

SMART CITY CHALLENGE - FARIDABAD CITY

APRIL 2016











INDIA SMART CITY MISSION

MISSION TRANSFORM-NATION



THE SMART CITY CHALLENGE STAGE 2

SMART CITY PROPOSAL

SMART CITY CODE:

HR-01-FBD

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CHECKLIST

All fields in the SCP format document have to be filled. The chart below will assist you in verifying that all questions have been answered and all fields have been filled.

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ANNEX	URE 1		Smart City features					
ANNEX	URE 2		A-3 sheets (self-assessm	nent)				
ANNEX	URE 3		max 20 sheets (A-4 and A	A-3)				
ANNEX	URE 4		ANNEXURE 4 Documents for Question 33					

INSTRUCTIONS

- This document must be read along with the Smart City Mission Guidelines. An electronic version of the SCPformat is also available on the website <smartcities.gov.in> Follow: 'Downloads' > 'Memos'.
- The responses must be within the word limits given. The font size must be 12 Arial, with 1.5 spacing, left aligned paragraphs with one inch margins. All additional information must be given in 20 nos. A-4 size pages in Annexure 3.
- 3. For the Area-Based Proposal, only one 'Area' should be selected. The Area selected can be a combination of one or more types of area-based developments. This can be retrofitting or redevelopment or greenfield alone or a combination of these, but the area delineated should be contiguous and not at separate locations in the city.
- The Area-based Development must contain all the Essential Features as per para 6.2 of the Mission Guidelines. Please fill out the following checklist.

S. No	Essential Feature	Confirm if included (✔)	Para. No. in SCP
1.	Assured electricity supply with at least 10% of the Smart City's energy requirement coming from solar	~	Q 11, 14,16
2.	Adequate water supply including waste water recycling and storm water reuse	V	Q 11, 14,16
3.	Sanitation including solid waste management	~	Q 11, 14,16, 20, 31
4.	Rain water harvesting	~	Q 11, 14,16
5.	Smart metering	V	Q 11, 14,16
6.	Robust IT connectivity and digitalization	V	Q 11, 14,16, 20, 31
7.	Pedestrian friendly pathways	V	Q 11, 14,16
8.	Encouragement to non-motorised transport (e.g. walking and cycling)	V	Q 11, 14,16
9.	Intelligent traffic management	~	Q 11, 14,16, 20, 31
10.	Non-vehicle streets/zones	V	Q 11, 14,16
11.	Smart parking	V	Q 11, 14,16
12.	Energy efficient street lighting	V	Q 11, 14,16

13.	Innovative use of open spaces	V	Q 11, 14,16
14.	Visible improvement in the Area	V	Q 11, 12, 14,16
15.	Safety of citizens especially children, women and elderly	V	Q 11, 14,16
16.	At least 80% buildings (in redevelopment and green-field) should be energy efficient and green buildings		NA - As ABD is retrofitt
17.	In green-field development, if housing is provided, at least 15% should be in 'affordable housing' category.		NA - As ABD is retrofitt
18.	Additional 'smart' applications, if any	V	Q 11, 14,16, 20, 31

- 5. The pan-city Smart Solution should be IT enabled and improve governance or public services. Cities may propose one or two such Smart Solution(s). If more than one solution is presented kindly use supplementary template 'Pan-City Proposal No 2'.
- In order to make the proposal credible, all claims must be supported with government order, council resolutions, legal changes, etc and such supporting documents must be attached as Annexure 4.
- 7. The Questions can be answered directly in this editable PDF file and can be saved on local computer, before printing. Your submission in electronic form should contain:
 - 1. The SCP in whole (92) pages
 - 2. The Self Assessment Sheet (Annexure 2)
 - 3. Additional 20 Sheets (Annexure 3)
 - 4. Additional list of Documents (Annexure 4)

Electronic submission to be sent on DVD along with printed copies. 5 printed copies of the SCP document (complete in all respect) should be sent to MoUD along with the DVD containing the complete electronic copy. The printed copies should be spiral bound as separate volumes.

It is advised to use latest version of Acrobat Reader (Acrobat XI or higher) to fill the form.

Acrobat Reader XI can be downloaded from:

https://www.adobe.com/support/downloads/thankyou.jsp?ftpID=5507&fileID=5519

SCORING DIVISION

TOTAL 100 POINTS

CITY-LEVEL:

30

AREA-BASED DEVELOPMENT:

55

PAN-CITY SOLUTION:

15

CITY LEVEL CRITERIA: 30%

S.No.	Criteria	%
1.	Vision and goals	5
2.	Strategic plan	10
3.	Citizen engagement	10
4.	Baseline, KPIs, self-assessment and potential for improvement	5

AREA-BASED DEVELOPMENT (ABD): 55%

S.No.	Criteria	%
1.	'Smartness' of proposal	7
2.	Citizen engagement	5
3.	Results orientation	15
4.	Process followed	3
5.	Implementation framework, including feasibility and cost-effectiveness	25

PAN-CITY SOLUTION: 15%

(If more than one solution is proposed, each proposed solution will be graded separately and the average of the two aggregate scores will be awarded to the city toward the 15% overall weightage)

S.No.	Criteria	1 %
1,	'Smartness' of solution	3
2.	Citizen engagement	1
3.	Results orientation	5
4.	Process followed	1
5.	Implementation framework, including feasibility and cost-effectiveness	5

A. CITY PROFILE FARÎDABAD SPERMARKLY

A. CITY PROFILE

QUALITY OF LIFE

In the last three years, what efforts have been made by the city to improve livability, sustainability and economic development? Give specific examples along with improvement with KPIs that are in the public domain and/ or can be validated. Your answer should cover, but not be restricted to (Describe in max. 50 words each, mentioning the source of the data):

a. Transportation condition in the city

- Faridabad City is along a spine (NH2 & railway line) that is radiating outwards from Delhi
- City bus fleet: 250; Private Autos: 22,000 Buses per 1000 population: 0.14
- · Road covered with footpath: 8%, useable: 5%
- Average trip length: 14.3 km; average travel speed: 25km/hr
- Road accidents per lakh population: 21
- Modal share: NMT-35%, PT-11%, Auto-2%, rail-1%, private vehicle(two-wheelers and cars)-51% (Comprehensive Mobility Plan 2010); The city has 3 railway stations:
 Faridabad, New Town Faridabad, Ballabgarh; It has 9 metro stations (2 will open by 2017)

b. Water availability in the city and reduction in water wastage/ NRW

- Total supply: 200 MLD from 1,412 tube wells and 7 Ranney wells; water demand: 266 MLD; shortfall of 25%.
- · Coverage: 70% of population.
- NRW reduced by 3% to 51% in 2015 with metering of 55% households.
- · Augmentation of water supply by commissioning 53 tubewells, 10 Ranney wells.
- MCF website and mobile application allow citizens to make online payment of water use charges.

