaping of Ram Leela Maidan. Throughout the Cultural corridor the public space will be activated through lighter, quicker & inexpensive projects such as public art installations, attractive street furniture, signage. All parks will be fitted with free Wi-Fi & open air Gymnasiums.
- Project UTTHAN – Develop resilient infrastructure – Reliable Water supply with reduced NRW, Leak Detection System & smart meters; Underground drainage system; dual pipeline for re-use of waste water; Solar power plants, Roof top solar panels & Solar lights; UG cabling &smart metering; RF Sensor based community bins; Street sweeping machines; GPS enabled e-vehicles for D-D waste collection

Transit Friendly and Safe city

- Project PRAVAAH – Encourage non-motorized transport through upgrading 17 kms of Pedestrian walkways; 15 kms of dedicated Cycle tracks; 20 additional Cycle docking stations.
- Developing Pedestrian zone on Railway road with street scaping and beautification.
- Parking - provision of smart parking at redevelopment sites, declaring Kunjpura Road as no parking zone; MLCP in four locations; Smart parking with sensors; Parking App
- Public transport - New city bus terminus with 6 buses in first phase, 110 smart bus stops, intelligent traffic signals, Junction re-design to declutter & easy transportation

❖ **Pan City Proposal:**

Karnal's state of art Intelligent Operations centre KA-NI-SH-KA (Karnal Nigrani Kshetriya Karyalaya) is at core of its pan-city proposal. It has a three pronged vision of integrated operations across sectors, improved safety and surveillance and time bound grievance redressal. This 24X7 centre will be an integral partnership between MCK, Haryana Police and Government of Haryana. It will deliver following -

- Evidence based decision making and responsive operational control for real-time incident management
- Inter-agency and inter-sectoral collaboration on traffic, safety and time bound redressal of civic issues
- Service delivery improvements through integrated response and time bound action

The centre will provide a digital platform for integrating multiple sub systems of Safety, Traffic management, Policing and a range of Municipal services. The centre will be one stop District level centre for monitoring and action on surveillance, safety and emergency response. KANISHKA will result in safe city, seamless mobility and responsive city operations and management along with optimization of capital and operational expenditure by providing real time Geo referenced data support. The Pan City Proposal introduces the concept of ICT based governance through three smart sub components which comprise of several solutions. The key components are as follows:

A. KANISHKA - Integrated Command and Control Centre

- Operations Building and Work stations – will be a network hub for all ICT initiatives.
- State of art integrated call centre at the new operations building. Commissioning of hardware and software for operations

- Laying of multipurpose OFC communication network for ICT functions in safety, surveillance, grievance redressal, waste management and future pan-city applications
- ICT related modules with interrelated processes
- Training and orientation for command centre staff and citizens
- City level application and smart dashboard
- Data Analytics and MIS applications

B. Safety, security & traffic management

- Intelligent Poles
- Smart bus stops
- Smart Parking systems
- Real time tracking and monitoring of city bus through GPS with panic button
- Automated signalling system and e-Challan system at major junctions
- Integrated rescue services (medical assistance, police crane, vehicles, road safety)
- Crowd sourcing citizen safety data through upgraded SafetiPin App. Real time monitoring of safety score will help channelize improvements in

C. Integrated time bound redressal of all civic problems

- Interactive kiosks for online services
- Integrated call centre for all complaints
- Unified App for reporting civic issues (integrated) with geo location
- Action team for time bound and quick redressal of citizen complaints
- Emergency road repair services for time bound action (coordination of Municipal Corporation of Karnal (MCK), Haryana Urban Development Authority (HUDA), Public Works Department (PWD))

❖ **Costing of Smart City Proposal:**

An all-inclusive lifecycle cost (including capital expenditure and operating expenditure) for both the ABD Projects & Pan-City Projects has been done. The total Capital Cost of the project comes to be Rs.1295.81 Cr, the lifecycle cost amounts to be Rs.1632.78 crores out of which Rs. 1000 crores has been funded directly under SCP, Rs. 80.22 crores has been projected under Various level Convergence while Rs 132.85 are projected under PPP. The lifecycle cost will cover the total expenditure which will be required to be made for every project component and the operating expenditure for operating and maintaining the project for next 10 years. However the operating expenditure includes only those components which will be directly operated and maintained by the SPV. The projects covered under convergence will be operated and maintained by the SPV. In case of PPP the entire responsibility lies with the private partner in terms of maintaining the project and recovering their own costs.

Area Based Development (Rs 1282 Cr): The ABD projects will cover a wide range of projects that will enable a holistic development of the chosen area in the centre of city. The theme decides for area based development encompasses the components by way of five pillars of sustainable development viz. Revival of city's identity, Connectivity Accessibility & Walkability, Inclusive Planning & High quality of life for all, Socio-Economic Up-liftment and Smart Sustainable Development. The list of projects which will be under taken under ABD is as follows:

Strategy	Project Name	Project Activities	Cost (in Cr)

ABD	MELA	Conversion of Ramleela Ground into recreational space	9.98
		City Interpretation Centre/Museum	22.33
	PAHAL	Karnal Agritech Pavilion	101.16
		Karnal Agritech Innovation and Incubation Centre	56.30
	PRAGATI	Commercial Space & Multiplex on land of MCK near Ghantaghar Chowk	74.31
		Commercial space, BPO & Service Industry on Abandoned Land of Mughal Canal	275.32
		Development of Central Business District (CBD)	82.68
		Digital Literacy Centre	7.47
	PRAVAAH	City Bus Service	1.58
		Intersections re-design	2.10
		City Bus Terminus in CBD Area	56.30
		Construction of pedestrian walkways including Tactile Walkways	7.34
		Earmarked Cycle Track	10.62
		Docking Stations for SAANJHI Cycles (PBS)	2.65
		Walking Street in the newly developing Cultural Corridor	0.78
		Implementation of Smart Parking	47.31
ABD	SAKSHAM	Developing Vending Zones	0.59
		Smart Vending Carts	5.25
		Street Furniture & Kiosks for Night Market	2.60
	UPHAAR	Development of Recreational Zone in the proposed CBD	7.29
		Creation of Green Spaces at Mughal Canal Market	2.63
		Development of Oxy Parks	0.27
		Development of Plaza	25.57
		Light & Sound Show at Karan Park	1.68
		Musical Fountain at Karan Tal	2.38
		Streetscape of Old GT Road	0.50
		Wellness trail by installing Open Gym & Meditation Areas in Parks	17.00
		Convention Hall	7.88
		Development of Offices (GRIHA Certified)	28.15
		Provide Free Wi-Fi services in Parks to promote Digital Economy	1.89
	UTTHAN	Rain Water Harvesting	1.54
		Renewable Energy	38.45
		Smart Sewerage Management	49.28
		Smart Utilities (eg UD Cabling, Smart Metering etc)	32.13
		Smart Water Supply System	36.95
		Solid Waste Management	8.03
		Specially abled toilets in public places	0.21
		Storm Water Drainage System	8.35
	ASHIANA	Housing for Urban Poor	15.65
	KAUSHAL	Skill Development Centre in CBD	4.13
		Improvement of Education System by latest IOT for Schools	4.41
ABD Total Capex			**1061.05**
ABD Total Opex			**221.10**
Grand Total			**1282.15**

Pan City Proposal (Rs.266 Cr): The major item which will bring about significant change in the city's day to day functioning is the establishment of Central Command Center which

will have domains of all the department of the city and hence will help in easier coordination among departments of the city and will reduce the service time of the citizen. Moreover, the proposal focuses on the standard of the infrastructure of the city. In terms of transport which is a major focus in the proposal, ensures a good, reliable and efficient Public Transport Facilities like Smart Buses with CCTV Surveillance & Panic Button, Smart Bus Stops & a user friendly app to inform the passengers about the Bus Services. The majority of the Pan City will be executed by the SPV.

Strategy	Project Name	Project Activity	Cost (in Cr)
Pan City	AROGYA	Upgrading Public Healthcare Database System in the City	0.17
	KANISHKA	Emergency Response Team deployment	3.15
		Add on modules for Safetipin App for Women	0.16
		Command & Control Centre (CCC) (24x7)	24.50
		Interactive kiosks for online services (Ward Level)	0.84
		Laying of city wide optical fibre	1.89
		Intelligent Poles	11.34
		Team training (ERT Team)	1.07
		Training (Command & Control Centre Staff+ Citizen+ IEC Activities)	1.25
		Unified App for reporting Civic Issues	0.21
	PRAVAAH-II	City Surveillance	5.51
		Emergency road repair Vehicles & Team	5.25
		SAANJHI cycle (PBS) module Integration	0.05
		Smart Bus stops	22.28
		Smart Parking systems	6.98
		Smart Traffic Violation Detection System	65.32
Pan City Capex			**149.99**
Pan City Opex			**115.97**
Grand Total			**265.96**

❖ Resources:

To finance the costing of the SCP several sources of funding has been identified. This will ensure that the risk involved with each source is diversified and that the funds are readily available to execute the projects as per the set timeline. Major portion of Capex will be allocated through smart city grants from Central & State Governments. A substantial amount of funds will be channelized through convergence. The following is the breakup of the fund resources:

Resources	Amount (INR Cr)	% Share
Smart City Fund- Central Share	**500**	**39%**
Smart City Fund- State & ULB Share	**500**	**39%**
Central Convergence	**37.16**	**3%**
AMRUT	13.13	
Integrated Power Distribution Scheme	23.19	
Swacch Bharat Mission	0.84	
State Convergence	**30.35**	**2%**
HUDA	15.65	
CM Announcement	1.58	
HIPA (Haryana Institute of Public Administration)	5.25	
Panchayati Raj Dept	7.88	
MCK Convergence	**10.61**	**1%**
MCK	10.61	
District Convergence	**2.10**	**0.13%**
District Plan Scheme	2.10	
PPP	**132.85**	**10%**
Additional Contribution by MCK	**82.74**	**7%**
Total Capex	**1295.81**	**100%**

To capture the O&M major contribution will be made through the Commercial Space Rentals. The rental spaces will be constituted by Grade-A & Grade-B Commercial Spaces. Grade-A are premium spaces and it will be majorly rented to the BPO companies. Their rentals are 15% - 20% higher than the Grade-B Properties. The other source of income for SPV will be the rentals from the regulated car parking sites.

The total rental receipts leveraged from the Car Parking will be INR 45.85 Cr and the total rental receipts leveraged from the properties will be INR 293.01 Cr in 9 years due time. For revenue calculations, the assumptions considered are based on the research of past and present trends in the supply and demand side of real-estate market at Karnal.

The assumptions considered were:
Absorption in base year to be 0% as it's the initiation of project, which will continue at an absorption rate of 15% increment annually. The assumptions for rent increments is considered at 3-5% annually. The annual rentals are considered as per the circle rates of the area fixed by the government

As per the balance sheet, MCK has INR 134 Cr as surplus over the period of 2011-2016. It's the result of various efficient drives conducted by MCK to collect Property Tax, other fees and charges. Thus as a fall back plan MCK will ring-fence INR 100 Cr from its surplus and

will dedicate it for the Smart City contingency fund, which would be utilised for managing the projects if there is a delay in grants or any other contingency like escalation in costs etc.

A	B	C		H	I	J	K
	Smart City Feature	**Definition**	**Self-assessment of the city Scenario**	**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)**	City undertakes citizen participation with stakeholders. The findings are compiled and incorporated in projects or programs. Major decisions are shared with citizens until final projects are unveiled.	Scenario-2	• One-to-one meeting, Jan-Sabha for citizen interaction for citizen engagement. (20 in a year) • Monthly e-Newsletter, Social Media handle: Twitter, Facebook, Shikayat Nivaran Kendra 1800-180-5678 • Initiated Participatory Governance Programs (PGP) encouraging community and private sector participation in making the City- such as Sr. Citizens involvement as "Traffic Marshals" • "Raahgiri" - citizen engagement activity is conducted every week by Municipal Corporation and Police	• Setting up an online and offline platform through command centre that shares regular information with citizens as per their interests and preferences. • Better interaction between industry, academia and citizens to solve city challenges • Promoting specific projects as per demand, suggestions and ideas from citizens to solve pressing city issues • KPI - >50% of citizens using online services, 100% WiFi coverage across the city	• Pan city - City level Dashboard to communicate key information, performance metrics and seek suggestions from citizens. Integrated app for time bound grievance redressal, Citizen Kiosks for online services in each ward • Project Pahal to promote smart labs to encourage industry, academia and citizen interaction for problem solving
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)**	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.	Scenario-2	The city is known as "Rice Bowl of India". The town has six Institutions of National repute such as NDRI, CSSRI, NBAGR, etc. There are not many architectural monuments, symbols, or identifiable features of the city other than being the Land of King Karn from Mythology. Few of the old buildings are in dilapidated stage and need revival. There are gates in old city, one gate has been taken up for improvement. Despite having large open spaces, not much thought have gone in developing them on themes identifying the city. No Funds has been allocated for revival of the old buildings so far there is no City Museum to display the history of the city	• Create a unique identity around Karnal's agricultural, dairying and industrial strengths • Offer better visibility to its exporters, manufacturers and business leaders • Improve social capital through recreational and leisure spaces like parks, gardens, cultural spaces, weekly markets, haat etc. • KPI- 1% of municipal budget spent on promotional events with industry and academia, recreational spaces and other city level events to reinforce identity	• Project Pahal – Agritech Exchange Pavilion - Space for promoting new ventures and startups along Agriculture, Farm Management, Dairying and Horticulture in Karnal • Project Mela -Exhibition and Promotional spaces for organizations to hold full supply chain exhibitions, showcase products, services to the world • Project Uphaar - Cultural corridor through streetscaping, art installations, signages and leisure spaces. Weekly and night markets. Spaces for Theme parks, pedestrian walkways.
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 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.	Scenario-2	• Census 2011 shows 34% of total population are workers. There are 21 large /medium and 2857 micro industrial setups with employment of more than 60000 workers. • With 76% of the young population (under age of 45 years) and 86.02% Literacy rate, still the employment ratio of the City is 34%. Most of the young population migrate to large cities for better opportunities • 60 % of the population is engaged in agriculture or agricultural related activities • A Total of 8714 street vendors have been identified and have organized for development of spaces for street vending in compliance to "Street Vending Policy" • Limited innovation by SMEs/MSMEs in the Agriculture domain	• To Provide Opportunities for Young Population of the City to innovate and enterprise. • To support Micro Business Enterprises (MBEs) and facilitate incubation to promote innovation and entrepreneurship • To develop partnerships between industries, academic institutions and Government to make skill programs more job oriented. • Market Linkages Program to facilitate up scaling of prominent Clusters, Service Industry to the city which would generate employment opportunities. • KPI- Increase in retail and commercial space by 20%; Promote Corporates from Service Industry in the	• Project Pragati -Development of Commercial spaces for BPOs and other service sectors that promotes skilled workforce and improvement in local economy • Project Pahal- Agritech Exchange Pavilion - space for promoting new ventures and startups in line with existing strengths • Project Saksham -Dedicated vending zone will well defined hawking spaces and infrastructure

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						city ; Set up Successful 10 Start up in field of Agriculture/Agri Implements and allied domain; Set up of the Incubation Center	
4	**Education**	**A Smart City offers schooling and educational opportunities for all children in the city (Guideline 2.5.10)**	City provides adequate primary and secondary education facilities within easily reachable distance for most residential areas of the city. Education facilities are regularly	Scenario-3	• Karnal is bestowed with 7 institutions of national repute such as NDRI, CSSRI, DWR, NBAGR under ICAR • There are 10 Management Colleges, 20 technical Colleges and 1 Medical College. Besides that there are a total of 32 primary, secondary and higher secondary govt. schools and 47 private schools. • National Horticulture University and Kalpana Chawla Medical University is in process of being set up.	• The City with Young energy is poised to be a research and innovation hub due to its young population, availability of educational institutions as well as world National Repute Research institutions. • Training for Teachers, e-library, establishing Common communication platform for Schools to facilitate better administration and common enrolment	• Project Kaushal -Vocational and Skill development for young in co-ordination with major industries, institutions. • Digital literacy centre • Access to Smart and Digital classrooms and improved skill training facilities
5	**Health**	**A Smart City provides access to healthcare for all its citizens. (Guideline 2.5.10)**	City provides adequate health facilities within easily reachable distance for all the residential areas and job centers of the city. It has an emergency response system that connects with ambulance services.	Scenario-3	• There is 1 government hospital (200 bedded), 7 primary health center, 12 dispensaries and 3 community health center. 24 private and multi- specialty hospitals are present in city. Along with 108 emergency response system. Besides that Kalpana Chawla Government Medical College and University are being set up.	• The City aspires to provide access to health care for all its citizens. • Create a database of all hospitals integrated Hospital Management Information System for Karnal on a single platform • With help of IOT, Organize awareness and take preventive. • KPI – All hospitals linked to Hospital Management Information System with unique patient ID & history	• Project Aarogya (Pan City) – Health module - comprehensive health information systems through linkages with Karnal Hospital Management Information system (HMIS). Regular awareness programs on preventive health care • Emergency Response system for all including medical emergencies through integrated command centre
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)**	Most parts of the city have housing, retail, and office buildings in close proximity. Some neighborhoods have light industrial uses within them (e.g., auto repair, craft production) Land use rules allow for mixed uses.	Scenario - 3	The city is pursuing densification models for the city core and other land monetization models for the vacant land available at the NH-1 edge.	• All new development in the city to have mixed use allowing for housing, retail and office buildings in close proximity to reduce the need to commute to long distances. • To protect speculative pricing, the SPV would aim to set up mechanism for organized and planned development	• The city should ensure that the emerging areas develop in a planned manner. • Providing atleast 10% of the area under open / green / recreational areas and creating employment potential within the node.
7	**Compact**	**A Smart City encourages development to be compact and dense, where buildings are located close to one another and are ideally within a 10- minute walk of public transportation, forming concentrated neighborhoods. (Guidelines 2.3 and 5.2)**	The city has one or two high density areas - such as the city center, 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 center 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 favor buildings that are separated from one another, with lots of	Scenario - 2	Major mixed use are in the core city area and along arterial roads (Kunjpura road, Old G.T road and Mughal canal road) which is emerging as a CBD. Commercial area is approximately 95 hectares.	The city is pursuing densification models for the city core and other land monetization models for the vacant land available adjacent to NH-1.	• To develop Un-utilized and under-utilized land parcels and buildings. • Building Bye-laws with relaxed height restriction.

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			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.				
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)**	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 - 4	There are 163 parks, covering an area of 535136 sq. mts. Stretch of Green belt with various width depending upon the hierarchy of roads is available	• The city aspires to have open spaces which are better connected and maintained. The city is planning to transforming the green belt areas to Activity center, Happiness areas/ Wellness areas/ Open Gyms. • KPI: Increased connected green spaces coverage, Increase in per capital availability of green spaces in ABD area	• Project Uphaar - Development of Cultural Corridor through multiple improvements like streetscaping, landscaping of Ramleela Maidan, Amphitheater in Karn Park and Musical fountain in Karn Tal; • ABD Parks Rejuvenation: to make all the parks under ADB area vibrant, with street furniture, signages and art installations • Project Pravah - all major roads in ABD with Pedestrian friendly barrier free pathways by allocating equitable space for pedestrians
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 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.	Scenario - 3	There is a demand for 5000 houses in the city. There were total 915 EWS houses constructed by HUDA from 2012- 2015 majorly in sector 36 and 45. The colonizers have 1450 plots for EWS and given 813 to the Housing Board. They have also built 264 flats for EWS.	The city aspires to have an equitable share of infrastructure and services for all income groups. The citizen have also raised an aspiration of slum free city	• Housing for All: providing affordable house to all urban poor (approx. 6,432 urban poor households) identified under HFA survey. • Augmentation of affordable housing with counselling center, primary health clinic, urban kiosks
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)**	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.	Scenario - 2	1,217 Auto rickshaws and 4000 un-registered auto rickshaw, 347 e –rickshaws, one charging station, 25 e-Sakhi auto with women drivers with mobile app, 200 shared cycles on PPP with online website	• The city aspires to have better road traffic management, better quality roads with accessible and connected footpaths, walking and cycling spaces in all areas. Affordable Environmental, friendly public transport should be accessible to all vulnerable groups. • Organized on street and off street parking, designation parking to reduce congestion. • KPI: Introduction of public transport, promoting NMT , intelligent traffic management systems, reduction in transport related fatality, signal synchronization, smart parking	• Project Pravah -Promoting use of NMT and developing dedicated infrastructure • Intelligent Traffic Management System providing adaptive traffic signal to control traffic, video surveillance through CCTV, traffic monitoring and analysis • Provision of additional parking spaces with ICT application

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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 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	Scenario - 3	Saanjhi Cycle bike sharing project - 200 Cycles in PPP mode promoting NMT in Karnal, 18 existing docking stations, 20 more proposed. Traffic lights at all the crucial intersections are installed along with solar enabled blinkers at streets merging into main roads	• The city needs infrastructure that would make walking a comfortable and convenient experience. The city needs connected footpath network, shaded walkways, provision of bike parking at transit nodes and adequate Non- motorized transport • KPI: Establishment of pedestrian friendly walkways, Solar based LED Streetlights, Barrier free pedestrian access in ABD	• Project Pravah – all major roads in ABD with Pedestrian friendly barrier free pathways by allocating equitable space for pedestrians • In Pan City proposal - Intelligent traffic management with better pedestrian rights • Project Utthan – underground ducting of all electricity and utility lines
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)**	The city makes has high speed internet connectivity available in most parts of the city.	Scenario - 3	Free Wi Fi facility is available at Nagar Nigam premises for public. At present 6 parks offer free Wi-Fi and other 20 will be added soon. BSNL Fiber optics network is available in 60% area of the city except Green belt in sector 32, 33 and developing areas.	The city aspires to have multiple Wi-Fi Zones across the city KPI: • 100% free Wi-Fi for every citizen with download limit • Dedicated OFC network and digital platform is available to manage G2C and G2G services	• Pan-city projects - Smart poles for free Wi-Fi and better connectivity • Dedicated OFC cabling will ensure data transfer for all G2G and G2C services; thereby, reducing operational expenditures • Citizen Kiosks in every ward
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)**	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.	Scenario - 3	• Single window CFC providing 16 essential services. • The services are being provided to public over web portal. • Citizens are using the online portal for the services and also to register complaints. • All the necessary information on House Proceedings, Office Orders, Circulars, Annual Budget, Development Plan, Online Birth and Death Certificate etc. are available online. • Citizens can use Watsapp, toll free number and MCK website for registering grievances • Biometric based attendance for all office and field staff	• Providing all the government services to citizens through one integrated portal • KPI: 100% citizen services to be online , > 50% Digital Literate Population • Establishing citizen kiosks across the city	• Pan-city projects - Command centre will act as One Stop Governance Centre for all Government services. • Urban Kiosks to facilitate all G2C services at multiple locations across the city wards • Integrated app for grievance redressal with time bound action • Digital literacy centre to improve online citizen participation
14	**Energy supply**	**A Smart City has reliable, 24/7 electricity supply with no delays in requested hookups. (Guideline 2.4)**	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.	Scenario - 2	• 1.90% of city households have metered connection (FY5-16) • There is a supply of 4723.31MU of electricity with an billed unit collection for 3602.35 MU (FY5-16) • There were total number of 12 scheduled and 14 unscheduled outage with 590 hrs of	• The city aspires to have 24x7 uninterrupted electricity • KPI: 100% electricity with smart metering to all households. Reduce AT&C and T&D losses. Reduce power theft	• Pan city – Integrated Command centre - Installation of SCADA along with Smart meters to monitor energy consumption. • Project Utthan - Smart Road: Underground ducting of

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					total outage (FY5- 16). The billing to collection was 98.97%. The AT&C losses are 27.06% and T & D Losses are 24.93%. R-APDRP system has been implemented for strengthening of Sub -Transmission and Distribution network to determine accountability and to reduce the AT&C losses. • Online payment facility with grievance system is available • Toll free customer care center (24x7) (No. 1800 180 1550) is available • Local Bijli Suvidha Kendra is established • Under IPDS underground cabling of HT and LT lines and smart meters proposed		electric wires to reduce theft. Reduction in non- revenue energy.
15	Energy source	**A Smart City has at least 10% of its electricity generated by renewables. (Guideline 6.2)**	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.	Scenario - 2	• A plan to setup 12KW solar panels over Old Municipal Corporation building redevelopment • Proposal of setting up of 2KV solar panel over Panchayat Bhawan • There is a mandate to have solar panels on all government and institutional buildings.	• City aspires to generate more than 10% of the total consumption of the city from Solar energy and gradually increasing further. • KPI: 100% Solar Rooftop Paneling at all Institutional Buildings.	• Project Utthan - Provision of setting up of roof top solar panels on Government and commercial buildings. • Solar based LED street and at major junctions and bus stops
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 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%.	Scenario -2	• 65% city households have metered connection • The total water demand and supply is 66.79 MLD and 65.96 MLD • Total Non-revenue water reduced to 26% (2015-16) from 28% (2013-14) • City receives 135 LPCD water, supply for 10 hours a day • Water supply is fully dependent on underground water supply (tube well) • There are 96 nos. of tube wells in the city	• City aspires to have reliable water supply while reducing NWR below 20% (MoUD benchmark) • KPI: SCADA for all tube wells • Reduction of NRW from 30% to 20%	• Project Utthan - Reduce NRW with Smart interventions, Leakage detection sensors, Water SCADA for all tube wells • Encourage RWH for recharging ground water
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 has meters for all its water supply but lacks mechanisms to monitor. Water wastage is very high. Some, but not much, rainwater harvesting exists.	Scenario- 2	• 65% of City households have metered connections (but not smart meters) • NRW loss of 26% needs to be addressed • City have 02 rain water harvester wells • 50% of city is covered with rain/storm water drains • Under AMRUT, 52751 m of storm water drain is being constructed	• Smart meters to be installed to monitor usage • 100% coverage for storm/rain water drains across all roads with rain water harvesters. • KPI: 100% Govt. Buildings/ Parks/ Newly developed Commercial to have RWH pits. 100% installation of Smart Meters	• Smart Water meters and volumetric tariff implementation in ABD • Smart water management – SCADA for all supply tube wells, sensors for leak detection in ABD • Improved collection efficiency through smart meters and integrated operations at command centre
18	**Waste water management**	**A Smart City treats all of its sewage to prevent the polluting of water bodies and aquifers. (Guideline 2.4)**	Most waste water is collected and treated before disposal. However the treated water does not meet standards and is not recycled for secondary	Scenario 2	• Sewerage Treatment Plant with capacity (40 & 8 MLD) is operational. Sewerage treatment plants of capacity 10 MLD is under final stage of construction • Recycled water is currently used only for	• Sewerage collected to be treated and reused by means of dual pipelines for Green area, Commercial area and households for irrigation and sanitation	• Existing STP to be augmented and second Tap Infrastructure to be commissioned to ensure the reuse of treated water for household, commercial and

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			uses.		irrigation of green belts • Under AMRUT, sewer construction, STP renovation and provision of pipeline for reuse of treated water is under progress	purpose. • KPI- 100% Sewerage water to be treated and distributed through Second Tap Infrastructure	green area use.
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.	Scenario 1	• At present, Karnal has not installed any air monitoring display system in city. • 347 eRickshaw operational • City to have initially 18 cycle docking station (20 more proposed) with 200 Saanjhi cycles under PPP mode, Tuesday is a car free day in Karnal, promoting non-motorized mode of transport	• Improving air quality to match International safety standards • KPI: Promote NMT i.e. Increase Public Bicycle, Introduce public transport; gradually phasing out 5,217 diesel auto.	• City wide bus service with advances Passenger Information system and GPS tracking; 6 nos. of buses to be commissioned • Air quality sensors on smart poles across city to monitor the pollution and have cluster specific interventions. • Improved open spaces in the ABD
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)**	The city promotes energy efficiency and some new buildings install energy efficiency systems that track and monitor energy use and savings.	Scenario 2	• Conventional roads lights are being converted to power saving LED lights • Parks and public spaces are being provided with solar enabled LED lights • Mandate provision of having rooftop Solar power water heaters in the commercial building plan	All the government and commercial buildings to have mandatory roof top solar panel. In addition all streetlights/parks to be transitioned to Solar based Led Lights. KPI: 10% of current energy consumption to be met from solar. Reduce energy consumption by atleast 40%.	• Smart Road Program: Conventional lights to be replaced with LED lights across ABD roads • Augmentation of Parks: Solar LED lights in all the parks of ABD area • Multiple Projects: Solar Roof Top panel across all Government and newly constructed Commercial Buildings.
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)**	Less than 10% of the city has underground electric wiring system.	Scenario 2	City completed electric cables underground for the stretch of 01 kms as a pilot project. DPR for entire city under smart grid project under preparation	Ensure more than 80% of cables to be underground in the city and 100% in ABD to reduce Theft, T&D losses and ensure aerial sanitation	Smart Road: 219 kms of smart road across city will have underground ducts for electric cables
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)**	Sanitation facilities are available to 100% of the city's Population.	Scenario - 4	• Karnal has been declared open defecation free. 90% of households have sewerage connection • 24 e-toilets, 35 Public Toilets and 13 Community Toilets set up. 10 Mobile Toilets to reduce Open Defecation • Citizen Vigilance Committee for monitoring sanitation activities	• Karnal has been declared ODF • Sewerage Services and Sanitation facilities to 100% residents and achieve MoUD benchmark	Citizen awareness on cleanliness and sanitation
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**	Waste is segregated, collected, recycled and disposed in an environmentally sound manner.	Scenario 3	• Karnal ranks first in Haryana and 47th all over India in Swachhata city rating. City has 150 TPD waste treatment plant • City have 100% door to door waste collection out of which 50% is segregated. Daily generation of ~93 MT of waste • All secondary solid waste collection vehicle have GPS and are being	• 100% Door to Door Segregation, Collection, Treatment. • All the solid waste collected to be recycled to generate electricity (more from less phenomenon) • Community Waste to Energy Plants to be established and run by the community	• Swachh Karnal: GPS based vehicle and RFID primary vehicles for collection of segregated waste2. Waste to Energy Community Plants • Improved segregation of waste

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		manner. (Guidelines 2.4.3 & 6.2)			monitored. STP have CCTV to monitor waste lifting • 30 Tipper + 2 Dumper Placer + 2 Refuse Compactor + 1 JCB. All vehicles installed with RFID		
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 medium levels of public safety - some more vulnerable groups feel insecure during some points of the day and in some parts of the city	Scenario 2	• Despite low crime rate, citizens perceive public safety as a cause concern because of Unmanned traffic intersections, lack of constant police patrolling, absence of automated monitoring systems at public places/parks and strategic locations, inadequate street lighting especially at scarcely populated locations and unidentified floating population • City has women police station, online FIR registering facility. One Stop Crisis Centre for Women under Nirbhaya Fund. "Safeti-Pin" Mobile App adding strengths to Women Safety measures. • Crime against women has decreased by 7% (2015-16). CCTV installation at 31 junctions under progress	• To achieve high level of public safety • KPI: 100% of roads to be covered with CCTV, LED Streetlights., Integrated improved emergency response through command centre for all emergencies	• Pan city - CCTV camera installation with edge based video analytics • Project Pravah - Better traffic management through intelligent transport systems with reduced traffic violations and accidents. Panic/distress buttons for citizens at distress in public transport

SMART CITY PROPOSAL

KARNAL

MUNICIPAL CORPORATION KARNA

Round

31 March, 201

ANNEXURE - 2

SMART CITY PROPOSAL

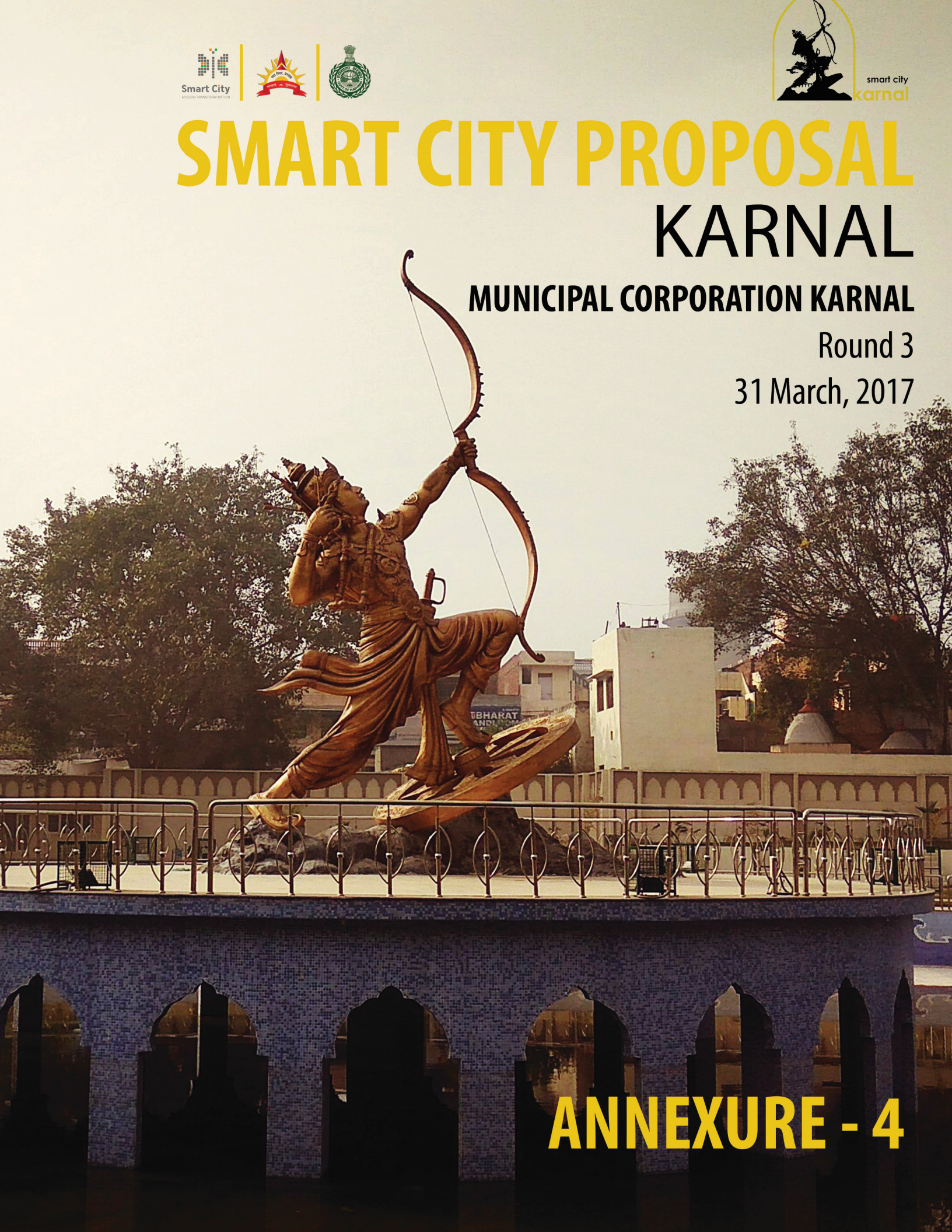
KARNAL

MUNICIPAL CORPORATION KARNA

Round

31 March, 201

ANNEXURE - 3



SMART CITY PROPOSAL

KARNAL

MUNICIPAL CORPORATION KARNAL

Round 3

31 March, 2017

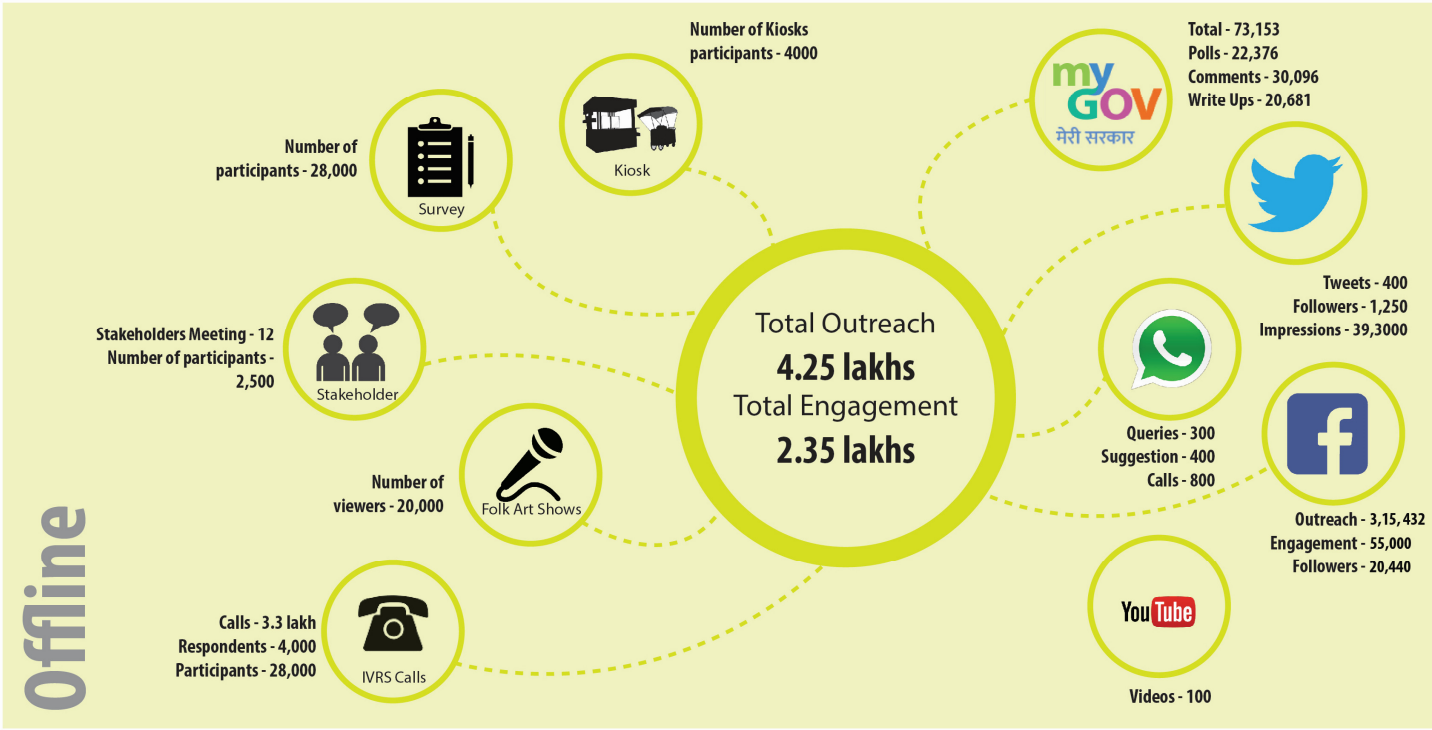
ANNEXURE - 4

.2 Citizen Engagement - Strategies

ultation meetings with Elected Representatives - MP, MLAs, MCK (Commissioner) and media have been done on ple occasions. Consultants have presented the technical ls and character of ABD area. Municipal commissioner's ing with all Distric task force committee and wardwise s Group Discussions with Councillors and other various holders with DC and MCK (commissioner) along with 17 s helped arrive at smart city projects.

zen Consultation Activity Set

Talk show	Mera Sujhav/ Mera Sankalp	Essay Competition "Mere Sapno ka Karnal"	Run for Karnal
al Samvad	Selfie with Karnal	Mann ki Baatein	instaVaani
MyGov / Social Media			



nsure meaningful participation of every group of citizen, MCK conducted an nsive citizen consultation campaign " JANSAMPARK ABHIYAN"

EATE BUZZ (REATE BUZZ IN HE CITY ABOUT AMPARK ABHIYAN)	MAKE AWARE (MAKE THEM AWARE ABOUT THE CONCEPT OF SMART CITY CAMPAIGN WITH MORE DETAIL)	ENGAGE (START ENGAGING CITIZENS AND GET THEIR OPINIONS)	INVOLVE (INVOLVE CITIZEN TO SUGGEST PROJECTS, SCHEMES AND POLICY WITH IMPLEMENTATION LEVEL DETAILS)	CALIBRATE (PRESENT DRAFT POLICIES TO CITIZENS, GET FEEDBACK AND MAKE CHANGES ACCORDINGLY)	FINALISE (FINALISE POLICIES AND DISSEMINATET THROUGH ALL CHANNELS)
RADIO	FOLK SHOWS	INTERVIEW'S	MYGOV.IN	MOBILE APP	VOICE BLAST
ANTHEM	INTERACTIONS	MYGOV POLLS	KIOSKS	YOUTH EVENTS	MEETING WITH NGOs
ULTIPLEX	VAN WITH LED TV	YOUTUBE	AMBASSADORS	MISSED CALLS	INDUSTRIES
D DESIGNING	PAMPHLETS	WHATSAPP	LEKH COMPETION	IVRS CALLS	CLUBS
LYERS	TALK SHOWS	GOOGLE FORM	WORKSHOPS	NEWSLETTERS	MYGOV DISCUSSIONS
ANNERS	TWITTER	IVRS CALLS	HOTSPOT	NEWPAPERS	HOUSE MEETING
ARDINGS	WEBSITE		EMAIL	WHATSAPP	TASK FORCE MEETING
OMO VAN	VOICE BLAST			FORMS	

Citizen consultation Events and feedbacks

As karnal has 76% population upto 45 years of age, special effort was made to engage youth.

Yuva Karnal, Smart Karnal

In the city wherever information technology faculties were available, a temporary smart lab was established where citizens participated in Jansampark abhiyan.

Smart City Labs

Strategies

Surakshit Karnal Abhiyan

In collaboration with Police, city was mappe in respect to parameters related to safety.

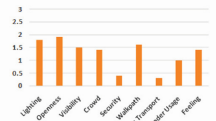
10%	Poor
15%	Fair
22%	Good
18%	Very Good
1512	audit p
34%	Exce

Smart City Ambassadors

A team of 40 smart city ambassadors ensured citize participation from every section of society and gath feedback for smart city proposal karnal.

12	Colleges 2000
5	Summer Camp 300
10	Coaching 800
9	Govt. Offices 400
5	NGO's 200
4	IT Centers 700

Awareness
Buzz Creation Interviews Kiosks
Fort Art Performances Street Pla
Events Surveys Online Engagements



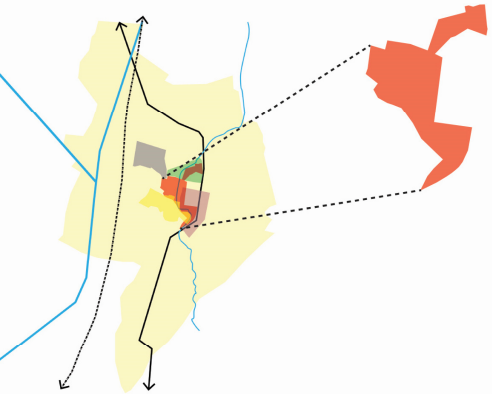
.3 Citizen Engagement - Results

rence for Area Based Development Program for Karnal Smart City

- **68%** — **crofitting** (an area nsisting of more han 500 acres)
- **16%** — **Redevelopement** (an area consisting of more than 50 acres)
- **16%** — **Greenfield Development** (an area consisting of more than 250 acres)

h area in Karnal is best suited for Area Based Development?

- **6%** — Residential Area comprising of model own and dayanand colony
- **8%** — Residential Area comprising of sector 6,7 and 13
- **63%** — Central commercial market, Kunjpura road and area around Mughal Canal
- **13%** — Commercial & residential Area Comprising of Nayapuri, Chaman Garden and NDRI Area
- **10%** — Mixed Area comprising of old city & sector 14



h is the top priority issue that karnal Smart City should ess under PAN city solutions?

- **10%** — Inadequate water supply in the city
- **67%** — Unsatifactory or delayed response from civic authorities
- **12%** — Regular Power cut/outcages
- **11%** — Traffic and lackof packing lots

ssion on changes on SCP Reports **7,270** submissions

, Suggestions, Comments - Round 3 SCP Karnal **1319** submissions

Design Contest - Round 3 SCP Karnal **27** submissions

n for Smart City karnal **21** submissions

r based Survey **28,127** submissions

27 दिसंबर से अब तक सजाने में आए 38 लाख, 22 लाख कैशलेस लेनदेन से मिले, इस प्रक्रिया से लोग को हो रही आसानी

गम में 51 प्रतिशत लेनदेन अब हो गया कैशलेस

कहां से किराने पैसे आए	
दुकानों का किराया	6.37 लाख
प्रोपर्टी टैक्स	4.23 लाख
विज्ञापन शुल्क	4.36 लाख
सिक्योरिटी फीस	2.92 लाख
लेबर सेस	1.53 लाख
ऑफलाइन पेमेंट	4.26 लाख
जन्म मृत्यु प्रमाण पत्र	1 लाख

नोट : इसमें असंख्य जन्म मृत्यु से मौजूद नगरनिगम के खाते में राशि आई है।

नगर निगम में 27 दिसंबर को कैशलेस भुगतान प्रणाली शुरू की गई थी। इसके लिए चार पीओएस मशीनें गगनदीप मॉल और सेक्टर 16 लाल डी मार्ट में उपलब्ध कराई गई थीं। इसके बाद लोगों को जागरूक करने के

SWOT Analysis - Approach & Methodology

Location

Karnal is located on Delhi Ambala Rail Line & Delhi-Chandigarh highway i.e. G.T.Road. The city lies on National Highway – 1 at a distance of 123 kilometer from National capital Delhi & 130 kilometers from State capital Chandigarh, which makes it a popular mid-halt for traffic and tourists transiting between two cities. This connectivity gives Karnal a unique advantage to pursue commercial, economic and research ambitions.

Regional Setting

The inclusion of Karnal in the National Capital Region (NCR) has provided a spurt in the growth as per the regional plan of the National Capital Regional Planning Board (NCRPB). Approvals of National level medical University at Gharaunda, KCGMC, new commercial projects are coming up.

Research And Innovation Hub

This historical city of Haryana is fast building its modern image as centre for production of rice, wheat and milk. Karnal is also getting more popularity with presence of other eminent agriculture research Institutions like NDRI, CSSRI, Wheat Research Directorate, National Bureau of Animal Genetics Resources, Sugarcane Breeding Institute etc. The city also hosts a 100 seat Medical College and Hospital with all modern amenities in the name of Kalpana Chawla, famous astronaut. Haryana's first horticulture University is coming up in Karnal district.

Industrial Identity

In additions to its image of agricultural producing area, the region also has rich industrial base with 20 large/medium and 2867 micro/small industrial enterprises. Large and medium scale industries include Rice milling, crystal sugar, Agricultural Implements and parts, Refilling of LPG cylinders, Plywood veneer etc. Karnal is known for its production of high quality basmati rice in the country and is adorned as "Rice bowl of India".

New Opportunities for Skilling And Entrepreneurship

Karnal district has a higher Per Capita Income in comparison to state average. This is largely due to Karnal's preeminent position in the export of Basmati rice (mainly to Gulf Countries), major production of Agricultural machinery and authority in dairy products along with knowhow of dairy research. Karnal has a young and skilled work force that is seeking new opportunities and business avenues.

Service Sector

Potential for MSMEs and service industry is growing in the NCR. There is also potential for feeder industries and support suppliers to major institutions of Central Government. Recently, many service industry opportunities like call centres have also started propping up in the city. The shift towards small towns has also been driven by the lower cost of operations, less churn in the workforce and the availability of staff with multilingual skills at such places. The new BPO policy seeks to create 48,000 call centre jobs, offering financial incentives to companies that set up BPO units in small towns.

e- Governance

Karnal has taken several steps towards automation of civic service delivery and improving quality of citizen services. Citizens can apply for range of services, register grievances and avail online services through mobile app, MCK website or e-Sewa kiosk. All kinds of payments to MCK are issued an electronic receipt (G8). All records pertaining to Citizen Applications are maintained in electronic format and stored in Central Server. MCK is well geared towards next innovation in terms of integrated monitoring through ICT advancements. It can easily adapt to Internet of Things (IoT) and create advanced analytics for better monitoring and improved service delivery.

Integrated Transport

Karnal current sees a mix of all motorized forms of transport. The e-Rickshaws have been introduced to phase wise eliminate manual rickshaws. The main commercial areas see unregulated traffic, which gets worse with damaged roads or broken infrastructure. The parking in some of the old areas remains a concern during peak business hours. The city administration has already relocated old Vegetable Market and old Grain Market which has improved situation for traffic and opened up prime land for redevelopment. Private vehicles have increased tremendously in the city in last few years. The plan for city bus system has been approved which will encourage public transport and reduce dependence on cars.

Exposed Electrical Wiring

The city including residential and commercial areas has exposed electrical wiring. The HT wiring is exposed and passes at various junctions and along various crowded roads. This is a major risk considering the safety of masses and workers who repair and maintain the systems. Karnal has been included in National Smart Grid Mission (NSGM) for providing smart metering and latest insulated underground cabling has been approved in principle and DPR is under preparation. The project will help reduce transmission and distribution loss to 10 per cent from 24% in the District and digital meters would be replaced with smart meters.

Employment Opportunities

As the city grows, there is need to have better organized skilled workforce to meet the demand of vibrant local city economy. Only 6.1% workers are employed in primary sector and almost 94% are engaged in secondary and tertiary sector. There is a scope to align unorganized semiskilled workforce to contribute to local industry and city requirements.