(CSP, 2015; MCF)

c. Solid waste management programs in the city

- Household coverage: 90%,
- Collection efficiency:85%
- Grievance Redressal: 85%
- Integrated Solid Waste Management Project is proposed under PPP format under which labout 1150 MT capacity processing & disposal site is proposed at Bandhwari (common /cluster facility for Gurgaon as well) is expected to be operational by end of 2016
- Websites/App-MCF; Swachh Haryana, CM Haryana Cell: grievance redressal platform
- Smart bio toilets at Neelam Chowk, old Faridabad Market, 2015

- d. Safety/ security conditions in the city
- · Cognizable offence: 2467; Share of all India total: 0.2%;

Crimes per lakh population: 374.7

- In February 2016, Haryana Police launched 'Harsamay' website with 8 citizen services related to crime reporting
- Faridabad Police launched CCTNS in 2011 for digitization of crime records and integration with Harsamay; website permits viewing FIR and complaints' status.
- 3 all-women PCR introduced and a separate Women's Police Station was set up in 2015 (Haryana Police, NCRB)
- e. Energy availability and reduction of outages in the city
- · Household coverage under grid based power: 65.13%
- AT & C losses- 27% to 14.4%; T & D losses-22% to 14.2% (FY13 -FY15)
- No scheduled outages
- · Faridabad has been identified by MNRE for Solar city initiative and prepare Master Plan
- 10KW each rooftop off-grid solar power project installed at 3 sites, 2015.
- Mandatory building plan approval for plots 500 sq yards, post installation of Solar heating system & industrial units to provide solar plants.
- Waste to energy initiative through at proposed Bhandwari site to be set up, by 2016 (DHVBN, MCF)
- f. Housing situation in the city, specifically role of municipality in expediting building plan approvals, enhancing property tax collection, etc
- MCF Building plan approval: 21 working days; allows online application and payment of property taxes
- · Property tax recovery: 44% in 2014
- MCF has identified 2,19,264 slum dwellers in 2011 and constructed 2896 units.
- 4 night shelters facilities set up with no fees / money collected from users
- Working women: 150 bed hostel.
- HUDA has launched online building plan approval (MCF, HUDA)

2. ADMINISTRATIVE EFFICIENCY

In the last three years, what have been the changes in Administrative Efficiency due to the use of Information and Communication Technology (ICT) (Describe in max. 50 words each, mentioning the source of the data):

a. Overall attendance of functionaries

- Based on the past manual records and the current biometric systems, the attendance of functionaries has been more than 90%
- MCF has implemented Biometric Attendance system for its regular, class 1,2 and 3 staff in 2015 and remaining class 4 and contractual staff would be added in 2016.
- In 2016, MCF has initiated the linkage of its biometric attendance system with staff salary disbursals.
 (MCF)

b. Two-way communication between citizens and administration

- MCF toll free number/website and mobile app allow citizens to share their grievances. It has an online grievance escalation system under CRM. MCF website allows for citizens to volunteer with various initiatives of MCF.
- · Swachh Haryana mobile app/website: Garbage/sanitation grievances shared with MCF
- CM Haryana Cell website:citizen grievance redressal platform
- E-disha centre by Govt. of Haryana, web portal providing citizen services
- 54 CSCs to provide citizen services in Faridabad
- Harsamay, citizen portal under CCTNS: citizens can file complaints, RTIs, etc

c. Use of e-Gov to enable hassle free access to statutory documents

- MCF website/mobile app facilitates ease of access to statutory documents like acts, policies, orders, government guidelines, file tracking system, complaint resolution management, grievance redressal, online payment of property tax, water use charges, master plan, application of birth & death certificate, e-tender for Haryana Procurement.
- HUDA website gives access to policies, notices, document checklists for house allotment etc
- E-disha facility allows citizens online access of key citizen services like birth, death and caste certificate etc

- d. Dashboards that integrate analytics and visualization of data
- SCADA system used for water supply & STP management, both analytics and visualization available on dashboard.
- Sewerage pump disposals' operation, efficiency, CCTV surveillance, power consumption management available on dashboard.
- Haryana Transport launched has 8 modules for the inter-city operations viz. route management, vehicle maintenance, inventory management, finance management system
- MCF has launched real time water quality monitoring system of STPs, results visible through dashboard.
- e. Availability of basic information relevant to citizens
- E-Patrika & E-Bulletin-MCF monthly e-newsletter on initiatives under Swacch Bharat Mission & by MCF.
- MCF website/mobile app gives access to information on financial statements, public orders, e-tenders, city guide, birth and death certificate, online payment of property tax & water use charges, building plan approval, citizen charter.
- HUDA through www.huda.gov.in, has shared citizen charter, official directory, policies, plot status, and facilitates e-auctions & tenders.
 (MCF, HUDA)

SWOT

Based on the detailed city profiling, what are the strengths and developmental areas of the city? Conduct a detailed SWOT analysis of the city with all relevant metrics and data. (max 1000 words):

STRENGTHS

- 1) Strategic location- Faridabad being a constituent of Delhi NCR region is in close proximity to centre of growth and economic activity i.e. Delhi
- 2) Strong industrial base Faridabad is one of the major industrial towns of Haryana with large concentration of light engineering, electrical appliances, auto component and small textile industries. 3,879 micro manufacturing enterprises generate an employment of 48,000, the highest in NCR region.
- 3) Excellent Connectivity to NCR- Faridabad has railway line, National highway (NH 2) and Delhi Metro Rail Line. Faridabad is connected by the eastern periphery expressway leading to Ghaziabad, Noida, Faridabad and Palwal forming a larger industrial belt.
- 4) Availability of tourist complexes such as Surajkund. The SurajKund International Crafts fair, one of the major tourist attractions of Haryana, attracted 11 lakh tourists in FY15.

WEAKNESSES

- Inadequate public transport system and limited multi-modal connectivity: With 0.14 city buses per thousand population, public transport availability is quite low. Modal trip share of private vehicle ownership is very high 51%.
- 2) High Pollution: Faridabad is one of the most polluted cities in India. The top most contributors of pollution are industries (35%) and vehicles (34%). One of the major reasons for high vehicular pollution is huge influx of external traffic i.e. traffic which has no business in the city.
- 3) Low Walkability: With low footpath availability of 8%, walkability is low in the city. Further, there is limited pedestrian friendly infrastructure such as FOB, and subways. This hampers pedestrian safety especially at major junctions on NH-2 which divides the city in two parts and poses a challenge for mobility within two parts of the city. This also causes heavy dependence on private vehicles, and auto-rickshaws for travel within the city.
- 4) Poor image / perception of the city: Gurgaon, Noida and upcoming towns like Neemrana, have better perception on quality of life, thus successfully competing with Faridabad and have attracted economic activities / growth opportunities

OPPORTUNITIES

- 1) Part of DMIC corridor- Faridabad is part of Node 3 of the corridor, Faridabad-Palwal Industrial area, which is located in close proximity of western dedicated freight corridor at Dadri, which can again help Faridabad regain its glory.
- 2) Revival of lakes and waterfront development- The Badkhal lake and the surrounding green cover revival would be a key opportunity to help Faridabad improve its air quality, aiding in growth of surrounding flora and fauna and in growth of inter and intra-city eco-tourism.
- 3) Strong industrial base with large concentration of light engineering, electrical appliances, auto component and small textile industries. This industrial base can be leveraged by the city to move up the value chain i.e. to emerge as a hub for engineering and design services.
- 4) Excellent connectivity to NCR through multiple modes of transport such as railway line, metro and national highway offers immense potential for transit oriented development (TOD). Furthermore, the area in proximity to Delhi Metro from Badarpur (Delhi) to Ballabhgarh (Faridabad) has been notified as TOD. This forms a sound foundation for implementing transit oriented development in the city.
- 5) Faridabad being a planned city to large extent has vast tracts of land earmarked as green belts along sector roads which have the potential to be integrated with cycle tracks along with green cover promoting healthy life of its citizens and reducing road dust
- 6) With a strong foundation of small industrial and micro manufacturing units and relatively lower labour cost, Faridabad has everything to become a hub for engineering services. Faridabad can leverage this strong foundation to shift from basic parts manufacturing to more technically advanced product development and other sectors such as building information modelling, 3D printing, and additive manufacturing.
- 7) With availability of tertiary health care/ super specialty hospitals Faridabad can be developed as a destination for medical tourism

THREATS

- 1) Presence of other satellite growth centres such as Sonepat, Noida, Gurgaon, and Ghaziabad pose a strong competition in terms of attracting investments in service sectors and also capitalize on new investments in manufacturing and engineering.
- Industrial base of light engineering and auto components is susceptible to the fluctuations in the automobile industry's growth, international cheaper manufacturing and export market volatility.
- 3) Inability to move up the value chain in industrial manufacturing keeping up with advancements in technology both domestic and internationally can hamper Faridabad's potential to grow as a modern manufacturing centre.
- 4) Deteriorating air quality and public hygiene conditions will have adverse impact on public health and also creating negative perception on livability in the city

Weak interdepartmer further deterioration	ntal coordination can	hamper project imple	mentation leading to			
Citizen behavioural challenges and institutional inertia could be real towards acceptability and deployment of larger smart city initiatives.						
7) Groundwater recharg on groundwater for drinl) Groundwater recharge in Faridabad is critical, as the city is almost 100% dependent on groundwater for drinking and domestic supply.					
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4. STRATEGIC FOCUS AND BLUEPRINT

Based on the SWOT analysis, what should be the strategic focus of the city and the strategic blueprint for its development over next 5-10 years to make it more livable and sustainable? (max 500 words):

Faridabad recognizes that the economic transition is critical to the growth and sustainability of the city. The strategic focus areas for Faridabad city are aligned to create enablers for the transition from manufacturing dependent economy to engineering services cluster/knowledge economy focusing on value creation at higher end of value chain of industries present in Delhi NCR. The city due to its strategic location in Delhi NCR has most of the requisite for moving towards knowledge economy such as access / interface with academia in Delhi NCR, industrial base, skilled workforce, and low cost of living. But along with these advantages, it presently has its share of downsides – environmental degradation (pollution of air, water, and land), inadequate public transit options, lack of quality office space, and low buoyancy in economic activity.

Thus, the Smart City proposal is developed on the following strategic focus areas:

STRATEGIC FOCUS 1: Forbearer of Third Industrial Revolution

Discussions with Haryana Industrial Development Department revealed that Faridabad needs to attract investment in industries which are eco-friendly. Furthermore, the city profile revealed that majority of the citizens of Faridabad commute for work to other parts of NCR region. This not only makes the city's economic growth dependent upon other towns in NCR region but also increases travel demand thus creating pollution in the city. Therefore, leveraging its strong industrial base, Faridabad aims to become a forebearer of third industrial revolution by adding a digital layer to its manufacturing industries. This means that Faridabad intends to attract investments in engineering and allied sectors with focus on more technically advanced product development such as building information modelling, 3D printing, and additive manufacturing.

Moving towards this third industrial revolution requires investment and an enabling environment for investment. With an aim to provide an enabling environment for investment, Faridabad intends to invest in skill development, provide great living environment to attract talent and an A-grade office space. Transit oriented development with focus on improving space utilization and excellent infrastructure and connectivity between Faridabad and NCR will help in moving towards third industrial revolution.

STRATEGIC FOCUS 2: Using linear corridor to the city's advantage

Discussions with regional transport authority, and traffic police and city profile revealed that due to its linear linkage (NH-2 and railway line), Faridabad witnesses two kinds of road users namely, people and goods. People movement is caused by three kinds of traffic namely, traffic moving within NCR region, external traffic i.e. traffic having no business within the city, and intra-city traffic. Goods movement is caused by rail and road users. Therefore, Faridabad intends to focus on providing graded/differentiated corridor for different road users by investing in NMT, highways, metro station nodes, parking, and multi-modal interchange.

STRATEGIC FOCUS	S 3: Liveability					
by Institute for Comp liveability index by fo	With a liveability index of 54.06, Faridabad is ranked 45 out of the 50 Indian cities ranked by Institute for Competitiveness 2011. Therefore, Faridabad intends to improve its liveability index by focusing on improving open spaces, water bodies revival, civic amenities, and commute time.					
11 2		(5)				

5. CITY VISION AND GOALS

What should be the vision of the city based on the strategic blueprint? How does the Vision Statement relate specifically to the city's profile and the unique challenges and opportunities present in your city? Define overall aspirations and goals for the city along with how you see key metrics of livability and sustainability improving over the next 5-10 years? (max 1000 words):

VISION: Faridabad aspires to be an innovation hub for manufacturing by leveraging its economic strengths and transforming itself to a cleaner, greener city by introducing smarter way of living. The vision statement emerged from an extensive engagement with various stakeholders, industrial associations, citizen representatives and our understanding of the city and assessment of its needs.

GOALS:

- (1) Economic shift to Advanced Engineering
- o Creating an ecosystem to encourage and promote innovation in advanced engineering by incentivising and encouraging institutes of higher education to set up incubation cells and provide financial support to budding entrepreneurs Job creation 5000 jobs in 5 years
- o Providing incubation support to startups working in the domain of advanced engineering 50 startups in 5 years,
- o Setting up a skill development institute to impart skills on advanced robotics, drone making, additive manufacturing, computer aided design etc.
- (2) Promotion of eco-friendly mobility
- o Increase Public transport share to 30% within five years from existing 15%.
- o Focus on pedestrian amenities by increasing proportion of footpath from 6% currently to 100% in ABD area.
- o Promoting eco-friendly mobility through the public bike sharing program (currently there is none)
- o Reduction of vehicular emissions by 10% through reduction of road congestion
- o Shift 75% from diesel IPTs to eco-friendly e-rickshaws to aid in reduction of vehicular emissions.
- (3) Revival of green open spaces
- o Revival of Badkhal lake and surrounding green cover, thereby promoting intra and inter-city eco-tourism-
- o Addition of green cover through revival of green belt around Badkhal lake increase in green space
- o Increase in green cover and tree line along roads/streets along the National Highway stretch of 21 kms in the city.
- (4) Reduction in road congestion
- o Regulate traffic by signalized synchronised junctions
- o Streamlining traffic through implementation of parking management system and incident management 100% parking adequacy for peak demand (parking found within 1 km of desired parking spot)

- (5) Connected, accessible and safe city
- o Increasing road safety through city surveillance across all key corridors (currently no surveillance exists) and undertaking accident hot spot analysis leading to 20% drop in accidents in next five years.
- o Increase in traffic rule compliance and increasing road safety through monitoring and implementation of traffic rule violation detection system, also contributing to decline in traffic violation incidents in next five years.
- o Enabling organized and regulated last mile connectivity through GPS tracked e-rickshaws shifting 75% form existing IPTs in next three years.
- (6) Smart and sustainable Infrastructure
- o Enable coverage and monitoring of 100% smart meters for water connections o 100% coverage of door to door collection, transportation, processing and disposal by 2018

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6. CITIZEN ENGAGEMENT

How has city leveraged citizen engagement as a tool to define its vision and goals? Specifically describe (max 150 words each):

a. Extent of citizens involved in shaping vision and goals

For widespread and meaningful participation of citizens, online & offline initiatives were launched by MCF. Extent of citizen's participation has been as given below:

- Online
- o Social Media engagement

Facebook-Likes-24,153, Reach-8,106, engagement-2144;

Twitter Handle @Smartcityfbd-1437 followers, tweet impressions-11,900;

Youtube-32 videos were created on Smart city mission; Views-1427

- o My Gov: Submissions-20,016, online polling-1065 entries with suggestions
- -1481 ,Submissions-26
- o Website www.smartcitvfaridabad.co.in : visitors-3,10,228
- o WhatsApp: group was created to seek suggestions on the smart city mission, suggestions received-1948
- o SMS-8.53,427
- Offline
- o Stakeholder meetings-4,803 participants
- o Contests- Vision statements/ideas/suggestions- 9897
- o Surveys through Street Play, Educational Institutes, market places, establishments-74.525
- o Online questionnaires: 3,05,023

b. Engagement strategy to get best results from citizens

Specialist agencies had been appointed for a robust strategy to engage with the citizens of Faridabad. The idea had been to engage with citizens at multiple levels through online and offline media.