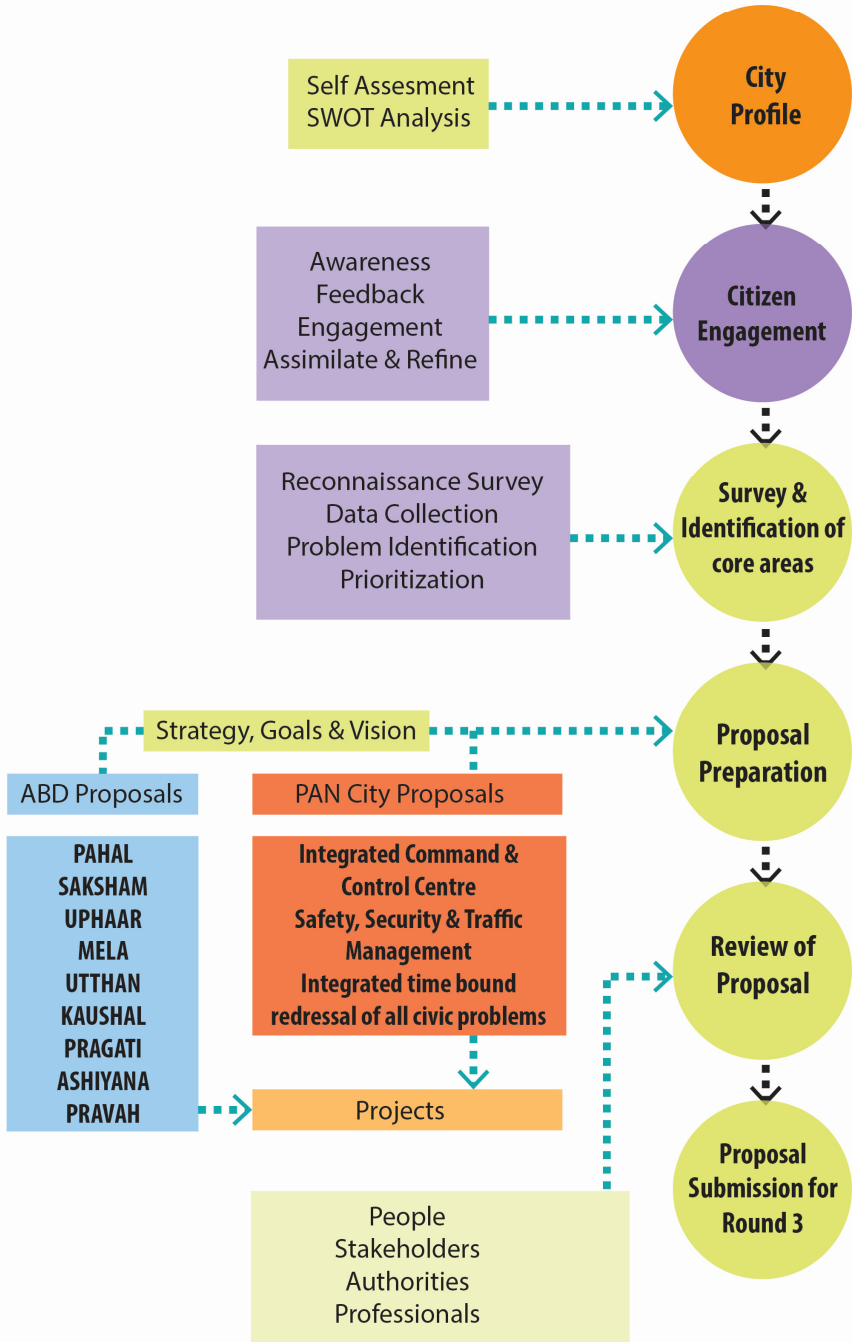
Reliance On Ground Water

At District level, entire drinking water supply to all rural as well as urban parts is based on ground water. This is basically due to the fact that the quality of ground water is fresh and potable all over and the depth to water level is within 10 to 20m in most parts. Karnal block reports maximum tube wells with highest ground water draft in the district. The automation of tube wells is currently under process which will help manage monitor water extraction judiciously. The public authorities need to develop comprehensive water information systems across agencies and plan for water management in the region. The project for Renny Wells in Yamuna flood plains is under consideration.

Competition From Nearby Towns

Karnal lies on NH-1 and is well connected to several small towns through the Delhi – Chandigarh route. The strategic location advantage is enjoyed by all towns on the route. The city youth often migrate to Delhi, Chandigarh and other towns in search of better employment opportunities. Karnal needs to proactively plan for better infrastructure facilities and incentives for Industrial and business development that can help it maintain its advantage over nearby towns.

Approach & Methodology



.6

Vision, Strategic Pillar & Direction - Goals & Sub Goals

Karnal aspires to be **futuristic NCR town** by leveraging its **business, research acumen** to attract knowledge based **enterprises and start up** activities.

Strategic Pillar -1

Strengthening Research & siness identity seeking new avenues

Strategic Direction

1. Advancing Business and research
2. Collaboration and Exhibition spaces

Goal

City of Diverse opportunities and Resilient Economy

Sub Goal

vide enabling environment for service sectors
tinue to provide avenues for agricultural and allied research
mote entrepreneurship and startups and convert job seekers to job
blers
grate spaces and avenues for informal activities in city economy

Strategic Pillar -2

Upgrading infrastructure for a futuristic town

Strategic Direction

3. Neighbourhood regeneration through futuristic infrastructure
4. Mobility

Goal

Robust Infrastructure to enhance livability in futuristic NCR town

Transit friendly and safe city

Sub Goal

- Assured and reliable water supply with 100% metering by 2021.
  Open-defecation- free Karnal with 100% coverage of individual toilets and 100% underground sewage network by 2019.
- 100% D2D collection of solid waste with segregation and 100% scientific disposal of waste using waste to energy plant by 2019.
- 24x7 power supply with smart grid and smart metering by 2021.
- 100% of the road covered with underground utility duct to reduce maintenance cost, improve aesthetic appeal & provide assured safety by 2021.
- Acquiring 10% of energy requirement from renewable energy sources by 2021.
- Conversion of 100% streetlights to LED by 2019.
- Housing for all by 2022 to ensure provision of housing & basic services for all slum dwellers.
- Availability of and accessibility to social infrastructure such schools, PHCs.
- Provide a holistic public transport facility which will turn the modal shift from private vehicles towards public transport.
- Provide reliable non-motorized transport and increase the share of public transport usage from by 25% by 2019.
- Improve safety and security through digital surveillance system by 2019.

Strategic Pillar -3

Responsive Governance

Strategic Direction

5. Responsive Governance

Goal

Accountable Governance

Improved performance i services throu applications

Sub Goal

- Create a one-stop-destination for all municipal services.
- Enhance the reliability of all citizen services through time bound response and resolution.
- Promote and support engagement of citizens and empower citizens to understand, evaluate and analyze information using digital technology.
- Setting-up digital literacy centers for providing IT training.
- Improve service quality and through use of technolo advanced data analytics in se
- Reduction in operation c major services (water, soli transport and electricity) advanced data analytics.
- Provide seamless integratio with various departments to meaningful insights for operations and citizen satisfa

Area Based Development - Introduction

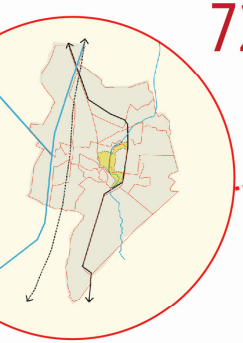
ABD profile

720 Acres

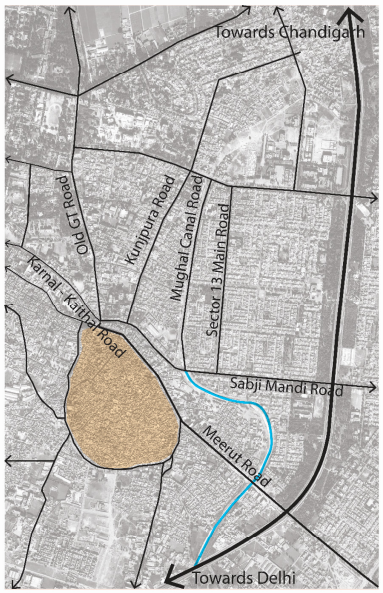
114 pph

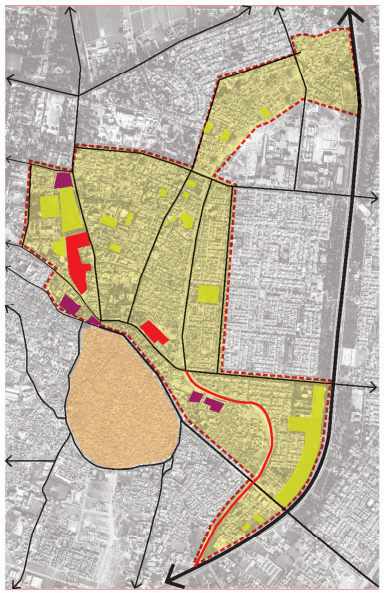
9.66% Of city population

34532



D area being centrally located has a strong tion with citizens of Karnal and is seen as f cities commercial and cultural hub. It s key commercial and retail business, interstate bus stand, Karn Tal lake, several onal parks, Ramlila ground and a mix of d brand showrooms, hotels, hospitals and . The CBA rejuvenation will facilitate ent regeneration of inner city, markets, paces and bus stand to create compact, se and sustainable neighbourhood.





Bus Stand

Interstate Bus terminal is along Old GT Road is being relocated along the new GT Road. This land will be available for redevelopment and can be utilized for institutional, public and commercial uses.

Valmiki Basti Model Town

Encroached slum with 264 dwelling units with a population of 934 people. The land belongs to HUDA and resettlement of slum dwellers has been proposed under Ashiana Scheme.

Old Municipal Corporation Building

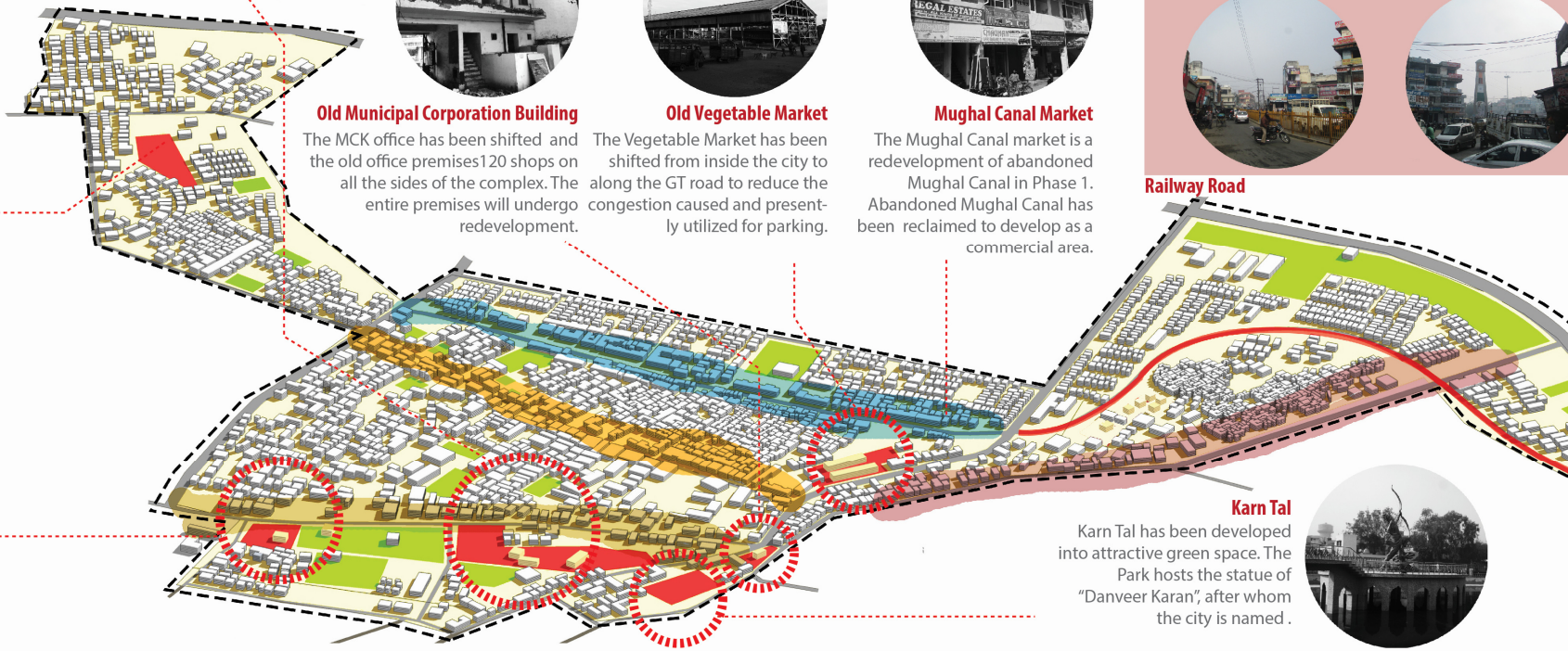
The MCK office has been shifted and the old office premises120 shops on all the sides of the complex. The entire premises will undergo redevelopment.

Old Vegetable Market

The Vegetable Market has been shifted from inside the city to along the GT road to reduce the congestion caused and presently utilized for parking.

Mughal Canal Market

The Mughal Canal market is a redevelopment of abandoned Mughal Canal in Phase 1. Abandoned Mughal Canal has been reclaimed to develop as a commercial area.



Panchayat Land

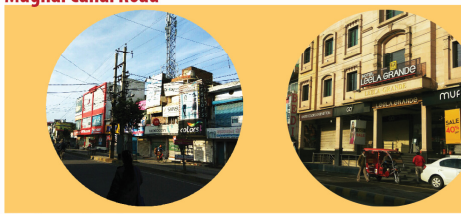
The land parcel at Ambedkar Chowk and is currently used as a parking for Government Vehicles. A new Conventional Hall is proposed on this land

Karn Tal

Karn Tal has been developed into attractive green space. The Park hosts the statue of "Danveer Karan", after whom the city is named .

existing character - ab

Mughal Canal Road



Kunjpura Road

Old GT Road

Railway Road

.8

Area Based Development - Concept Approach

ructure plan - central business area

[1] Convention Centre & Open Theatre - This node markes the entry of Cultural Corridor with a iconic building.

[2] Integrating the large open space with a system of greens till ram leela maidan & karn tal lake develoment.

[3] Proposed Bus Terminus & Mixed use development - The redevelopment provides space for City Bus Terminal in a smaller area, in Ground floor and the upper floors should have Commercial/Office space.

[4] Commercial & Mixed on the other side with a proposed road connection along with

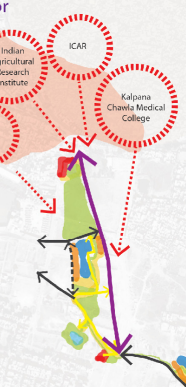
[5] Ram Leela Maidan has been integrated in the overall development. It accommodates the cultural fairs and exhibition activities.

[6] The Ram Leela Maidan opens up to a pedestrian street and leads to Karn Tal, which is a recreational lake.

[7] Connecting the green space with a new Municipal Building and the green space openspace in the pedestrainised ghanta ghar chowk

[8] Old Vegetable Market Site has been proposed as a Mixed Use Development with plaza in the street front so as to make it vibrant space which connects as a extended part of cultural corridor with a Interpretation Centre.

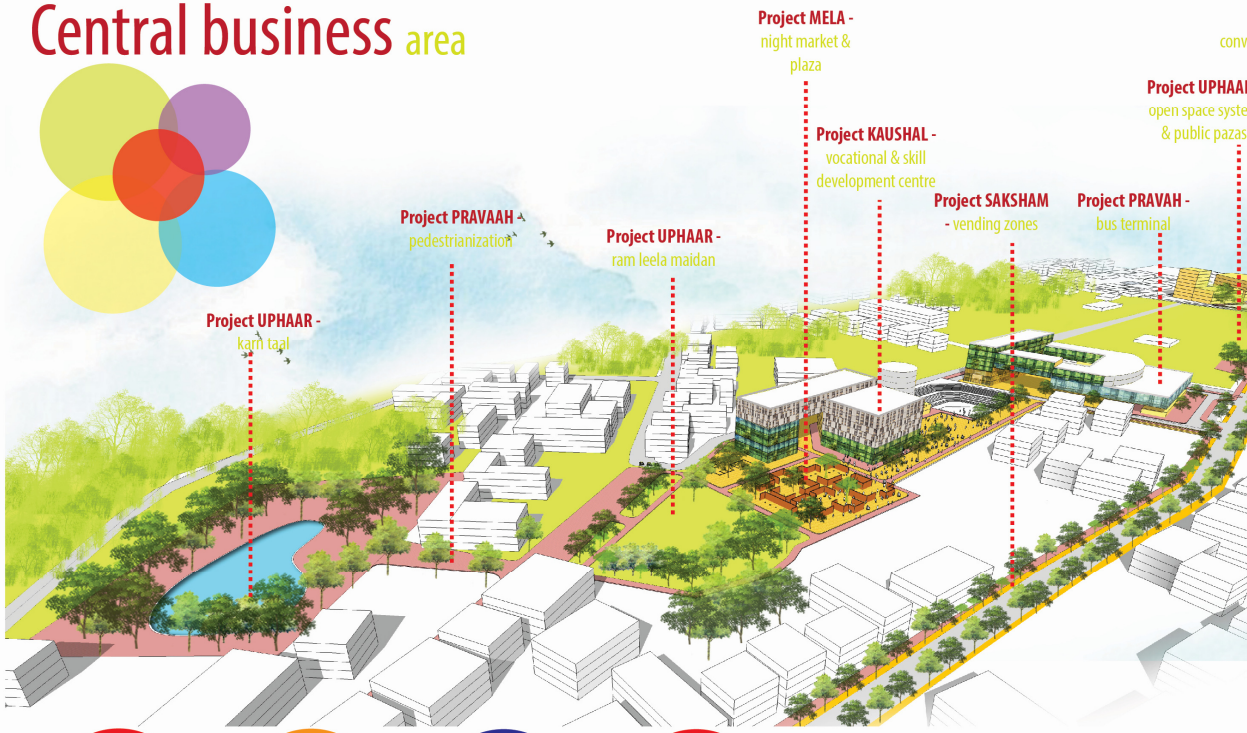
d GT Road from NDRI Chowk to Ghan-
Chowk is being proposed as Cultural
or



[9] Mughal Canal Development

tchment institutional area

Central business area



Convention Hall
2.35 acre
Convention Hall
& Public Activity
Space

Bus Terminal Redevelopment
8.5 acre
City Bus Terminal
Interpretation Center/Museum
Digital Literacy Center
Commercial
Exhibition/Promotion/Urban Haat
Plaza/Night market & Kiosks

Old Vegetable Market Redevelopment
3.6 acre
Agritech Exchange
Pavilion
Plaza/Eateries
Parking

Vending Zones
4.2 km
Old GT road – 1.3 km
Old Vegetable Market Road – 1.8 km
Meerut road – 1.1 km
Creating Platforms
Smart card for vendors

Mugh
M
BPOS &
Medit
Childre
Wat
Walk
Op
P
War

Old MCK Redevelopment
2.76 acre
Retail Shops
Multiplex
Parking

Cultural Corridor
1.3 km
Amphitheatre in Karan Park
Streetscape of Old GT Road
Landscaping of Ram leela Maidan
Musical fountain in Karan Tal
Junction redesign of Ghantaghar chowk

.9

Area Based Development - Projects

place making & open spaces

The CBA project will activate public spaces by taking up lighter, quicker and cheaper projects such as Public Art Installations, Signage Projects; streetscaping of No-Vehicle Street from along Karnal Kaithal Road and along Old GT Road (Cultural Corridor); Open Gyms and Wi-Fi in parks; Beautification and ensuring flexible use of Ram Leela Maidan to utilize the space throughout the year for city level cultural events.

nvention hall

isting land which belongs to ayat Raj Department is been d by parking for government es. A convention hall is sed to be developed by ayat Raj Department.

city bus terminal

The existing Interstate Bus Terminal will be shifted along the new GT Road. A new city Bus Terminal is proposed in the land to accommodate proposed new city transportation.

interpretation centre, exhibition centre & urban haat

The large amount of land available through shifting of interstate bus stand will help develop a dynamic central business area for Karnal with luxurious public amenities and an urban oasis. New spaces like exhibition/promotion centre, skill development center, interpretation center, indoor stadium and central park with space for weekend markets and urban haat will be developed. A 1.1 km cultural corridor will offer spaces with visible improvements in streetscapes, create landscaped open spaces by removing the web of power and telecom cables and shifting them underground.

ritech pavilion

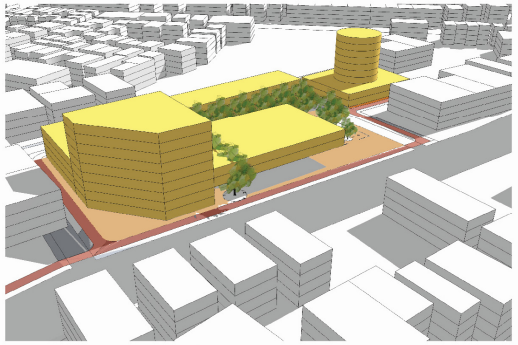
d vegetable market land will serve dicated zone for business nment generating new economic unities and inclusive spaces for 's citizens and investors.

ashiana low cost housing

Low cost housing for urban poor to resettle slums from model colony.

D, retail & multiplex

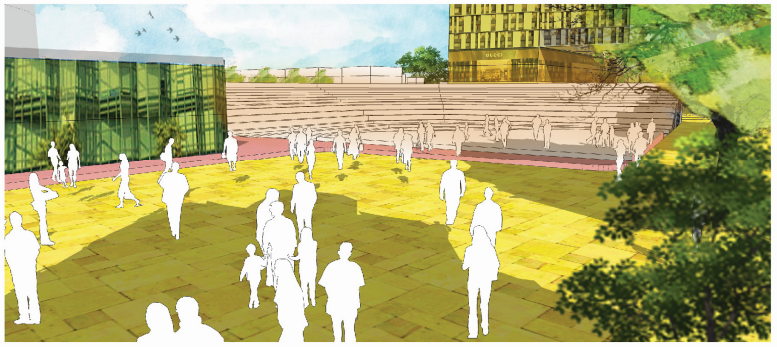
l Canal strip (3.6 kms) will be ed as a compact sub project with of public green spaces, fountains, areas, spaces for commercial , BPO and an exclusive zone for os.



Agritech Exchange Pavilion

Central Park and Plaza

Mughal Canal - Entrance from Sabzi Mandi Side



Commercial, Sports arena, Urban Haat, Exhibition Space & Public Plaza

Old MCK Offfice & Ghantaghar Chowk - Commercial Co

Mughal Canal - Entrance from Meerut Road Junction

Mughal Canal - Entrance from Meerut Road Junction

Mughal Canal - Entrance from Old Vegetable Market S

.10 Area Based Development - Projects & Essential Features

Project MELA

Convention Hall on Panchayat Raj Land

Project SAKSHAM

Vending Zones

Weekend Markets/Haat

Project UTTHAN

Assured Electricity Supply and solar energy

Adequate Water Supply including waste water recycling and Storm water reuse

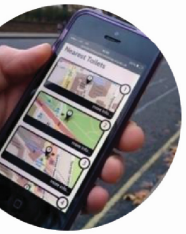
Sanitation including solid waste management

Smart Metering

Robust IT connectivity and Digitization

Energy efficient street lighting

All Redevelopment Sites will be Green Buildings



Project UPHAAR

Central Plaza In bus stand redevelopment

Plaza / Urban Haat

Project KAUSHAL

Digital Literacy Center

Vocational & Skill Development Center

Smart Classrooms

Project MELA

Exhibition Spaces

Promotional Spaces

Project PAHAL

Agritech Exchange Pavilion

New ventures for Agriculture, Dairying & Farm Management

Project UPHAAR

Amphitheatre, Musical Fountain, Ramleela Ground

Project PRAGATI

BPO's & Service Industry

Commercial & Warehouses

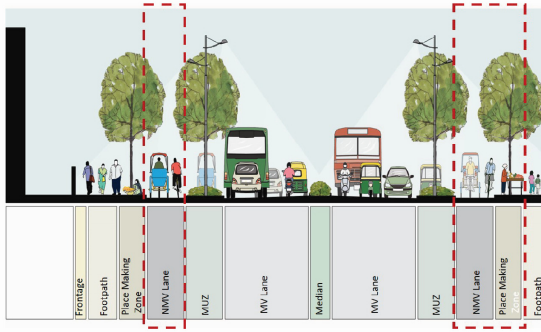
Project UPHAAR

Theme Parks, Water Bodies & Meditation Parks

Project PRAGATI

Commercial & Recreational

Project PRAVAAH



Proposed Street Section

Project PRAVAAH

Pedestrian friendly pathways with specially-abled design

Encouragement to non-motorised transport

Intelligent traffic management

Non-Vehicle streets / Zones

Additional Smart Applications

Smart Parking management

Project ASHIANA

Low Cost Housing for Urban Poor

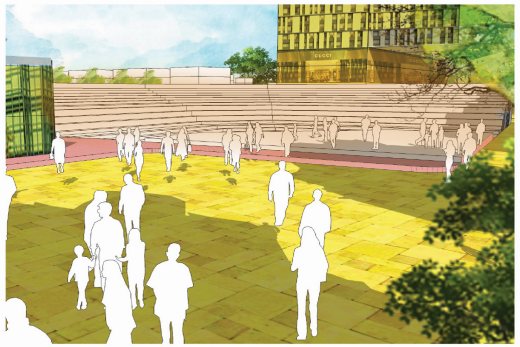
Legend

- No Parking Zone
- Dedicated Cycle Track
- Vending Zones

.11 Area Based Development - Projects Views:Before & After

Before

After



Old GT Road

Railway Raod

Sabzi Mandi Road

Ram Leela Maidan

Before

After

Area Based Development - Smart Features

tial Smart Features

art electrical meters

r Tree, Solar panels and solar lights

Smart dustbins

cle Docking Stations

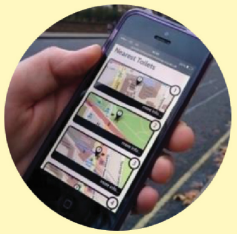
Wifi Hotspots

Pedestrian road

Intelligent Traffic Signals

Street furniture

Parking Sensors and App



Cycle Tracks

Urban Haat/Night Market

Furniture in parks

Multilevel Car Parking

Panic Buttons/SOS in smart poles

Theme parks

Open Gyms

VMS Display boards along roads

Smart Bus Stops

CCTV Surveillance

Digital literacy center

Additional Smart Features

Digital Signage on Smart poles

Interactive Kiosks

E-Toilets

Specially abled toilets

Tactile flooring

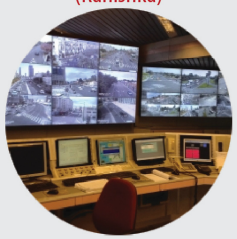
Smart Classrooms

Start Up zone (Agri exchange pavilion)

Ramps for wheel-chair

Water bodies, Musical Fountain

Command and Control center (Kanishka)



Call Center

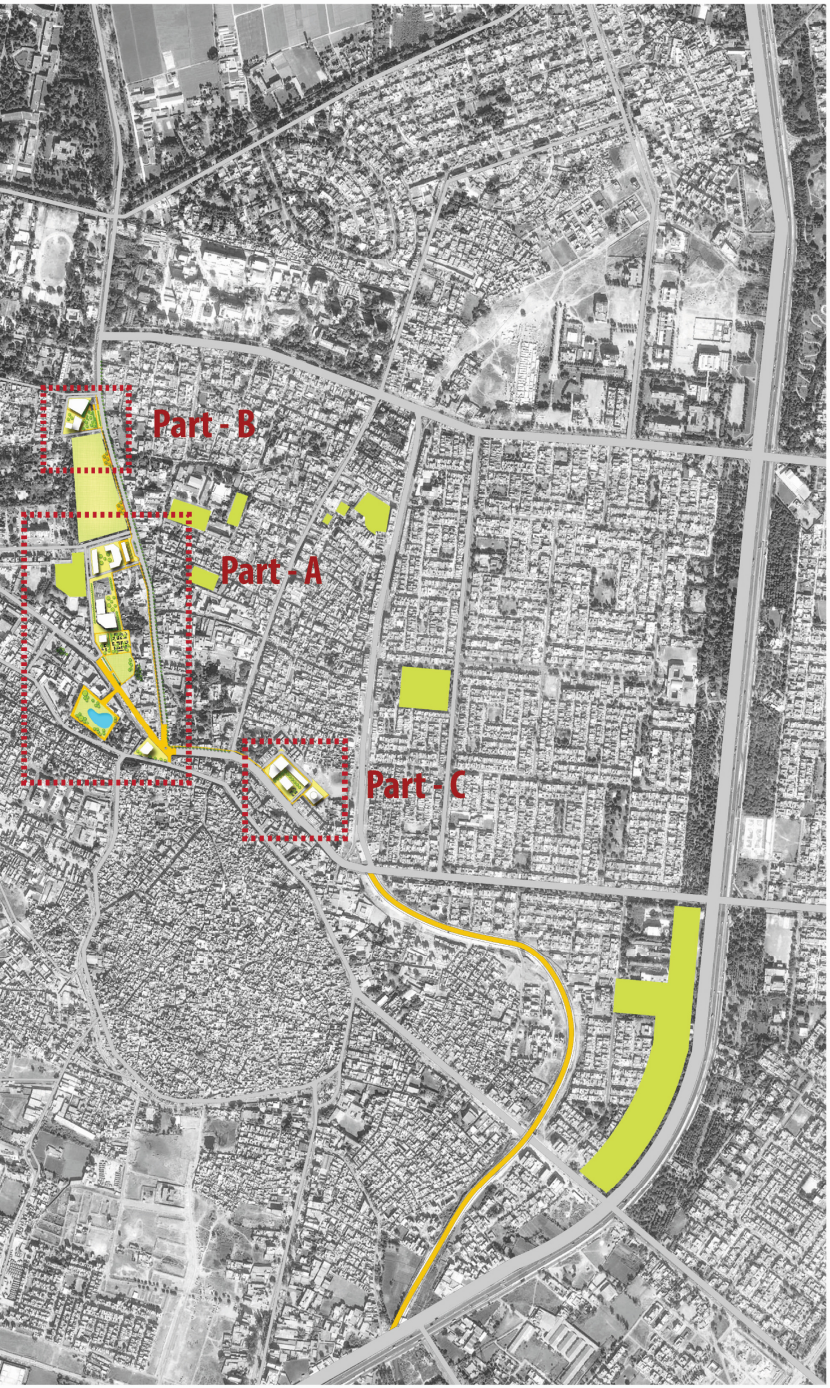
Video Wall for various modules

Streetscaping for Cultural Corridor

Rotary (Round about)

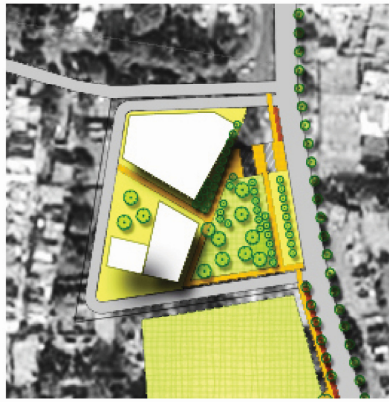
Street Sweeping Machine

ter Plan

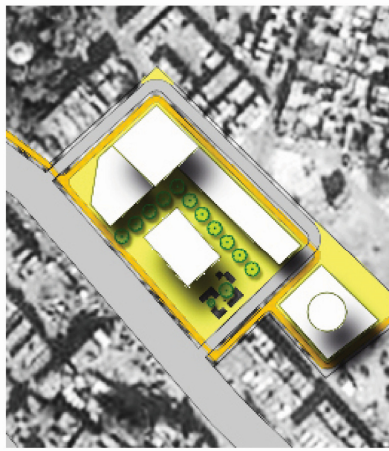


Part - A
Central Business District and Karan Taal

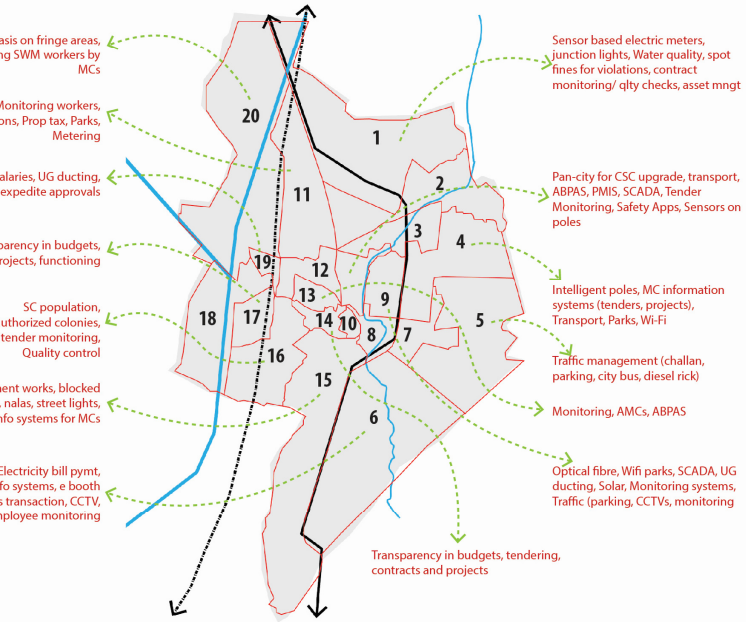
Part - B
Convention Hall



Part - C
Old Vegetable Market



rd Wise - Focus Group Discussions



City Poll Results

is the top priority issue that karnal Smart City should address under PAN city solutions?

2836	3308	14852	3072
Inadequate water supply in the city & ck of 24 hour water supply	Regular power cuts/outages/lack of smart/net metering with use of solar power	Unsatisfactory/delayed response from civic authorities (lack of intergrated complaint redressal system)	Traffic and lack of packing lots in commercial areas

ults from Consultations

vernance and ICT usage

preciative of the fact that CSC is offering gle window services

yment of online salaries for staff including nitation workers has improved nsparency

ed for decentralizing e-governance data to ck situation at ward level

prove information on overall resources ailable with ULB, quarterly expenditure on dgets, revenue collection etc.

pularize Web based systems with have dividual logins amongst KMC staff

Ward level Improvements

In wards, with low income populations the MCs expressed keen desire to expedite improvement proposals / development projects

Emphasis on improvement in tendering and monitoring of contractors

They currently communicate improvement proposals to ULB officials with a signed written application from citizens.

Need single database to electronically track progress of ward wise improvement proposals

Monitoring

Need a comprehensive monitoring systems for KMC workers.

Advocated strongly for robust information systems and team under their supervision that rotates on requirement basis

For better monitoring, suggestions pertained to annual maintenance contracts for petty maintenance work in each ward/ sector

MCs also quoted examples of HUDA processed for building permission that update citizen at various stages. They aspired for similar services from MCK.

Pan City Summary

Karnal's state of art Intelligent Operations centre KA-NI-SH-KA (Karnal Nigrani Kshetriya Karyalaya) is at core of its pan-city proposal. It has a three pronged vision of improving quality of services, redress grievances in a time bound manner and ease traffic issues in the city. This 24X7 centre will deliver:

- Evidence based decision making and responsive operational control for real-time incident management
- Inter-agency and inter-sectoral collaboration on traffic, safety and time bound redressal of civic issues
- Service delivery improvements

Smart Pole

Interactive Ki

Cycle Docking St

Smart Bus St

PAN City Proposal - Summary

NISHKA (Karnal Kshetriya Nigrani Karyalaya) –
grated Command and Control Centre

SHKA will be a central hub for city management -"Single source of truth" for all city's civic ions

ce where information from various department command centers and applications will be cted, intelligently correlated and analyzed for better planning of the city

re will process all the information, generate insights and predict outcomes

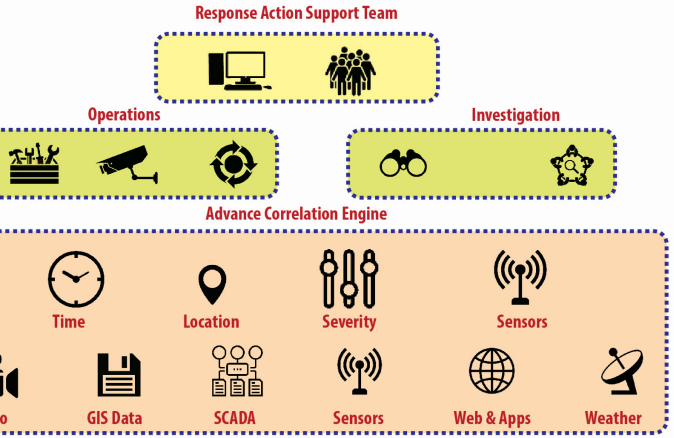
hts will be helpful in managing incidents across the city and do a better planning for the lopment

SHKA will manage utilities for ABD area, and in future capable of managing utilities of the e city

s City's emergency and disaster management platform (with integrated linkages with ct level Disaster Control Room)

NISHKA Conrol Centre - Linkages

ponse Mechanism at KANISHKA



Key Components of Pan City Proposal

Kanishka - Integrated Command and Control Centre

Provide better services to citizens with a view to improve the quality of life.

Implement holistic and integrated solution for multiple (existing and future) IT initiative for Karnal.

Drive the actions on behalf of all the departments for city operations.

- Integrated Operations Building – a network hub for all IoTs
- ICT related modules with interrelated processes
- Data Analytics and MIS applications
- City level application and smart dashboard

Safety, Security & Traffic Management

Manage traffic and safety requirements of smart city.

Monitoring traffic feed, regulating traffic junctions and public transport.

Providing facilities of Ambulance, Police Van and Fire Brigade.

Space for Disaster Management Control room to help feed data from its centre for coordinating relief operations.

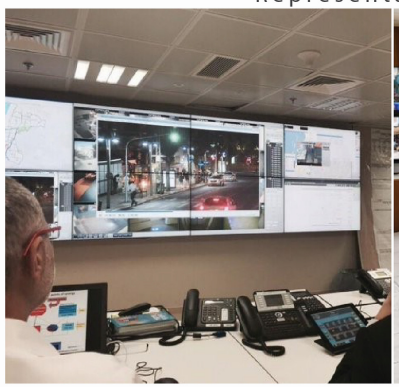
- Intelligent Poles
- Smart bus stops & Real time tracking and monitoring of city bus through GPS
- Smart Parking
- Intelligent traffic management systems

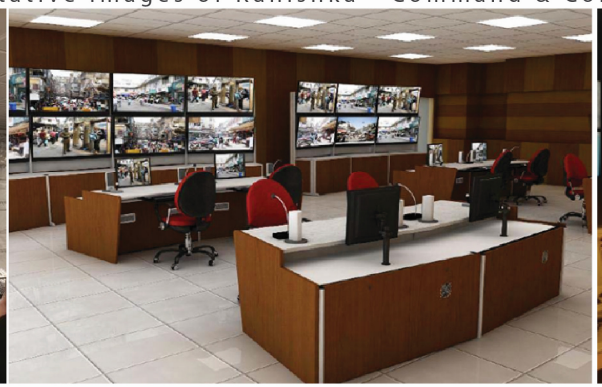
Integrated Time Bound Redressal Of Civic Problems

Comprehensive and integrated grievance redressal system will bring together all ci services and will be backed up by an acti team to redress the issue is time bound manner.

- Interactive kiosks for online services
- Integrated call centre for complaints
- Unified App for reporting civic issues (integrated) w geo location
- Action team for time bou and quick redressal of cit complaints

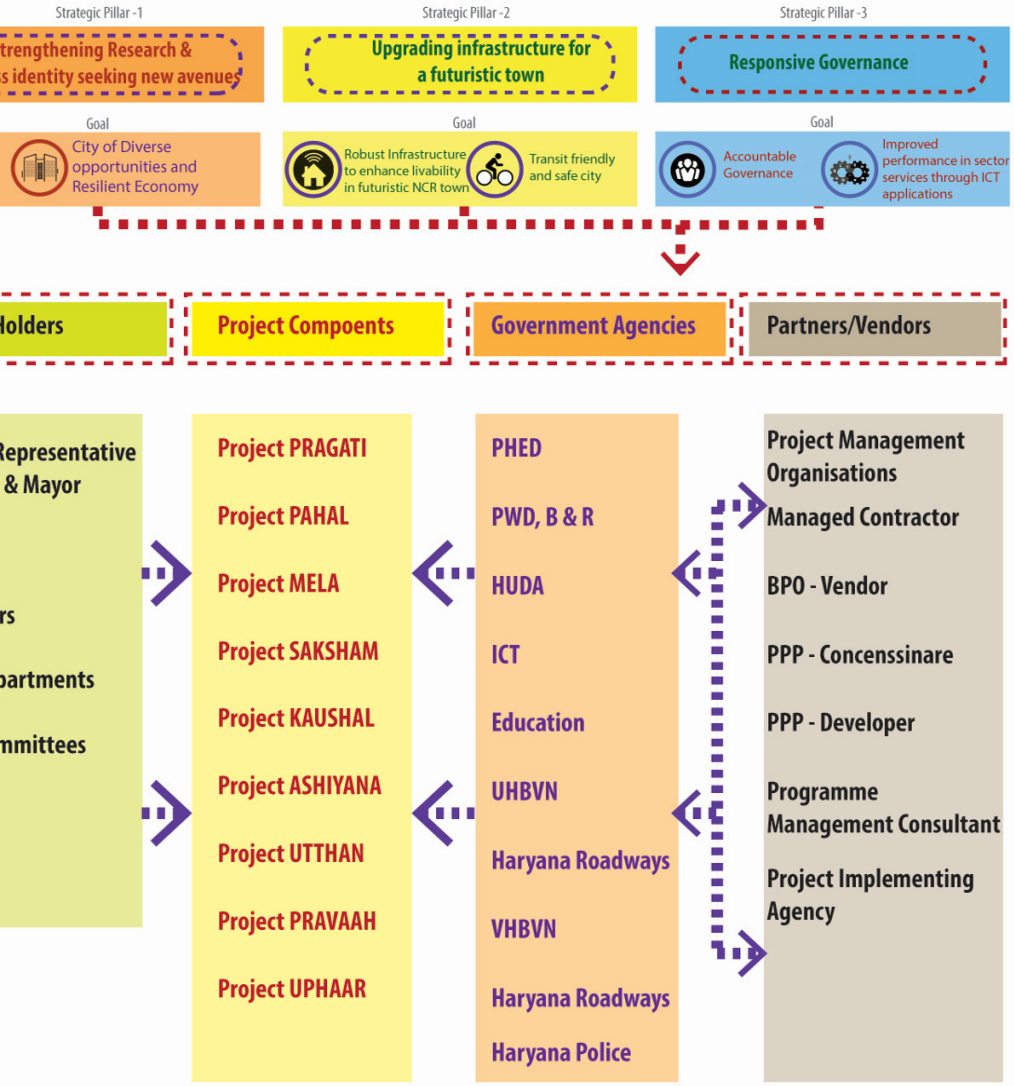
Representative Images of Kanishka - Command & Control Centre



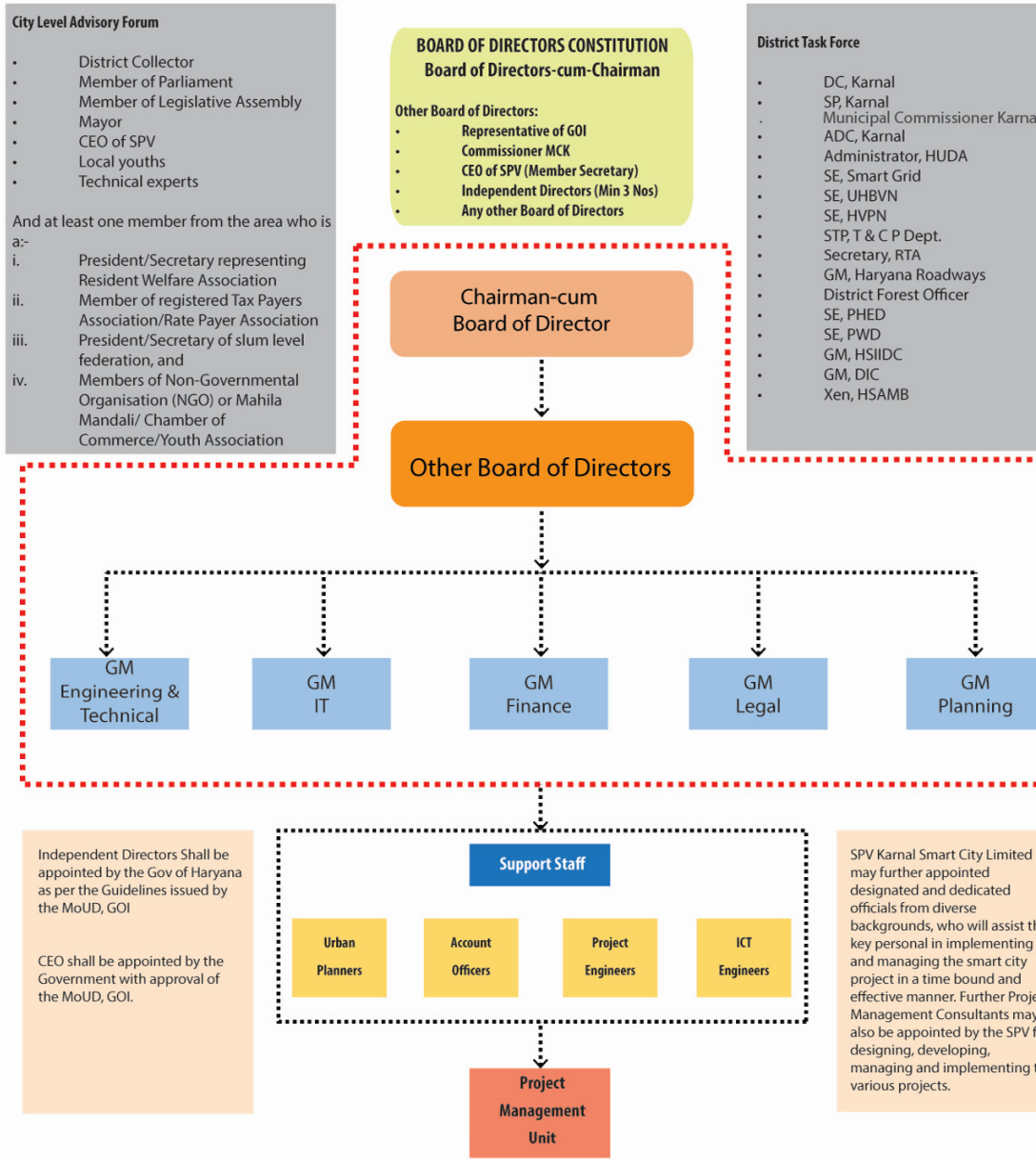


.16 Implementation Plan – Stakeholder Network and SPV

keholder Network



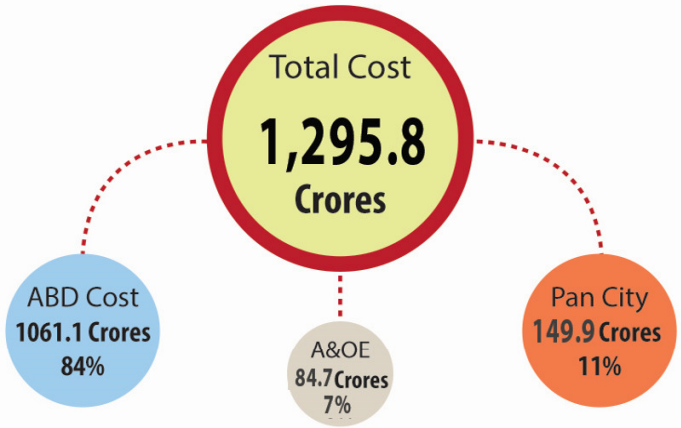
Special Purpose Vehicle (SPV)



		CAPEX PHASING ASSUMPTION (%)																			
		PY1				PY2				PY3				PY4				PY5			
Project name	Project Activities	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
PRAGATI	Space for Commercial Activities in Bus Stand																				
	Space for Commercial Activities, BPO & Service Industry in Mughal Canal Phase 2&3																				
	Commercial Space & Multiplex in Old MCK office																				
	Digital Literacy Centre																				
PAHAL	Innovation and Incubation Centre																				
	Agritech Pavilion																				
MELA	Landscaping of Ram Leela Maidan																				
	Interpretation Centre/Museum																				
SAKSHAM	Vending Zones with Smart Vending Carts & Smart Cards to Owners																				
	Furniture & Kiosks for Night Market																				
KAUSHAL	Smart Classrooms for Schools																				
	Skill Development Center																				
ASHIANA	Aashiana Scheme (Housing for Urban Poor)																				
UPHAAR	Creation of City Central Park																				
	Creation of Open Plaza																				
	Upgradation of Oxy Park																				
	Light & Sound show at Karan Park																				
	Welness trail																				
	Musical Fountain at Karan Tal																				
	Convention Hall																				
	Streetscape of Old GT Road																				
	Free Wi-Fi in Parks																				
UTTHAN	Smart Water Metering in ABD																				
	Leak Detection System																				
	Replacement of Distribution network to DI Pipeline																				
	Dual supply line along Kunjpura Road																				
	Pumps replacement																				
	Boring a new tube well																				
	Drain & Road Crossing																				
	Construction of RWH & Desilting Tank																				
	Construction of IPS & Accessories																				
	Road Repairs, Restoration & Miscellaneous Works																				
	Construction of Screen Chamber																				
	Construction of RCC recharge tank																				
	Construction of sump																				
	Construction of Injection Well with bore hole																				
	Bore & Filter Media for Parks																				
	RF Sensor Based Community dustbins																				
	E-Vehicles with GPS for D-D Waste Collection																				
	Street Sweeping Machines																				
	Vehicles for transporting carcasses																				
	Composting Plant Upgradation																				
	Compost Plant Facility Upgradation																				
	Awareness Programs																				
	Sewerage leak detectors																				
	Renovation work for STP with SCADA & SBR technology																				
	Gray Water Treatment Plant with 200 mm Piping & Pumping Station																				
	Rooftop Solar Plant at MCK, Institutional Buildings, Redevelopment Sites & E-Rickshaw charging Station																				
	Solar lights in Redevelopment sites																				
	Solar lights in Karnal City Parks																				
	Solar Tree in Green & Open Areas																				
	Smart Metering for Electricity																				
	GPR Survey (For UG Cabling)																				
	UG Cabling																				
	Conversion of Sodium to LED street lights																				
	Specially abled toilets in public places																				
PRAVAAH	Dedicated Cycle Track																				
	Docking Stations for PBS (Saanjhi Cycles)																				
	Pedastrianisation of Meerut Road																				
	Upgradation of Footpaths / Pedestrian walkways																				
	Signages for "No-Parking Zone"																				
	Mechanised Smart Multi-level Car Parking at Redevelopment Sites																				
	Pre-paid e-Rickshaw booths																				
	Karnal Smart City Parking app																				
	Major Junctions re-design																				
	City Bus Service																				
	Smart City Bus terminal																				
KANISHKA	Laying of city wide optical fibre																				
	Command and Control Centre																				
	Interactive kiosks for online services																				
	Smart (Intelligent Poles)																				
	Training (Command & Control Centre Staff+ Citizen+ IEC Activities)																				
	Add on modules for safetipin app																				
	Unified App for reporting civic issues																				
	Action team deployment																				
	Integated Call Centre																				
PRAVAAH-II	Smart Bus Stops																				
	Smart Parking systems																				
	City Surveilience																				
	Traffic Voilation Detection System																				
	Emergency road repair vehicle																				
	Sanjhi cycle module Integration																				
AROGYA	Upgrading Public Healthcare Facilities																				