- Encouraged citizen participation through contribution in press briefs, TV, print media, whatsapp, online blogs
- Street plays on smartcity and their positive impact on citizens were organized in all the zones for greater participation including slum areas
- · Twitter handle Smartcityfbd was created to engage with citizens
- To give a preview to events on Smart city around the city, Youtube channel was created with the 'Smart City Faridabad' channel.
- Website was created for engagement with citizens www.smartcityfaridabad.co.in wherein timely updates on the various stages of proposal preparation were shared.
- Facebook page created 'Smart City Faridabad' providing regular posts shared on facts on Smart city, media coverage, events organized etc
- · Citizens were engaged on MyGov.in website through online polling, blog engagement
- Stakeholder consultations were done with children, youth, women, people with disabilities towards preparing a more inclusive proposal
- · Engagement with schools, colleges and other educational institutions were done

c. Different means of citizen engagement adopted

Faridabad citizens have been engaged through multiple platforms:

- · Online: The engagement through online media has been primarily through
- o Creation of Smart City Faridabad facebook page with 24000 likes, twitter and youtube page
- o My Gov
- o Online bilingual Questionnaire/voting for SmartCity Proposal on Faridabad to get citizen views on ABD and pan city solution on www.
- o Social media platforms viz. Facebook, Twitter, Youtube, through MyGov and smartcity website. It has also been widely discussed across major online regional discussion forums
- o Youtube-45 videos uploaded
- o Webinar organized by Bloomberg Philanthropies, Pablo Vaggione, expert on "Transforming your city through Strategic Planning", where citizens shared their questions through twitter
- · Offline:
- o Toll free number created to seek views on smart city
- o info@smartcityfaridabad.co.in
- o Formal and informal stakeholder consultations

d. Extent of coverage of citizen engagement in different media and channels

- The citizen engagement through online and offline channels was captured widely by different media both offline and online.
- Since February 2016, 50 news articles in leading newspapers both English and Hindi were published
- Regular news coverage has been in the leading dailies Hindustan, Navbharat Times,
 Times of India
- Street plays were organized, surveys conducted to elicit citizen views, Smart City Faridabad engagement events hosted
- Through social media, facebook contests, What's app groups, Twitter, Youtube videos were carried out

- e. Incorporation of citizen inputs in overall vision
- Citizen engagement through online and offline polling on the following
 o Area of choice: Badkhal lake and its surrounding colonies/sectors/area-70%;
 Sectors/Colonies along National Highway & surrounding area of railway station-18%;
 Commercial sector 12 and its adjacent residential sectors 15 and 15A-7%; Industrial
 sector 24 & it adjacent sector 22 & 23-3%
- o Biggest problem they face- Traffic & Parking-59%; Cleanliness & Waste Management-21%; Unsatisfactory response from civic authorities-13%; Water Supply: Do you feel that the biggest problem faced by you is lack of adequate water supply?-4%; Pollution-3%

7. SELF-ASSESSMENT: BASELINE

Define the baseline for your city based on self-assessment criteria given in Annexure 2 (column 'H'). Marks will be awarded based on how well you know your city (Fill column 'I' in the self assessment sheet in Annexure 2 with as many KPIs and "hard metrics" as possible; max 50 words per cell)

Note: Attach Annexure 2

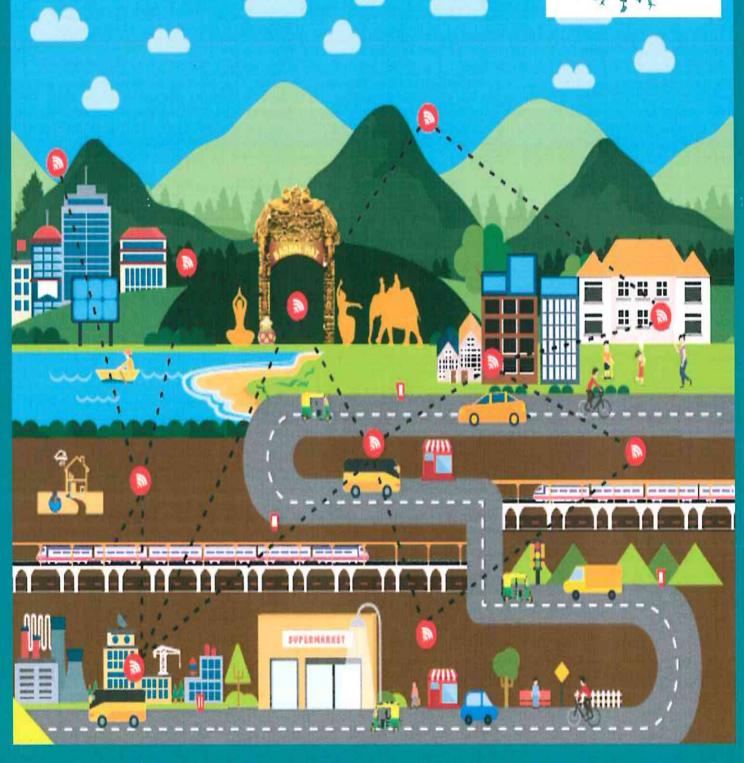
8. SELF-ASSESSMENT: ASPIRATIONS & IMPERATIVES

Emerging from the vision statement, assess the qualitative or quantifiable outcomes that need to be achieved for each of the Smart City Features described in Annexure 2 (column 'J'). In column 'K' describe the biggest single initiative/solution that would get each feature of the city to achieve 'advanced' characteristics (eg. increasing share of renewable energy generation in the city by X percent). Note that a single initiative/solution may impact a number of features (eg. improved management of public spaces may ease congestion on roads as well as improve public health). (Fill in Annexure 2; max 50 words per cell)

Note: Attach Annexure 2

B. AREA-BASED PROPOSAL





B. AREA-BASED PROPOSAL

The area-based proposal is the key element of the proposal. An area-based proposal will identify an area of the city that has been selected through desk research, analysis, meetings with public representatives, prominent citizens, and citizen engagement, as the appropriate site for either of three types of development: retrofitting (approx. 500 acres), redevelopment (approx. 50 acres) or Greenfield development (approx. 250 acres). This area will be developed into a 'smart' area, which incorporates all the Essential Features/Elements prescribed in the Mission Guidelines and any additional features that are deemed to be necessary and appropriate.

Mapping of information and data is a key part of your Smart City Proposal. Create a suitable Base Map of your city with all the relevant systems and networks as they exist today, showing its physical, administrative and other characteristics, such as natural features, heritage areas, areas prone to flooding, slums, etc. The base map should show the regional context in which your city is located and should contain the spatial and physical layout/morphology of your city, the street network, the open and green spaces, the geographical features and landmarks and the infrastructure, including for transportation, water supply, sewerage, electricity distribution and generation, and so on.

Using the base map, represent, with the most effective method available, as much information and data about the 'Area' selected for area-based development. Only one 'Area' should be selected and attached in the form of a map containing the spatial and physical layout/morphology of the Area, the street network, the open and green spaces, the geographical features and landmarks and the infrastructure, including for transportation, water supply, sewerage, electricity distribution and generation, and so on. The Essential Elements and additional features that are proposed to be part of the area-based development should be included. Describe, using mainly graphic means (maps, diagrams, pictures, etc.) the proposed area-based development, including the project boundaries, connectivity, significant relationships, etc.