LEGEND
INITIATION
PLANNING
PROCUREMENT
EXECUTION
O&M

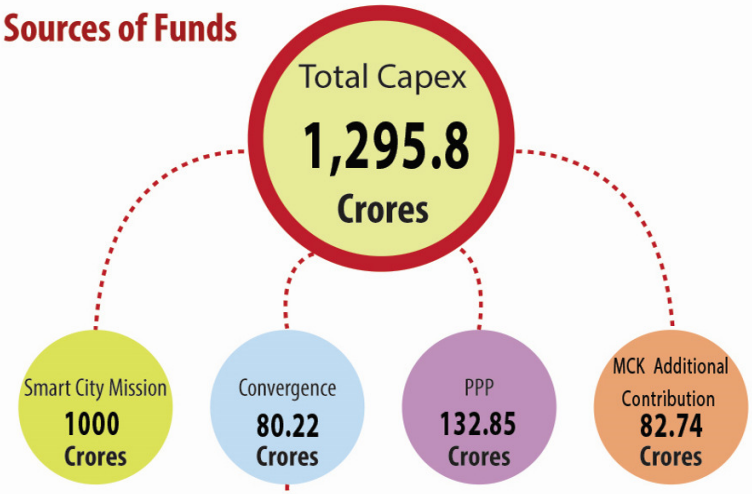
Financial Plan - Costing



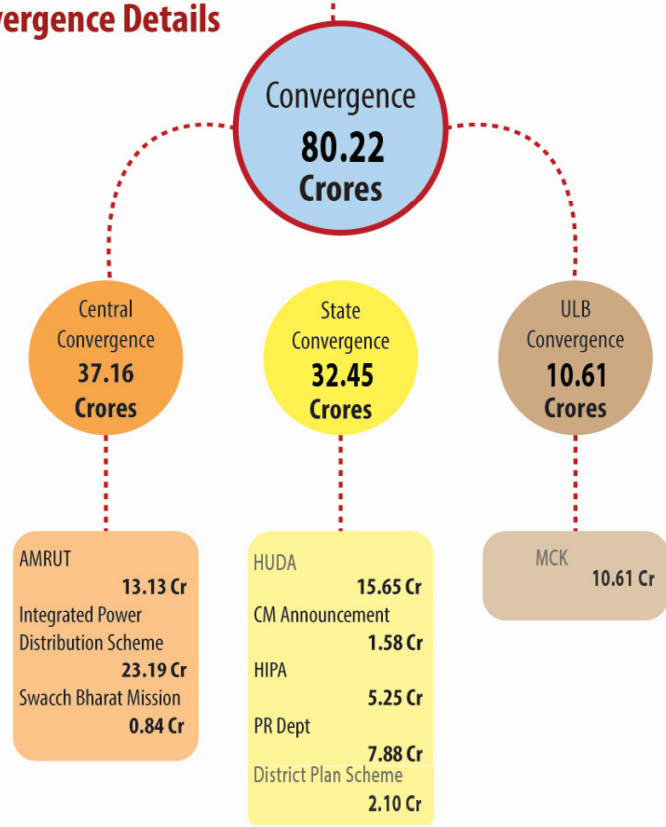
t PRAGATI	Commercial Space & Multiplex on land of MCK near Ghantaghar Chowk	74.31 Cr
	Commercial space, BPO & Service Industry on Abandoned Land of Mughal Canal	275.32 Cr
	Development of Central Business District (CBD)	82.68 Cr
	Digital Literacy Centre	7.47 Cr
t PAHAL	Karnal Agritech Innovation and Incubation Centre	56.30 Cr
	Karnal Agritech Pavilion	101.16 Cr
t MELA	Conversion of Ramleela Ground into recreational space	9.98 Cr
	City Interpretation Centre/Museum	22.33 Cr
t SAKSHAM	Developing Vending Zones	0.59 Cr
	Smart Vending Carts	5.25 Cr
	Street Furniture & Kiosks for Night Market	2.60 Cr
t KAUSHAL	Skill Development Centre in CBD	4.13 Cr
	Improvement of Education System by latest IOT for Schools	4.41 Cr
t ASHIANA	Housing for Urban Poor	15.65 Cr
t UPHAAR	Development of Recreational Zone in the proposed CBD	7.29 Cr
	Creation of Green Spaces at Mughal Canal Market	2.63 Cr
	Creation of Oxy Park	0.27 Cr
	Creation of Plaza	25.57 Cr
	Light & Sound show at Karan Park	1.68 Cr
	Musical Fountain at Karan Tal	2.38 Cr
	Streetscape of Old GT Road	0.50 Cr
	Wellness trail by installing Open Gym & Meditation Areas in Parks	17.00 Cr
	Convention Hall	7.88 Cr
	Development of Offices (GRIHA Certified)	28.15 Cr
	Provide Free Wi-Fi services in Parks to promote Digital Economy	1.89 Cr
t UTTHAN	Rain Water Harvesting	1.54 Cr
	Renewable Energy	38.45 Cr
	Smart Sewerage Management	49.28 Cr
	Smart Utilities (eg UD Cabling, Smart Metering etc)	32.13 Cr
	Smart Water Supply	36.95 Cr
	Solid Waste Management	8.03 Cr
	Storm Water Drainage	8.35 Cr
	Specially abled toilets in public places	0.21 Cr
	Storm Water Drainage System	8.35 Cr
t PRAVAAH	City Bus Service	1.58 Cr
	Intersections re-design	2.10 Cr
	City Bus Terminus in CBD Area	56.30 Cr
	Earmarked Cycle Track	10.62 Cr
	Docking Stations for SAANJHI Cycles (PBS)	2.65 Cr
	Walking Street in the newly developing Cultural Corridor	0.78 Cr
	Development of Footpaths with Tactile flooring	7.34 Cr

Project AROGYA	Upgrading Public Healthcare Database System in the City	0.17 Cr
Project KANISHKA	Emergency Response Team deployment	3.15 Cr
	Add on modules for Safetipin App for Women	0.16 Cr
	Command & Control Centre (CCC) (24x7)	23.09 Cr
	Integrated Call Centre	1.41 Cr
	Interactive kiosks for online services (ward level)	0.84 Cr
	Laying of city wide optical fibre	1.89 Cr
	Intelligent Poles	11.34 Cr
	Team training (ERT Team)	1.05 Cr
	Training (Command & Control Centre Staff+ Citizen+ IEC Activities)	1.05 Cr
	Unified App for reporting civic issues	0.21 Cr
Project PRAVAAH-II	City Surveillance	5.51 Cr
	Emergency road repair vehicle & Team	5.25 Cr
	SAANJHI cycle (PBS) module Integration	0.05 Cr
	Smart Bus stops	22.28 Cr
	Smart Parking systems	6.98 Cr
	Traffic Voilation Detection System	65.32 Cr

Sources of Funds



Convergence Details



H Flow Estimate

CASHFLOW ESTIMATE										
s	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
INFLOW										
epts - Mission funds										
Fund - Contribution from Central Govt.	200	200	100							
und - Contribution from State Govt. & MCK	200	200	100							
epts -Others										
ce	14.24	26.12	20.26	8.98	-	-	-	-	-	-
	26.57	40.12	53.14	13.02	-	-	-	-	-	-
Schemes	5.14	4.62	0.65	0.21	-	-	-	-	-	-
onal Contributions from Financial Sources	28.26	28.26	28.26	0.00	-	-	-	-	-	-
al Reciepts (INR Lakhs)	**474.20**	**499.11**	**302.31**	**22.21**	-	-	-	-	-	-
Expenditure / OUTFLOW										
enditure										
	Sum of AY1	Sum of AY2	Sum of AY3	Sum of AY4	-	-	-	-	-	-
vces	5.04	7.73	4.79	1.49	-	-	-	-	-	-
& Control Center	7.00	9.33	7.00	0.00	-	-	-	-	-	-
response	5.25	0.00	0.00	0.00	-	-	-	-	-	-
of existing apps	0.05	0.00	0.00	0.00	-	-	-	-	-	-
	109.19	165.19	216.97	54.43	-	-	-	-	-	-
	17.09	24.51	25.03	6.33	-	-	-	-	-	-
ised Transport	5.86	6.75	6.71	1.77	-	-	-	-	-	-
es/Recreation Spaces	16.56	15.30	19.18	18.17	-	-	-	-	-	-
astructure	0.38	0.76	0.76	0.00	-	-	-	-	-	-
y	0.16	0.00	0.00	0.00	-	-	-	-	-	-
sport	6.68	6.68	6.68	2.23	-	-	-	-	-	-
Harvesting	0.63	0.61	0.30	0.00	-	-	-	-	-	-
Energy	7.27	5.66	13.31	11.70	-	-	-	-	-	-
itation	3.13	7.82	4.69	0.00	-	-	-	-	-	-
ng	0.85	15.75	18.90	11.81	-	-	-	-	-	-
erage Management	5.93	10.93	14.31	18.11	-	-	-	-	-	-
ies	8.19	12.15	6.84	5.31	-	-	-	-	-	-
er Supply	4.94	7.49	10.17	14.35	-	-	-	-	-	-
structure	26.27	38.49	49.74	12.21	-	-	-	-	-	-
Management	5.30	1.77	1.18	0.21	-	-	-	-	-	-
er Drainage	1.12	2.11	2.71	2.41	-	-	-	-	-	-
agement	19.60	19.60	19.60	6.53						
	28.26	28.26	28.26	0.00						
al Expenditure	**284.75**	**386.89**	**457.13**	**167.06**		-	-	-	-	-
l Revenue	**Y1**	**Y2**	**Y3**	**Y4**	**Y5**	**Y6**	**Y7**	**Y8**	**Y9**	**Y10**
Rentals from the Grade A office space	-	0.67	1.41	2.23	2.92	3.07	3.22	3.38	3.55	3.73
Rentals from Commercial Area	-	7.48	15.71	24.74	32.47	34.10	35.80	37.59	39.47	41.45
Rentals from Car Parking	-	1.28	2.68	4.22	5.54	5.82	6.11	6.41	6.73	7.07
ational Revenue	**-**	**9.43**	**19.80**	**31.19**	**40.94**	**42.98**	**45.13**	**47.39**	**49.76**	**52.25**
l Expenditure	**Y1**	**Y2**	**Y3**	**Y4**	**Y5**	**Y6**	**Y7**	**Y8**	**Y9**	**Y10**
	0.70	1.40	5.09	40.48	42.51	44.63	46.86	49.21	51.67	54.24
v	**474.20**	**508.54**	**322.11**	**53.40**	**40.94**	**42.98**	**45.13**	**47.39**	**49.76**	**52.25**
ow	**285.45**	**388.29**	**462.22**	**207.54**	**42.51**	**44.63**	**46.86**	**49.21**	**51.67**	**54.24**
lance	10.00	198.76	319.01	178.90	24.76	23.19	21.54	19.81	17.99	16.08
/ Deficit	188.76	120.25	-140.11	-154.14	-1.57	-1.65	-1.73	-1.82	-1.91	-2.00
ance	**198.76**	**319.01**	**178.90**	**24.76**	**23.19**	**21.54**	**19.81**	**17.99**	**16.08**	**14.09**

Revenue

Rental Revenue of Project	Unit (Sqm)	Base year rent	Y1	Y2	Y3	Y4	Y5	Y6
Year Flag		0	1	2	3	4	5	6
Absorbtion rate			0%	16%	32%	48%	60%	60%
Rent Increment factor		1	1.05	1.10	1.16	1.22	1.28	1.34
Grade A Office space								
Mughal Canal	3,600	10598.30	-	6,730,347	14,133,729	22,260,623	29,217,067	30,677,921
			-	-	-	-	-	-
Total Rental - Grade A office space (INR Cr)			-	0.67	1.41	2.23	2.92	3.07
Commercial Area								
Utilization of Land of Abandoned Mughal Canal for Economical Upliftment	32,400	8831.92	-	50,477,602	106,002,965	166,954,670	219,128,004	230,084,404
			-	-	-	-	-	-
Old MCK Building	17,976	5019.76	-	15,917,490	33,426,730	52,647,099	69,099,318	72,554,284
CBD	5,400	8831.92	-	8,412,934	17,667,161	27,825,778	36,521,334	38,347,401
Total Rental - Commercial space (INR Cr)			-	7.48	15.71	24.74	32.47	34.10
Car parking								
Mughal Canal	2000	30	-	4,640,026	9,744,054	15,346,885	20,142,786	21,149,925
2 MCLP Parking	1000	30	-	2,320,013	4,872,027	7,673,442	10,071,393	10,574,963
Old Sabji Mandi	500	30	-	1,160,006	2,436,013	3,836,721	5,035,697	5,287,481
Old MCK Building	500	30	-	1,160,006	2,436,013	3,836,721	5,035,697	5,287,481
37 Institutional Buildings	1500	30	-	3,480,019	7,308,040	11,510,164	15,107,090	15,862,444
Total Car Parking (INR Cr)			-	1.28	2.68	4.22	5.54	5.82

Key Outcomes - Smart City

Sector	Metric	From	To	Benchmark
sport & Mobility	Average traffic speed (km/hr)	15-20 kmph		
	Percentage of road network with dedicated bicycle tracks		>=50	>=50
	Number of pedestrian roads	0	2	-
	Transport-related fatality per lakh population		<=2 persons per lakh	<=2 persons per lakh
	Availability of Passenger Information System	0	>=75%	>=75%
	Extent of signal synchronization	0	75%	>=75%
	Availability of Traffic Surveillance System	0	75%	at >=75%
	Availability of paid parking spaces	0	50%	>=75%
ter & Sewage	Per capita supply of water	135		135
	Non revenue water (%)	26%	15%	<15%
	Percentage of water connections covered through smart meters	0	30%	<15%
	Households with Rainwater harvesting	0	100%	100%
	Coverage of sewerage network	80%	100%	100%
	Collection efficiency of sewerage network	80%	100%	100%
	Sewerage discharged in to river without treatment	20%	0	0
itation & Waste	Household level coverage of waste collection	100%		100%
	Waste segregation at source	100%	100%	100%
	Extent of Scientific Disposal of MSW	0	100%	100%
nergy & Solar	Energy from renewable sources (%)	2%	10%	10%
	% of city population with authorized electrical service	90%	100%	100%
	% of electrical connections covered through smart meters	0	100%	100%
	% of roads with underground electric wiring/ utility ducting	0	100%	100%
	% of total energy derived from renewable energy	0	10%	10%
Amenities	% of city covered with adequate footpaths (> 2 m footpaths)	10%		100%
	Per capita availability of green spaces	1.5 sq m per capita	10 sq.m. per capita	10-12 sq.m. per capita

Sector	Metric	From	To	Benchmar
Safety & Security	Percentage of area covered through surveillance systems	0	100%	100%
	Response time (minutes)	Varies from 25 mins to 1 hour	<10	<10
E-governance & Digital	Average delay in grievance redressal		0 hours	Timeline as per Citi
	% of citizen services available online	50%	100%	100%
	% of services integrated through Command Centre	0	100%	100%
	Public Wi-Fi Coverage	30%	100%	100%
	Percentage of citizens using online services	25%	100%	100%
	Digital literate population	>50%	100%	100%
Economy & Employment	Annual increase in number of registered offices/ commercial establishments	4%	15%	
	Percentage integration of informal activities with streets and other public places	0	100%	100%
Health	Hospital connected to HMIS (Hospital Management Information System)	0	100%	-
	Average response time in case of health emergencies	10 -30 mins	10 mins	8 – 10 mins
Housing	% of slum households covered through formal housing	0	100%	100%
	Number of HHs living in slums	764	0	0

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31 March, 201

ANNEXURE - 3

SMART CITY PROPOSAL

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Round 3

31 March, 2017

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1 Executive Summary

Karnal Smart City Proposal – Executive Summary

❖ Introduction:

Smart City Mission is the flagship Program of Ministry of Urban Development, Government of India under which 2 cities have been selected in Haryana including Karnal. In Smart City Challenge Round 1, Karnal was ranked 66 whereas in Smart City Challenge Round 2, Karnal ranked 51. A total of 20 cities have been selected in Round 1 and 40 cities have been selected in Round 2 (including 13 cities under the Fast Track Round). The remaining cities are required to submit their proposal for Smart City Challenge Round 3 by 31st March, 2017. The smart city proposal of Karnal has been revised after carrying out a) detailed discussion with key government officials & government departments, b) engaging with citizens & key stakeholders, c) carrying out a study of the various proposed projects and d) finally zeroing in on the area and the projects to be implemented. The smart city proposal of Karnal for Round 3 covering Approach and methodology, Area-based Development proposal, Pan-city proposals, Financial plan, Convergence agenda and Formation of SPV is summarized below.

❖ City Profile:

Karnal Municipal Corporation has a population of 3,57,334 (census 2011) and spreads across 87 sq. kms. The city has 20 administrative wards and a high literacy rate of 86%. 76% of city's population is below age group of 45 years. Karnal is best defined as a young and economically vibrant city with diverse employment opportunities. Given the higher mobile penetrations (65.5% access), the city has computerized its services and engages citizens through its Interactive Portal and dynamic Apps. The youthful energy and entrepreneurship of the city is fast complementing its agricultural identity by diversifying into an industrial hub through creativity and innovation.

The city water supply is completed based on ground water. Total 60 MLD of water supplied by PHED after chlorination. 135 LPCD water is supplied as per benchmark through intermittent supply of 8 hours (thrice a day). 65% of water connections are metered. Karnal has achieved 100% Door to Door collection and source segregation is practiced in all 20 wards. All commercial areas covered through night sweeping and waste transportation vehicles equipped with GPS for improved monitoring. SWM processing/disposal facility of 150 TPD capacity is fully operational. Facility receives 100 TPD of waste, 30-40 TPD of compost and 8-10 TPD of RDF produced. 90 % houses are covered with metered electricity supply and Karnal has been included in National Smart Grid Mission (NSGM) as sole city in Haryana for providing smart metered and uninterrupted electricity. All payments in Municipal Corporation Karnal (MCK) are issued an electronic receipt (G8). All Citizen Application records maintained in electronic format and citizens can avail 16 different services through various online modules in time bound manner. Services can be availed through eSewa kiosk with reduced human interface to improve transparency

❖ SWOT:

Strengths

Karnal lies on National Highway-1 at a distance of 123 kilometer from National capital Delhi & 130 kilometers from State capital Chandigarh, which makes it a popular mid-halt for traffic and tourists transiting between two cities. The inclusion of Karnal in the National Capital Region (NCR) has provided a spurt in the growth as per the regional plan of the National Capital Regional Planning Board (NCRPB). Karnal is getting popularity with presence of other eminent agriculture research Institutions like NDRI, CSSRI, Wheat Research Directorate, National Bureau of Animal Genetics Resources, Sugarcane Breeding Institute etc. The city also hosts a 100 seat Medical College and Hospital with all modern amenities in the name of Kalpana Chawla, famous astronaut. The Medical College and Hospital is spread over an area of more

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than 50 acres. Haryana's first horticulture University is coming up in Karnal district. In additions to its image of agricultural producing area, the region also has rich industrial base with 20 large/medium and 2867 micro/small industrial enterprises. Large and medium scale industries include Rice milling, crystal sugar, Agricultural Implements and parts, Refilling of LPG cylinders, Plywood veneer etc. About 60 number of units export their products to various countries and exports crossed mark of 10,000 crores in year 2015-16. Cluster Development Scheme is also being promoted here to advance the MSMEs. The 2867 MSMEs currently provide employment to 27911 people.

Weaknesses

Karnal current sees a mix of all motorized forms of transport. The e-Rickshaws have been introduced to phase wise eliminate manual rickshaws. The main commercial areas see unregulated traffic, which gets worse with damaged roads or broken infrastructure. The parking in some of the old areas remains a concern during peak business hours. The city administration has already relocated old Vegetable Market and old Grain Market which has improved situation for traffic and opened up prime land for redevelopment. The city including residential and commercial areas has exposed electrical wiring. The HT wiring is exposed and passes at various junctions and along various crowded roads. As the city grows, there is need to have better organized skilled workforce to meet the demand of vibrant local city economy. Only 6.1% workers are employed in primary sector and almost 94% are engaged in secondary and tertiary sector. There is a scope to align unorganized semiskilled workforce to contribute to local industry and city requirements.

Opportunities

Karnal has a young and skilled work force that is seeking new opportunities and business avenues. The city has unique advantage with presence of esteemed research institutions in area of dairying, wheat research, horticulture and array of manufacturing activities. The international links of existing exporters need to be identified and tapped for growing business in the region. Karnal region has 16 ITIs and ITCs with total seat capacity of 3588 with a Vocational training seat density (Seats/1000) of 2.4.There exists opportunity to tap the opportunities provided by vibrant economic magnets and link them with skilling of youth to engage in new startups and diversification of existing services. Excellent central prime commercial area is available in the city along abandoned Mughal Canal for planned development. Potential for MSMEs and service industry is growing in the NCR. There is also potential for feeder industries and support suppliers to major institutions of Central Government. Recently, many service industry opportunities like call centres have also started propping up in the city. The shift towards small towns has also been driven by the lower cost of operations, less churn in the workforce and the availability of staff with multilingual skills at such places.

Threats

At District level, entire drinking water supply to all rural as well as urban parts is based on ground water. Concerns about groundwater depletion or long-term water-level declines caused by sustained groundwater pumping have been in the forefront of the discussions. The project for Ranny Wells in Yamuna flood plains is under consideration. The strategic location advantage is enjoyed by all towns on the route. The city youth often migrate to nearby towns in search of better employment opportunities. Karnal needs to pro-actively plan for better infrastructure and incentives that can help maintain its advantages over nearby towns.

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❖ **Vision and Strategic Focus**

In an attempt to envelope the entire proposal under one, it was ensured that the Vision statement reflects the results of the SWOT analysis. With much review and analysis, the City's Vision was formulated to be:

"Karnal aspires to be a Futuristic NCR town by leveraging its Business and Research acumen to attract Knowledge based enterprises and Start-up activities".

Karnal will use its strategic location, presence of esteemed business players, manufacturers, knowledge institutions and young human capital to establish itself as a futuristic NCR town. City assessment, SWOT and extensive citizen inputs were taken into account when defining this vision. This three-part blueprint is a true reflection of Karnal's unique profile, opportunities and challenges.

Focus Area	Goals and Sub Goals
Strengthen Research and Business identity while seeking New Avenues	GOAL 1 - City of Diverse opportunities and Resilient Economy SUB GOALS - 1.1 Provide enabling environment for Service Sectors 1.2 Continue to provide avenues for Agricultural and allied Research 1.3 Promote entrepreneurship and Startups and convert job seekers to job enablers 1.4 Integrate spaces and avenues for Business/ Commercial activities in city economy
Upgrading Infrastructure for a futuristic town	GOAL 2 – Robust Infrastructure to enhance livability in Futuristic NCR town SUB GOALS - 2.1 Assured and reliable water supply with 100% metering by 2021 2.2 Open-defecation- free Karnal with 100% coverage of individual toilets and 100% underground sewage network by 2019 2.3 100% Door to Door collection of solid waste with segregation and 100% scientific disposal of waste using waste to energy plant by 2019 2.4 24x7 power supply with smart grid and smart metering by 2021 2.5 100% of the road covered with underground utility duct to reduce maintenance cost, improve aesthetic appeal & provide assured safety by 2021 2.6 Acquiring 10% of energy requirement from renewable energy sources by 2021 2.7 Conversion of 100% streetlights to LED by 2019 2.8 Housing for all by 2022 to ensure provision of housing & basic services for all slum dwellers 2.9 Availability of and accessibility to social infrastructure such schools, PHCs
	GOAL 3 - Transit friendly and safe city SUB GOALS - 3.1 Provide a holistic public transport facility which will turn the modal shift from private vehicles towards public transport 3.2 Provide reliable non-motorized transport and increase the share of public transport usage to 25% by 2019 3.3 Improve safety and security through digital surveillance system by 2019
	GOAL 4 – Accountable Governance

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FOCUS AREA – Responsive Governance	SUB GOALS - 4.1 Create a one-stop-destination for all municipal services 4.2 Enhance the reliability of all citizen services through time bound response and resolution 4.3 Promote and support engagement of citizens and empower citizens to understand, evaluate and analyze information using digital technology 4.4 Setting-up digital literacy centers for providing IT training
	GOAL 5 - Improved performance in sector services through ICT applications SUB GOALS - 5.1 Improve service quality and reliability through use of technology and advanced data analytics in services 5.2 Reduction in operation costs for major services (water, solid waste, transport and electricity) through advanced data analytics 5.3 Provide seamless integration of data with various departments to generate meaningful insights for service operations and citizen satisfaction

❖ **Review of the proposals prepared during round 1 and 2 of the Smart City Mission:**

A detailed study of the smart city proposal Round 1 and 2 was carried out with the aim of understanding the selected area, the gaps in the approach and proposal. Detailed discussions were carried out with various key Government officials, Government departments, and focus groups to give them a picture of what can be done, and all the activities we need to carry out in order to revise and revamp the proposal. For Round 3, we again went back to citizens for recording their choice between Retrofitting, Redevelopment and Greenfield Options. A fresh set of options for ABD and Pan city was also prepared to consult with citizens and record their choice. Both ABD and Pan City solutions were finalised based on public polling and extensive citizen engagement.

❖ **Citizen Engagement:**

MCK has conducted an extensive Citizen Consultation Campaign called 'Jansampark Abhiyan' across Round 2 and Round 3. The campaign created immense buzz using radio, display panels at eminent city locations and spreading messages and collection ideas through a mobile van equipped with LED TV. Vision and logo competitions were organized to create ownership within student groups, youth and citizens. In various rounds, 40 Smart City Student Ambassadors and local NGOs were brought on board to ensure that the Citizens' Survey is equally represented across socio-economic and geographical parameters. Keeping inclusivity at the core of the campaign, Industry associations, Doctors associations, NGOs, OEM/SI, RWAs, street vendors, slum dwellers, labors, taxi drivers and slum populations were reached out. Apart from offline engagement, Kiosks with high-speed Wi-Fi were also set up to facilitate online engagement of citizens. The campaign in all rounds registered a total of 4.30 lakh outreach and 2.38 lakh participation including 73,153 responses through www.mygov.in in various rounds of consultation. MCK provides free Wi-Fi in 20 parks and major commercial areas. This was promoted and utilised extensively to gather feedback and suggestions from citizens for smart city proposals.

❖ **Formulating approach for ABD selection:**

The approach for selecting the ABD was both analytical (using primary & secondary research tools), & participatory (assembling a cross-section of opinions from the widest possible pool of people). Five rigorous steps of citizen engagement strategy involved - Inform, Consult, Engage, Collaborate and Feedback. City SWOT analysis was the stepping stone with which

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heap of primary and secondary sectoral data was juxtaposed. Based on larger vision and strategic blueprint, citizen opinion was used to arrive at choice of retrofitting, redevelopment and Greenfield options. When the larger citizen viewpoint and requirements of city hinted towards retrofitting cum redevelopment option, several options for ABD area were shared for wider consultation. A comparative matrix of merits of each ABD area was developed and subjected to polling. Potential areas were debated around possibility for endorsement from stakeholders, ability to serve as lighthouse for other areas & monetary and technical support for converging existing programs & projects. Triangulating information from all these polls, discussions and indicators presented only one feasible option of Retrofitting- Redevelopment of Karnal's central business area (CBA) comprising of area around Ghanta Ghar Chowk, Kunjpura & Mughal Canal market.

❖ **ABD Proposal:**

Karnal's Central Business Area (CBA) rejuvenation is a self-funded Retrofitting - Redevelopment project. It envisions to develop 720 acres of land around Ghanta Ghar Chowk, Kunjpura & Mughal Canal Market with state of art smart amenities & transform it to a light house for the city. The CBA rejuvenation will directly impact 34,532 residents (9.6% of city population) & a daily footfall of >1,00,000 persons. The ABD area being centrally located has a strong connection with citizens of Karnal & is seen as commercial & cultural hub. It contains key commercial/ retail businesses, buzzing Interstate Bus Stand, Karan Tal, Parks, Ramleela Ground, Hotels, Hospitals, Schools and residential layouts. The CBA rejuvenation will facilitate intelligent regeneration of inner city, markets, public spaces & bus stand to create mixed use & sustainable neighbourhood. It will render CBA more accessible, decongested & walkable by leveraging upcoming public transport facility and existing non-motorized commuting forms.

❖ **Key Components of ABD proposal**

THEME 1 - Strengthening Research / Business identity and creating new avenues by attracting service sectors like BPOs, Call centers and Agritech Start-ups.

Advancing Business and Research

- Project PAHAL - Agritech Exchange Pavilion, Commercial spaces for Start-ups and new Businesses.
- Project PRAGATI - Development of commercial space for new BPOs & Service sectors, shifting of Old MCK office from crowded city centre for commercial use & parking spaces

Collaboration and Exhibition spaces

- Project MELA - Development of Exhibition space and promotion

THEME 2 - Upgrading Infrastructure for a Futuristic town

Neighbourhood Regeneration through Futuristic infrastructure

- Project SAKSHAM - Creating vending zones, Weekend Markets & Urban Haat
- Project KAUSHAL - Vocational & Skill development Center
- Project AASHIANA - Re-settling 264 slum families from Model town to Sector 14 (already under progress)
- Project UPHAAR - A series of projects on revitalization of Open & Green spaces will be taken up. The stretch along Mughal canal market will be developed to create Central

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Park & Plaza, landscaping of Ram Leela Maidan. Throughout the Cultural corridor the public space will be activated through lighter, quicker & inexpensive projects such as public art installations, attractive street furniture, signage. All parks will be fitted with free Wi-Fi & open air Gymnasiums.

- Project UTTHAN – Develop resilient infrastructure – Reliable Water supply with reduced NRW, Leak Detection System & smart meters; Underground drainage system; dual pipeline for re-use of waste water; Solar power plants, Roof top solar panels & Solar lights; UG cabling &smart metering; RF Sensor based community bins; Street sweeping machines; GPS enabled e-vehicles for D-D waste collection

Transit Friendly and Safe city

- Project PRAVAAH – Encourage non-motorized transport through upgrading 17 kms of Pedestrian walkways; 15 kms of dedicated Cycle tracks; 20 additional Cycle docking stations.
- Developing Pedestrian zone on Railway road with street scaping and beautification.
- Parking - provision of smart parking at redevelopment sites, declaring Kunjpura Road as no parking zone; MLCP in four locations; Smart parking with sensors; Parking App
- Public transport - New city bus terminus with 6 buses in first phase, 110 smart bus stops, intelligent traffic signals, Junction re-design to declutter & easy transportation

❖ **Pan City Proposal:**

Karnal's state of art Intelligent Operations centre KA-NI-SH-KA (Karnal Nigrani Kshetriya Karyalaya) is at core of its pan-city proposal. It has a three pronged vision of integrated operations across sectors, improved safety and surveillance and time bound grievance redressal. This 24X7 centre will be an integral partnership between MCK, Haryana Police and Government of Haryana. It will deliver following -

- Evidence based decision making and responsive operational control for real-time incident management
- Inter-agency and inter-sectoral collaboration on traffic, safety and time bound redressal of civic issues
- Service delivery improvements through integrated response and time bound action

The centre will provide a digital platform for integrating multiple sub systems of Safety, Traffic management, Policing and a range of Municipal services. The centre will be one stop District level centre for monitoring and action on surveillance, safety and emergency response. KANISHKA will result in safe city, seamless mobility and responsive city operations and management along with optimization of capital and operational expenditure by providing real time Geo referenced data support. The Pan City Proposal introduces the concept of ICT based governance through three smart sub components which comprise of several solutions. The key components are as follows:

A. KANISHKA - Integrated Command and Control Centre

- Operations Building and Work stations – will be a network hub for all ICT initiatives.
- State of art integrated call centre at the new operations building. Commissioning of hardware and software for operations
- Laying of multipurpose OFC communication network for ICT functions in safety, surveillance, grievance redressal, waste management and future pan-city applications
- ICT related modules with interrelated processes
- Training and orientation for command centre staff and citizens

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- City level application and smart dashboard
- Data Analytics and MIS applications

B. Safety, security & traffic management

- Intelligent Poles
- Smart bus stops
- Smart Parking systems
- Real time tracking and monitoring of city bus through GPS with panic button
- Automated signalling system and e-Challan system at major junctions
- Integrated rescue services (medical assistance, police crane, vehicles, road safety)
- Crowd sourcing citizen safety data through upgraded SafetiPin App. Real time monitoring of safety score will help channelize improvements.

C. Integrated time bound redressal of all civic problems

- Interactive kiosks for online services
- Integrated call centre for all complaints
- Unified App for reporting civic issues (integrated) with geo location
- Action team for time bound and quick redressal of citizen complaints
- Emergency road repair services for time bound action (coordination of Municipal Corporation of Karnal (MCK), Haryana Urban Development Authority (HUDA), Public Works Department (PWD))

❖ **Costing of Smart City Proposal:**
An all-inclusive lifecycle cost (including capital expenditure and operating expenditure) for both the ABD Projects & Pan-City Projects has been done. The total Capital Cost of the project comes to be Rs.1295.81 Cr, the lifecycle cost amounts to be Rs.1632.78 crores out of which Rs. 1000 crores has been funded directly under SCP, Rs. 80.22 crores has been projected under Various level Convergence while Rs 132.85 are projected under PPP. The lifecycle cost will cover the total expenditure which will be required to be made for every project component and the operating expenditure for operating and maintaining the project for next 10 years. However the operating expenditure includes only those components which will be directly operated and maintained by the SPV. The projects covered under convergence will be operated and maintained by the SPV. In case of PPP the entire responsibility lies with the private partner in terms of maintaining the project and recovering their own costs.

Area Based Development (Rs 1282 Cr): The ABD projects will cover a wide range of projects that will enable a holistic development of the chosen area in the centre of city. The theme decides for area based development encompasses the components by way of five pillars of sustainable development viz. Revival of city's identity, Connectivity Accessibility & Walkability, Inclusive Planning & High quality of life for all, Socio-Economic Up-liftment and Smart Sustainable Development. The list of projects which will be under taken under ABD is as follows:

Strategy	Project Name	Project Activities	Cost (in Cr)
ABD	MELA	Conversion of Ramleela Ground into recreational space	9.98
		City Interpretation Centre/Museum	22.33
	PAMAL	Karnal Agritech Pavilion	101.16

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		Karnal Agritech Innovation and Incubation Centre	56.30
	PRAGATI	Commercial Space & Multiplex on land of MCK near Ghantaghar Chowk	74.31
		Commercial space, BPO & Service Industry on Abandoned Land of Mughal Canal	275.32
		Development of Central Business District (CBD)	82.68
		Digital Literacy Centre	7.47
	PRAVAAH	City Bus Service	1.58
		Intersections re-design	2.10
		City Bus Terminus in CBD Area	56.30
		Construction of pedestrian walkways including Tactile Walkways	7.34
		Earmarked Cycle Track	10.62
		Docking Stations for SAANJHI Cycles (PBS)	2.65
		Walking Street in the newly developing Cultural Corridor	0.78
		Implementation of Smart Parking	47.31
ABD	SAKSHAM	Developing Vending Zones	0.59
		Smart Vending Carts	5.25
		Street Furniture & Kiosks for Night Market	2.60
	UPHAAR	Development of Recreational Zone in the proposed CBD	7.29
		Creation of Green Spaces at Mughal Canal Market	2.63
		Development of Oxy Parks	0.27
		Development of Plaza	25.57
		Light & Sound Show at Karan Park	1.68
		Musical Fountain at Karan Tal	2.38
		Streetscape of Old GT Road	0.50
		Wellness trail by installing Open Gym & Meditation Areas in Parks	17.00
		Convention Hall	7.88
		Development of Offices (GRIHA Certified)	28.15
		Provide Free Wi-Fi services in Parks to promote Digital Economy	1.89
	UTTHAN	Rain Water Harvesting	1.54
		Renewable Energy	38.45
		Smart Sewerage Management	49.28
		Smart Utilities (eg UD Cabling, Smart Metering etc)	32.13
		Smart Water Supply System	36.95
		Solid Waste Management	8.03
		Specially abled toilets in public places	0.21
		Storm Water Drainage System	8.35
	ASHIANA	Housing for Urban Poor	15.65
	KAUSHAL	Skill Development Centre in CBD	4.13
		Improvement of Education System by latest IOT for Schools	4.41
ABD Total Capex			**1061.05**
ABD Total Opex			**221.10**
Grand Total			**1282.15**

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Pan City Proposal (Rs.266 Cr): The major item which will bring about significant change in the city's day to day functioning is the establishment of Central Command Center which will have domains of all the department of the city and hence will help in easier coordination among departments of the city and will reduce the service time of the citizen. Moreover, the proposal focuses on the standard of the infrastructure of the city. In terms of transport which is a major focus in the proposal, ensures a good, reliable and efficient Public Transport Facilities like Smart Buses with CCTV Surveillance & Panic Button, Smart Bus Stops & a user friendly app to inform the passengers about the Bus Services. The majority of the Pan City will be executed by the SPV.

Strategy	Project Name	Project Activity	Cost (in Cr)
Pan City	AROGYA	Upgrading Public Healthcare Database System in the City	0.17
	KANISHKA	Emergency Response Team deployment	3.15
		Add on modules for Safetipin App for Women	0.16
		Command & Control Centre (CCC) (24x7)	24.50
		Interactive kiosks for online services (Ward Level)	0.84
		Laying of city wide optical fibre	1.89
		Intelligent Poles	11.34
		Team training (ERT Team)	1.07
		Training (Command & Control Centre Staff+ Citizen+ IEC Activities)	1.25
		Unified App for reporting Civic Issues	0.21
	PRAVAAH-II	City Surveillance	5.51
		Emergency road repair Vehicles & Team	5.25
		SAANJHI cycle (PBS) module Integration	0.05
		Smart Bus stops	22.28
		Smart Parking systems	6.98
		Smart Traffic Violation Detection System	65.32
Pan City Capex			**149.99**
Pan City Opex			**115.97**
Grand Total			**265.96**

❖ **Resources:**

To finance the costing of the SCP several sources of funding has been identified. This will ensure that the risk involved with each source is diversified and that the funds are readily available to execute the projects as per the set timeline. Major portion of Capex will be allocated through smart city grants from Central & State Governments. A substantial amount of funds will be channelized through convergence. The following is the breakup of the fund resources:

Resources	Amount (INR Cr)	% Share
Smart City Fund- Central Share	**500**	**39%**
Smart City Fund- State & ULB Share	**500**	**39%**
Central Convergence	**37.16**	**3%**
AMRUT	13.13	
Integrated Power Distribution Scheme	23.19	
Swacch Bharat Mission	0.84	
State Convergence	**30.35**	**2%**

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HUDA	15.65	
CM Announcement	1.58	
HIPA (Haryana Institute of Public Administration)	5.25	
Panchayati Raj Dept	7.88	
MCK Convergence	**10.61**	**1%**
MCK	10.61	
District Convergence	**2.10**	**0.13%**
District Plan Scheme	2.10	
PPP	**132.85**	**10%**
Additional Contribution by MCK	**82.74**	**7%**
Total Capex	**1295.81**	**100%**

To capture the O&M major contribution will be made through the Commercial Space Rentals. The rental spaces will be constituted by Grade-A & Grade-B Commercial Spaces. Grade-A are premium spaces and it will be majorly rented to the BPO companies. Their rentals are 15% - 20% higher than the Grade-B Properties. The other source of income for SPV will be the rentals from the regulated car parking sites.

The total rental receipts leveraged from the Car Parking will be INR 45.85 Cr and the total rental receipts leveraged from the properties will be INR 293.01 Cr in 9 years due time. For revenue calculations, the assumptions considered are based on the research of past and present trends in the supply and demand side of real-estate market at Karnal.

The assumptions considered were:
Absorption in base year to be 0% as it's the initiation of project, which will continue at an absorption rate of 15% increment annually. The assumptions for rent increments is considered at 3-5% annually. The annual rentals are considered as per the circle rates of the area fixed by the government

As per the balance sheet, MCK has INR 134 Cr as surplus over the period of 2011-2016. It's the result of various efficient drives conducted by MCK to collect Property Tax, other fees and charges. Thus as a fall back plan MCK will ring-fence INR 100 Cr from its surplus and will dedicate it for the Smart City contingency fund, which would be utilised for managing the projects if there is a delay in grants or any other contingency like escalation in costs etc.

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2 Government Resolutions and Formation of SPV

2.1 Smart City Resolution Passed by General Body of Municipal Corporation Karnal

नकल विशेष प्रस्ताव न. 1 दिनांक 15.03.2017

नगर निगम, करनाल

प्रस्ताव	निर्णय
प्रस्ताव न. 1. स्मार्ट सिटी प्रोजैक्ट को सरकार की स्वीकृति हेतू भेजे जाने की स्वीकृति प्रदान किए जाने बारे। रिपोर्ट कार्यालय कि नगर निगम, करनाल को स्मार्ट सिटी चयन प्रतियोगिता चरण–2 (राऊंड–3) में लघु सूचीबद्ध किया जा चुका है जिसके लिए निदेशक, शहरी स्थानीय निकाय विभाग द्वारा क्रिसिल लिमिटेड को सलाहकार के तौर पर नियुक्त किया हुआ है। उक्त फर्म द्वारा प्रोजैक्ट का प्रारूप तैयार कर दिया गया है जिसकी अनुमानित राशी 1295.81 करोड़ रूपये है। यहा यह भी स्पष्ट किया जाता है कि यह प्रोजैक्ट पिछली जमा करवाई गई रिपोर्ट में पाई गई कमियों को दूर करके बनाया गया है। इस प्रारूप को सरकार की स्वीकृति उपरांत शहरी विकास मंत्रालय, भारत सरकार को जमा करवाया जाना है। शहरी विकास मंत्रालय, भारत सरकार द्वारा जारी दिशानिर्देशों के अनुसार प्रारूप को नगर निगम सदन द्वारा अनुमोदन किया जाना है। शहरी विकास मंत्रालय द्वारा स्मार्ट सिटी मिशन के तहत जारी दिशानिर्देशों के अनुसार स्मार्ट सिटी प्रोजैक्ट को कार्यान्वित करने के लिए **S.P.V.** को गठित किए जाने की स्वीकृति एवं अनुमोदन भी सदन द्वारा किया जाना है। यह एक अति महत्वपूर्ण एवं तिथिबद्ध कार्य है और सदन की बैठक की अभी कोई तिथि निर्धारित नही हुई है। इसलिए सभी पार्षदगण से कार्यालय के यादि क्रमांक 460–479/म0नि0क0 दिनांक 16.02.2017 द्वारा पत्र जारी करके अनुरोध किया गया था कि प्रोजैक्ट को अपनी सहमति देने का कष्ट करें ताकि आगामी कार्यवाही की जा सके। उपरोक्त पत्र पर 17 नगर पार्षदों द्वारा एक संयुक्त सहमति पत्र दिया गया है कि वह सभी इस प्रोजैक्ट तथा इस पर होने वाले खर्च से सहमत हैं तथा इसका अनुमोदन करते हैं। प्रोजैक्ट के प्रारूप को भारत सरकार द्वारा जारी दिशानिर्देशों अनुसार सरकार की स्वीकृति प्राप्त करने हेतू भेजे जाने पर अपनी स्वीकृति प्रदान करते हैं। प्रस्ताव स्वीकृति हेतू प्रस्तुत है।	जैसाकि 17 नगर पार्षदों द्वारा प्रस्ताव पर सहमति दी गई है। अतः प्रस्ताव स्वीकार किया जाता है।

Secretary
Municipal Corporation
KARNAL

2.2 Minutes of Meeting of State Level High Powered Steering Committee regarding Smart City Karnal Round 3 Proposal

DIRECTORATE OF URBAN
LOCAL BODIES
HARYANA

शहरी स्थानीय
निकाय निदेशालय
हरियाणा

बे सं. 11-14, सैक्टर-4, पंचकूला, हरियाणा
Bay No. 11-14, Sector 4, Panchkula, Haryana
Tel.: +91 172 2570020; Fax: +911722570021
website: www.ulbharyana.gov.in; email: dulbhry@hry.nic.in

From

The Chief Administrator, HUDB-cum-Director, Urban Local Bodies Department
(State Mission Director for Smart Cities Mission)
Bay no. 11-14, Sector-4, Panchkula.

To

1. The Additional Chief Secretary to Government Haryana, Finance and Planning Departments, Haryana.
2. The Additional Chief Secretary to Government Haryana, Public Health Engineering Department, Haryana.
3. The Additional Chief Secretary to Government Haryana, PWD (B&R) Department, Haryana.
4. The Principal Secretary to Government Haryana, Industries & Commerce Department and Information Technology Department, Haryana.
5. The Principal Secretary to Government Haryana, Town & Country Planning Department, Haryana.
6. The Joint Secretary (UD & A), Ministry of Urban Development (GOI), Nirman Bhawan, New Delhi.
7. The CEO of SPV Faridabad-cum-Commissioner, Municipal Corporation, Faridabad
8. The Commissioner, Municipal Corporation, Karnal.
9. The Mayor, Municipal Corporation, Karnal.

Memo no. DULB/CTP/ATP-1/2017/1797-1805 **dated: 24.03.2017**

Subject: Proceeding of the meeting of SLHPSC held under the chairmanship of Chief Secretary to Government Haryana on 22.3.2017 at 11:00AM in CS's Committee Room at 4th Floor, Main Secretariat, Chandigarh for Smart City Karnal.

Please refer to the matter cited as subject above.

2. Please find enclosed herewith a copy of proceeding of the meeting of State Level High Powered Steering Committee (SLHPSC) held under the chairmanship of Chief Secretary to Government Haryana on 22.3.2017 at 11:00AM in CS's Committee Room at 4th Floor, Main Secretariat, Chandigarh to finalize the Smart City Proposal (SCPs) of Karnal, for information and necessary action.

-Sd-
Assistant Town Planner,
for O/o Director, Urban Local Bodies Department,
Haryana, Panchkula.

DA: As above.

Endst. No. DULB/CTP/Asst-1/2017/1806-1808 **dated: 24.03.2017**

A copy of above along with copy of proceeding is forwarded to the following for information and necessary action:

1. PS/CS for kind information of the Chief Secretary to Govt. Haryana
2. PS/PSULB for kind information of the Principal Secretary to Govt. Haryana, Urban Local Bodies Department.
3. PA/ DULB for kind information of the Director, Urban Local Bodies Department.

DA: As above.

-Sd-
Assistant Town Planner,
for O/o Director, Urban Local Bodies Department,
Haryana, Panchkula.

Proceedings of the meeting of State Level High Powered Steering Committee (SLHPSC) for Smart City -Karnal held under the Chairmanship of Chief Secretary to Govt. Haryana, on 17.06.2016 at 10:00 A.M. in the Main Committee Room, 4th Floor, Haryana Civil Secretariat, Chandigarh.

The list of officers who attended the meeting is at Annexure 'A'.

Agenda Item No. 1
Deliberation upon proposals and according in-principle approval:-

The Commissioner, Municipal Corporation, Karnal made a presentation on the revised smart city proposals before the Committee and brought to the notice of members that revision of earlier submitted proposal was carried out, keeping in view the feedback of experts, technical evaluation panel of MoUD, citizen and different interest groups in the city.

The Committee after detailed deliberations, accorded in-principle approval for the Area Based Development (ABD) and PAN city solutions proposed and desired that the solutions proposed need to be implemented by the proposed Special Purpose Vehicle (SPV), in coordination with the respective Departments.

Further, the Committee deliberated upon the proposed financial model to implement smart city proposals comprising of grants, self-mobilization by the Corporation, convergence and PPP components and granted in-principle approval of the same. An outlay of Rs. 2004.90 Cr. is proposed to be incurred to realize the smart city proposals, both at ABD and Pan City levels. No budgetary support is required for the present, as the proposal aims to be self-sustainable. However, on establishment of SPV and starting of operations, the SPV may approach the Government for suitable budgetary support, if required, in addition to the assistance to be received from MoUD, GoI for implementation of the Smart City Project, as stipulated in the guidelines.

Agenda Item No. 2
Formulation of SPV:-

The Committee deliberated on the suggested structure of SPV and delegation of powers. It was decided that the SPV will be established as a public limited company under the Companies Act, 2013 and will be promoted by the State and ULB jointly, with 50:50 shareholding. Details of the structure and devolution of power to SPV will be, however, decided separately

Agenda Item No. 3
Signing of Inter-Departmental Memorandum of Understanding to support the Karnal Smart City – Stage 2 proposal initiatives:-

The Committee noted that the pre-requisite condition in MoUD Guidelines is signing of MoU with different stakeholder Departments in the State. It was decided that stake holder Departments will sign the MoU, as per the draft circulated, for extending full co-operation to the Municipal Corporation Karnal in successful implementation of the Smart City Proposals.

Agenda Item No. 4
Issuance of Departmental circulars/notifications/guidelines/orders to support the Karnal Smart City – Stage 2 proposal initiatives:-

After detailed deliberations, it was decided that all the concerned Departments would issue requisite circulars/notifications/guidelines/orders to ensure successful implementation of the Smart City proposals, both at ABD and PAN city levels and achieve the target indicators.

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MUNICIPAL CORPORATION
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Annexure - A

The following attended the meeting

1. Sh. Rajan Gupta, Additional Chief Secretary to Government Haryana, Power Department
2. Sh. S S Dhillon, Additional Chief Secretary to Government Haryana, Transport Department
3. Sh. Hardeep Kumar, Additional Chief Secretary to Government Haryana, PWD (B&R) Department, Haryana
4. Sh. Ram Niwas, Additional Chief Secretary to Government Haryana, Home (Special Invitee)
5. P. Raghavendra Rao, Additional Chief Secretary to Government Haryana, Town & Country Planning Department, Haryana and link officer for Principal Secretary to Government Haryana, Urban Local Bodies Department
6. Smt. Rajni Sekhari Sibal, Additional Chief Secretary to Government Haryana, Agriculture Department (Special Invitee).
7. Sh. Alok Nigam, Additional Chief Secretary to Government Haryana, Public Health Engineering Department, Haryana.
8. Sh. P K Das, Additional Chief Secretary to Government Haryana, School Education Department (Special Invitee)
9. Sh. Sudhir Rajpal, MD, HSIIDC, Industries & Commerce & Electronics & IT Department
10. Smt. Ashima Brar, Director, Renewable Energy Department (Special Invitee).
11. Smt. Ranju Parsad, IPoS, SF, Finance Department, Haryana.
12. Sh. Sameer Pal Srow, Director, Urban Local Bodies, Haryana.
13. Smt. Sumedha Kataria, Commissioner, Municipal Corporation, Karnal.
14. Dr. Kamla Singh, Director General, Health Department (Special Invitee).
15. Dr. Vikas Yadav, Director, Higher Education Department (Special Invitee).
16. Sh. Ashok Kheter Pal, Engineer-in-Chief, PHED.
17. Sh. A.K Gupta, Engineer-in-Chief, Irrigation Department (Special Invitee).
18. Smt. Geeta Prakash, CTP, Urban Local Bodies Department.
19. Sh. Arvind Mehtani, CTP, HSIIDC.
20. Smt. Renu Bala Gupta, Mayor, Municipal Corporation, Karnal.
21. Sh. Amit, the Consultant, KPMG

COMMISSIONER
MUNICIPAL CORPORATION
KARNAL

2.3 Minutes of Meeting of District Task Force meeting for Smart City Karnal Round 3 Proposal under Deputy Commissioner

MINUTES OF MEETING

Subject: **District Level Task Force Committee Meeting for Smart City Proposal Stage-II (Round-3) for Karnal held under Chairmanship of Ld. Deputy Commissioner, Karnal on 17.03.17 at 4:30 PM at Vikas Sadan ,Panchayat Bhawan Karnal.**

(Attendance Sheet: Attached)

1. At the very outset of the meeting, the worthy Chairperson –cum- Deputy Commissioner, Karnal welcomed all the members.

2. Commissioner Municipal Corporation Karnal S.E. MCK and CRISIL team briefed the prospective and features of the Smart City Project to the members of District Level Task Force Committee. The Smart City Project will consist of two main components which are Area Based Development and PAN City Solutions, further explained detailed components/ key features of Smart City Mission as per Guidelines of Smart City Mission circulated by MoUD.

3. Representatives of M/s CRISIL, the consultant agency appointed for preparation of Smart City Proposal (Round-3) submitted the draft Smart City Proposal.

4. CRISIL Team demonstrated the area selected for ABD involving 720 acres of prime land around Ghanta Ghar Chowk, Kunjpura Road and Mughal Canal market, which will directly impact to the population of 34532 residents (9.6% population of the city). The team also presented key projects / plans for Area Based Development suiting the city profile on the basis of extensive consultations with Elected Members, citizens, sector experts and Government Departments.

5. The members were also briefed about PAN City solutions proposed for Karnal through Power Point Presentation.

6. Representatives of M/s CRISIL informed that financial implications involved in the SCP proposed for Karnal is coming to Rs. 1215 Crores (approx.), however, the figure will vary based on the suggestions provided in the meeting today.

Page 1 of 2

7. Commissioner, Municipal Corporation Karnal informed that the project has been approved / accepted by the House of Municipal Corporation Karnal through the means of a resolution by circulation.

8. During the presentation, following key components / highlights of the Smart City proposal were discussed:

    a. City Profile
    b. Vision Statement
    c. Strategic Focus
    d. Goals
    e. Projects proposed for ABD area and PAN City Solutions
    f. Redevelopment projects
    g. Smart features to be incorporated in ABD projects
    h. Financial Plan

9. All the members present in meeting appreciated the work done and approved the proposal unanimously.

10. The District Level Task Force decided that now the final smart city plan may kindly be put to Ld. Chief Secretary, to Govt. of Haryana, being the chairman of State Level High Powered Steering Committee for approval.

11. The meeting ended with vote of thanks.

17/3/17

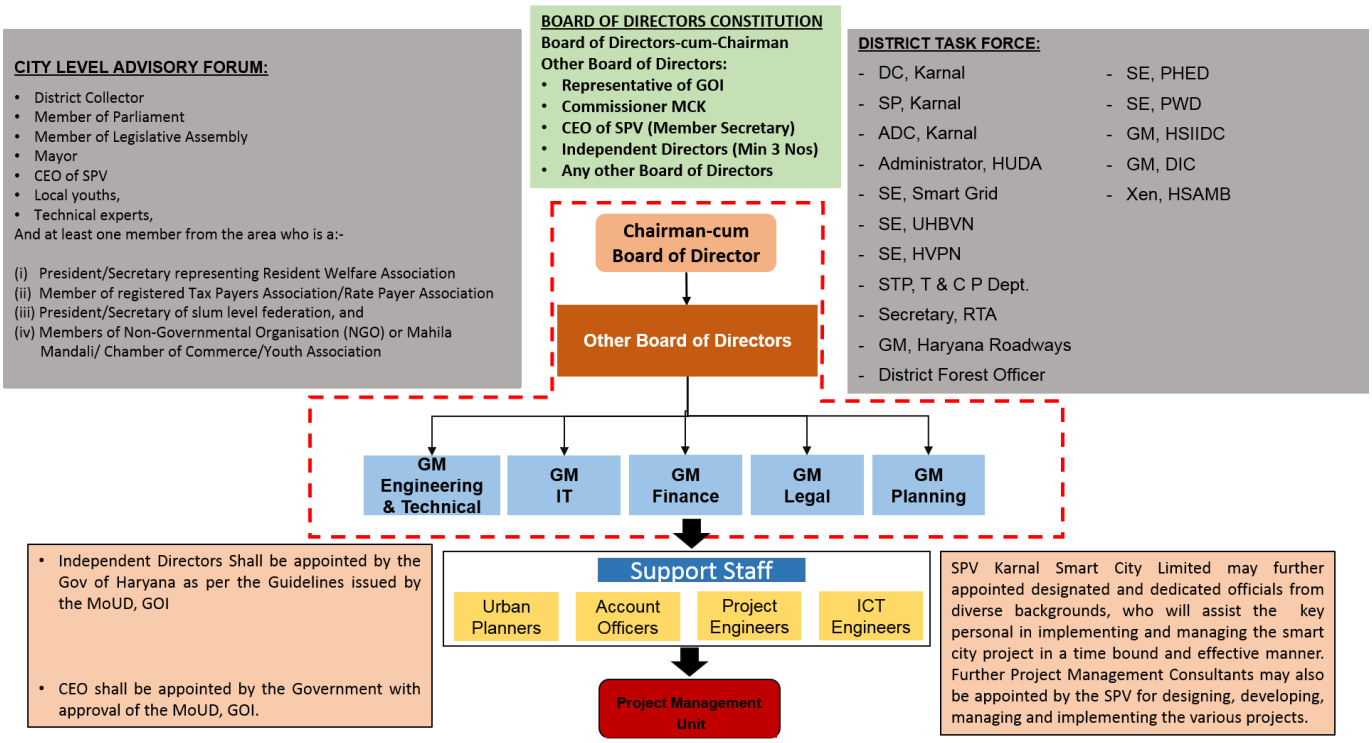
Superintending Engineer, MC Karnal

17/3/17

Commissioner, MC Karnal

Ld. Deputy Commissioner
Karnal

2.4 SPV Organogram



2.5 Approval for the formation of Smart City SPV

Proceedings of the 4th meeting of State Level High Powered Steering Committee (SLHPSC) for smart cities held under the Chairmanship of Chief Secretary, Haryana on 09.12.2015 at 11:00 AM in the main Committee room, Haryana Civil Secretariat, Chandigarh.

Agenda Item No. 1

Confirmation of the proceedings of the third meeting of the State Level High Powered Steering Committee held on 27.11.2015

Proceedings were confirmed.

Agenda Item No. 2.

Action taken report on the decision taken in the third meeting of the SLHPSC and review of the progress of the action taken for preparation of smart city proposals.

The Municipal Corporations Karnal and Faridabad explained that they have incorporated requisite changes, amendments as per the decision taken in the 3rd meeting of the SLHPSC on 27.11.2015 and prepared the smart cities proposals in consultation with the consultant firm in accordance with the guidelines of the MoUD on Smart Cities Proposals. The Deputy Commissioner Faridabad and Commissioner MC Karnal explained their plan for the smart city including financial model.

Agenda Item No. 3.

Approval of Smart Cities Proposals

The State Level High Powered Steering Committee approved the Smart City Proposals of both Faridabad and Karnal cities. Draft smart city proposals for both Karnal and Faridabad are annexed at F/A and F/B respectively.

Agenda Item No. 4.

Budgetary allocations

The SLHPSC deliberated upon the financial model of both Faridabad and Karnal cities as under:

City	Total Cost of Smart City Proposal (in Cr.)	Convergence Component (in Cr.)	PPP Component (in Cr.)	**Gap Funding required (in Cr.)**
Faridabad	1486.74	284.53	-	**202.21**
Karnal	1469.80	82.00	160.00	**227.80**

It was mentioned that the gap funding amounting to Rs. 202.21 cr. and Rs.227.80 cr. for Faridabad and Karnal respectively will be required from different Departments namely Public Health, Power, Tourism, HUDA etc. over a period of five years.

The SLHPSC in principle agreed to provide the gap funding as Budgetary Support through the concerned Departments to both the cities for the implementation of the Smart City projects.

Agenda Item No. 5

Formation of SPV:

Regarding formation of SPV for the smart cities, the SLHPSC deliberated on both the structure and delegation of powers to the SPV. It was decided that the SPV will be established as a Limited Company under the Companies Act 2013 and will be promoted by State and ULB jointly having 50:50 share holding.

In case of Faridabad the Chairperson of the SPV will be the Commissioner Municipal Corporation, Faridabad and incase of Karnal the Deputy Commissioner, Karnal will be the Chairperson. It was further decided that the CEO of the SPV will be a Full Time officer holding Independent Charge. The CEO will be appointed for a fixed term of three years after approval of MoUD as stipulated in para 16.1 of the Smart City Guidelines on the recommendation of a Three-member committee Under the Chairmanship of Chief Secretary, Haryana, Principal Secretary ULB, & Mission Director for Smart Cities cum Director, ULB will be the members.

The Board of directors will have representatives of Central Government, State Government, ULB and independent Directors to be selected as per item 3 of Annexure 5 of Smart City Guidelines.

The SLHPSC also deliberated on the powers of the SPV and after due consideration approved in principle delegation of powers to the SPV as per item 4 of Annexure 5 of Smart City Guidelines.

Agenda Item No. 6.

Essential component of 10% renewable energy to come from the Solar energy, the policy regarding transfer/ purchase of the energy (1KW onwards) by the Grid

As mentioned in the essential features of Smart City Guidelines in para 6.2, at least 10% of the smart city energy requirement should come from renewable sources of energy like solar etc. In this regard Haryana Renewable Energy Department (HAREDA) has requisite regulatory mechanism including power purchase policy in place as per Haryana Solar

2.6 Handholding Support from ICLEI, South Asia

New Delhi, 30th March 2017

To,
Commissioner,
Karnal Municipal Corporation,
Karnal,
Haryana

Subject: Letter of support for Karnal of Smart city under purview of European Union funded PROMISE project

Dear Sir,
ICLEI - Local Governments for Sustainability is the leading global network of more than 1,500 cities, towns and regions committed to building a sustainable future. By helping our Members to make their cities sustainable, low-carbon, resilient, biodiverse, resource-efficient, healthy and happy, with a green economy and smart infrastructure, we impact over 20% of the global population.

ICLEI South Asia, the South Asian arm of ICLEI - Local Governments for Sustainability, is registered as Indian NGO. Over 10 years, ICLEI South Asia has emerged as a strong and vibrant local government association with a membership base of over 60 Member cities. In its result based approach, ICLEI works with local governments through international performance-based, results-oriented programs and help cities strengthen their technical capacity s to deliver basic services in the most sustainable manner.

As part of European Commission funded project, ICLEI South Asia will assist Karnal Municipal Corporation to develop their capacity to plan, manage and evaluate projects to better leverage the opportunities available under national programs such as Smart City Mission through well-defined criteria for project evaluation and implementation as per an existing MoU with the Karnal Municipal Corporation. The duration of support under project extends till April 2019.

KMC has invited specific technical support to improve mobility and access in wards 12-13 which are proposed to be retrofitted under Area Based Development component of Smart City Proposal. ICLEI South Asia has deputed a city associate for continued technical support and will provide additional inputs as and when required under the purview of PROMISE project.

Kind regards,

Emani Kumar
Executive Director,
ICLEI - Local Governments for Sustainability South Asia

ICLEI
Local Governments for Sustainability

ICLEI's mission is to build and serve a worldwide movement of local governments to achieve tangible improvements in global sustainability with special focus on environmental conditions through cumulative local actions

ICLEI- South Asia
Ground Floor
NSIC – STP Complex
NSIC Bhawan
Okhla Industrial Area
New Delhi – 110020, India

Phone: +91-11- 4106 7220
Fax: +91-11- 4106 7221
E-mail : iclei-southasia@iclei.org

World Secretariat
Kaiser-Friedrich-Str. 7
53113 Bonn
Germany

Tel: +49-228 / 97 62 99-00
Fax: +49-228 / 97 62 99-01

Email: iclei@iclei.org

Legally represented by

ICLEI (Management) Inc.

World Wide Web
www.iclei.org

southasia.iclei.org

ICLEI was founded in the year 1990 as the International Council for Local Environmental Initiatives.

3 MoU with Government Departments for ABD and Pan City Proposals

3.1 MoU with PHED – Water

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter referred to as the **"MOU"**) is entered into at Karnal on this 14thday of March, 2017

BY AND BETWEEN

Municipal Corporation Karnal constituted under the Haryana Municipal Corporations Act, 1994, having its principal office at Shakti Colony, Karnal, Haryana - 132001 (hereinafter referred to as **"MCK"** which expression shall unless excluded by or repugnant to the context, be deemed to include its administrators, successors and assigns) of **One Part**

AND

Public Health Engineering Department (hereinafter referred to as **"PHED"** which expression shall, unless it be repugnant to the context or meaning thereof, include its successors) of **Second Part**

*(Hereinafter the parties of the First Part and Second Part are collectively referred to as "**Parties**" and individually as "**Party**", as the context demands.)*

WHEREAS:

A. Ministry of Urban Development, Government of India has launched Smart City Mission in 2015 with an objective is to promote cities that provide core infrastructure and give a decent quality of life to its citizens, a clean and sustainable environment and application of 'Smart' Solutions. The focus is on sustainable and inclusive development and the idea is to look at compact areas, create a replicable model which will act like a light house to other aspiring cities. The initiative intends to develop 100 cities and towns in the country as smart cities.

Municipal Corporation Karnal

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Public Health Engineering Department - Water

Executive Engineer,
Public Health Engg. Divn.,
KARNAL

10. Cooperation

MCK and PHED acknowledge that they have entered into this MOU in good faith and will cooperate in good faith to achieve the objectives set herein.

11. Liability

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

12. Governing Law

This MOU will be governed and construed in accordance with the laws in force in India. The Parties hereby expressly consent to the jurisdiction of Courts in Karnal for any lawsuit filed, arising from or related to this MOU.

In witnesses whereof the Parties hereto have signed this MOU in the presence of witnesses on the day, month and year first above written.

For and on behalf of
Municipal Corporation Karnal

COMMISSIONER
MUNICIPAL CORPORATION
KARNAL

(Authorized Signatory)
Name:
Designation: Municipal Commissioner

For and on behalf of
Public Health Engineering Department

(Authorized Signatory)
Name: (S.P. Joshi)
Designation: Executive Engineer, Public Health Engg. KARNAL 14/03/2017

Witness:

1. S.P. Chowdhry
S.D.E.
P.H.E.D KARNAL

2. 14/3/17
D.R. BHASKAR
Superintending Engineer

3.2 MoU with PHED – Sewerage

PHED Haryana

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter referred to as the **"MOU"**) is entered into at Karnal on this 15th day of March, 2017

BY AND BETWEEN

Municipal Corporation Karnal constituted under the Haryana Municipal Corporations Act, 1994, having its principal office at Shakti Colony, Karnal, Haryana - 132001 (hereinafter referred to as **"MCK"** which expression shall unless excluded by or repugnant to the context, be deemed to include its administrators, successors and assigns) of **One Part**

AND

Public Health Engineering Department (Sewerage) (hereinafter referred to as **"PHED"** which expression shall, unless it be repugnant to the context or meaning thereof, include its successors) of **Second Part**

*(Hereinafter the parties of the First Part and Second Part are collectively referred to as "**Parties**" and individually as "**Party**", as the context demands.)*

WHEREAS:

A. Ministry of Urban Development, Government of India has launched Smart City Mission in 2015 with an objective is to promote cities that provide core infrastructure and give a decent quality of life to its citizens, a clean and sustainable environment and application of 'Smart' Solutions. The focus is on sustainable and inclusive development and the idea is to look at compact areas, create a replicable model which will act like a light house to other aspiring cities. The initiative intends to develop 100 cities and towns in the country as smart cities.

Municipal Corporation Karnal

COMMISSIONER
MUNICIPAL CORPORATION
KARNAL

Public Health Engineering Department – Sewerage

Executive Engineer
Public Health Engineering
Division No. 2, KARNAL

10. Cooperation

MCK and PHED acknowledge that they have entered into this MOU in good faith and will cooperate in good faith to achieve the objectives set herein.

11. Liability

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

12. Governing Law

This MOU will be governed and construed in accordance with the laws in force in India. The Parties hereby expressly consent to the jurisdiction of Courts in Karnal for any lawsuit filed, arising from or related to this MOU.

In witnesses whereof the Parties hereto have signed this MOU in the presence of witnesses on the day, month and year first above written.

For and on behalf of
Municipal Corporation Karnal

COMMISSIONER
MUNICIPAL CORPORATION
KARNAL

(Authorized Signatory)
Name:
Designation: Municipal Commissioner

For and on behalf of
Public Health Engineering Department

(Authorized Signatory)
Name: (S.P. Joshi)
Designation: Executive Engineer, Public Health Engg. 14/03/2017
KARNAL

Witness:

1. S.P. Chopra
S.D.E.
P.H.E.D KARNAL

2. 14/3/17
D.R. BHASKAR
Superintending Engineer

3.3 MoU with Uttar Haryana Bijli Vitran Nigam

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter referred to as the **"MOU"**) is entered into at Karnal on this 18th day of March, 2017.

BY AND BETWEEN

Municipal Corporation Karnal constituted under the Haryana Municipal Corporations Act, 1994, having its principal office at Shakti Colony, Karnal, Haryana - 132001 (hereinafter referred to as **"MCK"** which expression shall unless excluded by or repugnant to the context, be deemed to include its administrators, successors and assigns) of **One Part**

AND

Uttar Haryana Bijli Vitran Nigam (hereinafter referred to as **"UHBVN"** which expression shall, unless it be repugnant to the context or meaning thereof, include its successors) of **Second Part**

*(Hereinafter the parties of the First Part and Second Part are collectively referred to as "**Parties**" and individually as "**Party**", as the context demands.)*

WHEREAS:

A. Ministry of Urban Development, Government of India has launched Smart City Mission in 2015 with an objective is to promote cities that provide core infrastructure and give a decent quality of life to its citizens, a clean and sustainable environment and application of 'Smart' Solutions. The focus is on sustainable and inclusive development and the idea is to look at compact areas, create a replicable model which will act like a light house to other aspiring cities. The initiative intends to develop 100 cities and towns in the country as smart cities.

Municipal Corporation Karnal

COMMISSIONER
MUNICIPAL CORPORATION
KARNAL

Uttar Haryana Bijli Vitran Nigam

X.E.N City Division
UHBVN,KARNAL

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

10. Cooperation

MCK and UHBVN acknowledge that they have entered into this MOU in good faith and will cooperate in good faith to achieve the objectives set herein.

11. Liability

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

12. Governing Law

This MOU will be governed and construed in accordance with the laws in force in India. The Parties hereby expressly consent to the jurisdiction of Courts in Karnal for any lawsuit filed, arising from or related to this MOU.

In witnesses whereof the Parties hereto have signed this MOU in the presence of witnesses on the day, month and year first above written.

For and on behalf of
Municipal Corporation Karnal

COMMISSIONER
MUNICIPAL CORPORATION
KARNAL

(Authorized Signatory)
Name:
Designation: Municipal Commissioner

For and on behalf of
Uttar Haryana Bijli Vitran Nigam

10/3/2017
Executive Engineer
City Divn, UHBVN, Karnal

(Authorized Signatory)
Name: Er. S.K. Makkal
Designation: Executive Engineer

Witness:

1. (Smt. Neelam J.E. o/o XEN City Div. UHBVN Karnal.)

2. 10/3/17
D.R. BHASKAR
Superintending Engineer

3.4 MoU with Haryana Roadways

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter referred to as the **"MOU"**) is entered into at Karnal on this 15th day of March, 2017.

BY AND BETWEEN

Municipal Corporation Karnal constituted under the Haryana Municipal Corporations Act, 1994, having its principal office at Shakti Colony, Karnal, Haryana - 132001 (hereinafter referred to as **"MCK"** which expression shall unless excluded by or repugnant to the context, be deemed to include its administrators, successors and assigns) of **One Part**

AND

Haryana Roadways (hereinafter referred to as **"Haryana Roadways"** which expression shall, unless it be repugnant to the context or meaning thereof, include its successors) of **Second Part**

*(Hereinafter the parties of the First Part and Second Part are collectively referred to as "**Parties**" and individually as "**Party**", as the context demands.)*

WHEREAS:

A. Ministry of Urban Development, Government of India has launched Smart City Mission in 2015 with an objective is to promote cities that provide core infrastructure and give a decent quality of life to its citizens, a clean and sustainable environment and application of 'Smart' Solutions. The focus is on sustainable and inclusive development and the idea is to look at compact areas, create a replicable model which will act like a light house to other aspiring cities. The initiative intends to develop 100 cities and towns in the country as smart cities.

Municipal Corporation Karnal

COMMISSIONER
MUNICIPAL CORPORATION
KARNAL

Department of State Transport, Haryana

General Manager
Haryana Roadways
KARNAL

B. Karnal is one of the candidate city for Smart City Mission from the state of Haryana and is participating in the challenge round - 3 by submitting its Smart City Proposal. MCK is the nodal agency for Smart City project and it shall be forming a Special Purpose Vehicle (SPV) with State Government for planning, designing, financing, implementation, operation and maintenance of Smart City Projects.

C. The Haryana Roadways controls and regulates road transport, under Department of State Transportation, Haryana and is involved in operating intrastate and interstate bus services.

D. MCK and Haryana Roadways have been discussing the Karnal Smart City Proposal including projects in the area selected for retrofitting under Area Based Development and Pan City Proposal.

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

1. Purpose

The Purpose of this MOU is to define area of collaboration between MCK and Haryana Roadways for planning, designing, financing, implementation, operation and maintenance of proposed Smart City Projects in Karnal under Smart City Mission of Government of India.

2. Area of Collaboration

The area of collaboration between the Parties shall include both Pan-city proposal and Area Based Development and more specifically defined herein below:

PAN CITY PROPOSAL includes but not limited to:

- Implementation of the City bus service with GPS tracking and smart bus-stops equipped with Wi-Fi hotspots, ICT based PIS with real-time information on routes, arrival, delay etc.
- Development of ICT modules in coordination with Central Command Centre, Karnal for tracking and monitoring various components of City bus service including but not limited to automated ticketing, automated vehicle monitoring, passenger information systems, surveillance systems, real time information systems for travellers etc.
- Nomination of City bus service staff for regular training on ICT systems and sharing data with central command centre.
- Design of customer friendly dashboards with indicators on public transport performance and other operational indicators relevant for Transport department and MCK.

AREA BASED DEVELOPMENT includes but not limited to:

- Support for projects related to Bus Stand Redevelopment in Karnal city which includes development of City Bus terminal with commercial spaces and venues for other public uses.

The Parties shall exchange necessary information required for feasibility assessment, formulation of Smart City project etc. The Haryana Roadways shall provide due support (physical, regulatory, administrative, manpower or otherwise) required for Smart City projects subject to availability on mutually acceptable terms. MCK, being the nodal agency for Smart City Mission for Karnal City, shall coordinate with Haryana Roadways for the implementation of Smart City projects and provide requisite operational support during operation of the projects

COMMISSIONER
MUNICIPAL CORPORATION
KARNAL

Department of State Transport, Haryana

General Manager
Haryana Roadways
KARNAL

which may include marketing/promotion, adequate utility/services, transport connectivity etc. The Parties also agree to congregate funds available to it for funding the projects.

The Parties agree that this MOU does not constitute legally-binding commitment in respect of the possible partnership. Definitive agreement shall be subject to further negotiation between the Parties and the due diligence to be conducted by the Parties.

3. Non-exclusivity

The relationship of the Parties under this MOU shall be non-exclusive and both Parties shall be free to pursue other agreements or collaborations of any kind. However, when entering into a definitive agreement related to strategic area, the Parties may agree to limit each Party's right to collaborate with others on that subject.

4. Term and Termination

Both the Parties may terminate this MOU at any time by notice with immediate effect if it reasonably believes that its performance, financial viability or any aspect of it, results, or might breach any legal, regulatory, ethical or audit independence requirement in the jurisdiction, or any other reason. This MOU shall be valid for a period of 5 (five) years from the date of signing, unless it is terminated earlier:

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

This MOU is issued solely for the purpose of communicating the intent on part of the Parties to collaborate with each other. All the terms and conditions shall be finalized on the basis of a definitive agreement. If no definitive agreement is consummated, this MOU shall be treated as null and void.

5. Sharing of Information

As may be appropriate from time to time, each Party may share information with the other on a regular basis regarding the arrangement under this MOU. Both the Parties will be solely and entirely responsible for any third party information or materials, that they will share with each other, with regards to its requisite rights, authorizations or agreements, in place, enabling accessibility and usage of such information.

6. Confidentiality

The Parties agree and acknowledge that sensitive information and confidential data will be exchanged between the Parties pursuant to this MOU. Such data will be marked confidential ("**Confidential Information**"). Each Party agrees that it will maintain confidentiality of the Confidential Information disclosed to it by the other Party under this MOU and will ensure that this clause is strictly adhered to by its officers, employees, agents, consultants and representatives. In case of expiry or termination of this MOU, each Party will promptly return all confidential information, to the disclosing Party upon request after expiry/ termination of this MOU.

7. Expenses

Unless otherwise specifically agreed to in writing by the Parties, each Party shall bear the respective cost of carrying out the obligations under this MOU.

8. Entire Agreement

This MOU contains the entire understanding between the Parties hereto and supersedes all prior arrangements, understandings and agreements, written or oral, on the subject hereof. Any part of this MOU which is not enforceable due to any reason whatsoever will be deemed to be

COMMISSIONER
MUNICIPAL CORPORATION
KARNAL

Department of State Transport, Haryana

General Manager
Haryana Roadways
KARNAL

inoperative and the rest of the MOU shall continue to be valid and binding on the Parties hereto.

9. Representation

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

10. Cooperation

MCK and Haryana Roadways acknowledge that they have entered into this MOU in good faith and will cooperate in good faith to achieve the objectives set herein.

11. Liability

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

12. Governing Law

This MOU will be governed and construed in accordance with the laws in force in India. The Parties hereby expressly consent to the jurisdiction of Courts in Karnal for any lawsuit filed, arising from or related to this MOU.

In witnesses whereof the Parties hereto have signed this MOU in the presence of witnesses on the day, month and year first above written.

For and on behalf of
Municipal Corporation Karnal

COMMISSIONER
MUNICIPAL CORPORATION
KARNAL

(Authorized Signatory)
Name:
Designation: Municipal Commissioner

For and on behalf of
Haryana Roadways

14/3/2017
General Manager
Haryana Roadways
KARNAL

(Authorized Signatory)
Name:
Designation:

Witness:

1. 14.3.2017
Account Officer
Haryana Roadways
KARNAL

2. 14/3/17
D.R. BHASKAR
Superintending Engineer

3.5 MoU with Haryana Police

Haryana Police
Safety Security Cooperation

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter referred to as the **"MOU"**) is entered into at Karnal on this 16th day of March, 2017.

BY AND BETWEEN

Municipal Corporation Karnal constituted under the Haryana Municipal Corporations Act, 1994, having its principal office at Shakti Colony, Karnal, Haryana - 132001 (hereinafter referred to as **"MCK"** which expression shall unless excluded by or repugnant to the context, be deemed to include its administrators, successors and assigns) of **One Part**

AND

Haryana Police, Karnal (hereinafter referred to as **"Karnal Police"** having its office at Mini Secretariat, Sector 12, Karnal, which expression shall, unless it be repugnant to the context or meaning thereof, include its successors) of **Second Part**

*(Hereinafter the parties of the First Part and Second Part are collectively referred to as "**Parties**" and individually as "**Party**", as the context demands.)*

WHEREAS:

A. Ministry of Urban Development, Government of India has launched Smart City Mission in 2015 with an objective is to promote cities that provide core infrastructure and give a decent quality of life to its citizens, a clean and sustainable environment and application of 'Smart' Solutions. The focus is on sustainable and inclusive development and the idea is to look at compact areas, create a replicable model which will act like a light house to other aspiring cities. The initiative intends to develop 100 cities and towns in the country as smart cities.

Municipal Corporation Karnal

Haryana Police, Karnal

COMMISSIONER
MUNICIPAL CORPORATION
KARNAL

Superintendent of Police
KARNAL

9. Representation

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

10. Cooperation

MCK and Karnal Police acknowledge that they have entered into this MOU in good faith and will cooperate in good faith to achieve the objectives set herein.

11. Liability

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

12. Governing Law

This MOU will be governed and construed in accordance with the laws in force in India. The Parties hereby expressly consent to the jurisdiction of Courts in Karnal for any lawsuit filed, arising from or related to this MOU.

In witnesses whereof the Parties hereto have signed this MOU in the presence of witnesses on the day, month and year first above written.

For and on behalf of
Municipal Corporation Karnal

COMMISSIONER
MUNICIPAL CORPORATION
KARNAL

(Authorized Signatory)
Name:
Designation: Municipal Commissioner

For and on behalf of
Karnal Police Department

Superintendent of Police
KARNAL

(Authorized Signatory)
Name:
Designation:

Witness:

1. Mr. Jaswinder Singh. P.P.S. S.P. Karnal.

2. 16/3/17
D.R. BHASKAR
Superintending Engineer

3.6 MoU with Department of Renewable Energy, Government of Haryana

New and Renewable Energy Department, Karnal

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter referred to as the **"MOU"**) is entered into at Karnal on the 17th day of March, 2017.

BY AND BETWEEN

Municipal Corporation Karnal constituted under the Haryana Municipal Corporations Act, 1994, having its principal office at Shakti Colony, Karnal, Haryana - 132001 (hereinafter referred to as **"MCK"** which expression shall unless excluded by or repugnant to the context, be deemed to include its administrators, successors and assigns) of **One Part**

AND

Department of Renewable Energy (hereinafter referred to as **"HAREDA"** which expression shall, unless it be repugnant to the context or meaning thereof, include its successors) of **Second Part**

*(Hereinafter the parties of the First Part and Second Part are collectively referred to as "**Parties**" and individually as "**Party**", as the context demands.)*

WHEREAS:

A. Ministry of Urban Development, Government of India has launched Smart City Mission in 2015 with an objective is to promote cities that provide core infrastructure and give a decent quality of life to its citizens, a clean and sustainable environment and application of 'Smart' Solutions. The focus is on sustainable and inclusive development and the idea is to look at compact areas, create a replicable model which will act like a light house to other aspiring cities. The initiative intends to develop 100 cities and towns in the country as smart cities.

Municipal Corporation Karnal
COMMISSIONER
MUNICIPAL CORPORATION
KARNAL

Additional Deputy Commissioner-Cum-Chief Project Officer
Addl. Deputy Commissioner
KARNAL

11. Liability

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

12. Governing Law

This MOU will be governed and construed in accordance with the laws in force in India. The Parties hereby expressly consent to the jurisdiction of Courts in Karnal for any lawsuit filed, arising from or related to this MOU.

In witnesses whereof the Parties hereto have signed this MOU in the presence of witnesses on the day, month and year first above written.

For and on behalf of
Municipal Corporation Karnal

17/3/17

(Authorized Signatory)
Name:
Designation: Municipal Commissioner

COMMISSIONER
MUNICIPAL CORPORATION
KARNAL

For and on behalf of
New and Renewable Energy Department, Karnal

17/3/2017
Addl. Deputy Commissioner
KARNAL

(Authorized Signatory)
Name:
Designation:

Witness:

1. Parveen Girdhar
Project officer (RE)

17/3/2017

2. 17/3/17
D.R. BHASKAR
Superintending Engineer

3.7 MoU with Department of Information Technology, Government of Haryana

District Information Technology Society, Karnal

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter referred to as the **"MOU"**) is entered into at Karnal on the 21st day of March, 2017.

BY AND BETWEEN

Municipal Corporation Karnal constituted under the Haryana Municipal Corporations Act, 1994, having its principal office at Shakti Colony, Karnal, Haryana - 132001 (hereinafter referred to as **"MCK"** which expression shall unless excluded by or repugnant to the context, be deemed to include its administrators, successors and assigns) of **One Part**

AND

District Information Technology Society, Karnal (hereinafter referred to as **"DITS"** which expression shall, unless it be repugnant to the context or meaning thereof, include its successors) of **Second Part**

*(Hereinafter the parties of the First Part and Second Part are collectively referred to as "**Parties**" and individually as "**Party**", as the context demands.)*

WHEREAS:

A. Ministry of Urban Development, Government of India has launched Smart City Mission in 2015 with an objective is to promote cities that provide core infrastructure and give a decent quality of life to its citizens, a clean and sustainable environment and application of 'Smart' Solutions. The focus is on sustainable and inclusive development and the idea is to look at compact areas, create a replicable model which will act like a light house to other aspiring cities. The initiative intends to develop 100 cities and towns in the country as smart cities.

Municipal Corporation Karnal

COMMISSIONER
MUNICIPAL CORPORATION
KARNAL

21/03/2017

District Information Technology Society, Karnal

Secretary
D.I.T.S, Karnal

10. Cooperation

MCK and DITS acknowledge that they have entered into this MOU in good faith and will cooperate in good faith to achieve the objectives set herein.

11. Liability

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

12. Governing Law

This MOU will be governed and construed in accordance with the laws in force in India. The Parties hereby expressly consent to the jurisdiction of Courts in Karnal for any lawsuit filed, arising from or related to this MOU.

In witnesses whereof the Parties hereto have signed this MOU in the presence of witnesses on the day, month and year first above written.

For and on behalf of
Municipal Corporation Karnal

(Authorized Signatory)
Name: COMMISSIONER
Designation: MUNICIPAL CORPORATION KARNAL

For and on behalf of
District Information Technology Society, Karnal

21/03/2017
Secretary
D.I.T.S. Karnal

(Authorized Signatory)
Name:
Designation;

Witness:

1. 21/03/17
PARVINDER SINGH
ADM, MC, Karnal

2. 21/3/17
D.R. BHASKAR
Superintending Engineer

21/03/2017
Secretary
D.I.T.S. Karnal

Municipal Corporation Karnal

District Information Technology Society, Karnal

3.8 MoU with Haryana Urban Development Authority

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter referred to as the **"MOU"**) is entered into at Karnal on this 17th day of March, 2017.

BY AND BETWEEN

Municipal Corporation Karnal constituted under the Haryana Municipal Corporations Act, 1994, having its principal office at Shakti Colony, Karnal, Haryana - 132001 (hereinafter referred to as **"MCK"** which expression shall unless excluded by or repugnant to the context, be deemed to include its administrators, successors and assigns) of **One Part**

AND

Haryana Urban Development Authority (hereinafter referred to as **"HUDA"** which expression shall, unless it be repugnant to the context or meaning thereof, include its successors) of **Second Part**

*(Hereinafter the parties of the First Part and Second Part are collectively referred to as "**Parties**" and individually as "**Party**", as the context demands.)*

WHEREAS:

A. Ministry of Urban Development, Government of India has launched Smart City Mission in 2015 with an objective is to promote cities that provide core infrastructure and give a decent quality of life to its citizens, a clean and sustainable environment and application of 'Smart' Solutions. The focus is on sustainable and inclusive development and the idea is to look at compact areas, create a replicable model which will act like a light house to other aspiring cities. The initiative intends to develop 100 cities and towns in the country as smart cities.

Municipal Corporation Karnal
COMMISSIONER
MUNICIPAL CORPORATION
KARNAL

Estate Officer
HUDA Karnal

10. Cooperation

MCK and HUDA acknowledge that they have entered into this MOU in good faith and will cooperate in good faith to achieve the objectives set herein.

11. Liability

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

12. Governing Law

This MOU will be governed and construed in accordance with the laws in force in India. The Parties hereby expressly consent to the jurisdiction of Courts in Karnal for any lawsuit filed, arising from or related to this MOU.

In witnesses whereof the Parties hereto have signed this MOU in the presence of witnesses on the day, month and year first above written.

For and on behalf of
Municipal Corporation Karnal

(Authorized Signatory)
Name: COMMISSIONER MUNICIPAL CORPORATION Karnal
Designation: Municipal Commissioner

For and on behalf of
Haryana Urban Development Authority

17/3/17
(Authorized Signatory)
Name: ASHWANI MALIK
Designation: E.O., H.U.D.A. Karnal

Witness:

1. Yajesh Mohan Mehra. S.E HUDA MNL

2. 17/3/17
D.R. BHASKAR
Superintending Engineer

3.9 MoU with Department of Industrial Training and Institutes, Government of Haryana

Skill Development & Industrial Training Department
Government of Haryana

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter referred to as the **"MOU"**) is entered into at Karnal on the 11th day of March, 2017.

BY AND BETWEEN

Municipal Corporation Karnal constituted under the Haryana Municipal Corporations Act, 1994, having its principal office at Shakti Colony, Karnal, Haryana - 132001 (hereinafter referred to as **"MCK"** which expression shall unless excluded by or repugnant to the context, be deemed to include its administrators, successors and assigns) of **One Part**

AND

Skill Development & Industrial Training Department (hereinafter referred to as **"ITI Department"** which expression shall, unless it be repugnant to the context or meaning thereof, include its successors) of **Second Part**

*(Hereinafter the parties of the First Part and Second Part are collectively referred to as "**Parties**" and individually as "**Party**", as the context demands.)*

WHEREAS:

A. Ministry of Urban Development, Government of India has launched Smart City Mission in 2015 with an objective is to promote cities that provide core infrastructure and give a decent quality of life to its citizens, a clean and sustainable environment and application of 'Smart' Solutions. The focus is on sustainable and inclusive development and the idea is to look at compact areas, create a replicable model which will act like a light house to other aspiring cities. The initiative intends to develop 100 cities and towns in the country as smart cities.

COMMISSIONER
MUNICIPAL CORPORATION
KARNAL

Principal
Babu Mool Chand Jain
Govt. Industrial Training Institute
Karnal-132001

12. Governing Law

This MOU will be governed and construed in accordance with the laws in force in India. The Parties hereby expressly consent to the jurisdiction of Courts in Karnal for any lawsuit filed, arising from or related to this MOU.

In witnesses whereof the Parties hereto have signed this MOU in the presence of witnesses on the day, month and year first above written.

For and on behalf of
Municipal Corporation Karnal

COMMISSIONER
MUNICIPAL CORPORATION
KARNAL

16/3/17

(Authorized Signatory)
Name:
Designation: Municipal Commissioner

For and on behalf of
Skill Development and Industrial Training Department

17/3/17

(Authorized Signatory)
Name:
Designation:

Witness:

1. PARMOD SHARMA
SR. GROUP INSTRUCTOR
BMCJ GIT.I KARNAL

17/3/2017

2.

17/3/17

D.R. BHASKAR
Superintending Engineer

3.10 MoU with Department of Health Services, Government of Haryana

Health Department
Government of Haryana

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter referred to as the **"MOU"**) is entered into at Karnal on this 15th day of March, 2017.

BY AND BETWEEN

Municipal Corporation Karnal constituted under the Haryana Municipal Corporations Act, 1994, having its principal office at Shakti Colony, Karnal, Haryana - 132001 (hereinafter referred to as **"MCK"** which expression shall unless excluded by or repugnant to the context, be deemed to include its administrators, successors and assigns) of **One Part**

AND

Health Services Department (hereinafter referred to as **"Health Department"** which expression shall, unless it be repugnant to the context or meaning thereof, include its successors) of **Second Part**

*(Hereinafter the parties of the First Part and Second Part are collectively referred to as "**Parties**" and individually as "**Party**", as the context demands.)*

WHEREAS:

A. Ministry of Urban Development, Government of India has launched Smart City Mission in 2015 with an objective is to promote cities that provide core infrastructure and give a decent quality of life to its citizens, a clean and sustainable environment and application of 'Smart' Solutions. The focus is on sustainable and inclusive development and the idea is to look at compact areas, create a replicable model which will act like a light house to other aspiring cities. The initiative intends to develop 100 cities and towns in the country as smart cities.

Municipal Corporation Karnal

COMMISSIONER
MUNICIPAL CORPORATION
KARNAL

Health Services Department

Civil Surgeon
KARNAL

MCK and Health Department acknowledge that they have entered into this MOU in good faith and will cooperate in good faith to achieve the objectives set herein.

11. Liability

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

12. Governing Law

This MOU will be governed and construed in accordance with the laws in force in India. The Parties hereby expressly consent to the jurisdiction of Courts in Karnal for any lawsuit filed, arising from or related to this MOU.

In witnesses whereof the Parties hereto have signed this MOU in the presence of witnesses on the day, month and year first above written.

For and on behalf of
Municipal Corporation Karnal

COMMISSIONER
MUNICIPAL CORPORATION
KARNAL

(Authorized Signatory)
Name:
Designation: Municipal Commissioner

For and on behalf of
Health Services Department

15/03/2017
Civil Surgeon
KARNAL
(DR SANTLAL VERMA)

(Authorized Signatory)
Name:
Designation:

Witness

1. Dr. Geeta Rani
Dy. Civil Surgeon (3H) Karnal.

2. 17/3/17
D.R. BHASKAR
Superintending Engineer

3.11 MoU with Department of Elementary Education, Government of Haryana

Elementary Education Department
Government of Haryana

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter referred to as the **"MOU"**) is entered into at Karnal on the 16th day of March, 2017.

BY AND BETWEEN

Municipal Corporation Karnal constituted under the Haryana Municipal Corporations Act, 1994, having its principal office at Shakti Colony, Karnal, Haryana - 132001 (hereinafter referred to as **"MCK"** which expression shall unless excluded by or repugnant to the context, be deemed to include its administrators, successors and assigns) of **One Part**

AND

Elementary Education Department (hereinafter referred to as **"Elementary Education Department"** which expression shall, unless it be repugnant to the context or meaning thereof, include its successors) of **Second Part**

*(Hereinafter the parties of the First Part and Second Part are collectively referred to as "**Parties**" and individually as "**Party**", as the context demands.)*

WHEREAS:

A. Ministry of Urban Development, Government of India has launched Smart City Mission in 2015 with an objective is to promote cities that provide core infrastructure and give a decent quality of life to its citizens, a clean and sustainable environment and application of 'Smart' Solutions. The focus is on sustainable and inclusive development and the idea is to look at compact areas, create a replicable model which will act like a light house to other aspiring cities. The initiative intends to develop 100 cities and towns in the country as smart cities.

Municipal Corporation Karnal

Distt. Elementary Education Officer
Elementary Education Department

COMMISSIONER
MUNICIPAL CORPORATION
KARNAL

12. **Governing Law**

This MOU will be governed and construed in accordance with the laws in force in India. The Parties hereby expressly consent to the jurisdiction of Courts in Karnal for any lawsuit filed, arising from or related to this MOU.

In witnesses whereof the Parties hereto have signed this MOU in the presence of witnesses on the day, month and year first above written.

For and on behalf of
Municipal Corporation Karnal

COMMISSIONER
MUNICIPAL CORPORATION
KARNAL
16/3/17

(Authorized Signatory)
Name:
Designation: Municipal Commissioner

For and on behalf of
Elementary Education Department
Distt. Elementary Education Officer
KARNAL

(Authorized Signatory)
Name:
Designation;

Witness:
1. Pawan Kumar
Pawan Kumar
Asstt.
C/o BEEO Karnal

2.

16/3/17

D.R. BHASKAR
Superintending Engineer

Municipal Corporation Karnal

Elementary Education Department

3.12 MoU with Department of Secondary Education, Government of Haryana

Secondary Education Department
Government of Haryana

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter referred to as the **"MOU"**) is entered into at Karnal on the 17th day of March, 2017.

BY AND BETWEEN

Municipal Corporation Karnal constituted under the Haryana Municipal Corporations Act, 1994, having its principal office at Shakti Colony, Karnal, Haryana - 132001 (hereinafter referred to as **"MCK"** which expression shall unless excluded by or repugnant to the context, be deemed to include its administrators, successors and assigns) of **One Part**

AND

Secondary Education Department (hereinafter referred to as **"Secondary Education Department"** which expression shall, unless it be repugnant to the context or meaning thereof, include its successors) of **Second Part**

*(Hereinafter the parties of the First Part and Second Part are collectively referred to as "**Parties**" and individually as "**Party**", as the context demands.)*

WHEREAS:

A. Ministry of Urban Development, Government of India has launched Smart City Mission in 2015 with an objective is to promote cities that provide core infrastructure and give a decent quality of life to its citizens, a clean and sustainable environment and application of 'Smart' Solutions. The focus is on sustainable and inclusive development and the idea is to look at compact areas, create a replicable model which will act like a light house to other aspiring cities. The initiative intends to develop 100 cities and towns in the country as smart cities.

Municipal Corporation Karnal

Secondary Education Department

COMMISSIONER
MUNICIPAL CORPORATION
KARNAL

District Education Officer
KARNAL

12. Governing Law

This MOU will be governed and construed in accordance with the laws in force in India. The Parties hereby expressly consent to the jurisdiction of Courts in Karnal for any lawsuit filed, arising from or related to this MOU.

In witnesses whereof the Parties hereto have signed this MOU in the presence of witnesses on the day, month and year first above written.

For and on behalf of
Municipal Corporation Karnal

COMMISSIONER
MUNICIPAL CORPORATION
KARNAL
16/3/17.

(Authorized Signatory)
Name:
Designation: Municipal Commissioner

For and on behalf of
Secondary Education Department

17/3/17.
By District Education Officer
KARNAL

(Authorized Signatory)
Name:
Designation:

Witness:

1. 17/3/17.
Dr. Sushil Kumar
DSE & DEO Karnal

2. 17/3/17
D.R. BHASKAR
Superintanding Engineer

District Education Officer
KARNAL

4 Financials

4.1 Smart City Proposal Resource Plan

Resources	Amount (INR Cr)	% Share
Smart City Fund- Central Share	**500**	**39%**
Smart City Fund- State & ULB Share	**500**	**39%**
Central Convergence	**37.16**	**3%**
AMRUT	13.13	
Integrated Power Distribution Scheme	23.19	
Swacch Bharat Mission	0.84	
State Convergence	**30.35**	**2%**
HUDA	15.65	
CM Announcement	1.58	
HIPA (Haryana Institute of Public Administration)	5.25	
Panchayati Raj Dept	7.88	
MCK Convergence	**10.61**	**1%**
MCK	10.61	
District Convergence	**2.10**	**0.13%**
District Plan Scheme	2.10	
PPP	**132.85**	**10%**
Additional Contribution by MCK	**82.74**	**7%**
Total Capex	**1295.81**	**100%**

4.2 CAPEX, OPEX phasing and SPV Cash flow

CASHFLOW ESTIMATE										
Descriptions	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**	**Year 7**	**Year 8**	**Year 9**	**Year 10**
INFLOW										
Capital reciepts - Mission funds										
Smart City Fund - Contribution from Central Govt.	200	200	100							
Smart city fund - Contribution from State Govt. & MCK	200	200	100							
Capital reciepts -Others										
Convergence	14.24	26.12	20.26	8.98	-	-	-	-	-	-
PPP	26.57	40.12	53.14	13.02	-	-	-	-	-	-
MCK - Own Schemes	5.14	4.62	0.65	0.21	-	-	-	-	-	-
MCK Additional Contributions from Financial Sources	28.26	28.26	28.26	0.00	-	-	-	-	-	-
Total Capital Reciepts (INR Lakhs)	**474.20**	**499.11**	**302.31**	**22.21**	**-**	**-**	**-**	**-**	**-**	**-**
Expenditure / OUTFLOW										
Capital Expenditure										
Row Labels	Sum of AY1	Sum of AY2	Sum of AY3	Sum of AY4	-	-	-	-	-	-
Citizen Serivces	5.04	7.73	4.79	1.49	-	-	-	-	-	-
Command & Control Center	7.00	9.33	7.00	0.00	-	-	-	-	-	-
Emergency response	5.25	0.00	0.00	0.00	-	-	-	-	-	-
Integration of existing apps	0.05	0.00	0.00	0.00	-	-	-	-	-	-
Livlihood	109.19	165.19	216.97	54.43	-	-	-	-	-	-
Mobility	17.09	24.51	25.03	6.33	-	-	-	-	-	-
Non Motorised Transport	5.86	6.75	6.71	1.77	-	-	-	-	-	-
Open Spaces/Recreation Spaces	16.56	15.30	19.18	18.17	-	-	-	-	-	-
Passive Infrastructure	0.38	0.76	0.76	0.00	-	-	-	-	-	-
Public safety	0.16	0.00	0.00	0.00	-	-	-	-	-	-
Public Transport	6.68	6.68	6.68	2.23	-	-	-	-	-	-
Rain Water Harvesting	0.63	0.61	0.30	0.00	-	-	-	-	-	-
Renewable Energy	7.27	5.66	13.31	11.70	-	-	-	-	-	-
Slum Rehabitation	3.13	7.82	4.69	0.00	-	-	-	-	-	-
Smart Parking	0.85	15.75	18.90	11.81	-	-	-	-	-	-
Smart Sewerage Management	5.93	10.93	14.31	18.11	-	-	-	-	-	-
Smart Utilities	8.19	12.15	6.84	5.31	-	-	-	-	-	-
Smart Water Supply	4.94	7.49	10.17	14.35	-	-	-	-	-	-
Social Infrastructure	26.27	38.49	49.74	12.21	-	-	-	-	-	-
Solid Waste Management	5.30	1.77	1.18	0.21	-	-	-	-	-	-
Storm Water Drainage	1.12	2.11	2.71	2.41	-	-	-	-	-	-
Traffic Management	19.60	19.60	19.60	6.53						
A&OE	28.26	28.26	28.26	0.00						
Total Capital Expenditure	**284.75**	**386.89**	**457.13**	**167.06**		**-**	**-**	**-**	**-**	**-**
Operational Revenue	**Y1**	**Y2**	**Y3**	**Y4**	**Y5**	**Y6**	**Y7**	**Y8**	**Y9**	**Y10**
Receipts - Rentals from the Grade A office space	-	0.67	1.41	2.23	2.92	3.07	3.22	3.38	3.55	3.73
Receipts - Rentals from Commercial Area	-	7.48	15.71	24.74	32.47	34.10	35.80	37.59	39.47	41.45
Receipts - Rentals from Car Parking	-	1.28	2.68	4.22	5.54	5.82	6.11	6.41	6.73	7.07
Total Operational Revenue	**-**	**9.43**	**19.80**	**31.19**	**40.94**	**42.98**	**45.13**	**47.39**	**49.76**	**52.25**
Operational Expenditure	**Y1**	**Y2**	**Y3**	**Y4**	**Y5**	**Y6**	**Y7**	**Y8**	**Y9**	**Y10**
O&M	0.70	1.40	5.09	40.48	42.51	44.63	46.86	49.21	51.67	54.24
Total Inflow	**474.20**	**508.54**	**322.11**	**53.40**	**40.94**	**42.98**	**45.13**	**47.39**	**49.76**	**52.25**
Total Outflow	**285.45**	**388.29**	**462.22**	**207.54**	**42.51**	**44.63**	**46.86**	**49.21**	**51.67**	**54.24**
Opening balance	10.00	198.76	319.01	178.90	24.76	23.19	21.54	19.81	17.99	16.08
Net Surplus / Deficit	188.76	120.25	-140.11	-154.14	-1.57	-1.65	-1.73	-1.82	-1.91	-2.00
Closing Balance	**198.76**	**319.01**	**178.90**	**24.76**	**23.19**	**21.54**	**19.81**	**17.99**	**16.08**	**14.09**

5 Documents related to Convergence with Central and State Schemes

5.1 Convergence with AMRUT

5.1.1 Discussion minutes for approval of AMRUT projects for Karnal

शहरी स्थानीय निकाय निदेशालय हरियाणा

DIRECTORATE OF URBAN LOCAL BODIES HARYANA

To

1 Director General, Town & Country Planning Department, Haryana
2 Director General, Transport Department, Haryana
3 Director, Urban Local Bodies, Haryana
4 Managing Director, Vidyut Prasaran Nigam (HVPN), Haryana
5 Chief Administrator, HUDA, Panchkula
6 Special Secretary, Finance Department, Haryana
7 Special Secretary, Revenue Department, Haryana
8 Engineer-in-Chief, Irrigation Department, Haryana
9 Engineer-in-Chief, Public Health Engineering Department, Haryana
10 Advisor of CPHEEO, Ministry of Urban Development, Govt. of India, Nirman Bhawan, New Delhi – Representative
11 Chief Engineer, Urban Local Bodies, Haryana, Panchkula

Memo No. TA/DULB/2017/ date: 17.02.2017

Subject: - Minutes of 8th meeting of State Level Technical Committee (SLTC) Constituted for Atal Mission for Rejuvenation and Urban Transformation (AMRUT) held on 15.02.2017 at 03:00 PM.