(max. 2 nos. of A-3 size sheets)

9. SUMMARY

Summarize your idea for an area-based development. (max. 100 words)

The area chosen for an area-based development measures 1267 acres and comprises of sectors of 19, 20, 20A, 21B and 21D. The chosen area has diverse land uses (group housing, commercial, industrial, institutional, urban villages etc) and forms the fringe of old / core of the city. In this context the SCP intends to transform the chosen area into a compact, well-planned urban space with inclusive, sustainable and rationally incremental economic development activities.

It is proposed to seamlessly interwoven technology to provide improved service levels, increased choices and convenience and the developed area will act as a beacon of light with potential for replicability and scalability across other parts of city.

The SCP has developed modules within which there are several sub-projects of similar nature / sectors. The modules are as follows:

- 1) Smart Mobility focuses on providing low carbon mobility within the area
- 2) Smart and sustainable Civic Infrastructure focuses on completing missing links
- 3) Smart Urbanism focuses on place making, developing vibrant built spaces using TOD

APPROACH & METHODOLOGY

What is the approach and methodology followed in selecting/identifying the area-based development? Describe the reasons for your choice based on the following (max. 1000 words):

- a. The city profile
- b. Citizen opinion and engagement
- c. Opinion of the elected representatives
- d. Discussion with urban planners and sector experts
- e. Discussion with suppliers/ partners

The approach for selecting the Area based Development (ABD) was both analytical (using primary and secondary research tools); and participatory (assembling a cross-section of opinions from the widest possible pool of people). The methodology for selection for area based development proposal included:

- · Mapping the views and aspirations of the citizen from the engagement process
- · Mapping various economic and activity drivers of the city
- Potential for incorporating the vision finalized by the citizens in the chosen area and its scalability in other parts of the city
- a) The city profile

Faridabad is the largest city in the state of Haryana and a leading industrial center situated in the National Capital Region bordering the Indian capital New Delhi. It is also a part of Node 3 of DMICDC corridor, Faridabad-Palwal Industrial area. It has strong foundation of small industrial and micro manufacturing units and relatively lower labour cost with Micro manufacturing enterprises 3,879 generating an employment of 48,000, the highest in NCR region. A metro link runs across as a spine to the city connecting it to Delhi. The city hosts one of largest Craft Fair annually attracting large influx of tourists.

The chosen option is a contiguous area of 1267 acres, retrofitting of the area surrounding Badhkal Lake and includes the sectors 19, 20, 20A, 21B & 21D. This area has three Metro stations, a metro Depot as well as a Railway station, two Urban Villages (Fatehpur Chandela and Arjondi) and two regularized Urban slums (Sant Nagar and Friends Colony), Various Land uses such as Residential, Commercial, Industrial, Institutional and Transport all of which provides a variety for development options, which has potential for scalability and replicability in the rest of Faridabad.

b) Citizen opinion and engagement

Citizen opinion was sought via the various engagement methods on the possible options for area based proposal and were mapped. A Validation Online poll was conducted on the MCF website and the preferred area which emerged were:

- Badkhal lake and its surrounding colonies/sectors/areas 70%
- Sectors and colonies along National Highway and surrounding area of railway station –
 17%
- Commercial sector 12 and adjacent residential sectors 15 and 15A 3%
- Industrial sector DLF and its adjacent sector 31 0%
- Industrial sector 24 and its adjacent sector 22 & 23 3%
- Others 7%

Hence the top two areas, comprising 87% of the votes were merged to arrive at the final area. Retrofitting was chosen by 52% of the respondents over redevelopment by 35%.

- 8 options were considered after the first round of consultations as follows:
- Option 1 Sector 20, 20A, 21B, 21D, and Badkhal Lake
- Option 2- Sector 19, 20, 20A, 21A, 21D, 28, 29 and Badkhal Lake
- Option 3 Sector 16A, 19, 20, 21A, 21D, and Badkhal Lake
- Option 4 Sector 20, 21A, 21D, 27A and Badkhal Lake
- Option 5 Sector 19, 20, 20A, 21B, Partial 21D, 28 and Badkhal Lake
- Option 6 Sector 19, 20, 21A, 21D, and Badkhal Lake
- Option 7 19, 20, 20A, 21A, 21D, 28, 29 and Badkhal Lake
- Option 8 20, 20A, 21B, 21D,27A and Badkhal Lake
- These 8 options were objectively rated on the parameters of Compactness, potential for Transit Oriented Development, presence of Industry, possibility of redevelopment / retrofitting of slum area, ecological features and Other facilities.
- Of these 8 options, 5 options were shortlisted in round 2 and thereafter the final area was chosen which was validated in the final round of consultation.
- c) Opinion of the elected representatives

Ward councilors, MLA's and MP's were engaged in the process of engagement by various methods. A presentation was made and thereafter opinion sought from them. Consensus on the Badkhal lake front area and area near the metro stations was reached.

d) Discussion with urban planners and sector experts

A number of sectoral experts have been consulted to identify the area for development. The names of such experts amongst others were (i) Sh.Rajeev Chawla, President Faridabad Small Industries Association and Expert in Solar Energy, (ii) Sh.Shiv Singla, President of Architects Association, (iii) Sh.Mahesh Bajaj and Ms.Priyanka Garg engaged

in running NGOs to promote Swachh Bharat Mission, (iv) Sh.Navdeep Chawla, President, Faridabad Industries Association, (v) Sh. J.P.Malhotra, DLF Industries Association, (vi) Sh.Arun Bajaj, President, Lagu Udyog Bharti, (vii) Sh.Dhandera Jain, President Sector 27A Industries Association, (viii) Representatives of U.S.Green Building Council (ix) Technical experts and Urban Planners from Manav Rachna University (x) Sh.Naresh Verma, President, Manufacturers' Association, Faridabad (xi) Principals of various Government/private Schools, Colleges and Universities, (xii) Presidents of Lions and Rotary Clubs (xiii) various retired Chief Engineers of different Government Departments. The brainstorming sessions with the sector experts and the urban planners endorsed the viability and suitability of the area selected for the Smart City interventions. A thorough knowledge of the existing features of the area was done to evaluate the on ground situation using the GIS based maps created for the city. A smart city workshop was also organized for consultation with various experts, suppliers and partners.

e) Discussion with suppliers/ partners

Though suppliers and partners were not instrumental in the choice of the area for area based proposals, however their input was sought for the various smart features which are being planned for the area based solution.

A series of meeting with the Suppliers/ partners like Persistent System, Siemens, Adani, Indian Oil Corporation, North Gate, Universium, Crater Zone, Telensa, Wapcos, Rico India Ltd., TBT Services, Neelkanth, USGBC, BSNL, Pure tech computers, Synergy Systems & Solutions, Renewable BioTech LLP., EESL, RWA's etc. The project proposals were discussed in detail and evaluated for feasibility, do-ability and impact.

From the various vendors contacted above, it was analysed that the solutions being proposed would be implementable and feasible for application in the Faridabad.