******

I have been directed to forward a copy of minutes 8th Meeting of the State Level Technical Committee (SLTC) constituted for the Atal Mission for Rejuvenation and Urban Transformation (AMRUT) held on 15.02.2017 at 03.00 PM under the chairmanship of Sh. Anand M. Sharan, IAS, Principal Secretary to Govt. Haryana, Urban Local Bodies Department – cum- Chairman of the SLTC under AMRUT, for information and necessary action.

DA: As above

Sub Divisional Engineer-II,
for Director, Urban Local Bodies,
Haryana, Panchkula.

Endst. No. TA/DULB /2017/ Dated: 17.02.2017

A copy of above alongwith copy of minutes of meeting is forwarded to Sh. Neeraj Mandloi, Joint Secretary (UD), Ministry of Urban Development, Govt. of India, Nirman Bhawan, New Delhi for kind information and necessary action.

DA: As above

Sub Divisional Engineer-II,
For Director, Urban Local Bodies,
Haryana, Panchkula.

5.1.2 Approval for AMRUT projects

during pre-bid meetings and also the queries received thereafter were uploaded on website.

- Now, some of the Bidders have pointed out that the scope of work includes 5 years Operation & Maintenance of the assets created under these works, but the cost is not included in cost of approved DNITs. Similarly certain other imperfections were also noticed in the approved DNITs.
- In order to ensure that the DNITs are correct, the Consultants were directed to re-examine all the 10 DNITs and revise the same by including the provision of O&M cost, incorporating all the addendums issued so far, and amendments, if any, required.
- In the meantime tenders called against all the 10 approved DNITs have been cancelled after getting the approval of the Chairperson and fresh tenders are proposed to be called against revised DNITs.
- Accordingly, Consultants have re-examined and revised all the 10 DNITs. Details are as under :-

(Rupees in Crores)

Sr. No.	Name of Town	Sector	Sector	Earlier DNIT Cost	Revised DNIT
1	Ambala	Sewerage	238.65	112.18	120.9
		Water Supply	59.85	61.96	66.74
		Drainage	19.14	18.79	18.6
		Green Spaces	19.94	15.64	15.64
2	Karnal	Sewerage	240.92	144.32	158.98
		Drainage	80.56	78.8	78.74
3	Sonepat	Sewerage	230.04	87.88	92.25
		Water Supply	44.4	44.4	47.12
		Drainage	123.36	78.52	80.54
4	Gurugram	Sewerage	23.11	24.33	24.33
			1079.97	**666.82**	**703.84**

3.2 Commissioner, Municipal Corporation, Ambala pointed out that the proposed storm water drain is passing through the Cantonment area, and getting permission of the same from the Army may be difficult. In addition, in some part of the alignment, the land is not available for construction of drain.

3.3 The revised cost of all the DNITs including reasons for change was discussed. It was decided to defer the approval for DNIT for Drainage Ambala. Following 9 DNITs were approved by the committee:-

5.2 Funds released under Swacch Bharat Mission

GR-Page No. 119

Act-2 ... file
as per rules.

From

Chief Administrator,
Haryana Slum Clearance Board,
Bays No 11-14, Sector-4, Panchkula.

To

Commissioner,
Municipal Corporation,
Karnal

Municipal Corporation Karnal 2229 DLB 28-2-17

Memo No. HSCB-2017/A-2/860
Dated:- 23-2-2017

Subject: **Release of funds under Swachh Bharat Mission Scheme.**

*****

Kindly refer to the subject cited above.

I have been directed to inform you that an amount of Rs. 430.39 lakh has been released to your office as per the following details under SBM scheme:-

	Component and date wise released (Rs. In lakh)					
9.10. 15	22.1.16	9.10.15	22.1.16	5.5.2016	7.10.16	
IHHL	IHHL	IEC/Pub Awareness	IEC/Pub Awareness	IEC/ Community	SWM	Total
126.77	36.22	5.27	1.91	100.00	160.22	430.39

It is therefore, requested to utilize the amount for the purpose it has been released and send the component wise utilization certificate of the amount released to your office.

For Accounts Officer
Chief Administrator,
Haryana Slum Clearance Board,
Panchkula.

5.3 Discussion minutes for approval of National Smart Grid Mission - Karnal

F. No. 27/1/2016-IPDS
Government of India
Ministry of Power
******

Shram Shakti Bhawan, Rafi Marg,
New Delhi: Dated June 06th , 2016

Office Memorandum

Subject: Minutes of Meeting on Smart Grids under the Chairmanship of Secretary (Power) held at 11.00 AM on 31st May, 2016.

*****

A copy of the minutes of the above meeting is forwarded herewith for information and necessary action.

(Ashish Kr. Yadav)
Section Officer (IPDS)
Tel: 011-23715507(Extn-292,343)

To,

Director, NPMU
NSGM Secretariat
Power Grid Co. of India Ltd
Plot No. 2, Sector-29
Gurgaon- 122001
prabhu.ns@nic.in
(With a request that the minutes of the meeting may please be circulated to all concerned.)

Copy to:

1. PPS to S(P), Ministry of Power
2. PPS to JS(Dist.), Ministry of Power
3. PPS to Director (Distribution), Ministry of Power

Minutes of Review Meeting on Smart Grids held on 31st May 2016 under the Chairmanship of Secretary (Power)

A review meeting on Smart Grids including NSGM issues was held on 31st May 2016 under the Chairmanship of Secretary (Power) in Conference Hall, Ministry of Power, New Delhi. List of participants is attached at **Annex-I**. Director (NPMU) made a presentation on various issues.

NSGM Project Management Unit (NPMU) made a presentation on various Agenda items:

2. Status review of Smart Grid pilots under R-APDRP

The present status of Smart Grid Pilot Projects was presented which is placed at **Annex-II**. Director, NPMU apprised that Nine (9) projects have already been awarded by the respective utilities. Two of these projects at CESC, Mysore and HPSEB are in advanced stage of implementation and are likely to be completed by September'2016 and October'2016 respectively. The issues being faced by the various utilities were also highlighted during the presentation.

Director, NPMU intimated that the officers of NPMU are visiting the project sites to understand and address the implementation challenges for expediting completion. An overview of some of the Smart Grid Projects being implemented across India was also presented for information. It was advised that NPMU should coordinate with States/Agencies and expedite completion of works without any further delay.

3. Business Case for Smart Grid Projects

A Business Case based on ESCO model was presented based on the data received from KESCO, Kanpur. The expected outcomes from implementation of smart grid was reduction of T&D losses from around 22.71% to 15% in 3 years, 10% in 7 years and 8.75% in 10 years and benefits to the tune of Rs 793 Crs in 4 years, Rs 1897 Crs in 7 years and Rs. 3294 Crs in 10 years time with no increase in tariff.

Director, NPMU apprised that talks were held with CEO, RECTPCL and MD, EESL and both the companies have shown interest in working on smart grid projects broadly based on models suggested by NPMU. It was mentioned that with large scale deployments the cost of smart meters and software solutions will also come down leading to accelerated deployment of AMI and other smart grid technologies.

Secretary, Power opined that there is a need to undertake large Smart Grid projects which are self sustainable across the country. He emphasised the need for cost effective solutions and asked NPMU to explore the merits in going with cloud based solutions instead of installing hardware at Control Centres to save on space, expedite procurement process, reduce capex etc.

Secretary, Power advised that minimum of one Smart Grid project on ESCO model should be taken up each through EESL, PFC and REC.

4. NSGM Implementation Framework and Smart Grid Training Course

Director, NPMU briefed about the progress in preparation of implementation framework document and Smart grid Training Plan for utilities. He apprised that the Material for the 3 day Training Course for utility personnel has been finalised by the Committee constituted by MoP in association with USAID-PACE-D Program. JS(Distribution) advised NPMU to evoke synergies with other training being carried out in the field of Smart Grids viz by ISGF or PFC.

5. Pending Issues of NPMU:

As per the provisions of the NSGM, NPMU would have a functional and financial autonomy, while it would also be an arm of POWERGRID.

POWERGRID was requested to provide three officials to NPMU on secondment basis so that the work can be managed smoothly. Other officials could be taken on need basis from other Government PSUs on secondment basis for which process can be initiated by POWERGRID and NPMU. POWERGRID was also advised to provide proper seating space to NPMU at one floor within its Corporate Centre at Gurgaon.

6. **Director, NPMU expressed a** need of exposure visits to other countries for the employees posted at NPMU to keep them abreast with the latest developments in smart grid across globe. Director, NPMU advised that some of the known successful models are

- Smart Grid Test Bed at South Korea/Singapore
- AMI deployment at Victoria, Australia
- Smart Grid deployments in USA
    - Pacific Gas & Electric's Smart Grid Program on large AMI, Distribution Automation, substation automation at San Francisco.
    - California ISO (CAISO) - SG, DR, and renewable integration
    - Lawrence Berkeley National Lab (LBNL) Demand Response Research Center
    - Sacramento Municipal Utility District (SMUD) – SG project includes test bed for PHEV vehicle charging stations and impact on electric distribution system

Secretary, Power advised that NPMU should make out details itineraries with details and send to the Ministry with justification.

7. Sh Subir Sen, ED, POWERGRID made a presentation on learning's and outcomes of Smart Grid Demonstration Project at Puducherry. Secretary, Power advised POWERGRID to submit a report encapsulating major challenges faced while implementing the project and learning's to be shared with other utilities.

8. The meeting ended with a vote of thanks to the Chair.

5.3.1 Approved Smart Meters under National Smart Gid Mission

Annex-II

Monitoring of SG Pilot Projects Implementation Progress

Sl. No.	SG Pilot	Date of Award	Sanctioned Cost ₹Crores	Financial Progress ₹ Crores	Smart Meters 1ϕ			Smart Meters 3ϕ		
					Total Qty	Apr'16	Till date	Total Qty	Apr'16	Till date
1	CESC, Mysore SGIA - Enzen	Mar'14	32.59	4.07	19487	1826	2275	2337	0	0
2	UHBVN, Haryana SGIA - NEDO Japan	Apr'14	NA	NA	9800	0	0	1200	0	0
3	HPSEB, Himachal Pradesh SGIA - Alstom	Feb'15	19.45	2.43	1118	441	835	436	0	111
4	APDCL, Assam SGIA - Phoenix IT	Mar'15	29.94	2.61	7876	0	0	7207	0	0
5	PSPCL, Punjab SGIA - Kalkitech	Mar'15	10.11	0.89*	1101	0	0	1636	0	0
6	WBSEDCL, West Bengal SGIA - Chemtrols	Jun'15	7.03	0.88*	5059	0	0	206	0	0
7	TSECL, Tripura SGIA - Wipro	Sep'15	63.43	7.93	42986	0	0	2043	0	0
8	TSSPDCL, Telangana SGIA - ECIL	Oct'15	41.82	00	8882	0	0	1515	0	0
9	PED, Puducherry SGIA - Dongfang	Mar'16	46.11	00	23492	0	0	10007	0	0
10	UGVCL, Gujarat		82.70	00	Expected to be awarded soon					
11	IIT Kanpur Smart City		12.50	4.69	Expected to be awarded soon					
Cancelled Pilot Projects: MSEDCL (Maharashtra), CSPDCL (Chhattisgarh), JVVNL (Rajasthan) and KSEB (Kerala)										

5.3.2 Approval for Mass Rollout of Advanced Metering Infrastructure

UTTAR HARYANA BIJLI VITRAN NIGAM LIMITED
UTTAR HARYANA BIJLI VITRAN NIGAM LIMITED
(A Power Distribution & Retail Supply Utility, Govt. of Haryana)
Corp .Office: C-16, Vidyut Sadan, Sector-6, Panchkula, Haryana
Ph. No. 0172-2583740, Fax-0172-2583741,
E-mail: dirtech2uhbvn@gmail.com

Smart City File.

From

The Director/Technical-II,
C-16, Vidyut Sadan, UHBVN,
Sec-6, Panchkula.

HDM

To

The Chief Engineer (DP&D),
CEA, Sewa Bhawan,
R.K. Puram, New Delhi - 110066.

16/3/2017.

Memo No. Ch-4/CE/Comml./AMI
Dated: 06/03/2017

Subject: Mass Scale Rollout of Advanced Metering Infrastructure (AMI).

Please refer to your office memo no. CEA/DPD/AMI/2017 dated 27.02.2017 and further discussions held in UHBVN at Panchkula on 02.03.2017 on the above cited subject.

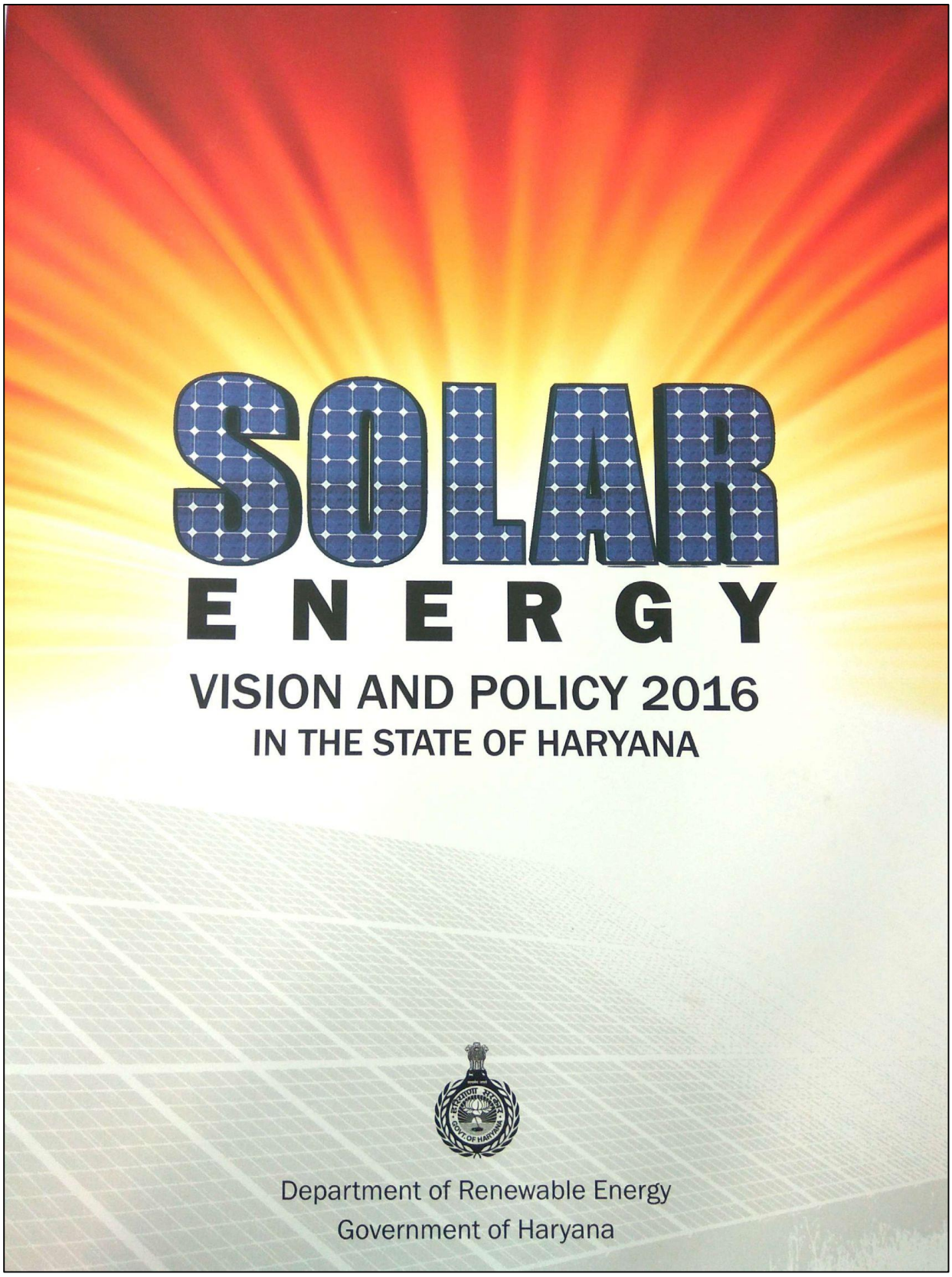
In this context, it is intimated that Haryana Discoms i.e. UHBVN & DHBVN are willing to participate in the proposed Mass Scale Rollout of AMI Initiative for approximately 10 Lakh consumers (approximately 5 Lakh from each Discom). A final decision, however, would be taken after receipt of complete details of the proposed model.

This is for your information & further necessary action, please.

6/3/17

Director/Technical-II
UHBVN, Panchkula.

5.4 Schemes under National Solar Mission



Green Energy *Clean Energy*

GRID CONNECTED ROOFTOP SOLAR POWER PLANTS

Install Solar Power Plant...Own your electricity

Solar Photovoltaic Technology converts the sunlight into DC electricity through solar cells. The generated electricity can either be used directly during the day or may be stored in the batteries for use during night hours for various applications. Haryana Renewable Energy Development Agency (HAREDA) is promoting the solar photovoltaic (SPV) devices like Rooftop Solar Power Plants, Solar water pumping systems, solar invertors, Solar Street Lights, Solar Home lighting systems etc.

SALIENT FEATURES

- Grid Connected Rooftop Solar Power Plant generates electricity during day time.
- System can be installed with or without battery bank
- Approx. 1500 units/ kWp generation annually.
- Approx. cost is Rs. 70,000/- per KWp (without battery bank).
- 10 Sq.M per KWp shadow free space is required.
- Payback period is 4-5 years
- No dependence on grid power or diesel
- Zero recurring cost on diesel/electricity
- No Noise & pollution free working
- Easy to install & simple to operate
- Generating panel has long life more than 25 years.
- Low maintenance cost

NET METERING FACILITY

- Solar Power generated during the day time can be utilised for captive consumption and excess, if any, may be fed to the grid as long as grid is available..
- The exported energy to the grid may be utilised during non-sun hours within the financial year.
- Incentive of 25 paisa per unit of solar generation will be provided during 2015-16.
- System equivalent to sanctioned load can be installed

MANDATORY INSTALLATION

Haryana Government vide notification No.22/52/2005-5 Power dated 03.09.2014 has made installation of Solar Power Plants mandatory for following categories of buildings:

Sr No.	Category of building/area	Capacity of Solar Photovoltaic Power Plant to be installed
1.	All residential buildings built on a plot size of 500 Square Yards and above falling within the limits of Municipal Corporations, Municipal Councils, Municipal Committees, Haryana Urban Development Authority (HUDA),Haryana State Industrial and Infrastructure Development Corporation (HSIIDC) sectors	Minimum 1 Kilo Watt peak (KWp) Or 5% of connected load, whichever is higher
2.	All private Educational Institutes, Schools, Colleges, Hostels, Technical/Vocational Education Institutes, Universities etc. having connected load of 30 Kilo Watt (KW) and above	Minimum 5 Kilo Watt peak (KWp) Or 5% of connected load, whichever is higher
3.	All Government Buildings and Offices, Government Colleges, District Institute of Education and Training (DIET), Government Educational Institutions, Universities, having connected load of 30 Kilo Watt (KW) and above	Minimum 2 Kilo Watt peak (KWp) Or 5% of connected load, whichever is higher
4.	All private Hospitals and Nursing Homes, Industrial Establishments, Commercial Establishments, Malls, Hotels, Motels, Banquet Halls and Tourism Complexes, having connected load (i) of 50 Kilo Watt (KW) to 1000 Kilo Watt (KW); (ii) above 1000 Kilo Watt (KW)	(i) Minimum 2 Kilo Watt peak (KWp)Or 5% of connected load, whichever is higher (ii) Minimum 2 Kilo Watt peak (KWp) Or 5% of connected load, whichever is higher
5.	All new Housing Complexes, developed by Group Housing Societies, Builders, Housing Boards, on a plot size of: (i)0.5 Acre to 1.0 Acre; (ii)More than 1.0 Acre to 2.0 Acres; (iii)More than 2.0 Acres to 5.0 Acres; (iv)More than 5.0 Acres;	(i) Minimum 10 Kilo Watt peak (KWp) (ii) Minimum 20 Kilo Watt peak (KWp) (iii) Minimum 30 Kilo Watt peak (KWp) (iv) Minimum 40 Kilo Watt peak (KWp)
6.	All water lifting stations of Irrigation Department having connected load of 100 Kilo Watt (KW) and above	Minimum 50 Kilo Watt peak (KWp) Or 3% of connected load, whichever is higher

* Cost and subsidies may very from time to time subject to availability of budget

For further information please contact:

Additional Deputy Commissioner-Cum-Chief Project Officer
Mini Sectt, Sector-12, KARNAL
Ph. 0184-2267351, 2267627

RENEWABLE ENERGY : ENERGY FOREVER
HAREDA

Haryana Renewable Energy Development Agency(HAREDA).
Department of Renewable Energy, Haryana
Akshay Urja Bhawan, Institutional Plot No. 1,Sector-17, Panchkula
Tel: 0172-2587233,2587833 Fax No.0172-2564433
E-mail: drehareda@gmail.com, Website: www.hareda.gov.in

BETI BACHAO
BETI PADHAO

5.5 Housing for All Plan of Action – DPR under approval

Draft Report

Housing for All Plan of Action (HFAPoA) and

Detailed Project Report (DPR) for identified

Slums/Housing Projects for Karnal Town

Under

"Pradhan Mantri Awas Yojana"

Municipal Corporation, Karnal (Haryana)

December, 2016

Submitted By

M/s Limbha & Associates,

33/27, Second Floor, Punjabi Bagh Extension,

New Delhi-110026

E-mail- limbha.associates@gmail.com

Contact – 011-41418241

5.5.1 Summary of Urban Poor in Karnal

3.3 Sampling Strategy

A door to door survey was conducted by M/s Limbha & Associates, New Delhi, in all the 20 wards of Karnal, Haryana to assess the status of urban poor and people residing in slum area, as per the format given in HFA Guideline. Data entry, its verification, scrutiny and compilation have also been done and are being presented in the report.

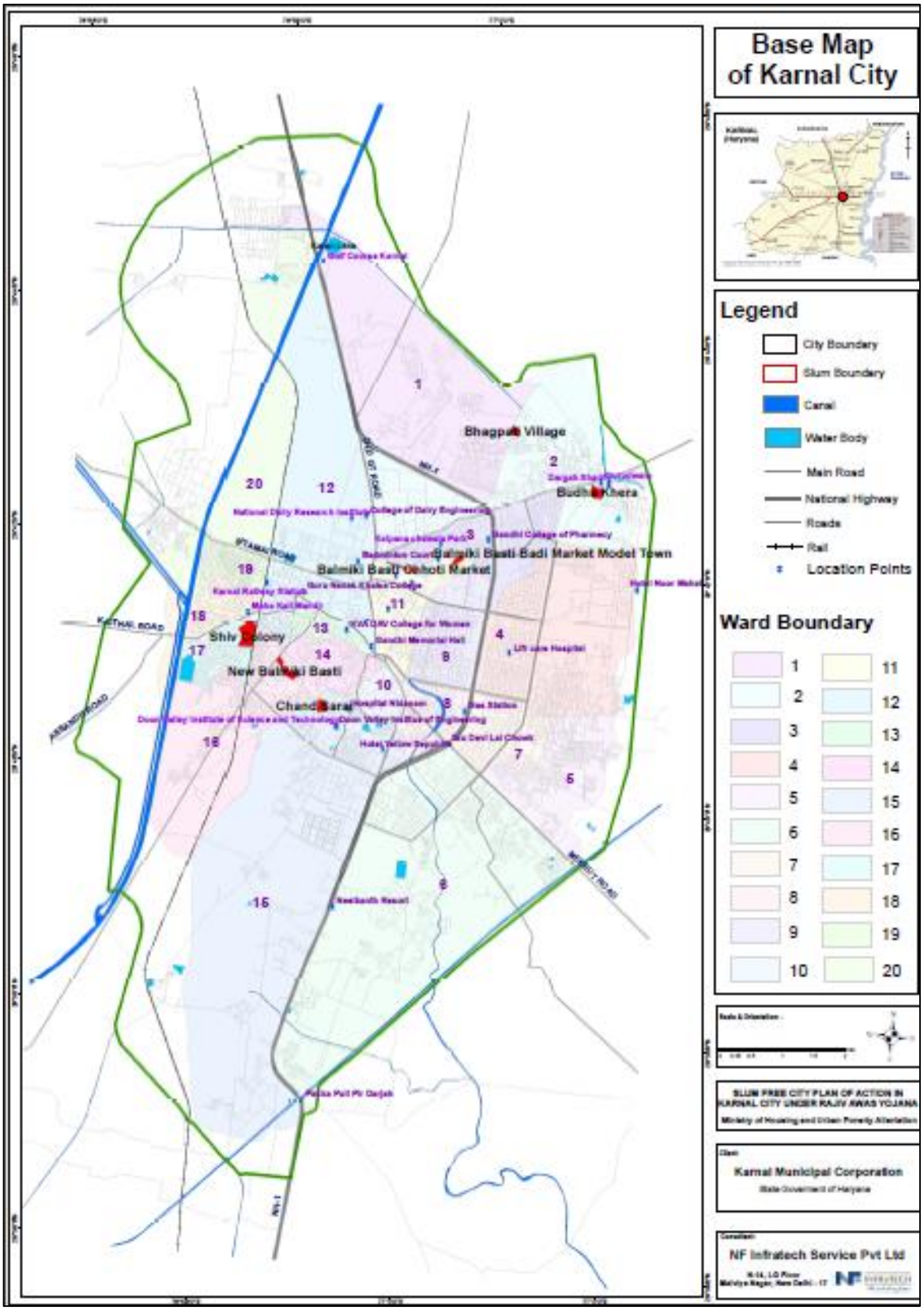
3.4 Identification of Slum Dwellers

During the survey, it was found that out of 20 wards coming in the jurisdiction of Municipal Corporation, Karnal, almost all the wards were identified having people falling under different criteria of the guidelines of PMAY. It consist 16,432 dwelling units. Total 934 no. of dwelling units falls under "In situ" Slum Redevelopment category, whereas 7,894 fall under 'Affordable Housing through Credit Linked Subsidy' category. The number of households falls under category 'Subsidy for beneficiary-led individual house construction or enhancement' is 7,604. The detail of these slum dwellers is given in **Table-3.1** and the location of slum area is shown in **Figure-3.1**.

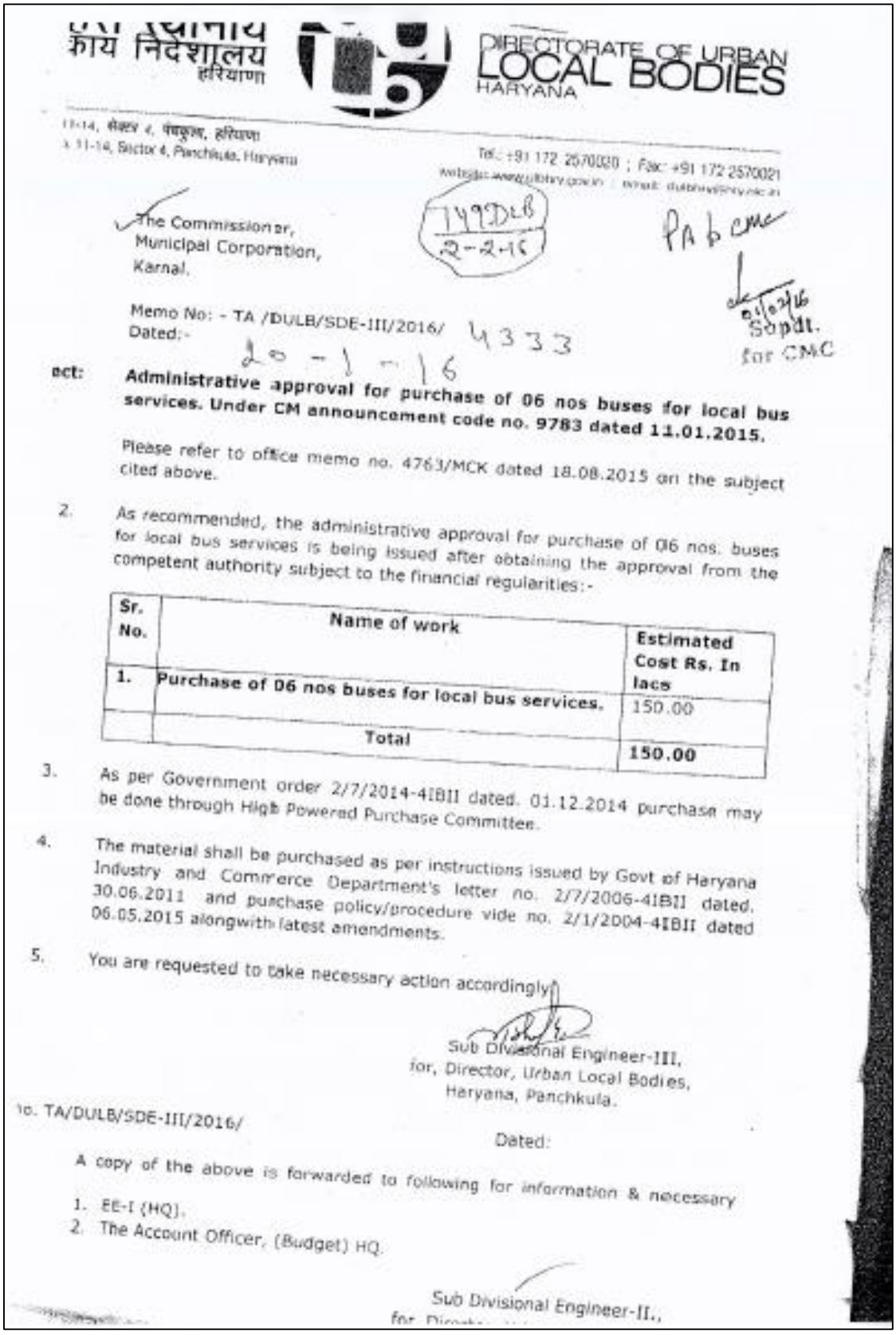
Table-3.1: Details of Slum Dwellers

Sl. No.	Category of Beneficiaries	Nos. of Dwelling Units
1.	Slum dwellers falls under "In situ" Slum Redevelopment category	934
2.	Beneficiaries falls under 'Affordable Housing through Credit Linked Subsidy' category	7,894
3.	Beneficiaries falls under 'Subsidy for beneficiary-led individual house construction or enhancement'	7,604
	Total	**16,432**

5.5.2 Map showing the location of slums in Karnal



5.6 CM Announcements – City Bus Service



कार्य निदेशालय
हरियाणा

DIRECTORATE OF URBAN
LOCAL BODIES
HARYANA

11-14, सेक्टर 4, पंचकूला, हरियाणा
11-14, Sector 4, Panchkula, Haryana

Tel.: +91 172 2570020 ; Fax: +91 172 2570021
website: www.dulbhry.gov.in ; email: dulbhry@hry.nic.in

The Commissioner,
Municipal Corporation,
Karnal.

749DLB
2-2-16

PA to CMC
01/02/16
Supdt.
for CMC

Memo No: - TA /DULB/SDE-III/2016/ 4333
Dated:- 20-1-16

ect: **Administrative approval for purchase of 06 nos buses for local bus services. Under CM announcement code no. 9783 dated 11.01.2015.**

Please refer to office memo no. 4763/MCK dated 18.08.2015 on the subject cited above.

2. As recommended, the administrative approval for purchase of 06 nos. buses for local bus services is being issued after obtaining the approval from the competent authority subject to the financial regularities:-

Sr. No.	Name of work	Estimated Cost Rs. In lacs
1.	Purchase of 06 nos buses for local bus services.	150.00
	Total	150.00

3. As per Government order 2/7/2014-4IBII dated. 01.12.2014 purchase may be done through High Powered Purchase Committee.

4. The material shall be purchased as per instructions issued by Govt of Haryana Industry and Commerce Department's letter no. 2/7/2006-4IBII dated. 30.06.2011 and purchase policy/procedure vide no. 2/1/2004-4IBII dated 06.05.2015 alongwith latest amendments.

5. You are requested to take necessary action accordingly.

Sub Divisional Engineer-III,
for, Director, Urban Local Bodies,
Haryana, Panchkula.

No. TA/DULB/SDE-III/2016/

Dated:

A copy of the above is forwarded to following for information & necessary

1. EE-I (HQ).
2. The Account Officer, (Budget) HQ.

Sub Divisional Engineer-II.,
for Director...

5.7 Allotment of Works under Ashiana Housing Scheme for Urban Poor

Agree No. 2137

KNL.

From

The Executive Engineer,
HUDA Division, Karnal

To

M/s Garg & Co.,
207/19 Vivekanand Nagar,
Jind.

Memo No. 2137 Dated 11-9-14

Subject: Construction of 264 nos. of four storied houses (EWS units) for complete in all respect as per scope of work defined in DNIT on trunkey basis including providing infrastructure facilities namely plumbing, water supply , sewerage, electrification, storm water drainage, roads, parking, fire fighting services, boundary wall, external electrical services, parks and Horticulture, Roof top Rain water harvesting system within the premises earmarked for above building and and construction of pre-fabricated huts and toilets with public health and electrical installation complete in all respect and all other works contingent the reto in blocks sec. 14-II U.E., Karnal" (including one year mtc. of defect liability period free of cost) and including pre-fabricated 9 No. and 5 Nos. toilet block.

E/Money Rs. 2550000/-

Ref:- Your tender dated 25.08.2014, negotiation held on 26.08.2014 and rates of cement and steel on the date of opening of tender as per DNIT submitted by you (Job No. 72) for the work cited as above

Under the authority of Chief Engineer, HUDA Panchkula memo No. 10478 dated 27.08.2014 conveyed vide Superintending Engineer, HUDA Circle, Karnal Endst. No. 6336 dated 27.08.2014 of acceptance of your tender referred to above which interalia contains the following terms and conditions is hereby conveyed:-

Sr. No.	Description	qty.	Rate (in Rs.)	Amount (in Rs.)
1.	Construction of four storied houses (EWS Units) complete in all respect as per scope of work defined in DNIT on turnkey basis including providing infrastructure facilities namely, plumbing, water supply, sewerage, electrification, storm water drainage, roads, parking, fire fighting service , boundary wall, external electrification services, parks and horticulture works, roof top rain water harvesting system within the premises earmarked as per marked in the enclosed layout plants as directed as well as per satisfaction of Engineer-in-charge.	264 Nos.	563000.00 Each	148632000.00
2.	Construction of fabricated huts of size	9 Nos.	Free of cost	0.00

	24'x16' for 11 persons/each complete with cement concrete 1:1:5:3 flooring and electric installations as per appended drawing and design complete in all respects as per satisfaction of Engineer-in-charge.			
3.	Construction of fabricated toilet block for 20 person size 16'x12' each complete with C. conc. 1:1:5:3 flooring internal & external electric installation and public health services construction of septic tank sockpit prov. and fixing of HDPE water tank 1000 ltr. capacity etc. as per public health std. design as per approved drawing complete in all respect as per satisfaction of Engineer-in-charge.	5 Nos.	Free of cost	0.00

TERMS & CONDITIONS:- As per approved DNIT

Time Limit:- The time limit for the due completion of the above said work is 15 (fifteen) months to be reckoned w.e.f the date of allotment.

You are requested to contact the Sub Divisional Engineer, HUDA Sub Division No.I, Karnal for taking the nishans and start the work immediately.

Documents containing the detailed terms and conditions of the contract which stands concluded with this communication are under preparation and you are requested to attend this office on any working day to sign the same within fifteen days from the date of issue of this communication.

Please take note that no payment shall be made to you, unless the documents mentioned above are signed by you.

Receipt of this letter may please be acknowledged.

FOR AND ON BEHALF OF HUDA

(Y.M. Mehra)
Executive Engineer,
HUDA Division, Karnal

Endst. No. 2193 **Dated-** 11-9-14

A copy of the above is forwarded to the following for information and necessary action :-

1. The Chief Engineer, HUDA Panchkula memo No. 10478 dt. 27.08.2014
2. The Superintending Engineer, HUDA Circle Karnal w.r to his letter No. 6336 Dt 27.08.2014.

3-i). The Sub Divisional Engineer, HUDA Sub Division No.I, Karnal. It is intimated that the expenditure for the due completion of the whole scope of work will be restricted to the tune of Rs.14,86,32,000/- (Rupees Fourteen Crore Eighty six lacs thirty two thousand Only) for complete job with one year mtc. & defect liability period free of cost and no excess liability will be allowed to be incurred on the above work without the prior approval of the competent authority in writing and this has a reference to your office memo No. 2668 dt. 10.09.2014.The bill may be got prepared after verifying the rates of cement/steel from the company.

ii) The work should be got executed according to the scope of provision in the administratively approved estimate departmental and technical memos and subject to usual financial and procedural regularities. At no point of time expenditure should exceed the amount in which the work has been administratively approved.

CO14166

iii) You are restrained from affecting changes/modifications in the DNIT specifications at his own level, should exigencies of work site conditions warrant a change prior approval of the competent authority would be necessary

iv) Terms conditions as stipulated in the approved DNIT (read with letter approving the DNIT) are anticipation and binding on all concerned.

Permission to take the work in hand in anticipation of technical sanction of detailed estimate be sought on the prescribed Performa.

v) 100% check measurement will be made by the S.D.E concerned at site before making the payment.

vi) The N.I.T for the above work is sent herewith.

vii) The instructions issued by this office letter No. 9558 dated 07.08.2014 conveying approvals to the DNIT will also apply.

viii) The instructions circulated by C.E., HUDA Panchkula vide letter No. 8181-82 dt. 7.8.1995 and 9634-35 dt. 22.9.1995 will invariably be followed meticulously.

ix) The work will be taken up in hand for execution after getting technical clearance connected with the work from the competent authority.

x) Affidavit be got filled up properly from the lowest contractor.

xi) No change of specification will be allowed to be done on the work by Superintending Engineer/Executive Engineer, concerned at his own level, without the prior permission of this office in writing.

xii The work will be taken in hand only after approval of work design and drawing by Superintending Engineer.

xiii) The instruct tions issued vide while conveying approval to terms of reference will also aply.

xiv) There will be no excess over the provision made in approved estimate for the work which will be ensured by the Executive Engineer, concerfned.

xv) Third party inspection will be got done from M/s Shri Ram Institute as per instructions/guideilnes issued vide this office letter No. 15269-312 dated 09.11.2012 @ 0.40% of cost of work for which separate agreement will be made by Executive Engineer concerned with M/s Shri Ram Institute as per instructions already issued.

xvi) The de-escalation charges of cement and steel shall be recovered from agency as per DNIT/agreement clause on actual basis.

xvii) The total price excalation (if payable) for cement and steel shall be restricted to Rs. 47.00 lacs (maximum) as per consent given agency and total payment to agency shall not exc eed Rs. 47,00,000/-(Rs. Fourty seven lacs) on account of excalation. The excalation charges will be paid only after getting the approval from Chief Engineer.

xviii) The market rates of cement of make such as Shree Cement make 43 grade OPC on dated 25.08.2014 tender opening date as per original bill invoice submitted by the agency and the rates to steel of SAIL is 8mm dia 50000/- 10mm dia 49000/- 12 to 16mm dia 48500/- 20 to 32mm 48000/- per M.T. and for RINL 8mm dia 51600/- 10mm dia 50600/- 12mm dia 49700/- 16mm 49200/- 20to 32mm 48700/- these above rates are including of Vat 5% and FOR at site (Karnal) and unloading will be borne by the agency @ Rs. 70/- per M.T. . These rates would considered as base rate for cement and steel for calculating of escalation and de-escalation of prices on cement and steel.

4. Divisional Accountant HUDA Division Karnal. The DAC No 2330897 dt. 23.08.2014 amounting to Rs. 2550000/- is enclosed herewith.

5. Head Draftsman HUDA Division Karnal.

6. Dy. Suptt. HUDA Division Karnal for preparing the agreement.

7. M.I.S. Karnal.

Executive Engineer,
HUDA Division, Karnal.
Dated-

Endst No.

A copy of the above is forwarded to Executive Engineer, HUDA Vigilance, Panchkula for information.

Executive Engineer,
HUDA Division, Karnal.

5.8 State grants for Solid Waste Management

शहरी स्थानीय निकाय निदेशालय हरियाणा

DIRECTORATE OF URBAN LOCAL BODIES HARYANA

Bay No. 11-14, Sector-4, Panchkula, Haryana
Tel.: +91-172-2570020 ; Fax: +91-172-2570021
website: www.ulbhry.gov.in ; email: dulbhry@hry.nic.in

सेवा में

1. आयुक्त
सभी नगर निगम हरियाणा राज्य (नगर निगम, गुडगावां को छोड़कर)।
2. कार्यकारी अधिकारी / सचिव
सभी नगरपरिषदें / नगरपालिकाएं हरियाणा राज्य।

यादी क्रमांक : बीएण्ड—4/2015/ 16482-563
दिनांक : 12-3-15

Subject:- Release of balance funds under the major Head Normal P-01-15-2217-80-800-86-99 Urban Solid Waste Management Grant-in-aid for the year 2014-15.

उपरोक्त विषय के संदर्भ में।

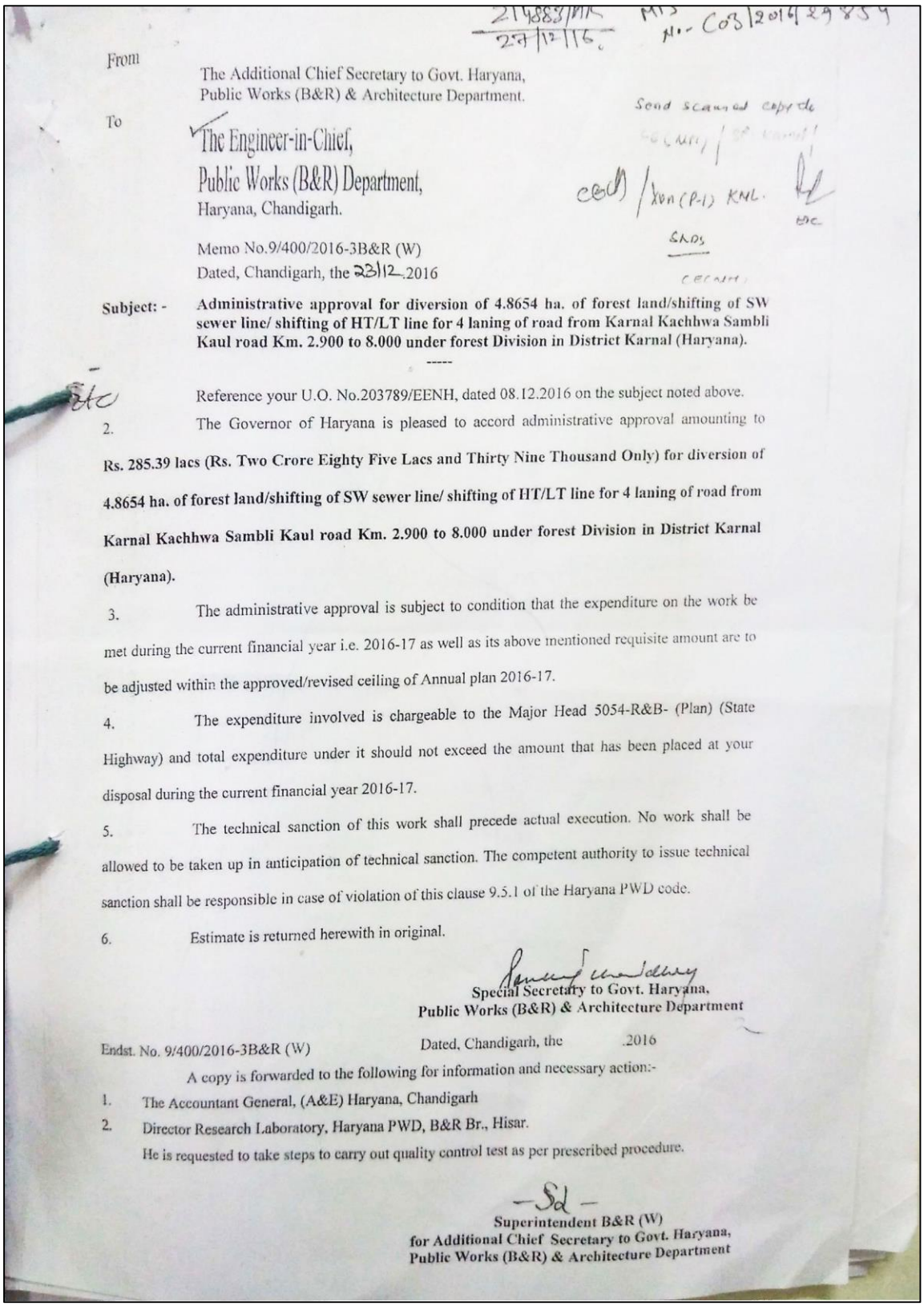
2. विषय वर्णित स्कीम के अंतर्गत सरकार के स्वीकृति पत्र यादी क्रमांक 6/3/2015-4सी1, दिनांक 11.03.2015 जिसकी प्रति आपको पृथकतिल है, में दर्शाई गई अनुदान राशि दिनांक 21.03.2015 को आरटीजीएस के माध्यम से पालिका के खाते में भेज दी गई है, जिसका विवरण निम्न प्रकार से है:—

Name of Distt.	Sr. No.	Name of Municipalities	Amount to be released (Rs.In Lacs)
1	2	3	4
AMBALA	1	AMBALA CORP.	100.00
	2	NARAINGARH	6.40
BHIWANI	3	BHIWANI	48.00
	4	BAWANI KHERA	6.40
	5	CHARKHI DADRI	6.40
	6	LOHARU	6.40
	7	SIWANI	6.40
FARIDABAD	8	FARIDABAD CORP	59.60
FATEHABAD	9	BHUNA	6.40
	10	FATEHABAD	6.40
	11	RATIA	6.40
	12	TOHANA	32.00
GURGAON	13	FARUKH NAGAR	6.40
	14	HAILY MANDI	6.40
	15	PATAUDI	6.40
	16	SOHNA	6.40
HISAR	17	HISAR CORP.	40.00
	18	BARWALA	6.40
	19	HANSI	32.00
	20	NARNAUND	6.40
	21	UKLANA MANDI	6.40
JHAJJAR	22	BAHADURGARH	40.00
	23	BERI	6.40
	24	JHAJJAR	6.40
JIND	25	JIND	32.00
	26	JULANA	6.40
	27	NARWANA	32.00
	28	SAFIDON	6.40
	29	UCHANA	6.40
KAITHAL	30	KAITHAL	40.00
	31	CHEEKA	6.40
	32	KALAYAT	6.40
	33	PUNDRI	6.40
	34	RAJAUND	5.80
KARNAL	35	KARNAL CORP.	100.00

6 Compilation of Development Works/Projects in Karnal

6.1 Development of Roads in Karnal

6.1.1 Four Laning of Karnal Kachhwa Sambli Kaul Road



From

The Additional Chief Secretary to Govt. Haryana,
Public Works (B&R) & Architecture Department.

To

The Engineer-in-Chief,
Public Works (B&R) Department,
Haryana, Chandigarh.

Memo No.9/400/2016-3B&R (W)
Dated, Chandigarh, the 23/12/2016

Subject: - **Administrative approval for diversion of 4.8654 ha. of forest land/shifting of SW sewer line/ shifting of HT/LT line for 4 laning of road from Karnal Kachhwa Sambli Kaul road Km. 2.900 to 8.000 under forest Division in District Karnal (Haryana).**

Reference your U.O. No.203789/EENH, dated 08.12.2016 on the subject noted above.

2. The Governor of Haryana is pleased to accord administrative approval amounting to **Rs. 285.39 lacs (Rs. Two Crore Eighty Five Lacs and Thirty Nine Thousand Only) for diversion of 4.8654 ha. of forest land/shifting of SW sewer line/ shifting of HT/LT line for 4 laning of road from Karnal Kachhwa Sambli Kaul road Km. 2.900 to 8.000 under forest Division in District Karnal (Haryana).**

3. The administrative approval is subject to condition that the expenditure on the work be met during the current financial year i.e. 2016-17 as well as its above mentioned requisite amount are to be adjusted within the approved/revised ceiling of Annual plan 2016-17.

4. The expenditure involved is chargeable to the Major Head 5054-R&B- (Plan) (State Highway) and total expenditure under it should not exceed the amount that has been placed at your disposal during the current financial year 2016-17.

5. The technical sanction of this work shall precede actual execution. No work shall be allowed to be taken up in anticipation of technical sanction. The competent authority to issue technical sanction shall be responsible in case of violation of this clause 9.5.1 of the Haryana PWD code.

6. Estimate is returned herewith in original.

Special Secretary to Govt. Haryana,
Public Works (B&R) & Architecture Department

Endst. No. 9/400/2016-3B&R (W) Dated, Chandigarh, the .2016

A copy is forwarded to the following for information and necessary action:-

1. The Accountant General, (A&E) Haryana, Chandigarh
2. Director Research Laboratory, Haryana PWD, B&R Br., Hisar.

He is requested to take steps to carry out quality control test as per prescribed procedure.

-Sd-

Superintendent B&R (W)
for Additional Chief Secretary to Govt. Haryana,
Public Works (B&R) & Architecture Department

6.1.2 Widening of Karnal Indri Ladwa Road

MIS. No.- C03/2016/29855-214880/HR
27/12/16

From

The Additional Chief Secretary to Govt. Haryana,
Public Works (B&R) & Architecture Department.

To

The Engineer-in-Chief,
Public Works (B&R) Department,
Haryana, Chandigarh.

Send scanned copy to CE(NH)/ SE-KNL/ CE(W)/ XEN(P-I) KNL for EC

SAPS

CE(NH)

Memo No.9/399/2016-3B&R (W)
Dated, Chandigarh, the 23/12 .2016

Subject:- **Administrative approval for diversion of 33.397 ha. (excluding 12.52 ha. of Yamunanagar Forest Division and 6.54 ha. of Kurukshetra Forest Division out of total 52.457 ha.) of forest land in favour of PWD B&R Haryana for widening & Strengthening Karnal-Indri-Ladwa road Km. 0 to 27.850 (SH-07) under Forest Division in District Karnal (Haryana).**

Reference your U.O. No.203792/EENH, dated 08.12.2016 on the subject noted above.

2. The Governor of Haryana is pleased to accord administrative approval amounting to **Rs. 11.17 Crore (Rs. Eleven Crore Seventeen Lacs Only) for diversion of 33.397 ha. (excluding 12.52 ha. of Yamunanagar Forest Division and 6.54 ha. of Kurukshetra Forest Division out of total 52.457 ha.) of forest land in favour of PWD B&R Haryana for widening & Strengthening Karnal-Indri-Ladwa road Km. 0 to 27.850 (SH-07) under Forest Division in District Karnal (Haryana).**

3. The administrative approval is subject to condition that the expenditure on the work be met during the current financial year i.e. 2016-17 as well as its above mentioned requisite amount are to be adjusted within the approved/revised ceiling of Annual plan 2016-17.

4. The expenditure involved is chargeable to the Major Head 5054-R&B- (Plan) (State Highway) and total expenditure under it should not exceed the amount that has been placed at your disposal during the current financial year 2016-17.

5. The technical sanction of this work shall precede actual execution. No work shall be allowed to be taken up in anticipation of technical sanction. The competent authority to issue technical sanction shall be responsible in case of violation of this clause 9.5.1 of the Haryana PWD code.

6. Estimate is returned herewith in original.

Special Secretary to Govt. Haryana,
Public Works (B&R) & Architecture Department

Endst. No. 9/399/2016-3B&R (W) Dated, Chandigarh, the .2016

A copy is forwarded to the following for information and necessary action:-

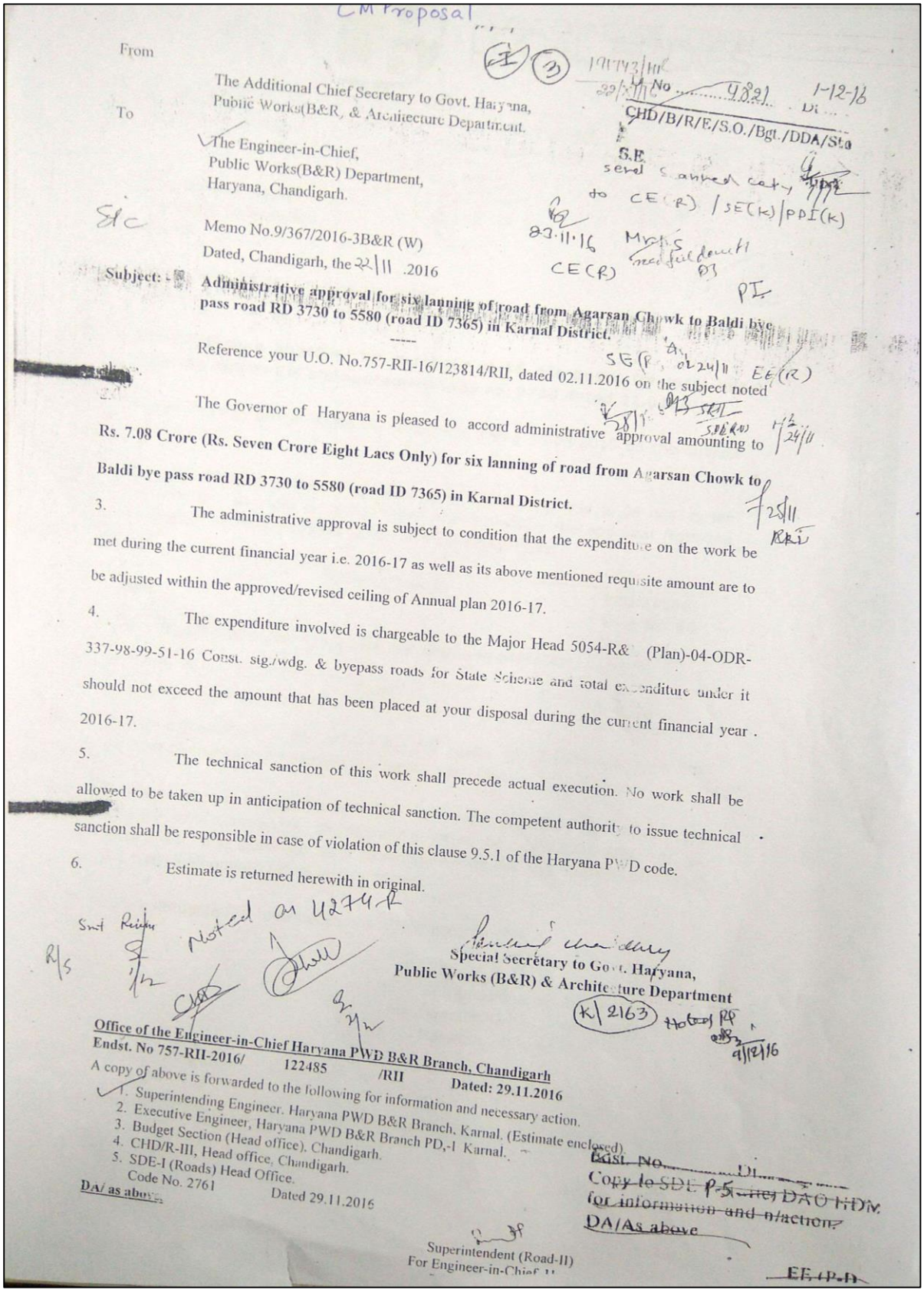
1. The Accountant General, (A&E) Haryana, Chandigarh
2. Director Research Laboratory, Haryana PWD, B&R Br., Hisar.

He is requested to take steps to carry out quality control test as per prescribed procedure.

-Sd-

Superintendent B&R (W)
for Additional Chief Secretary to Govt. Haryana,
Public Works (B&R) & Architecture Department

6.1.3 Six laning of Road from Agrasen Chowk to Baldi bye-pass Road



CM Proposal

From

The Additional Chief Secretary to Govt. Haryana,
Public Works(B&R) & Architecture Department.

To

The Engineer-in-Chief,
Public Works(B&R) Department,
Haryana, Chandigarh.

Memo No.9/367/2016-3B&R (W)
Dated, Chandigarh, the 22/11 .2016

Subject: Administrative approval for six lanning of road from Agarsan Chowk to Baldi bye pass road RD 3730 to 5580 (road ID 7365) in Karnal District.

Reference your U.O. No.757-RII-16/123814/RII, dated 02.11.2016 on the subject noted

The Governor of Haryana is pleased to accord administrative approval amounting to **Rs. 7.08 Crore (Rs. Seven Crore Eight Lacs Only) for six lanning of road from Agarsan Chowk to Baldi bye pass road RD 3730 to 5580 (road ID 7365) in Karnal District.**

3. The administrative approval is subject to condition that the expenditure on the work be met during the current financial year i.e. 2016-17 as well as its above mentioned requisite amount are to be adjusted within the approved/revised ceiling of Annual plan 2016-17.

4. The expenditure involved is chargeable to the Major Head 5054-R& (Plan)-04-ODR-337-98-99-51-16 Const. sig./wdg. & byepass roads for State Scheme and total expenditure under it should not exceed the amount that has been placed at your disposal during the current financial year 2016-17.

5. The technical sanction of this work shall precede actual execution. No work shall be allowed to be taken up in anticipation of technical sanction. The competent authority to issue technical sanction shall be responsible in case of violation of this clause 9.5.1 of the Haryana PWD code.

6. Estimate is returned herewith in original.

Special Secretary to Govt. Haryana,
Public Works (B&R) & Architecture Department

Office of the Engineer-in-Chief Haryana PWD B&R Branch, Chandigarh
Endst. No 757-RII-2016/ 122485 /RII Dated: 29.11.2016

A copy of above is forwarded to the following for information and necessary action.

1. Superintending Engineer, Haryana PWD B&R Branch, Karnal. (Estimate enclosed)
2. Executive Engineer, Haryana PWD B&R Branch PD,-I Karnal.
3. Budget Section (Head office). Chandigarh.
4. CHD/R-III, Head office, Chandigarh.
5. SDE-I (Roads) Head Office.

Code No. 2761 Dated 29.11.2016

DA/ as above

Superintendent (Road-II)
For Engineer-in-Chief

6.2 Skill development cooperation with Japan

From

The Director of Industries & Commerce, Haryana
30 Bays building, First Floor, Sector-17, Chandigarh

To

All the Joint Director,
District Industries Centres in the Haryana State.

Memo No. TS/Skill Development/ 3619-A
Dated Chandigarh the/ 10/03/2016

Subject: Cooperation with Japan in Skill Development.

Kindly refer the subject cited above.

2. Please find enclosed herewith a copy of letter dated 25.12.2016 received from the Ambassador of India on the subject cited above.

It is requested to coordinate with all the Industries Associations in your district and to give inputs within seven days, so that the further action may be taken in the matter.

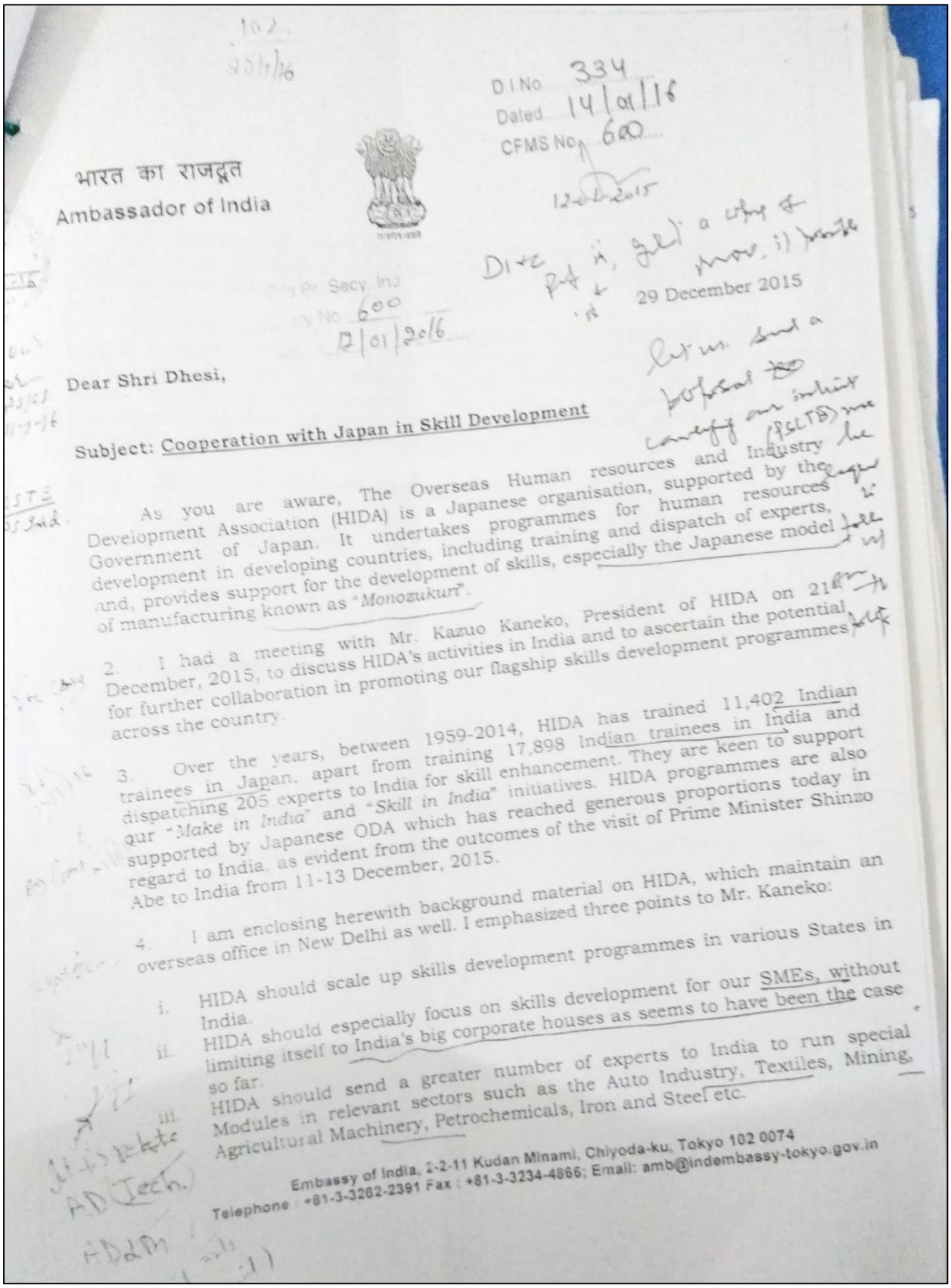
Enclosed: As above

Deputy Director (Tech.)
for Director of Industries & Commerce, Haryana

Endst. No. TS/Skill Development/ Dated:

A Copy is forwarded to the All Industries Association in the Haryana State with the request to send your suggestions in matter at the earliest to this office.

Sd.
Deputy Director (Tech.)
for Director of Industries & Commerce, Haryana



भारत का राजदूत
Ambassador of India

D.I.No. 334
Dated 14/01/16
CFMS No. 600

29 December 2015

Dear Shri Dhesi,

Subject: Cooperation with Japan in Skill Development

As you are aware, The Overseas Human resources and Industry Development Association (HIDA) is a Japanese organisation, supported by the Government of Japan. It undertakes programmes for human resources development in developing countries, including training and dispatch of experts, and, provides support for the development of skills, especially the Japanese model of manufacturing known as "*Monozukuri*".

2. I had a meeting with Mr. Kazuo Kaneko, President of HIDA on 21st December, 2015, to discuss HIDA's activities in India and to ascertain the potential for further collaboration in promoting our flagship skills development programmes across the country.

3. Over the years, between 1959-2014, HIDA has trained 11,402 Indian trainees in Japan, apart from training 17,898 Indian trainees in India and dispatching 205 experts to India for skill enhancement. They are keen to support our "*Make in India*" and "*Skill in India*" initiatives. HIDA programmes are also supported by Japanese ODA which has reached generous proportions today in regard to India, as evident from the outcomes of the visit of Prime Minister Shinzo Abe to India from 11-13 December, 2015.

4. I am enclosing herewith background material on HIDA, which maintain an overseas office in New Delhi as well. I emphasized three points to Mr. Kaneko:

i. HIDA should scale up skills development programmes in various States in India.

ii. HIDA should especially focus on skills development for our SMEs, without limiting itself to India's big corporate houses as seems to have been the case so far.

iii. HIDA should send a greater number of experts to India to run special Modules in relevant sectors such as the Auto Industry, Textiles, Mining, Agricultural Machinery, Petrochemicals, Iron and Steel etc.

Embassy of India, 2-2-11 Kudan Minami, Chiyoda-ku, Tokyo 102 0074
Telephone : +81-3-3262-2391 Fax : +81-3-3234-4866; Email: amb@indembassy-tokyo.gov.in

6.3 Approval for running a Solid Waste Plant – Segregation and Compost

नगर निगम करनाल

Subject : Proceedings of the meeting held under the chairmanship of Smt. Renu Bala Gupta, Mayor Municipal Corporation Karnal on 02-03-2017 at 2.30 pm regarding evaluation of the technical bids of the work for makeshift running of Municipal Solid Waste Management Plant at Shekhpura Karnal (upon the termination of the work agreement between Hydro Air Tectonics pvt. ltd. and Municipal Corporation Karnal) till finalization of integrated Solid Waste Management Project for Karnal cluster by Government to avoid contempt of Hon'ble NGT orders.

The following attended the meeting

1. Dr. Aaditya Dahiya IAS, Commissioner Municipal Corporation Karnal.
2. Sh. Krishan Garg, Sr. Deputy Mayor, Municipal Corporation Karnal.
3. Sh. D.R.Bhaskar, Superintending Engineer, Municipal Corporation Karnal.
4. Sh. Mahipal Singh, Executive Engineer-1, Municipal Corporation Karnal.
5. Sh. Dheeraj Kumar, Executive Officer, Municipal Corporation Karnal.

The e-tenders were invited for the subject mentioned work and due date for closing of downloading and submission of bids was 01-03-2017 upto 5 pm. Now the technical bids uploaded by 5 no. firms have been downloaded from the website of www.haryanaeprocurement.gov.in . The name of firms are as under :

1. Jain Hydrolics Pvt. Ltd. Paharganj, New Delhi.
2. Proton Enviro Solutions Pvt. Ltd. Gurgaon.
3. Patheya, Palam Road, New Delhi.
4. Aakansha Enterprises, Dwarka, New Delhi.
5. Ding Manpower & Securities Services Pvt. Ltd.

M/s Proton Environ Gurgoan are not eligible. Hence the it was decidedunanimously that only three out of The above 5 no firms have submitted the bids online and before opening the financial bids it was required to open the technical bids and evaluate the same. So the technical bids of the above mentioned firms have been downloaded from the website. The technical evaluation bids were opened in presence of above and it is found that two no. firms namely (i) M/s Ding Man Power supply and securities & Mfirms which are found eligible the financial bids of these firms be opened for comparison.

Therefore the financial bids of three companies were opened out of which the rates of the Akanksha Enterprises New Delhi was found lowest i.e. Rs. 11325000/- per year. The negotiation was conducted before of all the above members with the said agency. The agency gave their negotiated rate which comes to Rs. 99.00 lacs per year. All the members satisfied and agreed with the negotiated rates. It was also decided that the letter of intent be issued immediately to the said agency in anticipation of approval of Govt. for compliance of NGT orders and the Govt. may also be informed accordingly.

The meeting ended with the vote of thanks to chairperson.

Executive Engineer 2.3.17 | Chief Sanitary Inspector 2/3/17 | Sanitary Inspector 2/3/17

Superintending Engineer 2/3/17 | Commissioner 2/3/17 | Sr. Deputy Mayor

Mayor

Ph. No. 0184-2254220, 2250127,
Fax No. 0184-4044504,
e-mail ID: nagarnigamkarnal@gmail.com
website: www.mckarnal.org.

कार्यालय नगर निगम,करनाल

No. 766 /E/MCK E-Mail By Regd. Dated: 7/3/17

Letter of Intent

To

M/s AAKANKSHA ENTERPRISES,
PLOT NO. 62, NASIRPUR VILLAGE, PALAM,
NEW DELHI-110045.
E-MAIL: - aakankshaenterprises77@gmail.com
Mob. No: - 92121-26877, 98913-75857.

Name of Work: - **RUNNING OF SOLID WASTE MANAGEMENT AT SHEIKHPURA PLANT FOR A PERIOD OF ONE YEAR OR TILL FINALIZATION OF INTEGRATED SOLID WASTE MANAGEMENT PROJECT – SEGREGATION OF GARBAGE AND RUNNING OF PLANT WITH COMPOSTING UNDER MUNICIPAL CORPORATION, KARNAL.**

In reference your e-tender bid regarding Tender ID 34152 dated 13.02.2017 for the above said work and your negotiation dt. 02.03.2017. The Committee of Municipal Corporation, Karnal has accepted your negotiated rates along with terms and conditions given below:-

Sr. No.	DESCRIPTION	UNIT	AMOUNT (Inclusive of all taxes)
A	Infrastructural development cost: - (i) Repair of existing Machineries and Vehicles. (ii) Plastic separator and plastic molder into cake.	One Time Charges	12,00,000.00
B	Charges for Segregation and composting	Per Month	6,60,000.00
C	Service Charges for the Contractor.	Per Month	65,000.00

Term of contract :-

1. The term of contract shall be of one year or till the finalization of the Integrated Solid Waste Management Project at Karnal Cluster by the Govt. The contractor will have no

o/c

ANNEXURE "A"

IINVENTORY SHEET OF SOLID WASTE MANAGEMENT PROJECT AT VILL. SHEKHPURA, KARNAL

SR.	PARTICULARS	MAKE	NO.
	MOVEABLE ASSETS		
1	FRONT LOADER WITH BACK HOE (JCB)	J.C.B	1
2	TRACTOR WITH FRONT LOADER	SONALIKA	2
	IMMOVEABLE ASSTES		
1	**PRE-SEGREGATION UNIT**		
	(I) MOTORS		
	5 H.P	ABB	1
	3 H.P	ABB	4
	(II) CONVEYOR BELTS		4
2	**POST-SEGREGATION UNIT**		
	(I) MOTORS		
	5 H.P	ABB	2
	3 H.P	ABB	7
	(II) CONVEYOR BELTS		7
3	**REFINEMENT SECTION**		
	(I) MOTORS		
	5 H.P	ABB	1
	3 H.P	ABB	6
	(II) CONVEYOR BELTS		2
4	**RDF UNIT**		
	(I) MOTORS		
	40 H.P	CROMPTON GREAVOS	1
	30 H.P	CROMPTON GREAVOS	1
	5 H.P	ABB	3
	3 H.P	ABB	10
	(II) CONVEYOR BELTS		8
5	SUBMERSIBLE PUMP (20 H.P)	KIRLOSKAR	1
6	WEIGH BRIDGE OF CAPACITY (60MT)		1

Executive Engineer
M.C Karnal

Chief Sanitary Inspector
M.C Karnal

Sanitory Inspector
M.C Karnal

6.4 Free Wi-Fi at Five Parks in Karnal

नगर निगम, करनाल

Subject: Free Wifi in 5 Parks of Karnal City under MCK Area.

In compliance of CM Announcement for Identification of parks for development/ renovation under Swaran Jayanti Year and a part of its smart city initiatives Municipal Corporation Karnal intends to provide free Wi-Fi services to its citizens at selected parks. MCK has planned to build Wi-Fi spots within Karnal Municipal Corporation Area.

The objective is to providing the Wi-Fi services at the identified location on a PPP (public private partnership) basis to the citizens at either zero cost to MCK or potentially as a source of revenue for MCK also provide better governance improve the operational efficiency and easily interact with citizens viz.

- Introduction of Mobile Governance
- Provide customize alerts
- Disseminate information such as weather warning, traffic alerts, security alerts etc.

Therefore, It is proposed to implement initially 5 parks of Karnal City for the Wi-Fi access points.

S.No.	Name & Address of Parks
1.	Vivekananda Park, Ramnagar, Karnal
1.	Karan Park, Near Bus Stand, Karnal
3.	Park, Opp. Shyamalsen hospital, Sec. 13, Karnal
4.	Park No. 2, Park Avenue, Sec 13, Karnal
5.	Park, Opp. Dy. Mayor house, Sec 13, Karnal

Report is submitted for your kind perusal for n/a please.

Gaurav
17/10/16

Gaurav Aggarwal
I.T. Cell Incharge/ ITM

XEN/1

May kindly approve as proposed.

S/E

Mahipal Singh
XEN

May allow to invite short notice EOI through E-tender and advertising in 2 No. local news papers.

17/10/16

D.R. BHASKAR
Superintending Engineer

Hd, CMC

Approved.

Dr. Aditya Dahiya, IAS

6.5 Proposal to provide free Wi-Fi in additional 20 parks

नगर निगम, करनाल

Subject: Free Wi-Fi in 8 Public Spots of Karnal City under Municipal Corporation Karnal Area.

In compliance of CM Announcement for Identification of public spots for development/ renovation under Swaran Jayanti Year and a part of its smart city initiatives Municipal Corporation Karnal intends to provide free Wi-Fi services to its citizens at selected public spots. Municipal Corporation Karnal has planned to build Wi-Fi spots within Karnal Municipal Corporation Area.

The objective is to providing the free Wi-Fi services at the identified location to provide better governance, improve the operational efficiency and easily interact with citizens viz.

- Introduction of E-Governance
- Provide customize alerts
- Disseminate information such as weather warning, traffic alerts, security alerts etc.

Therefore, It is proposed to implement free Wi-Fi services at 8 Public Spots of Karnal City for the Wi-Fi access points.

S.No.	Name & Address of Public Places/Spots/Parks
1.	Local Bus Stand, Karnal
2.	Musical Phuwara Park, Mugal Canal, Karnal
3.	Jarnaili Colony Park, Ward No. 11, Karnal
4.	SantKabir Park, Ward No.11, Karnal
5.	Dyal Singh Colony Park, Ward no. 11, Karnal
6.	Park-1,Ward 12, Karnal
7.	Park-2, Ward 12, Karnal
8.	Park-3, Ward 12, Karnal

Report is submitted for your kind perusal for n/a please.

SUNIL BHALLA
Assistant Engineer-II

A.E. III

Gaurav Aggarwal
I.T. Cell Incharge/ ITM

May kindly allow.

May approve as proposed above pl.

Approved

D.R. BHASKAR
Superintending Engineer

XEN-1 / ITM

नगर निगम करनाल

Subject: Free Wi-Fi in 5 Public Spots of Karnal City under Municipal Corporation Karnal Area.

In compliance of CM Announcement for Identification of public spots for development/ renovation under Swaran Jayanti Year and a part of its smart city initiatives Municipal Corporation Karnal intends to provide free Wi-Fi services to its citizens at selected public spots. Municipal Corporation Karnal has planned to build Wi-Fi spots within Karnal Municipal Corporation Area.

The objective is to providing the free Wi-Fi services at the identified location to provide better governance, improve the operational efficiency and easily interact with citizens viz.

- Introduction of E-Governance
- Provide customize alerts
- Disseminate information such as weather warning, traffic alerts, security alerts etc.

Therefore, It is proposed to implement free Wi-Fi services at 5 Public Spots of Karnal City for the Wi-Fi access points.

S.No.	Name & Address of Public Places/Spots/Parks
1.	Park Opp. Shop No. 111 to 123, Mughal Canal, Karnal
2.	Kalpana Chawla Park, Model Town Ward No. 3, Karnal
3.	Pranami Park, Ward No 3, Karnal
4.	Park in Sec 9, Ward 3, Karnal
5.	Kashmira Singh Park, Ward No. 19, Karnal

Report is submitted for your kind perusal for n/a please.

17/1/17
A.E.-I

17/1/17
SUNIL BHALLA
Assistant Engineer-II

17/01/17
Gaurav Aggarwal
I.T. Cell Incharge/ ITM

Xen-1

May kindly allow
17.1.17

S.E.

May approve as proposed above pl.

Ld. CMC

D.R. BHASKAR
Superintending Engineer

Approved.
20/1/17

Received Today
6/2/17

SE
XEN-1 ITM AITM 6/2

6.6 Draft Vending Policy, Haryana

Government of Haryana
Urban Local Bodies Department
Notification

The 31st January, 2017

Notification No.2/2/2017-RII:-In exercise of the powers conferred by section 36 of the Street Vendors (Protection of Livelihood and Regulation of Street Vending) Act, 2014 (Central Act 7 of 2014), the Governor of Haryana hereby makes the following rules for regulating street vending activities in the State of Haryana, namely: –

Short title and applicability

1. (1) These rules may be called the Haryana Street Vendors (Protection of Livelihood and Regulation of Street Vending) Rules, 2017.
(2) These rules shall apply to all municipalities and development authorities in urban areas of the State of Haryana.

Definitions

2. (1) In these rules, unless the context otherwise requires,-
(a) "Act" means the Street Vendors (Protection of Livelihood and Regulation of Street Vending) Act, 2014 (Central Act 7 of 2014);
(b) "Commissioner" means the Commissioner of municipal corporation;
(c) "competent authority" means Commissioner in case of municipal corporation, Deputy Commissioner in case of municipal council/ committee and Zonal Administrator in case of a planning authority in the State, as the case may be;
(d) "Form" means the form appended with these rules;
(e) "municipality" means a municipality as defined in the Haryana Municipal Act, 1973 (24 of 1973) and in the Haryana Municipal Corporation Act, 1994 (16 of 1994);
(f) "public purpose" includes,-
(i) widening of the roads, streets, lanes;
(ii) shifting the alignment of roads, streets, lanes;
(iii) erecting of flyovers with or without clover leaves and slip down roads;
(iv) detecting underpasses;
(v) development of land for the purpose for which it has been reserved or acquired for any public project;
(vi) implementation of town planning schemes;
(vii) laying off water, storm water or civil lines, electric lines including towers;
(viii) erecting intermediate pumping stations for the services;
(ix) public conveniences;
(x) any project related with public transport like Bus Rapid Transit System (BRTS), Metro, etc.;
(xi) construction of housing for Economically Weaker Section;
(xii) creation of parks, gardens and recreational areas;
(xiii) conservation of any ecosystem in an area;
(xiv) any other development work taken by the development authority/ municipality for the benefit of public at large.
(g) "State Nodal Officer" means the Managing Director, State Urban Development Authority, Haryana;
(h) "urban area" means an urban area as defined in the Haryana Development and Regulation of Urban Areas Act, 1975 (8 of 1975).
(2) Words and expressions not defined in these rules but defined in the Act shall have the same meaning as assigned to them respectively in the Act.

Minimum age for street vending under Act

3. The minimum age of street vendor for street vending shall be eighteen years.

Town Vending Committee under section 22

4. (1) The competent authority shall constitute a Town Vending Committee in each municipality/ urban area and if required, may constitute more than one Town Vending Committee in each municipality/ urban area.
(2) The Town Vending Committee shall consist of the following, namely:-
(a) Commissioner in case of Municipal Corporation or Deputy Commissioner in case of Municipal Council/committee or Zonal Administrators in case of other planning authorities, as the case may be, shall be the chairperson;
(b) Additional Deputy Commissioner or his representative in case of Municipal Corporation or Sub Divisional Magistrate in case of Municipal Council/ Committee, as the case may be, shall be a member;
(c) Chief Medical Officer or any officer in-charge of the management of preventive health measures, shall be a member;
(d) Chief Town Planner or Senior Town Planner or District Town Planner, as per the availability at Municipal Corporation/ Municipal Council/ Municipal Committee/ other planning authority, shall be a member;
(e) Chief Engineer or Superintendent Engineer as per the availability at Municipal Corporation/ Municipal Council/ Municipal Committee/ other planning authority, shall be a member;
(f) two police officials, one from traffic police and other from local police, nominated by the Superintendent of Police, shall be members;
(g) Executive officer in case of Municipal Corporation, Secretary in case of Municipal Council/ Committee and Estate Officer in case of other planning authority, shall be a member;
(h) Fire officer or his representative in Municipal Corporation/ Municipal Council/ Municipal Committee/ other planning authority, shall be as a member;
(i) the Chairman/ Secretary/ Head or any nominated member of the Market Trade Associations/ Community-Based Organizations/ Resident Welfare Associations in town level, shall be a member;
(j) the Chairman/ Secretary/ Head or any nominated member, of Non-Government Organizations in town level, shall be appointed as member;
(k) one representative of any Nationalized Bank of city, shall be appointed as member;

1

(b) eight members in case of Municipal Corporation, eight members in case of Municipal Council/ Committee and six members in case of other planning authority, of the Town Vending Committee shall represent the street vendor who are carrying on street vending Activity:

Provided that one third of members representing the street vendors shall be from amongst women vendors:

Provided further that the representation shall be given to the Scheduled Castes, the Scheduled Tribes, the other backward classes, minorities and persons with disabilities from amongst the members representing street vendors.

(3) The Chairman shall appoint one of the members of Town Vending Committee, as the Secretary of Town Vending Committee.

5. (1) The competent authority shall publish a notice calling for applications for the membership of Town Vending Committee on its website and in at least two prominent local daily newspapers published in the local language of the area. A copy of the notice shall also be displayed in any conspicuous place in the local market or markets within the jurisdiction of the competent authority.

(2) The publication of such notice shall contain, amongst other things, the date of publication, the form for the application, qualification of the candidate, the last date for submission and the manner of submission of the application.

(3) The notice shall be published thirty days prior to the last date for the submission of applications for membership of the committee.

(4) Any person, being a head or any nominated member, of an association of street vendors, the Market Association, the Traders Association, non-Governmental Organization and community based organization and Resident Welfare Association is eligible to apply for membership of committee:

Provided that such person must have completed the age of 18 years, passed high school and had not been convicted by any court of law for any criminal offence.

(5) The competent authority may seek information, with respect to, particularly of the applicant and the details of work experience, particularly in the field of informal markets and street vending within the jurisdiction of the competent authority and such other information, as it may deem fit.

(6) If the applications are received for a particular category or more than the required numbers, the competent authority shall select the member on the basis of lottery. Such lottery shall be held in the presence of the interested parties. The date of draw be informed through advertisement in two leading newspapers in which requirement as per sub-rule (1) shall be published along with registered letter to the interested parties.

6. (1) The members for Town Vending Committee from street vendors shall be selected by conducting elections amongst street vendors of the area under the jurisdiction of the concerned competent authority.

(2) The competent authority shall appoint a Returning Officer not below rank of Haryana Civil Service (HCS) for conducting the election of street vendors in the area under the jurisdiction of the concerned competent authority.

(3) The returning officer appointed under sub- rule (2) shall conduct elections for the members of the Town Vending Committee, amongst street vendors in the manner provided under Schedule-I appended to these rules.

(4) The names of the elected members along with other members nominated by the competent authority shall be notified in the Official Gazette.

7. (1) The term of Town Vending Committee unless sooner dissolved under rule 9 of these rules, shall be five years from the date of its constitution.

(2) The process of constituting a Town Vending Committee shall be completed within a period of six months,-

(a) prior to expiry of its term; or

(b) in case of the dissolution, within a period of six months.

8. If in the opinion of the Government, any member of a Town Vending Committee persistently makes a defaults in the performance of his duties under the Act and these rules or exceeds or abuses his power, the Government may, by order, remove such member from the committee:

Provided that such member shall be given a reasonable opportunity of being heard before his removal.

9. If in the opinion of the Government, Town Vending Committee persistently makes defaults in the performance of duties imposed on it under the Act and these rules or exceeds or abuses its powers, the Government may, by order, dissolve such Town Vending Committee and constitute a fresh Town Vending Committee.

10. (1) No allowance is payable to the Chairperson and Government officer/ official, who is member of the Town Vending Committee.

(2) Non Official members of a Town Vending Committee shall be paid an allowance in the case of Rs. 1000/- (Rs. One thousand only) only for attending a meeting of the Town Vending Committee, or at such rate, as may be fixed by concerned competent authority from time to time.

11. (1) A Town Vending Committee shall ordinarily hold at least one meeting within a period of three months or at such intervals, as the Chairperson of the Town Vending Committee may decide for the transaction of its business:

Provided that the first meeting of a Town Vending Committee after its constitution under section 22 of the Act, shall be convened by the Chairperson within forty-five days.

(2) The meetings of a Town Vending Committee shall be held at the Headquarters of the competent authority or at such place within the jurisdiction of the competent authority, as may be decided by the Chairperson.

(3) The Town Vending Committee shall follow such procedure for transaction of its business, as may be decided by the Chairperson in consultation with the members.

(4) All the resolutions passed in the meeting of a Town Vending Committee shall be by a simple majority and

in case of special resolutions, by a majority of the total members of the Town Vending Committee and not less than two third of the members present and voting in the meeting.

12. (1) The Town Vending Committee shall perform following functions, namely: –
   (a) conduct surveys within the area of its jurisdiction to identify street vendors in the area and ensure their accommodation in accordance with the norms, plan and the holding capacity within area of its jurisdiction;
   (b) issue certificate of vending to an eligible street vendor after obtaining an undertaking from him to comply with the terms and conditions subject to which the certificate of vending is issued. For the issuance of certificate of vending the Town Vending Committee shall follow the criteria as specified in the scheme framed under section 38(1) of the Act;
   (c) cancel or suspend certificate of vending of street vendors who commit breach of any of the conditions thereof or any other terms and conditions specified for regulating street vending under the Act or these rules or schemes made under the Act or where the Town Vending Committee is satisfied that the certificate of vending has been secured by the street vendor through mis-representation;
   (d) recommend the competent authority for declaring an area to be a non-vending area;
   (e) identify sites and spaces for vending and hawking;
   (f) regulate timings for vending to ensure free congestion of public spaces;
   (g) ensure enforcement of corrective mechanism against defiance by street vendors;
   (h) follow-up cases of dispute pending before the dispute redressal committee and the competent authority;
   (i) furnish recommendation to the competent authority in relation to the preparation of plan to promote the location of street vendors;
   (j) hold its meetings and take appropriate decisions to ensure efficient discharge of its functions;
   (k) associate technical and professional persons with itself on a temporary basis for obtaining assistance or advice in carrying out any of the provisions of the Act;
   (l) publish the street vendor's charter specifying therein the time within which the certificate of vending shall be issued to the street vendors and time within which such certificate of vending shall be renewed and other Activities to be performed within the time limit specified therein;
   (m) maintain up to date records of registered street vendors and street vendors to whom certificate of vending has been issued in accordance with the provisions of the Act;
   (n) carry out social audit of its Activities under the Act or these rules or the scheme made there under;
   (o) furnish from time to time to the government and the competent authority such returns as may be prescribed under the Act and these rules;
   (p) furnish comments to the government for undertaking promotional measures of making available credit, insurance and other welfare schemes of social security for the street vendors;
   (q) assist the government to raise awareness among the public about the role of the street vendors in the economy;
   (r) perform such other functions for effective implementation of the Act and these rules, as may be delegated to the Town Vending Committee by the competent authority and by the Government.

13. (1) The Town Vending Committee subject to the provisions of the Act, may associate an expert person or firm of repute having adequate knowledge and experience in the field, for obtaining technical or professional advice or allot work on matters relating to the street vendors including calculation of holding capacity in vending zone.
(2) The person or firm to be associated as expert under sub- rule (1) shall be selected in a fair and transparent manner and by following the procedure for engagement of consultants and experts or technical or professional experts in Government Departments.
(3) The person or firm associated as expert under sub- rule (1) shall be paid as mentioned in work allotment order or contract agreement or decided by the competent authority.

14. The competent authority concerned, with the prior approval of the Government shall create additional posts for employees based on the requirement of the Town for the purpose of Street vending. The duties, functions and disciplinary rules of employees of Town Vending Committee shall be as per service rules applicable on the employees of municipality or other planning authority.

15. Every Town Vending Committee shall maintain up-to-date records of total numbers of identify street vendors, vending zones, registered vendors, licence issued, location of vendors, revenue generated through fee collected, challan issued, fine imposed another the details about street vending, prescribed in the scheme under section 38(1) of the Act in electronic form or manually or in both forms as may be decided by the competent authority.

16. (1) The Town Vending Committee shall furnish returns to the Government and competent authority at the end of every financial year, as specified below, namely: -
   (a) the details of meeting held, along with proceedings of each meeting;
   (b) total number of street vendors identified, vending certificate issued and vending area allotted;
   (c) the details of functions performed by the Town Vending Committee during the financial year under review.

17. (1) A summary of the scheme notified by the Government shall be published by the competent authority by means of a public notice given in at least two prominent local daily newspapers.
(2) The copy of notice shall also be pasted at appropriate location visible to the general public in the office of competent authority.

18. (1) Any person, aggrieved by any decision of the Town Vending Committee with respect to the issue of certificate of vending under section 4 or cancellation or suspension of certificate of vending under section 10, may file an appeal to the Divisional Commissioner concerned in writing by way of application, in Form I on plain paper, within a period of thirty days from the date of such decision.
(2) A self-attested copy of the decision under appeal shall be annexed with the application of appeal by the applicant.
(3) No appeal shall be entertained by the competent authority unless a fee of Rs. 100/- (One hundred rupees

6.7 Parking Policy, Haryana

Smart City Team / Bls / EO / SE HIS/XEN-1 ..... for n/a as per rules.

CMC 9/2/17

2280 DLB 14/3/17

Municipal Corporation Dairy No. Date Sign. KARNAL

Haryana Government
Urban Local Bodies Department
Notification

The 8th March, 2017

No. 4/9/2017-R-II- In exercise of the powers conferred by Section 66-A (b) (xvii) of the Haryana Municipal Act, 1973 and Section 42 (17) of the Haryana Municipal Corporation Act, 1994 the Governor of Haryana hereby directs for the information of general public, the following policy parameters for use of vacant plots as temporary parking lots within the Municipal limits in the State of Haryana, namely-

Policy Parameters

Applicability of the policy

1. This policy would be applicable on vacant plots for utilization as parking lots in the Municipal limits in the State of Haryana.

Area

2. The area of the plot size should not be less than 500 sq. m. However clubbing of plots less than 500 Sq. mtr. under same ownership or different ownership (with an undertaking of consent) would be allowed to make the minimum area of 500 Sq. mtr., provided the plots are adjacent and contiguous to each other.

Approach

3. The approach to the site should be from a road of width not less than 12 meters.

Fee/Charges

4. Permission shall be allowed subject of licence fee i.e. Rs. 100/- per sq. mtr./ per year.
5. The parking charges/ fee for the vehicles shall be decided by the concerned municipalities (Municipal Corporation, Municipal Council, Municipal Committee.)

Procedure

6. Any person who desires to utilize his plot for providing parking spaces shall submit an application to the Commissioner/ Executive Officer, Secretary alongwith the revenue documents of the plot. Further the Municipalities may demand any additional document as per their requirement.

Other parameters

7. Only surface parking is allowed. The site should be levelled.
8. No permanent construction may be allow except washroom and ticket room or guard room not more than 50 sq. fts. each.
9. Permission issued should not be considered as change of land use or any of the permanent permission. It is only temporary permission for providing service of parking. It should be issued for one year and renewed every calendar year as per the need of the area. The renewal shall be allowed subject to the payment of the licence fee paid for permission.
10. The owners of the parking lot will ensure that there is no public inconvenience caused due to this facility otherwise permission can be revoked by the Municipality at any time without any notice.
11. The owner of the parking lot shall ensure that no vehicle is parked on the road within the influence zone of the parking lots. (The influence zone will be decided on the basis of the capacity of the parking lots).
12. The owner of the plot will put up sign board regarding use of the site and display the rates.
13. If the owner of parking lot violates any parameter of the policy, then the municipalities can issue notice and impose fine upto Rs. 5000/-. for the violation. If the owner continues to violating the parameters of the policy, then by giving second notice the permission shall be revoked and the fee/ charges are forfeited.

Anand Mohan Sharan, IAS
Principal Secretary to Govt. Haryana
Urban Local Bodies Department
Haryana, Chandigarh.

BI-1, 2, DTP(XEN-1)
CAISIL
24-3-17 Time-3.30 PM

Endst. No. 4/9/2017-R-II

Dated 08.03.2017

A copy is forwarded to the Controller Printing & Stationary Department, Haryana, Chandigarh with the request that above notification (both in Hindi and English) may please be published in the Haryana Government Gazette (Extra Ordinary). He is requested to supply 150 printed copies of the said notification to this office for record.

Superintendent Committee-II
for Principal Secretary to Government Haryana,
Urban Local Bodies Department.

Endst. No. 4/9/2017-R-II

Dated 08.03.2017

A copy is forwarded to the following for information and necessary action:-

1. Director General, Information, Public Relation & Cultural Affairs, Haryana.
2. Director, Urban Local Bodies, Haryana, Bays No. 11-14, Sector-4,Panchkula.
3. All Deputy Commissioner, Haryana.
4. Commissioner, Municipal Corporation, Faridabad, Gurgaon, Hisar, Panipat, Karnal, Yamunanagar, Panchkula, Ambala, Rohtak, Sonepat.
5. All President/E.O./Secretary, Municipal Council/Committees, Haryana.

Superintendent Committee-II
for Principal Secretary to Government Haryana,
Urban Local Bodies Department.

6.8 Cloud based Property Tax information system

Municipal Corporation Karnal

From

Commissioner,
Municipal Corporation Karnal,
Karnal, Haryana.

To

M/s CE Info Systems Pvt. Ltd.,
68, Okhla Indl. Estate Phase-III,
New Delhi-110020

Memo No:- 3968 /75 Dated:- 12-5-16

Subject: - Work Order for extension of cloud based Property Tax Information System services for FY 2016-17.

This is with reference to the negotiation meeting held on 11.05.2016 and subsequent proposal for extension of cloud-based Property Tax Information System for FY 2016-17 with necessary database updates in the limit of Municipal Corporation Karnal. Your final unit price Rs.3/- (Rupees Three only) + Service Tax per property units has been accepted for approx. 134000 properties and this work order has been allotted to your firm, hence you are directed to start the above work immediately.

SCOPE OF THE PROJECT:

1. Cloud-based Property Tax Information System Application which shall allow for easy access of Assessment and demand details to its citizens and Municipal Property Tax Administrative Staff. The application shall allow effective & transparent management of property tax administration:

a) Property Search - The portal shall offer functionality to search for property. Search feature should offer different level of search capabilities.

b) Locating on GIS Map - The application shall provide facility to locate a property on the map dynamically. The map will have details of the surroundings and information to reference the property.

c) Viewing of Assessment Details - Application will provide functionality to know the assessment details of a property. This functionality will be linked with the search facility, so that users can continue to explore more details on the search results.

d) Generation of Notice cum Bill - Citizens will be able to access their Notice cum Bill online. This facility will be linked to the searching & assessment details facility, where citizens can View, Download & Print the Notice cum Bill in the .PDF Format, as per the specifications of Municipal Corporation, Karnal.

e) Updated Property Tax Records shall be approved and provided to MapmyIndia by the Municipal Corporation Karnal for the financial year 2016-17 which will be integrated by MapmyIndia within 1 week from date of receipt.

f) MapmyIndia to host the Property Tax Database on MapmyIndia's Cloud-space application. In the above case, entire solution will be deployed on MapmyIndia's Cloud & linked with Municipal Corporation, Karnal's Website through a "Property Tax" link.

g) MapmyIndia will not do any data clean-up on the demand and collection data provided by MC Karnal during the entire period of contract. All the collection data that matches with the database shall be updated and mismatch data, if any shall not be updated on the Online Application and the same shall be sent to MC

Karnal for revalidation and then on the revalidated data it shall be updated.

TERMS & CONDITIONS:

1. Database Update: Application will be hosted with the latest property tax Demand & Collection data for FY: 2016-17 of all the wards provided by Municipal Corporation, Karnal within 45 days from the date of this work order. The application shall be hosted by Mapmyindia till 31st March 2017.
2. Application hosted by Mapmyindia shall not perform any property tax related demand, arrears & interest calculations.
3. Payment terms: 100% payment will be paid within 30 days of property data Go-Live for the financial year 2016-17.

Commissioner
Municipal Corporation Karnal.

19/5/16

6.9 Public Bike Sharing System in PPP mode

INDIA NON JUDICIAL

Government of National Capital Territory of Delhi

e-Stamp

सत्यमेव जयते

Certificate No.	:	IN-DL42562871298454O
Certificate Issued Date	:	27-Apr-2016 01:32 PM
Account Reference	:	IMPACC (IV)/ dl887503/ DELHI/ DL-DLH
Unique Doc. Reference	:	SUBIN-DLDL88750384126777656016O
Purchased by	:	PIONEER PUBLICITY CORPORATION PVT LTD
Description of Document	:	Article 5 General Agreement
Property Description	:	Not Applicable
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	PIONEER PUBLICITY CORPORATION PVT LTD
Second Party	:	Not Applicable
Stamp Duty Paid By	:	PIONEER PUBLICITY CORPORATION PVT LTD
Stamp Duty Amount(Rs.)	:	100 (One Hundred only)

Please write or type below this line

License Agreement

Agreement for Setting up of docking stations/cycle stands and running & upkeeping of cycle in public bike sharing model in the Karnal City.

This agreement made on _____ 2016 between the Municipal Corporation, Karnal a body corporate under the Haryana Municipal Corporation Act, 1994 hereinafter called the Municipal Corporation (which expression shall unless the context required another and different meaning includes its successors and assignees) of the one part and M/s. Pioneer Publicity Corporation Pvt. Ltd. a limited company having its registered office at 2C/6, New Rohtak Road, Karol Bagh, New Delhi-110005 hereinafter referred to as the Licensee which expression shall unless repugnant to the context or meaning thereof include the successors and assigns of the second part.

Statutory Alert:

OFFICE OF THE MUNICIPAL CORPORATION, KARNAL

No...574..... Dated 26.4.16.....

To

M/s Pioneer Publicity Corporation Pvt. Ltd,
Pioneer House 2C/6, New Rohtak Road,
Karol Bagh, Near Liberty Cinema,
New Delhi-110005.