11. KEY COMPONENTS

List the key components of your area-based development proposal (eg. buildings, landscaping, on-site infrastructure, water recycling, dual piping for water supply, etc.)? (max. 250 words)

SMART MOBILITY

- Provision of barrier free footpaths
- · Provision for Segregated and unsegregated Non Motorised Transport routes
- · Raised pedestrian crossings
- Smart Auto/Taxi/ E-Rickshaw Stands
- · Intelligent Traffic Management System through Synchronised traffic signals
- Intelligent Multi-level Car Parkings
- Smart Signages and Markings
- Public bike sharing scheme
- Internal Roads improvement and Street Landscaping
- Provision of Flyover

SMART AND SUSTAINABLE CIVIC INFRASTRUCTURE

- Badkhal Lake Rejuvenation reusing waste water from Decentralized STP's
- Rain Water Harvesting and Waste Water Recycling for select Public buildings and Green belt.
- · Leak management of pipes and fittings thus reducing NRW and improving service levels
- Smart metering for water connections
- SCADA based monitoring of Water Supply Network
- Automated Online water quality Monitoring System for the distribution network
- Revamping of sewerage network infrastructure
- · Provision of Smart Toilets
- Augmentation of storm water drainage network
- Source Segregation of Solid Waste and zero waste management by RWAs
- Deficit infrastructure provision for Smart Urban Village, Fatehpur Chandela and Sant Nagar Slum
- Assured electricity supply with 10% from solar energy
- Underground cabling and Solar powered LED Street lights
- Wifi enabled Zones at 5 identified locations and smart kiosks
- · Development of 'In My Street App' enabling citizens to report street problems
- Development of Air Quality Monitoring App

SMART URBANISM

- Transit Oriented compact high density mixed use development near metro stations
- Multimodal Hub connecting Railway station, metro station, bus terminal, IPT and multi-level car parks
- · Development of Badkhal Lake front and Marina and Barahi Tank and its adjoining area
- Smart Urban Village and Slum retrofitment
- Development of Open air Gymnasiums

12. SMART URBAN FORM

Describe the 'smart' characteristics of the proposed development that relate to urban form (eg. uncluttered public places, mixed-use, open spaces, walkability) and how these will be incorporated. (max. 250 words)

The ABD is based on following core principles of development: A vibrant mix of landuse, promoting accessibility and walkability along with provision of smart and sustainable civic infrastructure, its initiatives towards achieving ecological balance, redevelopment of specific land parcels generating new economic opportunities and development of inclusive spaces for improved quality of life for its citizens.

Activities covered to revitalize the urban form of ABD are:

- Pedestrian and NMV oriented design of roads, streets and intersections with universal accessibility features for differently-abled with lateral zoning of streets to accommodate road user facilities, Electric vehicles / IPT (Rickshaws) for last mile connectivity, smart parking, streetscape improvement by street furniture, underground cabling of Overhead utilities
- Landscaping, Open air Gymnasiums, wastewater recycling, rain water harvesting in all parks and open spaces
- Ecological restoration and rejuvenation of dying Badkhal lake, by filling it with treated water from STP and topping it up continuously, to promote weekend recreation, and double up as a socially inclusive initiative to include the vendors into the main stream and provide them with basic infrastructure such as solar powered lighting, potable water, organized space with RFID licensing.

A pre-feasibility report for the same has been prepared by Ex. CGWB Chairman Dr N K Chaddha and Manav Rachana university and the same has also been reviewed by us. (The conclusion summary of the report has been enclosed in the Annexure for reference)

- Developing a smart urban village with sustainable initiatives such as 24*7 water supply, waste water recycling, solar power, rain water harvesting and segregation of waste as source and other state of the art facilities available through the use of smart card technology, such as community library and health card, ration cards, smart community toilets and smart classrooms in schools.
- Developing compact, high density, mixed use, walkable TOD communities along with creation of universally accessible avenues, plazas, public open spaces, community parking, increased street activities to bring in value capture of the mass transit line while protecting the integrity of existing built aesthetics.
- Development of a multimodal hub at Railway station providing a Seamless Interchange between railway/metro/Bus/IPT/Private vehicles and a multilevel Common parking area with drop off lanes, and barrier free NMT infrastructure. TOD compliant development of retail, hotels and commercial proposed.
- Promoting Skill Development Centre's, Innovation Labs/Shared services resource Centre's to cater to SMEs

13. CONVERGENCE AGENDA

In Table 1, list the Missions/Programmes/Schemes of the Government of India (eg. AMRUT, HRIDAY, SBM, IPDS, Shelter for All, Digital India, Make in India, Skill India) and relevant external projects and describehow your proposal will achieve convergence with these,in terms of human and financial resources, common activities and goals. (max. 50 words per cell)

	TABLE 1	
S.No	Mission/Programme/ Scheme/Project	How to achieve convergence
1	AMRUT: Under Amrut Scheme Faridabad city has got the budget outlay for sewerage and septage component for 200 crore which can be utilized for convergence.	Our ABD proposal targets for providing following sewerage components that are envisaged to be converged • Decentralized STP for reuse of wastewater for Badkhal lake revival (35 Crs) • Waste Water Recycling for Public Buildings and Group housing (10 Crs) • Revamping of sewerage network infrastructure for 20% of project area which are deficient in infrastructure (15 crs) Hence a total amount of 60 crs from ABD area will be converged under sewerage component of AMRUT.
2	AMRUT: Under Amrut Scheme for Faridabad city has got the budget outlay for water component for 165 crores which can be utilized for convergence.	Our ABD proposal targets for providing following water components that are envisaged to be converged for covering Sector 19, 20, 20A, 21B, 21D. • 100% coverage of water meter connections with automatic smart metering (5 crs) • NRW reduction in water supply system is proposed (4.50 Crs) • SCADA based monitoring of flow, levels and pressures in the network and establishment of centralized control room (2 Crs) Component of Automated Online water quality monitoring for 0.50 Cr to be done under SCM
3	AMRUT: Under Amrut Scheme for Faridabad city has got the budget outlay for Storm Water Drainage component for 43 crores which can be utilized for convergence.	Following components are envisaged to be covered under this for convergence Rain water Harvesting and Storm water reuse for Public Buildings, Schools, Colleges and Parks (6.75 crs) Revamping of Storm Water Drainage network (42 crs) Total sub proposal cost is 48.75 crs. 5 Crs is planned to be covered from AMRUT SWD budget and balance 53.75 cr will be covered by SCM

S.No	TABLE 1 Mission/Programme/	How to achieve convergence	
	Scheme/Project		
4	Swacch Bharat Mission (SBM) – Under this scheme Faridabad city has got the budget outlay for Sanitation Components for 59.28 crores which can be utilized for convergence.	Provision for procurement of Smart Toilets for INR 4.55 Crs to be converged to SBM	
	City Forest (Nagar Vanikaran)	Provision of INR 2 crore is to be converged with city forest scheme (Nagar Vanikaran yojana) of MoEF for developing the green belt around Bhadkal Lake	
	8 8	8	
5	Delhi Metro Rail Corporation	A plan has been discussed with DMRC for utilizing the space below viaduct and 500m on either side of metro station at 3 locations to be used for parking as IPT stands and balance space to be used for landscaping and advertising.	
	IPDS	It is proposed to move the overhead power lines to underground. The proposed project cost is estimated to around INR 270 crores. Provision of INR 10 crore is made for this proposal under convergence with IPDS scheme	
6	National Highways Authority of India	Construction of Cycle Track and Footpath for the length of 4 km along NH is envisaged in ABD section which is planned to be converged with NHAI current development plan. Cost for the development of the same of INR 5 Crs to	
	Indian Railway Stations Development Corporation	be covered from SCM outlay A proposal for multimodal hub has been planned as a part of ABD with integration, of metro, railway station and bus terminal. Faridabad Railway station has been identified amongst 400 railway stations to be developed. Provision for this proposal including Station development for the amount of INR 61.6 crs	
7	Skill India	For skilling/ upskilling people in sectors like ICT and construction, since employment will be generated due to Pan city as well as ABD. Pradhan Mantri Kuashal Vikas Yojana (PMKVY) benefits will be availed	
	Invest India	Collaborate with Invest India (managed by FICCI-DIPP) to highlight investment opportunities in Faridabad for Pan city and ABD initiatives	