Subject: **Setting up of docking stations/cycle stands and running & upkeep of cycles in Public Bike Sharing (PBS) model in the Karnal city.**

In reference your letter No. PPCL/Karnal/01/2016-17 dated 22.04.2016 and PPCL/Karnal/02/2016-17 dated 25.04.2016.

This is to intimate you that the Municipal Corporation, Karnal is ready to accept your offer subject to the fulfillment of terms and conditions stated below on your part successfully:-

1. Station Setup Plan:-

(a) Initially you will setup 10 cycles docking stations with the capacity of 30 cycles per cycle stand on mutually agreed locations. The first fleet of 100 cycles with 10 cycles per stations would be provided.

(b) The infrastructure required for setting up of docking stations will be arranged and provided by you. The Municipal Corporation, Karnal will only provide space for docking stations.

(c) You will set up smart card technology for efficient tracking and for check in and check out processing of cycles by users.

(d) All authorized cycle station users are required to formally register and complete necessary paper work and training. They will receive smart card of your cycle station as part of this process. The Municipal Corporation, Karnal may evolve a policy of charging the users to encourage and support the productive use of cycles. You will assist Municipal Corporation, Karnal with appropriate data and analysis of these scenarios to facilitate the policy as mention.

(e) Cycles will be well equipped with all the requirement like a bell, lock, stand etc.

(f) The docking station would be provided with scanning devices, smart cards etc.

(g) All the cost of the cycles and infrastructure of cycle stands will be borne by you.

(h) You will provide manpower to operate the cycle stands and salaries of such staff shall be paid by you from your own sources as per D.C. Rates.

(i) Internet connection required to operate the system shall be arranged by you at your own funds.

2. Maintenance:-

(a) You will ensure the cycles are serviced and tuned regularly for effective use and availability.

(b) The watch and ward of the docking stations/cycle stands from 10:00 PM night to 6:00 AM morning shall be your responsibility and you have to do it at your own cost and responsibility.

(c) The cycle supply operation shall be in use from 6:00 AM to 10:00 PM daily.

(d) A public toilet for male and female shall be constructed at each docking station by the Municipal Corporation, Karnal from its own sources.

(e) The water supply connection shall be arranged by the Municipal Corporation, Karnal at each docking station.

(f) The electricity connection required at each docking station shall be taken by the Municipal Corporation, Karnal but its energy charges shall be paid by you per month.

(g) Daily cleaning of shelter, equipment, mechanical maintenance, usage data collection and reporting shall be done by you.

(h) Branding on the cycles parts such as rear wheel cover, cycles frames etc. shall be done by you at your own expenses. The design of branding shall be finalised by the Municipal Corporation, Karnal.

(i) To run the entire system the whole responsibility rests with you. The Municipal Corporation, Karnal shall not make any payment on any account except to provide the facilities mentioned above and availability of the space.

3. Contractual Period:-

(a) This offer is valid for a period of **5 years subject to** successful completion of the installation of docking stations within the period of 150 days of issuance of this work order and their initiation for public use or the Municipal Corporation ,Karnal will be well within its right to withdraw the work order.

(b) The Municipal Corporation, Karnal have every right to cancel this contract on a one month notice if it is observed that any of the conditions are being violated or system is not being maintained and run properly by the firm.

(c) This contract will come into effect after 150 days from the date of dispatch of this work order. The period of 150 days shall be treated as a time limit for setting up of 10 Nos. docking stations.

(d) The contractual period of 5 years can be further extended by mutual agreement for a period of 3 years on satisfactory performance.

4. Time Limit:-

The time limit for setting up of the docking stations is **150 days** from the date of issue of this work order. No further time extension shall be granted except in unavoidable circumstances which would be recorded in writing to the satisfaction of the undersigned.

5. Proprietary Rights:-

All proprietary rights on the whole system will be of the Municipal Corporation, Karnal. The entire infrastructure createdalongwith cycles shall be delivered to the Municipal Corporation, Karnal in well maintained and good condition by the firm after expiry of the contractual period i.e. 5 years or on agreed extension subject to satisfactory performance.

6. Advertisement Space:-

(a) You would be given advertisement space on cycle shelters stand alongwith 2 poles mounting mupis of the size of 3' x 5' for this project.

(b) You are required to pay advertisement tax on these cycles stands as per Haryana Govt. Advertisement Act.

You are therefore requested to start your project immediately in the Karnal city and complete the same within 150 days to give the services to the general public. You are required to execute an agreement on a non-judicial stamp paper of Rs. 100/- regarding terms and condition of the MOU. By issuance of this work order your contract stands concluded and time limit shall be reckoned from the date of issue of this letter.

Commissioner,
Municipal Corporation,
Karnal.

6.10 E-Rickshaw drivers' welfare Association

Pt Deen Dayal Upadhyay Rickshaw Chalak Kalyan Samiti Karnal

संस्था का ज्ञापन पत्र।

पं0 दीनदयाल उपाध्याय रिक्शा चालक कल्याण समिति, करनाल

सोसायटी का नाम	पं0 दीनदयाल उपाध्याय रिक्शा चालक कल्याण समिति, करनाल।
सोसायटी पंजीकरण कार्यालय	नगराधीश, लघु सचिवालय, प्रथम तल, सैक्टर-12,करनाल।
संस्था का कार्यक्षेत्र	करनाल शहरी क्षेत्र

1 पं0 दीनदयाल उपाध्याय रिक्शा चालक कल्याण समिति, करनाल का संचालन करना।

2 केन्द्र सरकार, हरियाणा सरकार व जिला प्रशासन द्वारा मुहैया करवाई गई ई-रिक्शा का संचालन करना।

3 जिला करनाल के लोगो की सुविधा प्रदान करने हेतु करनाल स्थानीय शहर में लोकल ई-रिक्शा उपलब्ध करवाना।

4 उपरोक्त उद्देश्यों की पूर्ति हेतु एंव बेहतर लोकल ई-रिक्शा उपलब्ध करवाने हेतु अन्य आवश्यक कार्य करना।

5 करनाल शहर को पैडल रिक्शा रहित बनाना।

6 वातावरण को प्रदूषण रहित बनाना ।

7 संस्था से सम्बन्धित चल संपति की देखभाल करना, खरीद करना व लीज पर लेना।

8 ई रिक्शा चालको के कल्याण हेतु कार्य करना।

संस्था की शर्तः-

1 संस्था की संपति व आय संस्था के हित व संस्था के उद्देश्यों की पूर्ति के लिए खर्च होगी। संस्था की राशि या संपति का कोई भी भाग बोनस या डिविडेन्ट के रूप में नही दिया जाएगा।

2 सभी सदस्य अवैतनिक होंगें। कार्यकारिणी या आम सभा का कोई भी सदस्य जो संस्था के कार्य के लिए अपनी जेब से खर्च करेगा तथा वह राशि संस्था की आय में से सदस्य को दी जाएगी। संस्था के लिए किसी भी सदस्य से ली गई राशि, ब्याज व मकान किराया जो संस्था के प्रयोग के लिए लिए गया हो, संस्था की आय में से दिया जाएगा।

3 यदि संस्था को कोई भी लाभ या आमदनी होगी वह राशि संस्था व संस्था के उद्देश्यों की पूर्ति के लि खर्च की जाएगी।

वर्ष, जैसी भी स्थिति हो, की अवधि के लिए शामिल किया जा सकता है तथा यह उसकी पदावधि के पूरा होने पर सोसायटी के सदस्य के रूप में जब तक रहेगा तब तक दूसरी पदावधि के लिए जिला प्रशासन द्वारा इसे नवीकृत नही किया जाता है। सदस्यता फीस/ वार्षिक अंशदान ना देने पर सदस्यता स्वंय समाप्त हो जाएगी।

(4) **सदस्यता फीस तथा वार्षिक अंशदान:**

(1) सोसायटी की सदस्यता के लिए दरें तथा वार्षिक अंशदान निम्नानुसार होगा जो सोसायटी द्वारा अपनी उपविधियों में निर्धारित किए गए।

क्र.सं.	सदस्य की किस्म	प्रवेश फीस	वार्षिक
1	साधारण सदस्य	500/-रुपये	200/-रुपये

(i) सदस्य के वार्षिक अंशदान का भुगतान प्रत्येक वर्ष के अप्रैल के प्रथम दिन को देय होगा, जो ऐसे वर्ष के जून के 30वे दिन तक अन्तिम रूप में भुगतान किया जा सकता है। चूककर्ता सदस्य की सदस्यता देय तिथि(30 जुन) के बाद निलम्बनाधीन के रूप में समझी जाएगी तथा ऐसे सदस्य कथित वर्ष की प्रथम जुलाई के बाद कराए गए सोसायटी के निर्वाचनो के दौरान अपना मत डालने के हकदार नही होगें।

(ii) वार्षिक अंशदान के भुगतान में चूक के कारण सदस्यता का निलम्बन भुगतान योग्य राशि पर 18 प्रतिशत ब्याज सहित चूक को चुकाने के बाद रद्द किया जा सकता है तथापि, वह खाफी के वित्तीय वर्ष के दौरान कराए गए किसी निर्वाचन में अपना मत डालने के लिए पात्र होगा।

(5) **प्रवेश प्रकिया (अंशदाता से अन्यथा सदस्यों के लिए)**

(i) सोसायटी के सदस्यगत के रूप में किसी व्यक्ति का प्रवेश समय-2 पर इसके शासकीय निकाय द्वारा निर्णित किया जाएगा।

(ii) सोसायटी के सदस्य के रूप में इच्छुक व्यक्ति विहित प्रारूप में, तथा विधिवत भरा हुआ तथा हस्ताक्षरित तथा सोसायटी के नियमित सदस्य द्वारा अनुशासित सचिव को समर्थित दस्तावेजों सहित आवेदन पत्र प्रस्तुत करेगा।

(iii) सचिव आवेदन की जांच करेगा तथा उसे निर्णय के लिए शासकीय निकाय के सम्मुख रखेगा।

(iv) शासकीय निकाय आवेदन को स्वीकृत या रद कर सकता है तथा इस सम्बन्ध में शासकीय निकाय का निर्णय अन्तिम होगा। यह इसके निर्णय के लिए कोई कारण देने हेतु बाध्य नही होगा।

(v) शासकीय निकाय का अनुमोदन सदस्य को सूचित किया जाएगा, उसका नाम हरियाणा सोसायटी पंजीकरण नियम, 2012 के अधीन यथा विहित ऐसी रीति तथा प्रारूप में रखे जाने वाले सदस्यों के रजिस्टर में दर्ज किया जाएगा तथा उसे सोसायटी का पहचान पत्र जारी किया जाएगा।

(vi) प्रत्येक सदस्य के लिए पहचान पत्र सदस्य के रूप में शामिल प्रत्येक सदस्य को सोसायटी के व्यक्तिगत सदस्य तथा महासचिव द्वारा विधिवत हस्ताक्षरित, उसके फोटो, संक्षिप्त ब्यौरों तथा सदस्यता प्रवर्ग वाला पहचान पत्र जारी किया।

(7) सदस्यों के अधिकार तथा बाध्यताएं :

1 सोसायटी के सभी सदस्य इसके उपविधियों में यथा अन्तर्विष्ट तथा समय-2 पर संशोधित सोसायटी के नियमों तथा विनियमों द्वारा बाध्य होंगे।

2 सोसायटी के सभी सदस्य इसके उपविधियों में यथा अन्तर्विष्ट तथा समय-2 पर संशोधित सोसायटी के निर्वाचन में अपना मत डालने का अधिकार होगा परन्तु ऐसा सदस्य सोसायटी के किसी देयों तथा देय तिथि से आगे तीन मास की अवधि के लिए वार्षिक अंशदान के भुगतान में चूककर्ता नहीं है।

3 सोसायटी के प्रत्येक सदस्य को सात दिन का नोटिस देते हुए किसी कार्य दिवस को सोसायटी की लेखा पुस्तकों सामान्य बैठक की कार्यवाही के कार्यवृत वाली पुस्तकों, शासकीय निकाय की बैठकों तथा सदस्यों के रजिस्टर का निरीक्षण करने का अधिकार होगा।

4 प्रत्येक सदस्य उसके पते में किसी परिवर्तन के बारे में सोसायटी को सूचित करेगा, जो सोसायटी के सदस्यों के रजिस्टर में विधिवत अभिलिखित किया जाएगा तथा जिसके बाद सोसायटी ऐसे सदस्य को नया पहचान पत्र जारी करेगी।

(8) **सदस्यता की समाप्ति:** सदस्य के रूप में शामिल कोई व्यक्ति निम्नलिखित घटनाओं में सोसायटी के सदस्य के रूप में नहीं रहेगा :

1 अधिनियम की धारा 22 में अन्तर्विष्ट उपबन्धों को आकर्षित करने,

2 सोसायटी के लक्ष्यों तथा उद्देश्यों के प्रतिकूल उसके कार्य करने पर ,

3 ऐसे सदस्य के सोसायटी की निधियों का वित्तीय गबन का दोषी पाए जाने पर,

4 सोसायटी के जिला रजिस्ट्रार/रजिस्ट्रार/महारजिस्ट्रार द्वारा हटाने के लिए अभ्यारोपण तथा निदेशनों पर अवैतनिक सदस्य सोसायटी के सदस्य के रूप में समाप्त हो जाएगा यदि शासकीय निकाय इस निमित संकल्प पारित करते हुए ऐसा निर्णय करता है।

5 सामान्य निकाय

(i) सदस्य के रूप में शामिल प्रत्येक व्यक्ति सोसायटी के शासकीय निकाय का सदस्य होगा तथा सोसायटी के जिला प्रशासन के निर्वाचन के लिए अपना मत डालने के लिए जब तक हकदार होगा तब तक वार्षिक अंशदान सहित सोसायटी को किन्हीं देयों के भुगतान के बकायों में नहीं रहता।

(ii) प्रत्येक सदस्य व्यक्तिगत रूप से अपना मत डालेगा तथा कोई भी प्रति पुरुष मतदान अनुज्ञात नहीं किया जाएगा।

1 प्रधान

(क) सामान्य निकाय की तथा शासकीय निकाय की सभी बैठकों की अध्यक्षता करना तथा ऐसी बैठकों की कार्यवाहियां नियन्त्रित करना ।

(ख) सभी ऐसे कार्य, कर्म तथा काम करना जैसा समय–समय पर सामान्य निकाय तथा/या शासकीय निकाय द्वारा प्राधिकृत किया जाए ।

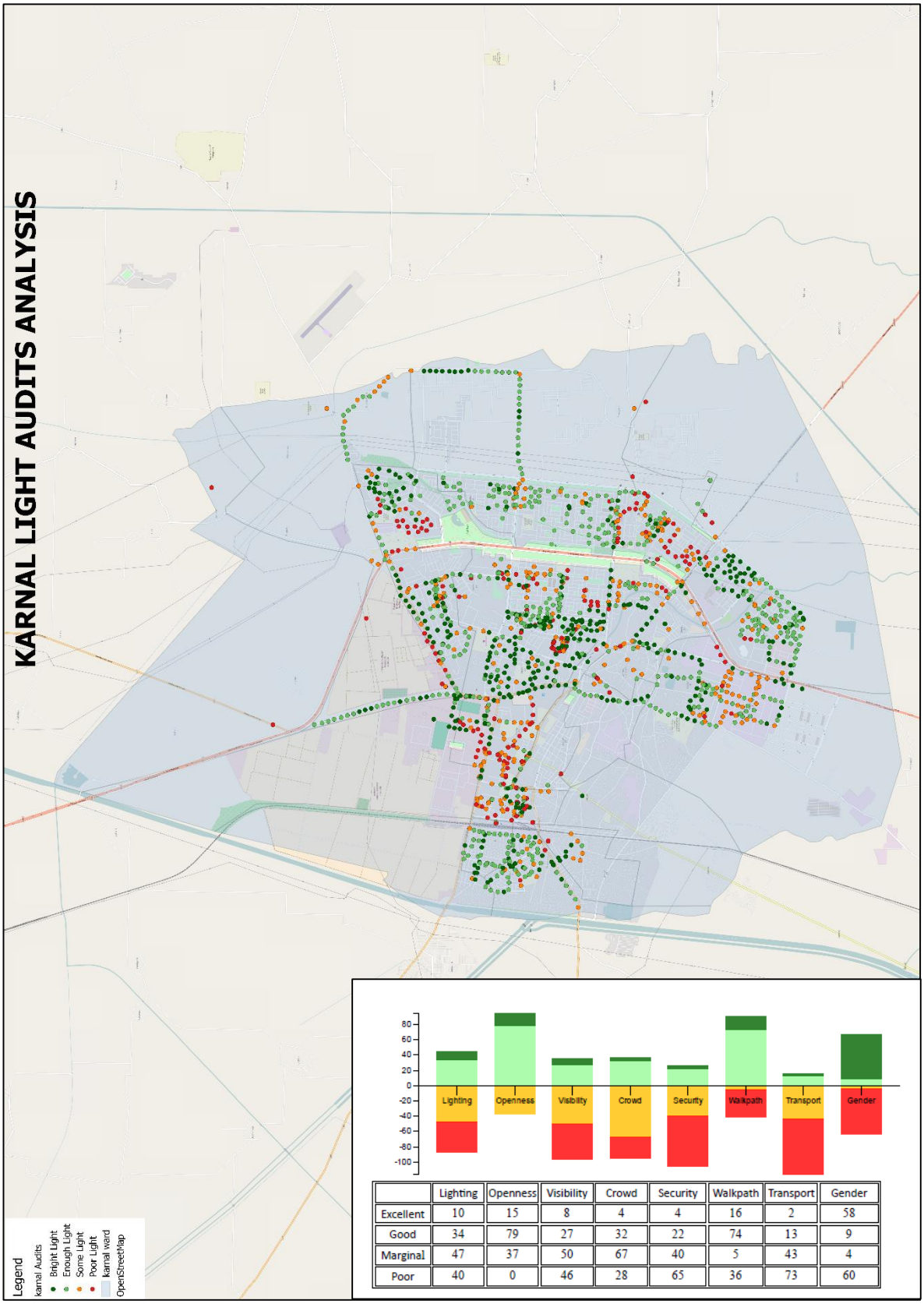
(ग) किसी मामले पर विचार विर्मष को अनुज्ञात या अस्वीकार करना जो एजेंडे में शमिल नहीं किया जाता है ।

(घ) सोसाइटी/शासकीय निकाय के उचित तथा पारदर्षी कृत्य करना सुनिश्चित करना ।

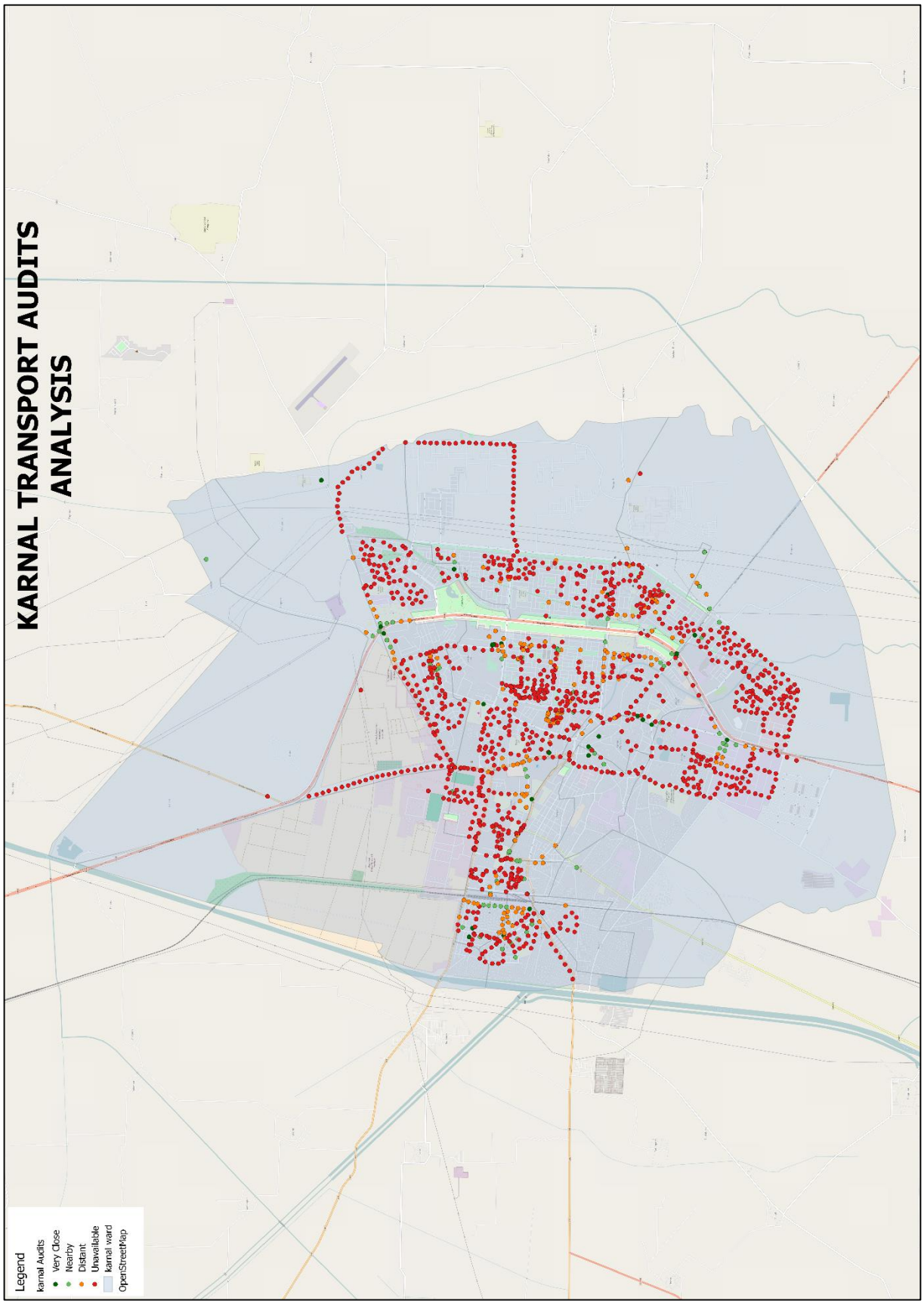
(ड.) हरियाणा सोसाइटी रजिस्ट्रीकरण तथा विनियमन अधिनियम, 2012 तथा इसके अधीन बनाए गए नियमों के उपबन्धों की कड़ी अनुपालना सुनिश्चित करना ।

(च) सोसाइटी के लक्ष्यों तथा उद्देश्यों की सम्पूर्ण गतिविधियों/उपलब्धियों का पर्यवेक्षण तथा गाइड करना ।

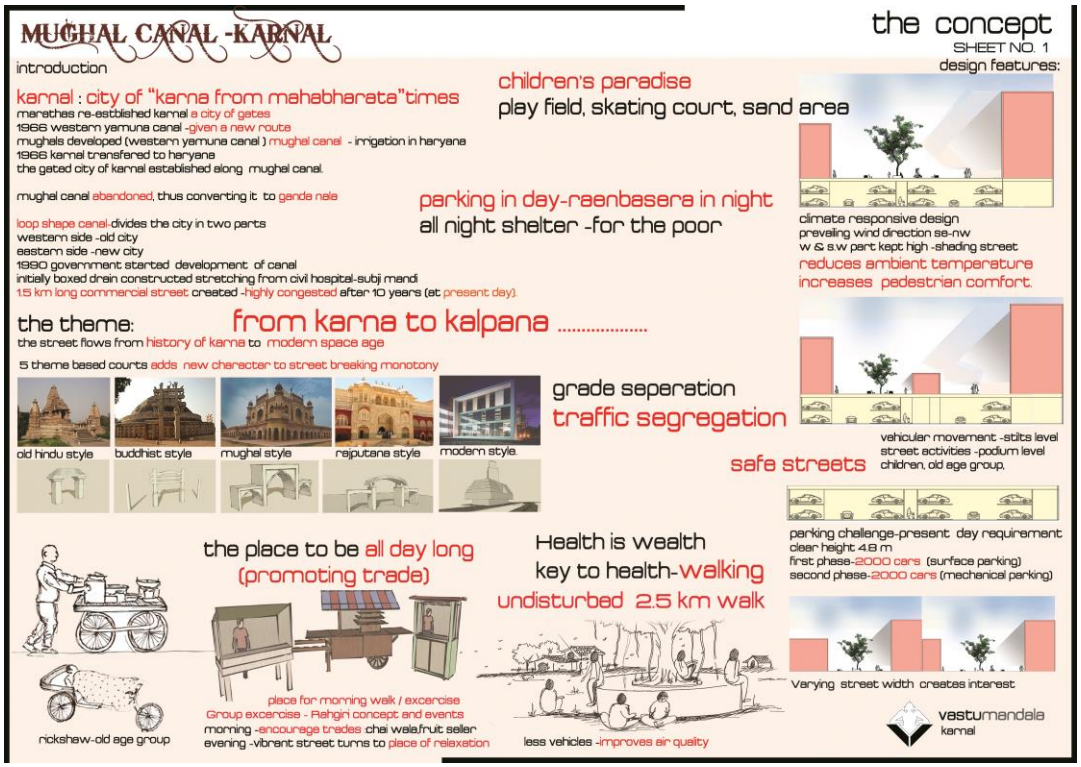
6.11 SafetiPin Survey for safety of Women

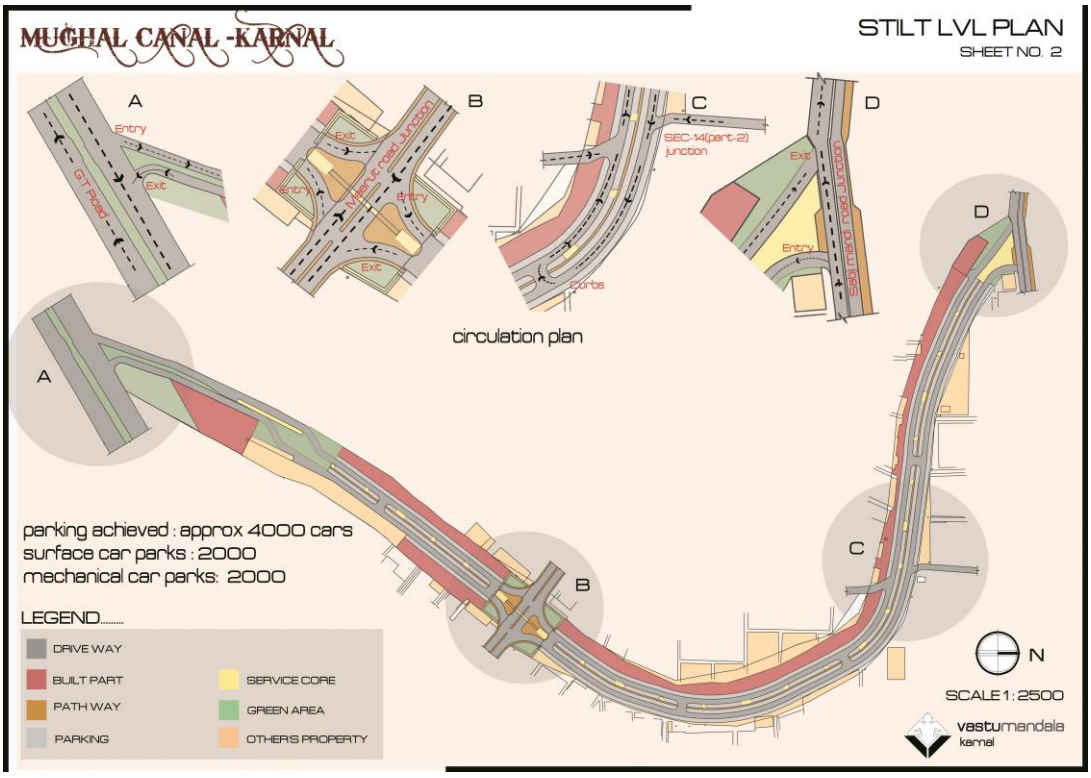


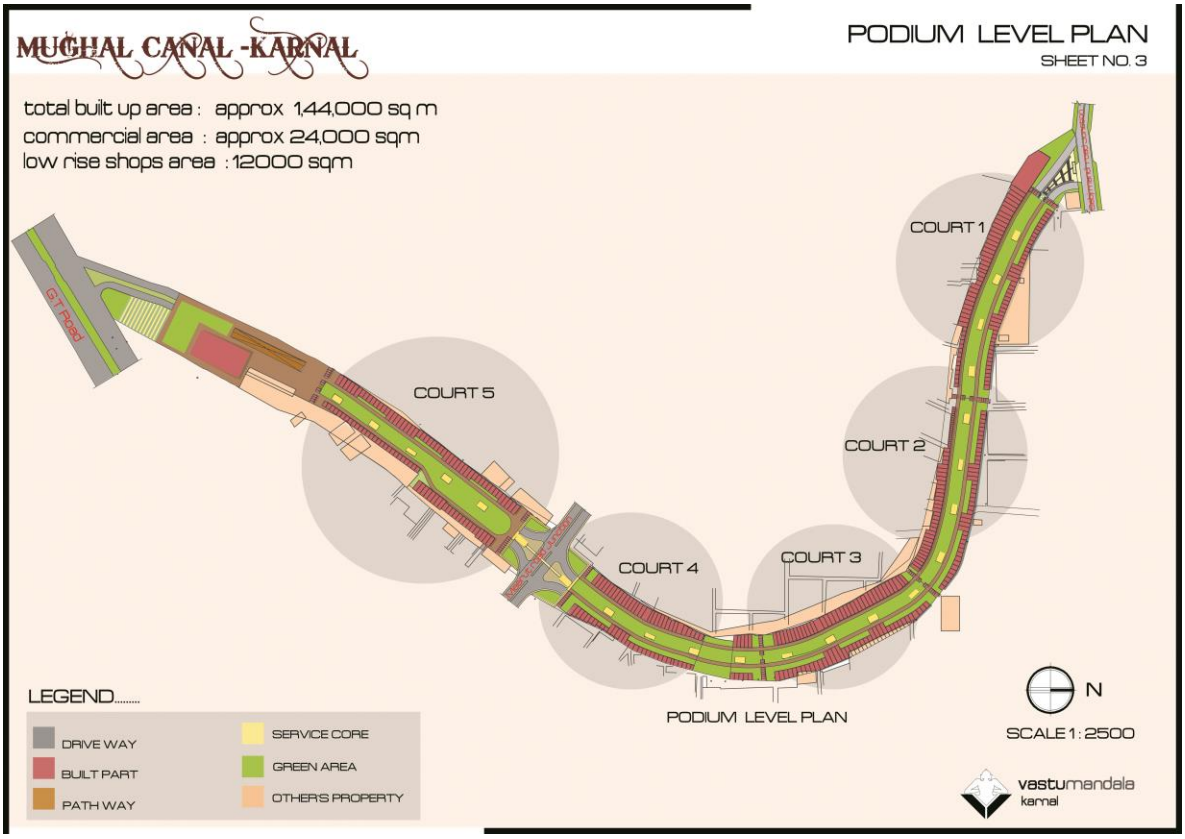
	Lighting	Openness	Visibility	Crowd	Security	Walkpath	Transport	Gender
Excellent	10	15	8	4	4	16	2	58
Good	34	79	27	32	22	74	13	9
Marginal	47	37	50	67	40	5	43	4
Poor	40	0	46	28	65	36	73	60

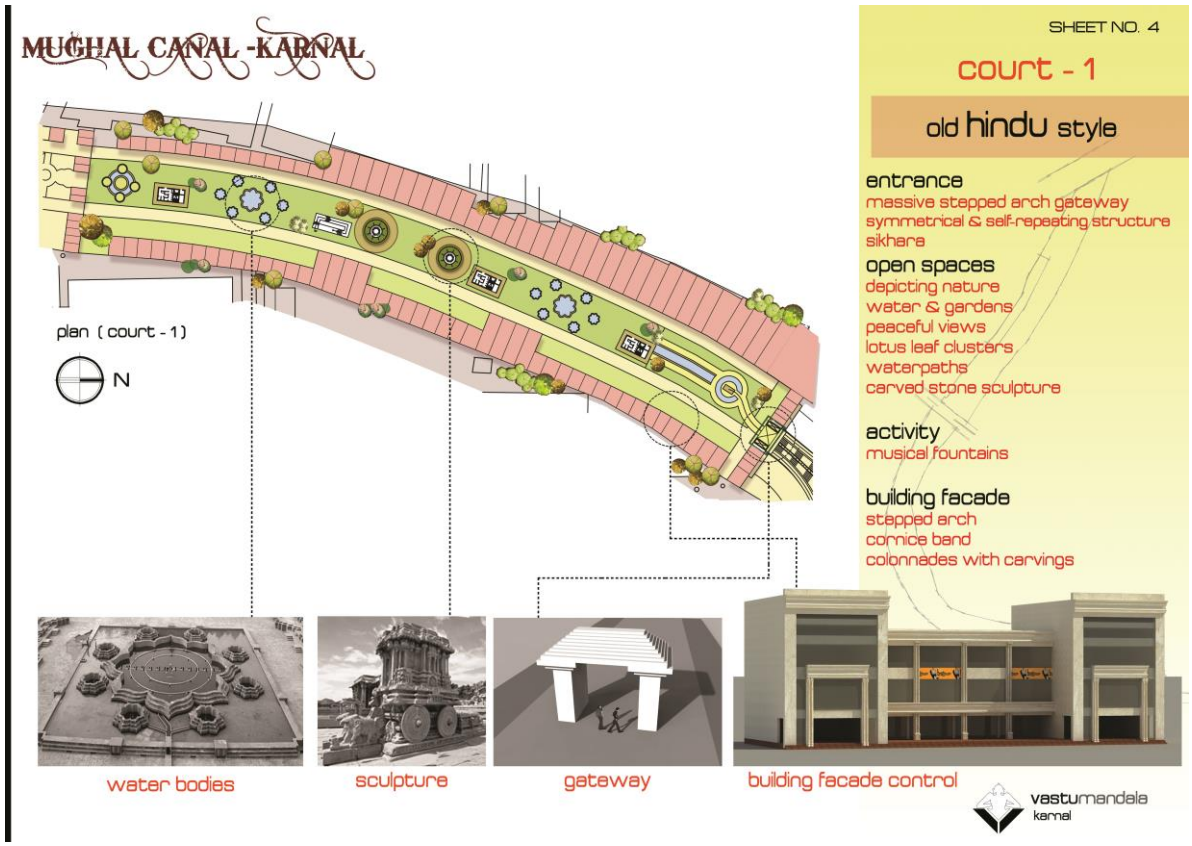

KARNAL TRANSPORT AUDITS
ANALYSIS
Legend
Karnal Audits
Very Close
Nearby
Distant
Unavailable
Karnal ward
OpenStreetMap

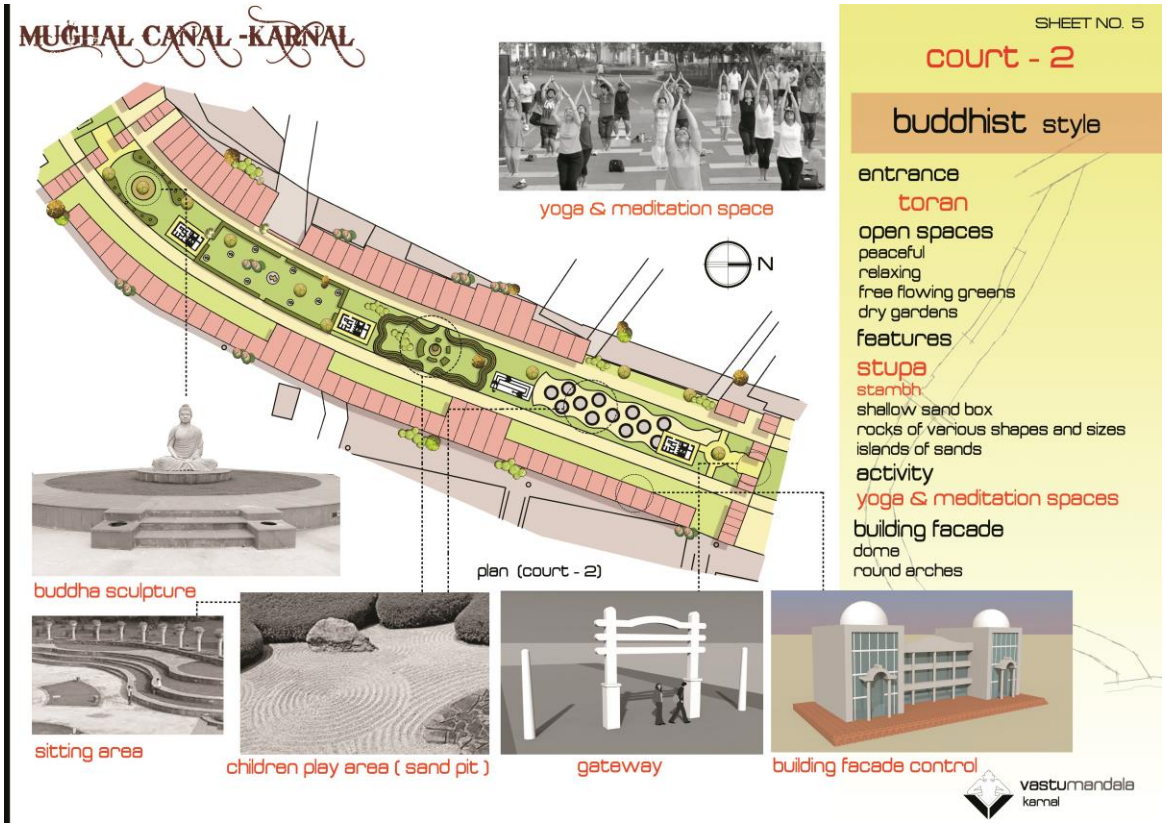
6.12 Proposed scheme for abandoned Mughal Canal land (Credits: Vaastu Mandala)

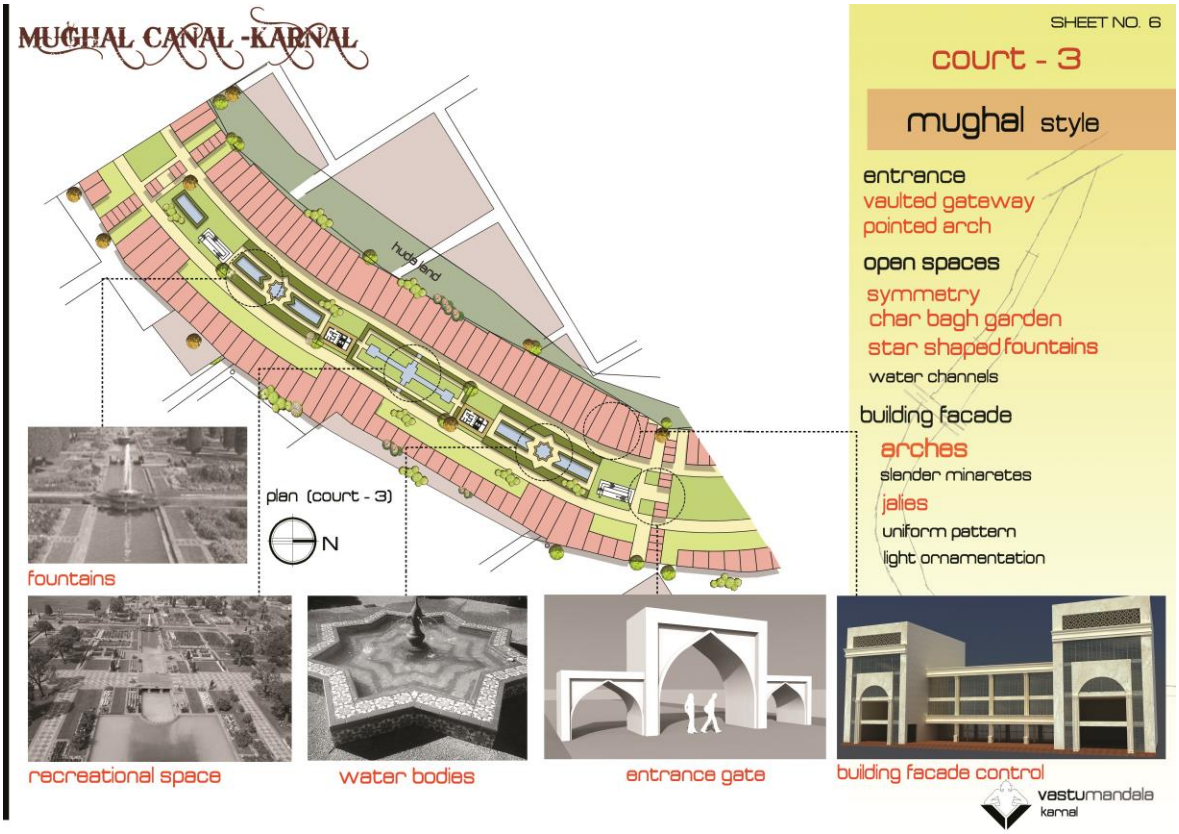





MUGHAL CANAL -KARNAL
PODIUM LEVEL PLAN
SHEET NO. 3
total built up area : approx 1,44,000 sq m
commercial area : approx 24,000 sqm
low rise shops area : 12000 sqm
COURT 1
COURT 2
COURT 3
COURT 4
COURT 5
GT Road
LEGEND.....
DRIVE WAY
BUILT PART
PATH WAY
SERVICE CORE
GREEN AREA
OTHERS PROPERTY
PODIUM LEVEL PLAN
N
SCALE 1 : 2500
vastumandala
karnal


MUGHAL CANAL -KARNAL
SHEET NO. 4
court - 1
old hindu style
entrance
massive stepped arch gateway
symmetrical & self-repeating structure
sikhara
open spaces
depicting nature
water & gardens
peaceful views
lotus leaf clusters
waterpaths
carved stone sculpture
activity
musical fountains
building facade
stepped arch
cornice band
colonnades with carvings
plan (court - 1)
N
water bodies
sculpture
gateway
building facade control
vastumandala
karnal

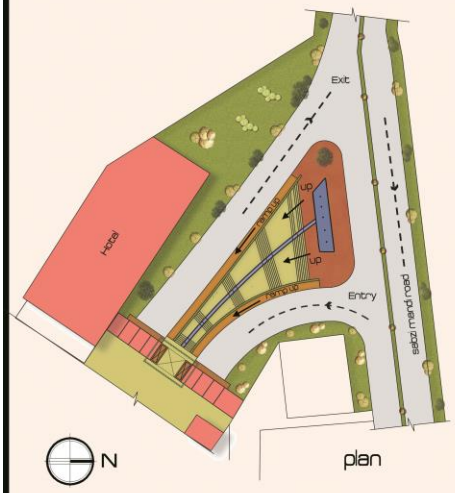

MUGHAL CANAL -KARNAL
SHEET NO. 5
court - 2
buddhist style
entrance
toran
open spaces
peaceful
relaxing
free flowing greens
dry gardens
features
stupa
stambh
shallow sand box
rocks of various shapes and sizes
islands of sands
activity
yoga & meditation spaces
building facade
dome
round arches
yoga & meditation space
N
plan (court - 2)
buddha sculpture
sitting area
children play area (sand pit)
gateway
building facade control
vastumandala
karnal


MUGHAL CANAL -KARNAL
SHEET NO. 6
court - 3
mughal style
entrance
vaulted gateway
pointed arch
open spaces
symmetry
char bagh garden
star shaped fountains
water channels
building facade
arches
slender minaretes
jalies
uniform pattern
light ornamentation
plan (court - 3)
N
fountains
recreational space
water bodies
entrance gate
building facade control
vastumandala
karnal

MUGHAL CANAL -KARNAL

SABZI MANDI SIDE ENTRANCE GATE

SHEET NO. 11



LEGEND.....

DRIVE WAY	ENTRANCE PIAZZA
BUILT PART	SERVICE CORE
PATH WAY	GREEN AREA

conceptual view of entrance from sabzi mandi side

conceptual view of entrance from sabzi mandi side

vastumandala karnal

MUGHAL CANAL -KARNAL

a step to smart city.....

design USP's

developement of nodes:

junction at meerut road:

hanging bridge.: attraction to kids:

junction at subji mandi road

entrance reflects hindu architecture

water channel :impression to mughal canal

junction at gt road

iconic building :complements modern era

60 m high building

signages :

spaces earmarked -commercial signage.

directional signages - utilities /conviniences/landmarks

encourages - roof top solar system,

- wi-fi
- recycling of sewage waste water for public utilities
- reuse of storm water for garden

sustainability:

solar operated lamp post

swachh bharat abhiyan

litter boxes at every 10 m

rest rooms at every 60 m

flexibility in design:

phase development

modular system of planning

parking:

total parking- 4000 car parks

traffic free shopping area

night shelter for the poor

hub - all time activities

enhances trade

saleable area:

total built up area :Approx 1,44,000 sqm

commercial plots :Approx24,000 sqm

low rise shops :12000 sq m

plotted area 36000 sqm

area (solar panels) 30000 sq m

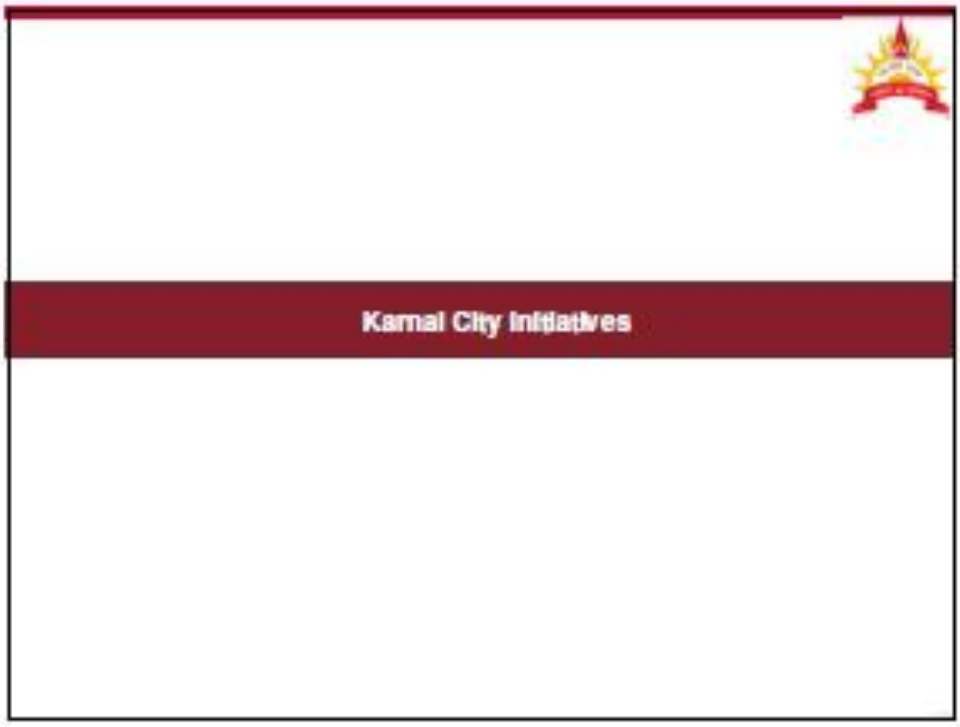
solar power generation 2 mega watt

suffices- lifts, escalators, street lights, park lights and electrification of parking area

To curb illegal construction on terraces the sale agreement with the owners will be with the clause that the terrace right of the terrace expect 12 sqmt for mumty and oht shall remain with the trust and these terraces right will be sold to solar development companies for roof top solar power generation

vastumandala karnal

6.13 Smart City Initiatives by Municipal Corporation



e – Rickshaws in Karnal

- e – Rickshaws to enhance the mobility of the city
- It helps to lower CO_2 levels & reduces pollution
- 1st Phase – 50 e – Rickshaws, 90% funded by MCK & 10% beneficiary
- At present more than 200 e-Rickshaws in the city

e – Rickshaw has sustainably enhanced Karnal City Mobility

21

Public Bike Sharing in Karnal

- 'Saanjhi Cycle' of Karnal - 'Commendable' initiatives of NMT, by MoUD
- 200 Cycles in PPP mode promoting NMT in Karnal
- Present 17+1 Docking Stations & Proposed 20 more Docking Stations
- The cycles and key has RFID - acts as anti – theft.
- Online website to register & real time data

Cycle Docking Stations in Karnal

Cycles with RFID

Best NMT award by MoUD

22

Open Spaces and Free Wi-Fi

- Karn Tal re-development - Recreation Spaces
- Open Gym in Karnal parks
- At present 6 parks + Municipal Corporation Office with free Wi-Fi
- Proposed 20 parks with free Wi-Fi to facilitate e-consumer services in Karnal

Karn Tal redevelopment with free Wi - Fi

Beautification and Open Gym

MCK Office with Free Wi-Fi

Free Wi-Fi points

e – Governance Initiatives

- Citizen Facilitation Center for 16 services
- Online Birth and Death certificates
- e – Kiosk and Web Portals for Citizen Services and communication
- Biometric based attendance for employees
- Citizen complaint redressal apps i-Seva, MCK app, Safety Pin, SBA app

e – Toilet locator app

MCK services app

Online birth - death registration

Online grievances

Raahgiri - Karnal

- Every Sunday 7am to 9 am
- Citizen engagement activities by MCK & Karnal Police
- Public awareness campaigns & engagement activities

raahgiri

राहगीरी में विभिन्न कार्यक्रमों का आयोजन

Raahgiri - Karnal

राहगीरी में दिखाए रस्साकशी के दांव

raahgiri

Various Citizen Engagement activities during Raahgiri

7 Letter of Support from Institutions and Organizations

7.1 Letter of Support from Director – NDRI

भाकृअनुप-राष्ट्रीय डेरी अनुसंधान संस्थान
ICAR-NATIONAL DAIRY RESEARCH INSTITUTE
(मान्य विश्वविद्यालय)
(Deemed University)
करनाल-132001, (हरियाणा) भारत
KARNAL- 132001, (Haryana) India

सुशांत साहा
संयुक्त निदेशक (प्रशासन)
एवं कुलसचिव
Susanta Saha
Jt. Director (Admn.)
& Registrar

संदर्भ सं./Ref. No. 2-1/[illegible]
दिनांक /Dated 22-3-17

To,

Commissioner,
Municipal Corporation,
Karnal, Haryana

Subject: Letter of Support for Karnal Smart City Initiative under Smart City Mission of Government of India.

Dear Sir,

This has reference to various discussions held with Municipal Corporation Karnal in the context of Smart City Project of Karnal. It gives us immense pleasure to applaud Municipal Corporation Karnal for its efforts for Smart City initiative for Karnal.

We are Keen to associate with Municipal Corporation Karnal and support in implementation of the Smart City initiatives – Creating Karnal into a Knowledge based city and start up hub. We would be willing to be a part of this project and to provide any technical assistance and partner with Municipal Corporation Karnal in its endeavor to make Karnal a Smart city.

We as an Institution are always willing to share our plans and views on the same to get desired outcome. We look forward to working with Municipal Corporation Karnal and Karnal Smart City SPV in future.

Regards,

Yours faithfully,

(Susanta Saha)

7.2 Letter of Support from Director – ICAR

भारतीय कृषि अनुसंधान संस्थान, क्षेत्रीय स्टेशन, करनाल-132001 (हरियाणा)
Indian Agricultural Research Institute
Regional Station, Karnal-132001 (Haryana)

Phones : (Off.) 0184-2267169
Resi. : 0184-2267365
Fax : 0184-2266672
E-mail : head_karnal@iari.res.in

संदर्भ / Ref. No. ICAR:IARI/KNL/PS/2017/ 1425

दिनांक / Date 16.03.2017

The Commissioner,
Municipal Corporation,
Karnal, Haryana

Sub.: Letter of Support for Karnal Smart City Initiative under Smart City Mission of Government of India.

Dear Sir,

This has reference to various discussions held with Municipal Corporation Karnal in the context of Smart City Project of Karnal. It gives us immense pleasure to applaud Municipal Corporation Karnal for its efforts for Smart City initiative for Karnal.

We are Keen to associate with Municipal Corporation Karnal and support in implementation of the Smart City initiatives. We would be willing to be a part of this project and to provide any technical assistance and partner with Municipal Corporation Karnal in its endeavor to make Karnal a Smart city.

We as an organization/Institution are always willing to share our plans and views on the same to get desired outcome. We look forward to working with Municipal Corporation Karnal and Karnal Smart City SPV in future.

With regards

Sincerely yours

(VK Pandita) 16/03/17
Head (Actg.)

7.3 Letter of Support from District Town Planner

Department of Town & Country Planning Haryana

OFFICE OF THE DISTRICT TOWN PLANNER, KARNAL

1st Floor, HUDA Complex, Sector-12, Karnal-132001
Website : www.tcpharyana.gov.in

☎: 0184-2267528 E-mail :dtp.karnal.tcp@gmail.com

To,

Commissioner,
Municipal Corporation,
Karnal, Haryana.

Memo No.: 1039 Dated: 29-03-17

Subject: **Letter of Support for Karnal Smart City Initiative under Smart City Mission of Government of India.**

Dear Sir,

It gives us immense pleasure and feeling of pride that Karnal City has been selected for development as Smart City and is participating in Round 3 Smart City Challenge. We understand that transformation of Karnal into Smart City would make our City liveable and economically vibrant but this journey of sustainable transformation would require wholehearted participation and dedicated support from all citizens, institutions and organizations from all walks of life.

This office shall provide all the best support to Municipal Corporation Karnal and Karnal Smart City SPV for this transformative mission and assure a whole hearted support from our organization/institution.

District Town Planner,
Karnal

7.4 Letter of Support from Joint Director – District Industries

From

The Joint Director,
Distt. Industries Centre,
Karnal.

To,

The Commissioner,
Municipal Corporation,
Karnal, Haryana

Memo No. DIC/KNL/Admin./ 491
Dated: 16/03/2017

Subject: **Letter of Support for Karnal Smart City Initiative under Smart City Mission of Government of India.**

Dear Sir,

It gives us immense pleasure and feeling of pride that Karnal City has been selected for development as Smart City and is participating in Round 3 Smart City Challenge. We understand that transformation of Karnal in to Smart City would make our City liveable and economically vibrant but this journey of sustainable transformation would require wholehearted participation and dedicated support from all citizens, institutions and organizations from all walks of life.

We wish all the very best to Municipal Corporation Karnal and Karnal Smart City SPV for this transformative mission and assure a whole hearted support from our organization/institution.

With Regards,

Your Sincerely

(Bhagmal)
Joint Director,
District Industries Centre,
Karnal

7.5 Letter of Support from HSIIDC

हरियाणा राज्य औद्योगिक
एवं संरचना विकास
निगम लिमिटेड
औद्योगिक सम्पदा, करनाल

Haryana State Industrial and Infrastructure Development Corporation Ltd.
Industrial Estate, Karnal
Ph. No.: 0184-2221175, 2220043

(A State Government Undertaking)

XEN-I for n/a
as per rules.

No: HSIIDC:IA:K:2017: 1097

Dated: 17.3.2017

CMC

Commissioner,
Municipal Corporation,
Karnal, Haryana.

916
22-3-17

Sub:-Letter of support for Karnal Smart City initiative under Smart City mission of Govt. of India.

Sir,

This has reference to various discussions held with Municipal Corporation, Karnal, in the context of Smart City Project of Karnal. It give us immense pleasure to applaud Municipal Corporation Karnal, for its efforts for Smart City initiative for Karnal.

We are keep to associate with Municipal Corporation Karnal and support in implementation of the smart city initiatives. We would be willing to be a part of this project and to provide any technical assistance and partner with Municipal Corporation Karnal in its endeavor to make Karnal a Smart City.

We as an organization/ Institution are always willing to share our plans and view on the same to get desired outcome. We look forward to working with Municipal Corporation Karnal and Karnal Smart City SPV in future.

Thanking you,

For Hr. State Indl.& Infra Dev. Corp. Ltd.,

Senior Manager (IA)

HSIIDC - your partner in progress

पंजीकृत : कार्यालय : सी. 13-14, सेक्टर - 6, पंचकूला - 1340109

REGD. OFF : NO. C - 13-14, SECTOR - 6, PANCHKULA, TEL. : (0172) 2588481-83, FAX : 91(0172)2588474 E-MAIL : info@hsiidc.org WEBSITE : www.hsiidc.org.in
FIELD OFFICE : SECTOR - 3, NAMASTEY CHOWK, KARNAL, TELEFAX - 0184-2221175, 2220043
Corporate Identity Number : [illegible]

7.6 Letter of Support from Regional Transport Authority

From

Secretary,
Regional Transport Authority,
Karnal

To,

The Commissioner,
Municipal Corporation,
Karnal, Haryana

Memo no. 1569
Dated 28-3-2017

Subject: Letter of Support for Karnal Smart City Initiative under Smart City Mission of Government of India.

Dear Sir,

This has reference to various discussions held with Municipal Corporation Karnal in the context of Smart City Project of Karnal. It gives us immense pleasure to applaud Municipal Corporation Karnal for its efforts for Smart City initiative for Karnal.

We are Keen to associate with Municipal Corporation Karnal and support in implementation of the Smart City initiatives – Creating Karnal into a knowledge based enterprises and start up hub. We would be willing to be a part of this project and to provide any technical assistance and partner with Municipal Corporation Karnal in its endeavor to make Karnal a Smart city.

We as an Organization are always willing to share our plans and views on the same to get desired outcome. We look foreward to working with Municipal Corporation Karnal and Karnal Smart City SPV in future.

Secretary,
Regional Transport Authority,
Karnal.

7.7 Letter of Support from ITI, Karnal

OFFICE OF THE PRINCIPAL, BABU MOOL CHAND JAIN
GOVT. INDUSTRIAL TRAINING INSTITUTE, KARNAL-132001 BALDEV SINGH SAGWAL, PRINCIPAL
(PHONE & FAX:-0184-2232388) AN I.S.O 9001-2008 CERTIFIED INSTITUTE, 9896247149

To,

Commissioner,
Municipal Corporation,
Karnal, Haryana

Subject: Letter of Support for Karnal Smart City Initiative under Smart City Mission of Government of India.

Dear Sir,

This has reference to various discussions held with Municipal Corporation Karnal in the context of Smart City Project of Karnal. It gives us immense pleasure to applaud Municipal Corporation Karnal for its efforts for Smart City initiative for Karnal.
We are Keen to associate with Municipal Corporation Karnal and support in implementation of the Smart City initiatives. We would be willing to be a part of this project and to provide any technical assistance and partner with Municipal Corporation Karnal in its endeavor to make Karnal a Smart city.
We as an organization/Institution are always willing to share our plans and views on the same to get desired outcome. We look forward to working with Municipal Corporation Karnal and Karnal Smart City SPV in future.

Regards

Principal
B.M.C.I. GOVT. I.T.I.
Karnal.

Babu Mool Chand Jain
Govt. Industrial Training Institute
Karnal-132001

7.8 Letter of Support from District Sports and Youth affairs, Karnal

Distt. Sports & Youth Affairs Officer
Karnal

Ref. No. Sports 2017/..... **Dated.....**

To,

Commissioner,
Municipal Corporation,
Karnal, Haryana

Subject: Letter of Support for Karnal Smart City Initiative under Smart City Mission of Government of India.

Dear Sir,

It gives us immense pleasure to applaud Municipal Corporation Karnal for its efforts for Smart City initiative for Karnal City. We firmly believe that this initiative will greatly benefit the city and its citizens.

Further, we are writing to express our full support to express my full support to Municipal Corporation Karnal for proposed Smart City Project. It is our pleasureto be a part of the Smart City initiative and feel confident expressing my full support in future.

We look forward to working with Municipal Corporation Karnal and Karnal Smart City SPV in future.

Distt. Sports & Youth Affairs Officer
Karnal

Distt. Sports & Youth Affairs Officer, Karnal

7.9 Letter of Support from District Council for Child Welfare

DISTRICT COUNCIL FOR CHILD WELFARE

BAL BHAWAN, NYAY PURI, KARNAL

Phone: 0184-2273719

President:
Sh. Mandip Singh Brar, IAS
Deputy Commissioner,
KARNAL (Haryana)

General Secretary:
Sarabjit Singh Sibia
Distt. Child Welfare Officer,
KARNAL (Haryana)

Ref. No. DCCW/KNL/2757

Dated: 16/7/2017

To

The Commissioner,
Municipal Corporation,
Karnal, Haryana

Subject: Letter of Support for Karnal Smart City Initiative under Smart City Mission of Government of India.

Dear Sir,

This has reference to various discussions held with Municipal Corporation Karnal in the context of Smart City Project of Karnal. It gives us immense pleasure to applaud Municipal Corporation Karnal for its efforts for Smart City initiative for Karnal.

We are Keen to associate with Municipal Corporation Karnal and support in implementation of the Smart City initiatives. We would be willing to be a part of this project and to provide any technical assistance and partner with Municipal Corporation Karnal in its endeavor to make Karnal a Smart city.

We as an organization/Institution are always willing to share our plans and views on the same to get desired outcome. We look forward to working with Municipal Corporation Karnal and Karnal Smart City SPV in future.

Regards

Yours faithfully,

District Child Welfare Officer,
Karnal

7.10 Letter of Support from Guru Nanak Khalsa College

Ph. : 0184-2252873
Fax : 0184-4045873

GURU NANAK KHALSA COLLEGE
(A Post-Graduate Institution)
KARNAL - 132 001
Website : www.gnkckarnal.org | E-mail : principal.gnkcknl@gmail.com

Ref.No. GNKC/17/1589 Date 20/03/2017

To,

Commissioner,
Municipal Corporation,
Karnal, Haryana

Subject: Letter of Support for Karnal Smart City Initiative under Smart City Mission of Government of India.

Dear Sir,

This has reference to various discussions held with Municipal Corporation Karnal in the context of Smart City Project of Karnal. It gives us immense pleasure to applaud Municipal Corporation Karnal for its efforts for Smart City initiative for Karnal.

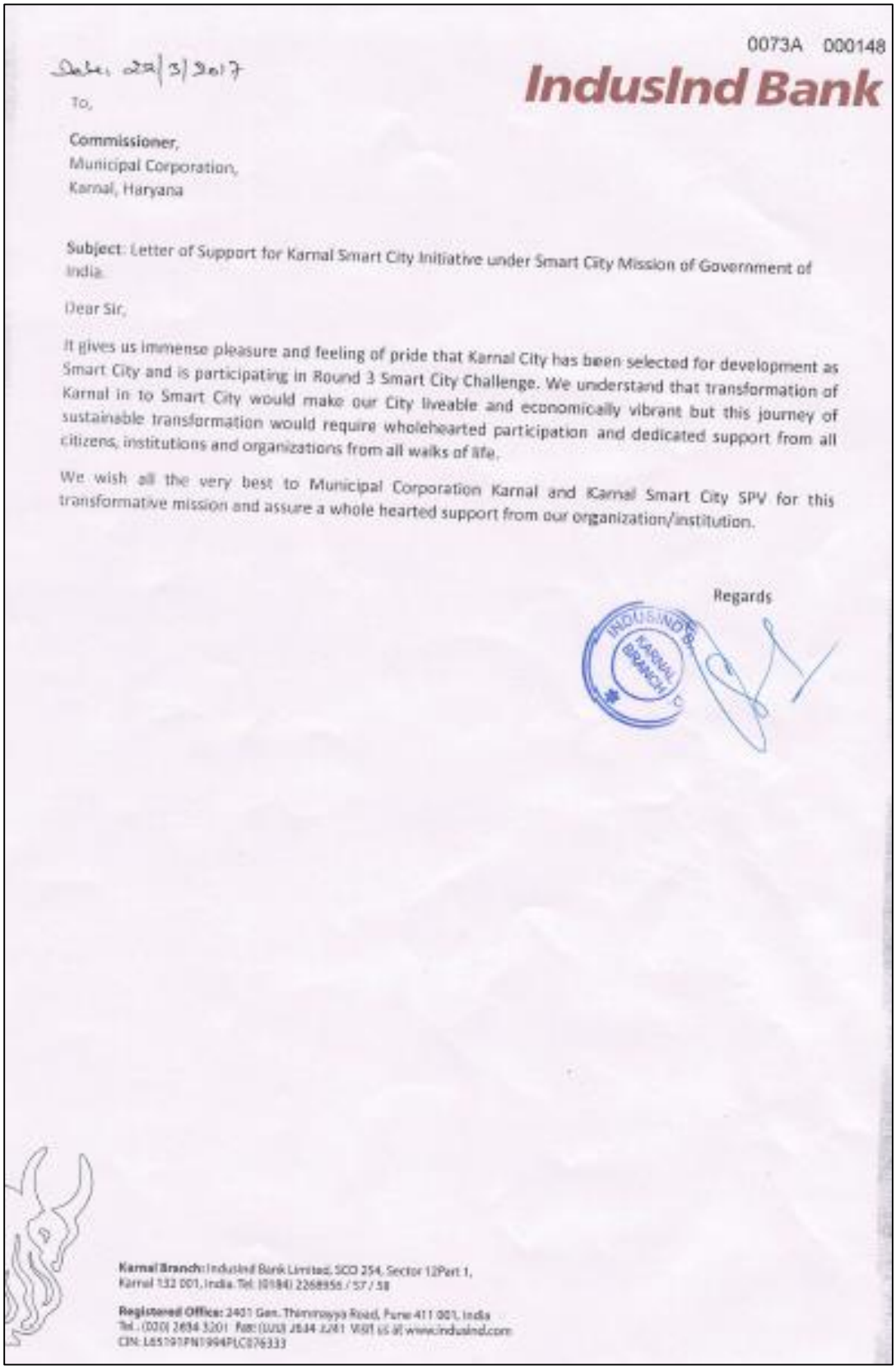
We are Keen to associate with Municipal Corporation Karnal and support in implementation of the Smart City initiatives. We would be willing to be a part of this project and to provide any technical assistance and partner with Municipal Corporation Karnal in its endeavor to make Karnal a Smart city.

We as an organization/Institution are always willing to share our plans and views on the same to get desired outcome. We look forward to working with Municipal Corporation Karnal and Karnal Smart City SPV in future.

Regards

Principal
Guru Nanak Khalsa College
KARNAL

7.11 Letter of Support from



0073A 000148

Date: 22/3/2017

IndusInd Bank

To,

Commissioner,
Municipal Corporation,
Karnal, Haryana

Subject: Letter of Support for Karnal Smart City Initiative under Smart City Mission of Government of India

Dear Sir,

It gives us immense pleasure and feeling of pride that Karnal City has been selected for development as Smart City and is participating in Round 3 Smart City Challenge. We understand that transformation of Karnal in to Smart City would make our City liveable and economically vibrant but this journey of sustainable transformation would require wholehearted participation and dedicated support from all citizens, institutions and organizations from all walks of life.

We wish all the very best to Municipal Corporation Karnal and Karnal Smart City SPV for this transformative mission and assure a whole hearted support from our organization/institution.

Regards

INDUSIND BANK KARNAL BRANCH

Karnal Branch: IndusInd Bank Limited, SCO 254, Sector 12Part 1, Karnal 132 001, India. Tel: (0184) 2268956 / 57 / 58

Registered Office: 2401 Gen. Thimmayya Road, Pune 411 001, India
Tel.: (020) 2634 3201 Fax: (020) 2634 3241 Visit us at www.indusind.com
CIN: L65191PN1994PLC076333

7.12 Letter of Support from SAT International Pvt Ltd

airmax BROADBAN
ULTRA FAST INTERN

To,

The Commissioner,
Municipal Corporation,
Karnal, Haryana

Subject: Letter of Support for Karnal Smart City Initiative under Smart City Mission of Government of India.

Dear Sir,

Ministry of Urban Development, Government of India has launched Smart City Mission in 2015 with an objective to promote cities that provide core infrastructure and give a decent quality of life to its citizens, a clean and sustainable environment and application of Smart Solutions. This has reference to the various discussions held with Municipal Corporation Karnal in the context of participation of Karnal in Smart City Challenge Round – 3. It gives immense pleasure to applaud Municipal Corporation Karnal for its effort on preparing a Smart City Vision and Plan for Karnal.

We are keen to associate with Municipal Corporation Karnal and support in the implementation of the Smart City initiatives. We would be willing to be a part of this project and to provide any technical assistance and partner with Municipal Corporation in its endeavor to make Karnal a Smart City. We would take this opportunity to assure you of all possible support to the Municipal Corporation Karnal and Karnal Smart City SPV in making Karnal a Smart City.

For Sat International Pvt. Ltd.
Director

Regards

SAT International Private Limited (CIN : U72300HR2013PTC050947)
SCF 82 83, 3rd Floor, Mugal Canal, Karnal - 132001 (Haryana), India
Phone: +91 805 967 0000, Email: info@airmaxinfo.com, Web: www.airmaxinfo.com

7.13 Letter of Support from Vodafone Mobile Services Ltd

To,

Commissioner,
Municipal Corporation,
Karnal, Haryana

Subject: Letter of Support for Karnal Smart City Initiative under Smart City Mission of Government of India.

Dear Sir,

This has reference to various discussions held with Municipal Corporation Karnal in the context of Smart City Project of Karnal. It gives us immense pleasure to applaud Municipal Corporation Karnal for its efforts for Smart City initiative for Karnal.

We are keen to associate with Municipal Corporation Karnal and support in implementation of the Smart City initiatives – Creating Karnal into a knowledge based enterprises and start up hub. We would be willing to be a part of this project and to provide any technical assistance and partner with Municipal Corporation Karnal in its endeavor to make Karnal a Smart city.

We as an Organization are always willing to share our plans and views on the same to get desired outcome. We look forward to working with Municipal Corporation Karnal and Karnal Smart City SPV in future.

Regards

Vodafone Mobile Services Limited CIN U64202DL1992PLC088087
Plot No. 173, HSIIDC, Sector 3, Industrial Area, Karnal, Haryana – 132001, India

7.14 Letter of Support from Nikom Infrasolutions Pvt Ltd

building trust...

Dated: 16-3-2017

To,

Commissioner,

Municipal Corporation,

Karnal, Haryana

Subject: Letter of Support for Karnal Smart City Initiative under Smart City Mission of Government of India.

Dear Sir,

Ministry of Urban Development, Government of India has launched Smart City Mission in 2015 with an objective to promote cities that provide core infrastructure and give a decent quality of life to its citizens, a clean and sustainable environment and application of smart solutions. This has reference to the various discussions held with Municipal Corporation Karnal in the context of participation of Karnal in Smart City Challenge Round -3. It gives immense pleasure to applaud Municipal Corporation Karnal for its effort on preparing a Smart City Vision and Plan for Karnal.

We are keen to associate with Municipal Corporation Karnal and support in the implementation of the Smart City Initiatives. We would be willing to be a part of this project and to provide any technical assistance and partner with Municipal Corporation in its endeavor to make Karnal a Smart City. We would take this opportunity to assure you of all possible support to the Municipal Corporation Karnal and Karnal Smart City SPV in making Karnal a Smart City.

Regards

For Nikom InfraSolutions Pvt. Ltd.

Arin Sarkar (9988127604)

arin@nikom.in

Nikom InfraSolutions Pvt. Ltd.

(An ISO 9001 Certified Company)

309, Skylark Building, 60, Nehru Place, New Delhi - 110019

Tel. : 91-11-40088860, 41606372, 41306655, 41306699 Fax : 41606375

Branch Offices : # Bangalore, Chennai, Delhi, Gurgaon, Kolkata, Jaipur, Uttar Pradesh

Website : www.nikom.in

MEMBER

Best Enterprise Partner (APC) | Building Datacentres On Demand | Services Available All over India

CIN NO. : U74999DL2000PTC103525

7.15 Letter of Support from Ridings Consulting Engineers India Pvt Ltd

Ridings Consulting Engineers India Private Limited
Offers State-of-the Art Turnkey Solutions, Consultancy & Software Dev. Services
Geospatial Services (GIS), Remote Sensing, Digital Mapping, Ground Survey & Cartographic Services,
Ground Penetrating Radar (GPR) Survey for All Underground Utilities Detection
REGD. WITH UNDP: WB, ADB, NTPC, NRSC, RITES, DOS & OTHER MANY GOVT. DEPTS.
VRC Quality Excellence
ISO 9001:2015

To
The Commissioner
Municipal Corporation,
Karnal, Haryana

Date: 23rd March, 2017

Subject: - Letter of support for Karnal Smart City initiative under smart city mission of Government of India.

Dear Sir,

Ministry of urban development, Government of India has launched smart city mission in 2015 with an objective to promote cities that provide core infrastructure and give a decent quality of life to its citizens, a clean and sustainable environment and application of smart solutions. This has reference to the various discussions held with municipal corporation Karnal in the context of participation of Karnal in smart city challenge round-. It has given us immense pleasure to applaud municipal corporation Karnal for its efforts on preparing a smart city vision and plan for Karnal.

We are keen to associate with Municipal Corporation Karnal and support in the implementation of the smart city initiatives. We would be willing to be a part of this project and to provide a technical assistance and partner with Municipal Corporation in its endeavor to make Karnal a smart city. We would take this opportunity to assure you of all possible support to the municipal corporation Karnal and Karnal smart city SPV in making Karnal a smart city.

OUR PROFILE & AREA OF EXPERTIZE:-

Ridings Consulting Engineers India Pvt. Ltd. (RCE-I) is a company at the leading edge of technology providing an entire range of services in the field of Remote Sensing, Topographical Surveying, GIS Mapping and GPR survey (for utilities both above and underground) in India & Abroad. The core strength of its company lies in the experience of the professionals, access to the state-of-the-art instrumentation, professional approach towards business and a deep understanding of Topographical Surveys through EX-SOI Employees for over 20 years. It has made its mark in the market and has tie ups at National Level with major industrial groups in India. RCE-I has a team of highly qualified professional and technical staff that combines to form dedicated project teams drawn from relevant disciplines to services the requirements of emerging projects in various sectors.

RCE-I has established state-of-art GIS, GPS, GPR and Total Station procedure and methodologies for very large scale Digital Mapping and Ground Survey capabilities through adoption of latest Digital

A Company with Global Thinking & Universal Outlook
Correspond at Corporate Office: Premises Nos. 429- 430, Block- II, 2nd Floor, Ganga Shopping Complex, Sector -29, Noida- 201 303, N. C. R., India
PBX - +91- 120- 4694500 Fax: - +91- 120- 2450429
E-mail: rceipl@ridingsindia.com Website: www.ridingsindia.com
Regd. Off.: 15/81 LGF, VIKRAM VIHAR, LAJPAT NAGAR –IV , NEW DELHI, DELHI-110024
CIN : U74899DL1999PTC076009

Mapping /Data Generation Techniques i.e. using Remote Sensing techniques, Satellite imagery of various resolution as per requirements. These techniques are designed to comprehensively address various types of tasks that pertinent to the relevant project.

Recently the company has developed expertise in LiDAR technology, as part of undersigned World Bank Consultancy & got it adopted for use in NHAI.

The Company has worked as GIS Mapping Consultant to Bharti Airtel Ltd. and was engaged in GIS activities of RIL, TCS, L & T, and Sterlite. RCE started its Middle East operation few years back and has established itself on sound footing in Bahrain and is engaged in spreading its wings in other Middle East and African countries.

Thanking you
For Ridings Consulting Engineers India Pvt. Ltd.

(S D Baveja)
Managing Director

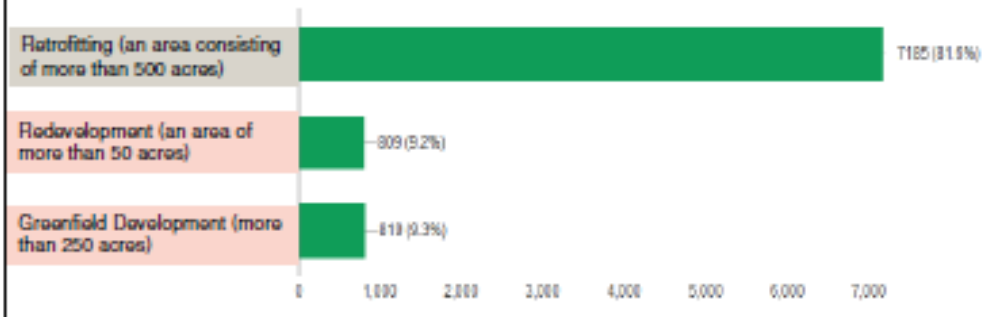
8 Selection of ABD

Area Based Development (ABD) – Area Options

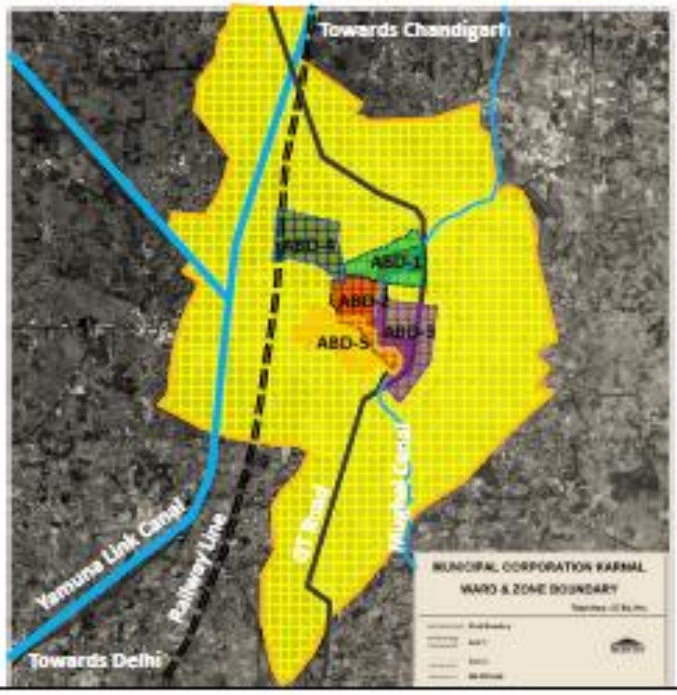
ABD Public Poll Results

Give your preference of method to be considered for Area-based Development Program of Karnal Smart City?

(8810 responses)

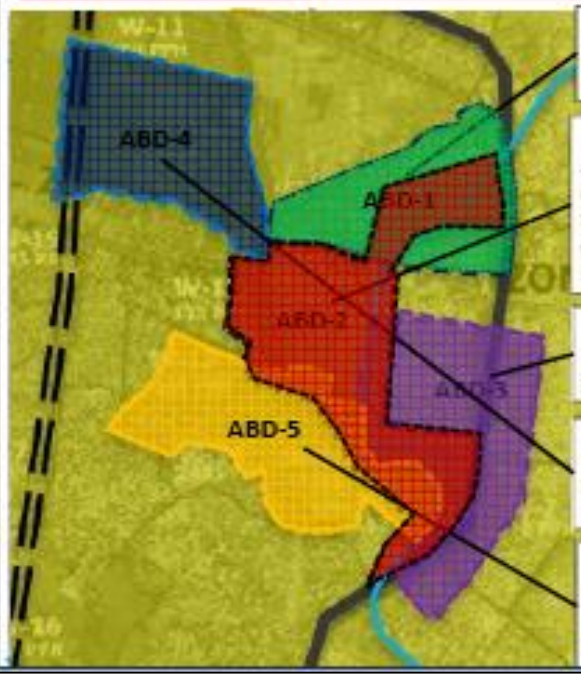


Karnal ABD Retrofitting Options



29

ABD – Site Selection



ABD Area 1

Area comprising of: Model Town, Dayanand colony, Saini Colony & Sector 12 (1 & 2)

ABD Area 2

Area comprising of: Model Town, Dayanand colony, Mughal Canal (1,2&3), Sector 13 Extension, Old Char Chaman, Kunjpura Road, GT Road, Meerut Road, Karan Taal, Old Sabji Mandi, Old MC, Sadar Bazar & Sector-14

ABD Area 3

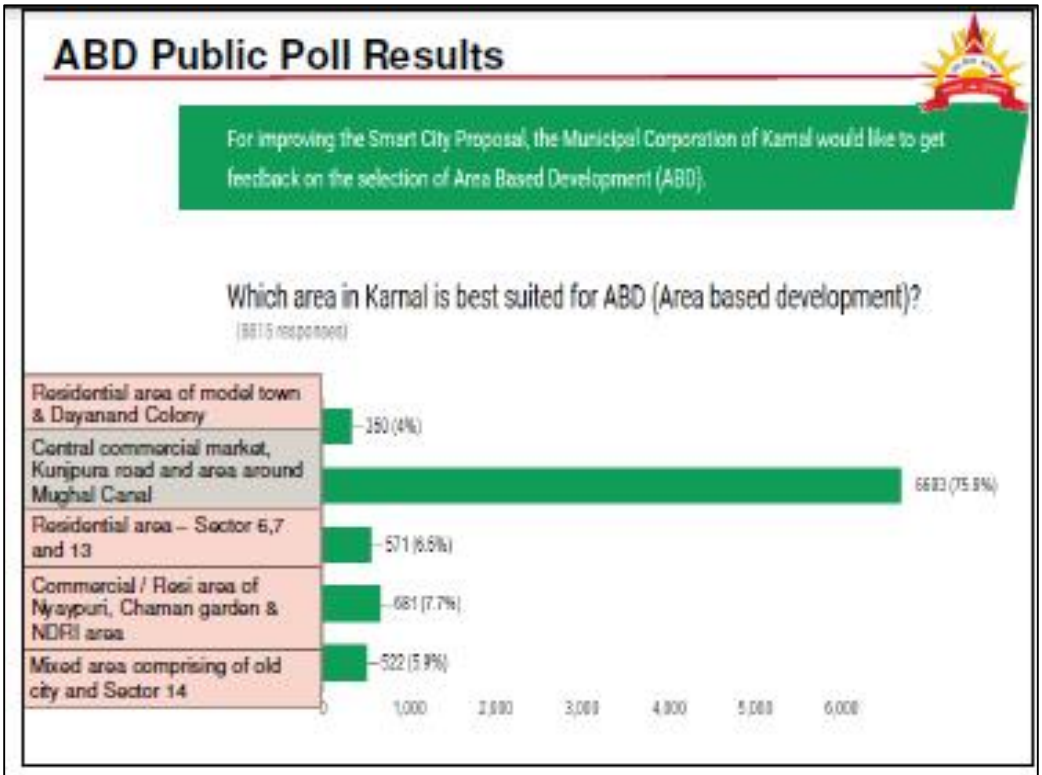
Area comprising of: Sector-13, Sector-7, Sector-6, Housing Board Colony

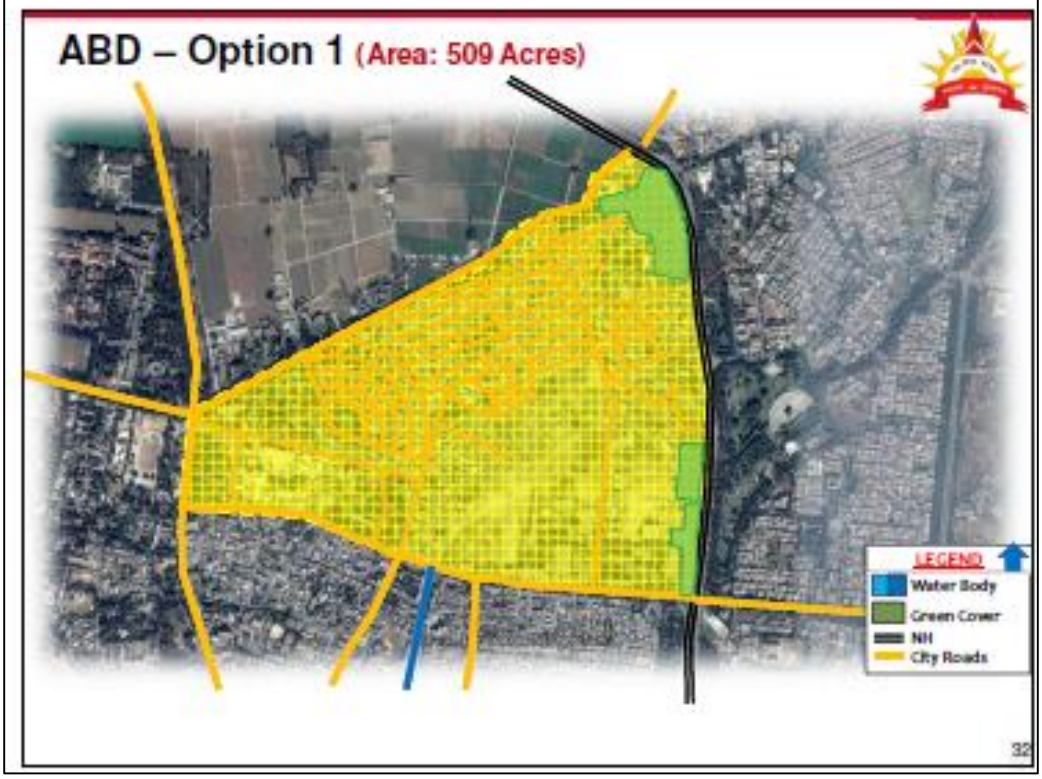
ABD Area 4

Area comprising of: Nayaypuri, Chaman Garden, Bank Colony, Azad Nagar, Ibrahim Mandi, Choudhary House, Shakti Colony

ABD Area 5

Area comprising of Old City, Moti Nagar, Old Grain Market, Sadar Bazar, Ramesh Nagar, Karan Taal, Novalty Road, Anad Vihar Colony


ABD Public Poll Results
For improving the Smart City Proposal, the Municipal Corporation of Karnal would like to get feedback on the selection of Area Based Development (ABD).
Which area in Karnal is best suited for ABD (Area based development)?
(8815 responses)
Residential area of model town & Dayanand Colony
350 (4%)
Central commercial market, Kunjpura road and area around Mughal Canal
6683 (75.8%)
Residential area – Sector 6,7 and 13
571 (6.5%)
Commercial / Resi area of Nyaypuri, Chaman garden & NDRI area
681 (7.7%)
Mixed area comprising of old city and Sector 14
522 (5.9%)
0
1,000
2,000
3,000
4,000
5,000
6,000


ABD – Option 1 (Area: 509 Acres)
LEGEND
Water Body
Green Cover
NH
City Roads
32

Landmarks

Kalpana Chawla Government Medical College

Mall Road

Ambedkar Chowk

District Court Karnal

33

ABD – Option 2 (Area: 745 Acres)

34

Landmarks

Namaste Chowk

Mughal Canal-I

Ghantaghar Chowk

Karan Taal

35

Issues

Dumping of Waste at Plot between Sabji Mandi and Mughal Canal

Street Vending

Traffic Conflict Point at Bust Stand

No Provision for the Pedestrian Movement & Parking along the Street

36

Opportunities

Aashiyana Housing: It could be used for relocation of the Slum

PR Department Land: It could be utilized for some Public Use

37

ABD – Option 3 (Area: 1098 Acres)

38

Landmarks

Nirmal Kutia

Residential Area at Sector 13

Government College

Green Belt Along Highway

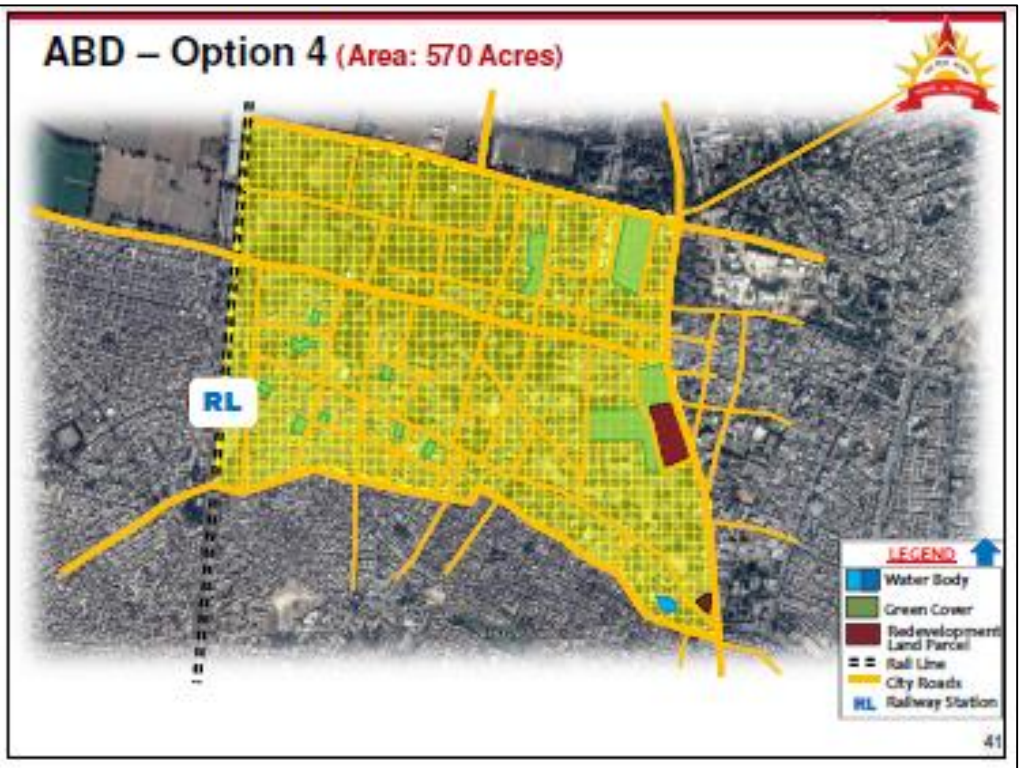
39

Redevelopment Option & Proposal

Mughal Canal-2&3

Proposal for Mughal Canal 2&3

40


ABD – Option 4 (Area: 570 Acres)
RL
LEGEND
Water Body
Green Cover
Redevelopment Land Parcel
Rail Line
City Roads
RL Railway Station
41

Landmarks
Railway Station
Residential Area at Chaman Garden
KCGH T-Junction
Durga Temple
42

Redevelopment Options & Proposals

Old MC Building

Bus Stand

Proposal for Old MC Office

43

ABD – Option 5 (Area: 504 Acres)

44

ABD Comparison Matrix

Parameters	ABD Option 1	ABD Option 2	ABD Option 3	ABD Option 4	ABD Option 5
Total Area	509 Acres	745 Acres	1098 Acres	570 Acres	504 Acres
Population	22941	34532	35482	23031	65519
% of City population	6.42%	9.66%	9.92%	6.44%	18.33%
Population density	112 PPH	114 PPH	80 PPH	100 PPH	321 PPH
Redevelopment parcels if any		1. Mughal Canal 2&3 2. Old Sabzi Mandi 3. Old MC office 4. Bus Stand 5. PR Department Land	1. Mughal Canal 2&3	1. Old MC Office 2. Bus Stand	1. Old MC Office 2. Old Sabzi Mandi 3. Old Anaaz Mandi

47

9 Abbreviations

1. NMT - Non Motorised Transport
2. CCTV - Closed-circuit television
3. MCK – Municipal Corporation of Karnal
4. PWD – Public Works Department
5. HUDA – Haryana Urban Development Authority
6. MLD - Million liters per day
7. SCADA - Supervisory Control and Data Acquisition
8. LPCD - Litres per Capita per Day
9. PHED - Public Health Engineering Department
10. D/D – Door to Door
11. GPS - Global Positioning System
12. TPD - *Tons Per Day*
13. RDF – Refuse Derived Fuel
14. DSP - Deputy Superintendent of Police
15. SHO - *Station House Officer*
16. PCR -*Police Control Room*
17. UHBVN - Uttar Haryana Bijli Vitran Nigam (UHBVN)
18. HVPNL - Haryana Vidyut Prasaran Nigam Limited
19. UID - Unique Identification Number
20. HRMS
21. NIC - National Informatics Centre
22. DULB - Directorate of Urban Local Bodies Department *Haryana*
23. SBM - Swachh Bharat Mission
24. MoUD - *Ministry Of Urban Development*
25. NCR - National Capital Region
26. NCRPB - National Capital Region Planning Board
27. NDRI – National Dairy Research Institute
28. CSSRI - Central Soil Salinity Research Institute
29. LPG - *Liquefied Petroleum Gas*
30. MSEs - Micro & Small Enterprises
31. MSMEs - Micro, Small and Medium Enterprises
32. BPO - Business process outsourcing
33. HT - High Tension
34. IPDS - Integrated Power Development Scheme
35. INR - Indian National Rupees
36. DPR - Detailed Project Report
37. ITI - Industrial Training Institute
38. ICT - Information and Communication Technology
39. IoT – Internet of Things
40. SWM – Solid Waste Management
41. RWA - Resident Welfare Association
42. SCP – Smart City Proposal
43. SCM – Smart City Mission
44. MLCP – Multi level Car Parking
45. SWOT – Strengths Weaknesses Opportunities Threats
46. ODF - Open Defecation Free
47. LED - Light Emiting Diode
48. CSR - Corporate Social Responsibility
49. FM - Frequency Modulation

50. CBA – Central Business Area
51. ABD – Area Based Development
52. FGD – Focus Group Discussions
53. FAR – Floor Area Ratio
54. AMRUT – Atal Mission for Rejuvenation and Urban Transformation
55. IEC - Information, Education, Communication
56. SLTC - State Level Technical Committee
57. PIU - Project Implementation Unit
58. STP – Sewerage Treatment Plant
59. JNNSM – Jawaharlal Nehru National Solar Mission
60. PMKVY – Pradhan Mantri Kaushal Vikas Yojana
61. NSDC - **National Skill** Development Corporation
62. IT – Information Technology
63. ITES – Information Technology Enabled Services
64. HUDA – Haryana Urban Development Agency
65. NGOs – Non Government Organisations
66. SPV – Special Purpose Vehicle
67. CAPEX - **Capital expenditures**
68. OPEX - operating expenses
69. PPP – Public Private Partnership
70. NRW – Non Revenue Water
71. MLD - Millions of Liters Per Day
72. RFID - Radio Frequency Identification
73. ITS - **Intelligent Transportation Systems**
74. HMIS – Hospital Management Information System
75. SPV – Special Purpose Vehicle
76. ICAR - Indian Council of Agricultural Research
77. NBAGR - National Bureau of Animal Genetic Resources
78. NASSCOM - National Association of Software and Services Companies
79. NMT - Non-motorised transport
80. GIS – Geographic Information Systems
81. IoT – Internet of Things
82. GHG - Greenhouse gas emissions
83. KANSHKA – Karnal Nigrani Kshetriya Karyalaya
84. MP – Member of Parliament
85. GPS – Global Positioning Systems
86. OFC - Optical Fiber Cable
87. MIS – Management Information System
88. IOCC – Integrated Operation and Control Centre
89. PIS - Passenger Information System
90. PHC – Public Health Centre
91. CHC - **Community Health Center**
92. PT – Public Transport
93. HH – Households
94. RWH – Rainwater Harvesting
95. RCC – Reinforced Cement Concrete
96. PBS – Public Bike Sharing
97. SEBI – Securities and Exchange Board of India
98. HIPA - Haryana Institute of Public Administration

99. IHHL - Individual Household Latrine
100. GoI – Government of India
101. BOT – Build Operate Transfer
102. CM – Chief Minister
103. GoH – Government of Haryana

MINUTES OF MEETING

State Level High Power Steering Committee Meeting for Smart City Proposal Stage-II (Round-3) for Karnal held under Chairmanship of Worthy Chief Secretary to Govt. of Haryana, on 22.03.17 at 11:00AM at CS's Committee Room, 4th Floor Main Secretariat, Chandigarh.

The list of officers who attended meeting has been enclosed at Annexure- A.

Agenda Item No. 1

The Commissioner Municipal Corporation Karnal introduced the team of Municipal Corporation and Consultant Team preparing the Smart City Proposal for Karnal and also briefed the history and key points of the proposal prepared for Smart City Karnal to the worthy Chairperson and the Committee members.

The Commissioner, Municipal Corporation Karnal also informed that the project has been approved/ accepted by the House of Municipal Corporation Karnal through the means of a Resolution by circulation as well as District Level Task Force Committee Karnal Chaired by Deputy Commissioner, Karnal.

CRISIL team initiated the presentation by briefing the prospective and features of the Smart City Proposal over previous proposal submitted in Round 2, to the Committee. The team informed the following to the Committee:

(i) That the Smart City Proposal (Round-3) presented stand approved by the District Level Task Force Committee.

(ii) That the Smart City Project will consist of two main components which are Area Based Development and PAN City Solutions, which are proposed as per Guidelines of Smart City Mission circulated by MoUD.
   a. In Area Based Development, it is demonstrated that the area selected for ABD involving 720 acres of prime land around Ghanta Ghar Chowk, Kunjpura Road and Mughal Canal market, will directly impact to the population of 34532 residents (9.6% population of the city).
   b. The key projects/ plans for Area Based Development and PAN City solutions suiting the city profile on the basis of extensive consultations with Elected Members, citizens, sector experts and Government Departments have also been informed.

(iii) That financial implications involved in the SCP proposed for Karnal is coming to Rs.1295.81 Crores (approx.).

The Committee raised queries and acknowledged the reply given by the Commissioner, Municipal Corporation and the consultant team on the following:

(i) Status/ current position of solid waste Management, door to door collection of solid waste and its management and disposal. In response it is submitted that MCK is doing 100% door to door collection, which is being segregated at disposal point (i.e. waste to compost plant) being operated by Municipal Corporation. The Committee suggested that the Municipal Corporation shall consult Forest Department for use of compost.

(ii) Regarding smart parking, sewerage and water supply, the projects details were explained to the committee by the team.

Agenda Item no. 2

The Committee appreciated the work done and approved the proposal unanimously. Worthy Chief Secretary, to Govt. of Haryana, being the Chairman of State Level High Powered Steering Committee approved the project and recommended for submission of the same to MOUD as per Schedule of Key Activities for shortlisted Cities.

The meeting ended with vote of thanks to the Chair.

Following Officers Attended the Meeting (Held on 22.03.17 under Chief Secretary to Govt. of Haryana)

1. Sh. Sanjeev Kaushal, IAS, Additional Chief Secretary to Government Haryana.
2. Sh. Alok Nigam, IAS, Additional Principal Secretary to Govt. of Haryana PWD B&R.
3. Sh. Arun Kumar Gupta, IAS, Principal Secretary to Govt. of Haryana Town & Country Planning Department.
4. Smt. Amneet P. Kumar, IAS, Secretary to Government Haryana, Establishment and Finance Departments.
5. Dr. Aditya Dahiya, IAS, Commissioner Municipal Corporation Karnal.
6. Smt. Renu Bala Gupta, Mayor Municipal Corporation, Karnal.
7. Sh. B.S. Singroha, Chief Engineer, (Urban) Public Health Department, Panchkula.
8. Smt. Manjit Kaur, Chief Town Planner Urban Local Bodies Department Haryana.
9. Sh. O.P. Goyal, Chief Engineer Urban Local Bodies Municipal Corporation Faridabad.
10. Sh. Dinesh Chauhan, Senior Town Planner Urban Local Bodies Department Haryana.
11. Sh. Manjeet Singh Assistant Town Planner Urban Local Bodies Department Haryana.
12. Sh. Karthik Kamath, Associated Director, CRISIL (Consultant Team).
13. Dr. Ravikant Joshi CRISIL (Consultant Team).
14. Sh. Sushant Sudhir, CRISIL (Consultant Team).
15. Ms. Chandan Chawla, CRISIL (Consultant Team).

From

The Chief Administrator, HUIDB – cum- Director, Urban Local Bodies
(State Mission Director for Smart Cities Mission)
Bays No. 11-14, Sector 4, Panchkula.

To

Additional Secretary to Govt. of India,
Room No. 138-C Wing,
Smart City Division, Ministry of Urban Development,
Nirman Bhawan, New Delhi – 110011.

Memo. No. DULB/2017/ATP-IV/1874
Dated: 31.03.2017

Subject: **Final Submission of the Upgraded Smart City Proposal of Karnal, Haryana for Challenge-II (Round-III) (HR-01-KNL) – revised minutes of meeting – reg.**

Kindly refer to this office Memo No. DULB/2017/ATP-I/1848, dated 29-03-2017 on the subject stated above.

On the subject stated above kindly find attached herewith the revised minutes of meeting of the State Level High Power Steering Committee held under Chairmanship of Worthy Chief Secretary to Govt. of Haryana, on 22.03.17 at 11:00 AM at CS's Committee Room, 4th Floor Main Secretariat, Chandigarh where-by the total outlay has been correctly shown as Rs. 1295.81 crores.

Encls: As stated.

Assistant Town Planner
For State Mission Director for Smart Cities Mission,
(CA, HUIDB-cum-Director, Urban Local Bodies)

Endst. No. DULB/2017/ATP-IV/1875 dated, 31.03.2017

A copy of the above is forwarded to the Commissioner, Municipal Corporation, Karnal for information and further necessary action.

Assistant Town Planner
For State Mission Director for Smart Cities Mission,
(CA, HUIDB-cum-Director, Urban Local Bodies)

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