14 CONVERGENCE IMPLEMENTATION

Describe how the convergence will be implemented? For example, convergence with IPDS will be credible if 'smart' city elements (e.g. smart metering, underground cabling, shifting of transformers) are included in the DPR being prepared for IPDS. If, a DPR has already been prepared, then the 'smart' elements should be included in the form of a supplementary DPR. Furthermore, according to the IPDS Guidelines the DPR has to be approved by the State Government and sent to the Ministry of Power, Government of India. All these have to be completed before submitting the proposal. (max. 350 words)

Smart Mobility

Our ABD proposal aims to provide road infrastructure including NMT facilities along the major corridors within the project area thereby providing safe road infrastructure for pedestrians, cyclists, differently abled citizens and motorists. The DPR for the same will be prepared and submitted for approval. MCF will be implementing this work.

Physical Convergence: Construction of Cycle Track and Footpath for the length of 4 km along NH is envisaged in ABD section which is planned to be converged with NHAI current development plan however, cost for the development of the same will be covered by MCF. Also the 500 m space underneath the metro viaduct at metro stations on either side has been agreed for utilizing for parking and landscaping along the corridor. Coordination has been done with DMRC for convergence of the same and commitment letter received.

Financial Convergence: Estimated cost for the subproject is 343 crore. As for the city, AMRUT does not have allocated funds for urban transportation, this whole module is planned to be developed under Smart City Mission Programme.

Smart and Sustainable Civic Infrastructure

Water Supply & Sewerage

Our ABD proposal aims at 100% coverage of water meter connections with automatic meter reading for selected area, automated online water quality monitoring system, NRW reduction in water supply system and SCADA based monitoring of online flow. The cost for these sub proposals is 24 crs and 10 crs is planned to be converged through AMRUT mission and implementation of the same will be done through MCF and HUDA for the sectors falling under their jurisdiction. Commitment letter has been also taken from HUDA. Feasibility Study for the same would be undertaken by MCF and submitted to HUDA for the approval. For rejuvenation of Badkal lake, STP provision for 35 crores is planned under convergence. Also revamping of sewerage network as well as waste water recycling for select public buildings for 15 crs under convergence

Storm Water Drainage

The components of Rain water Harvesting and Storm water reuse for Public Buildings, Schools, Colleges and Parks and revamping of Storm Water Drainage network is planned under this component.

Total sub proposal cost is 48.75 Crs. 5 Crs is planned to be covered from AMRUT SWD budget and balance 43.75 Cr will be covered by SCM and implementation of the same will be done through MCF and HUDA for the sectors falling under their jurisdiction.

Commitment letter has been also taken from HUDA. Feasibility Study for the same would

would be undertaken by MCF and submitted to HUDA for the approval.

Sanitation

Provision for procurement of Smart Toilets for 4.55 Crs to be converged to SBM and the procurement for the same and its installation will be done by MCF.

Smart Urbanism

Our ABD Proposal aims for Transit Oriented compact high density mixed use development near metro stations, Multimodal Hub connecting Railway station, metro station, bus terminal, IPT and multi-level car parks.

Total estimate for this subproject is 716 crore planned to be covered under smart city mission outlay.

As Railway station would be under Jurisdiction of Indian Railways, there will be physical convergence required with IR/IRSCDC for taking the development of the railway station.

In addition, there is a proposal of development of Forest Area (Nagar Vanikaran) including green area abutting Badkhal lake as a City forest with some forest tourism activities by Tourism Department. This currently does not fall under the proposed ABD area but is adjacent to the Badkhal lake area hence convergence for the same will be required and MCF will do necessary coordination for integration of SCP proposal to the same. About 2 crore is planned under convergence from this scheme

Schemes where objectives / targets are converged

Skill India - For skilling or up-skilling people to orient them for transition in economy and find relevant jobs. The skilling initiatives will be taken up under Pradhan Mantri Kuashal Vikas Yojana (PMKVY) under aegis of relevant authorities

Invest India - MCF intends to tie-up with Invest India initiative to promote investment opportunities in Faridabad which shall be in line with the Smart City Proposal

15. **RISKS**

What are the three greatest risks that could prevent the success of the area-based proposal? In Table 2, describe each risk, its likelihood, the likely impact and the mitigation you propose. (max. 50 words per cell)

TABLE 2					
Risk	Likelihood	Impact	Mitigation		
Economic/Commercial Risk a. Sensitive variability in the assumptions made for costs and profits for the project.	Medium Likelihood Delayed recovery of capital investment may take place in the case of retrofit proposal.	High Impact as dependence on financial returns of the Capital investment may get impacted and effect the economic drivers of the proposal	A broad base for fiscal mobilization and attempt made for self-sustainable project projects. Alternative sources of fund such as convergence of National level schemes to oversome the risk of		
b. Reduced External Investments	Medium Likelihood. The neighbouring NCR cities are already flourishing as industrial /institutional and residential options with better infrastructure facilities and investment incentives paving way for migration from Faridabad city.	High impact as this will slow down the economic development	to overcome the risk of delayed returns. • As a MRT line is running as a central spine to the city, explore full potential for Transit oriented development and land monetisation potential in vacant land parcels.		
a.The smart city proposal for select sectors of the city has the risk of creating a gap of have's and have-not's with one area being developed well and other surrounding areas not getting similar benefits. b. Behavioural Change Internal to FMC Citizens and other Stakeholde	Medium likelihood Since adaptability to technology in a metropolitan city is high, trickle down impact by economic forces reduces the probability of such an impact High likelihood	Medium Impact The selected area has mixed land use including, residential, commercial, low income group housing and slums and large business covering a heterogeneous mix with a balance and development of these can be scaled/replicated to other parts Medium Impact	Keeping people first to bring belongingness is the foremost effort of the ABD proposal. Clear communication at initial stages of project that compact area chosen initially and with its success, it has full potential for replicability and scalability Proposed e-Government services to bring transparency, introducing public on-line services and use of new technologies to empower civil society in making decisions.		

TABLE 2					
Risk	Likelihood	Impact	Mitigation		
	11	8	Structured change management: -Organizational realignment -Employee Exchange Program with Global Cities -IEC campaigns -Structured dialogue process with citizens involving City Leaders for awareness and conflict resolution		
Political Risk Status Quo on dissolved ULB Assembly leading to delays in decisions	Medium The ULB Assembly has been dissolved however there is Stay on decision of same from High Court	Medium impact Delays in decisions	In absence of Functional ULB Assembly, the powers for taking decisions are vested with Municipal Commissioner. Also, Members of Elected Representatives and Local Ministers have been proactively engaged in the decision making for all key aspects of project development		

	TABLE	2	=
Risk	Likelihood	Impact	Mitigation
Technical Risk Capacity constraints and skill gap at ULB to execute and manage multiple projects planned under the SCP	High Likelihood Packaging strategy requires numerous contracts with multiple interface requirements to be defined Also, multiple sub proposals requires different technical skill sets which may not be available with MCF	High Impact Phase 1 of Smart City Mission is a time bound activity with implementation to be complete by 2019 and any delays in the project due to inadequate skills; implementation will directly impact the schedule.	Well thought implementation plan for all the sub proposals identified along with sound financial plan and mitigation strategy for identified risks. Project Management Support unit for ULB to assist in bringing in skilled resources for technical guidance and review of submittals
Legal Risk	Low Likelihood	Low Impact	Low Impact
Legal standing of SPV	Regulatory framework for project implementation defined by MoUD	All coordination for project implementation will be done under the umbrella of SPV	All coordination for project implementation will be done under the umbrella of SPV
Environment Risk Adverse impact on the environment due to unregulated and unsustainable practices	Low Likelihood	Low adverse impact	Sustainable planning has been the central parameter driving the entire SCP proposal and all sub proposal have been well thought and planned to encourage environment friendly and sustainable development with reduced environmental risks. Clear baseline as well as performance indicators and measurable targets have been set.

16. ESSENTIAL FEATURES ACHIEVEMENT PLAN

Describe a plan for achieving the Essential Features in your area-based proposal. Importantly, accessible infrastructure for the differently-abled should be included. List the inputs (eg. resources) that will be required for the activities that you will conduct, leading to the outputs. Please note that all Essential Elements, item-wise, have to be included in the area-based proposal. (max. 2000 words)

1. SMART MOBILITY

- 1.1. NMT and Pedestrianization
- · Barrier Free Footpaths incorporating universal designs & Universal Access to PT
- · Road infrastructure along major corridor for NMT modes
- · Safe intersection design and raised pedestrian crossings
- · Electric vehicles / IPT for last mile connectivity
- 1.1.1. Activities
- · Preparation of DPR 6 Months
- · Procurement 3 months
- · Construction 12 Months
- · Monitoring and evaluation 6 months
- 1.1.2. Inputs
- Physical Right of Way Free from Encroachment for NMT facilities and availability of planned spaces for E rickshaw stands/parkings and PBS
- Financial Estimated cost is Rs.71 crore under SCM Outlay
- 1.1.3. Outputs
- 100% Barrier Free pedestrian movement along main roads
- 100% coverage of all main roads by NMT infrastructure, preferably segregated
 1.2. Signage
- · Non Digital Signage coverage in all arterial and collector roads in project area
- · Digital Signages: Signagewith smart features (Variable Message sign boards)
- 1.2.1. Activities
- · Detailed Mapping of Infrastructure for potential of signage 3 months
- · Condition Assessment of existing signage 1 month
- · Preparation of Signage Plan 3 months
- · Procurement 3 months
- · Installation 3 months
- · Monitoring and evaluation 6 months
- 1.2.2. Inputs
- · Physical Encroachment free Right of Way
- Command control
- · Real time data collection and Shortlisting of data to be displayed
- · Financial Rs.16 crs Planned from SCM outlay
- 1.2.3. Outputs
- · 18 functioning display boards, at major public spaces and strategic points along roads
- 1.3. Intelligent Traffic Management System
- Synchronised traffic signals for optimum traffic & 'green corridor' to emergency vehicles
 1.3.1. Activities
- · Feasibility study 3 months
- · Procurement 3 months
- Installation 3 months

1.3.2. Inputs

- · Traffic flow data for all intersections and for all time periods
- Financial: Synchronised signals are provided for major junctions across pan city including 12 junctions identified in ABD and planned from SCM outlay 1.3.3. Outputs
- 12 signalized traffic intersections working in syncronisation to provide a 'green wave' to traffic improving traffic flow and reduction of 200 tons CO2 pa
- Reduction in traffic congestion by various smart mobility measures shall save fuel and travel time at Rs.17.14 Mn pa and from time at Rs.23.49 Mn pa.
- 1.4. Intelligent parking, stands, PBS and MLCP
- · Intelligent car coach parking system
- · Smart Auto/Taxi stands
- Public bike sharing system (PBS)
- Multilevel Car Parking
- 1.4.1. Activities
- · Preparation of DPR 6 Months
- · Procurement 3 months
- Construction 3-12 Months
- Monitoring and evaluation 6 months
- 1.4.2. Inputs
- Digital infrastructure such as system parking counter/ sensor, Exclusive parking spaces around tourist places for tourist coaches, Electronic displays for parking availability, Multiple touch points for citizen on parking availability awareness, Common payment card
 Financial Cost of this proposal is Rs.41.75 cr and this is planned through SCM budget outlay.
- 1.4.3. Outputs
- Modernisation of around 700 ECS parking area
- · Modernisation of 6 IPT stands for Autos and Taxies each
- Functional PBS scheme covering the project area according to the proposals of the study
- 1.5. Flyover
- Flyover to improve connectivity between NH and Faridabad on west side of railway line
 1.5.1. Activities
- Preparation of DPR 6 Months
- · Procurement 3 months
- Construction 18 Months
- · Monitoring and evaluation 6 months
- 1.5.2. Inputs
- Physical Space identified for flyover to be allocated for project free from encroachment
- · Financial: Rs. 142 Crs from SCM outlay
- 1.5.3. Outputs
- Flyover connecting west Faridabad to NH, providing relief to Neelam Chowk Flyover

2. SMART AND SUSTAINABLE CIVIC INFRASTRUCTURE

- 2.1.1. Decentralized STP for reuse of wastewater for Badkhal lake revival
- 2.1.2. Activities
- Preparation of DPR 6 Months
- Procurement 3 months
- Construction 18 Months
- Monitoring and evaluation 6 months
- 2.1.3. Inputs

- · Physical: Encroachment free land to constructing STP
- · Financial: Rs. 45 Crs from SCM outlay
- 2.1.4. Outputs
- 10 MLD of wastewater targeted to be treated in STP and recycled for lake filling, landscaping and industrial use
- 2.2. Drainage and Sewerage, utilities
- · Waste Water Recycling for Public Buildings and Group housing
- Rehabilitation of Sewerage Network
- Rain water Harvesting and Storm water reuse for Public Buildings, Schools, Colleges
- · Revamping of Storm Water Drainage System

Provision for solar power and under ground

- 2.2.1. Activities
- · Preparation of DPR 6 Months
- · Procurement 3 months
- Construction 18 Months
- · Monitoring and evaluation 6 months
- 2.2.2. Inputs
- · Physical Identification of spaces for recycling and reuse and water harvesting
- Human Capacity building of O&M staff
- Financial Rs. 350 crs from SCM outlay
- 2.2.3. Outputs
- · 2 MLD of wastewater will be treated in decentralised STP's and recycled.
- Targeted Coverage of sewerage 85%
- · Reuse of 50 ML of rain water can be reused per year
- 100% SWD network coverage
- 2.3. Water Supply
- · Smart metering for water connections
- · NRW reduction in the water supply system
- · SCADA based monitoring of flow, levels and pressures in the network and control room
- · Automated Online water quality Monitoring System for the distribution network
- 2.3.1. Activities
- · Preparation of DPR 6 Months
- · Procurement 3 months
- Construction 18 Months
- Monitoring and evaluation 6 months
- 2.3.2. Inputs
- · Physical Control centre space for SCADA operations
- · Financial- Estimated cost is Rs.27.5 crs from SCM outlay
- 2.3.3. Outputs
- 100% smart metering
- Reduction of NRW to 20%
- · Improved service level of 135 lpcd
- · 4-6 hours water supply for all areas
- Automatic remote operations & monitoring of water supply system on a real time basis.
- · Automatic online monitoring of water quality on a real time basis.
- · Increase in public toilets by another 25 locations in ABD
- 3. SMART URBANISM
- 3.1. Transit oriented Development
- 3.1.1. Activities
- Development of Comprehensive TOD policy 6 months

- · Implementation of TOD policy 3 years
- 3.1.2. Inputs
- · Human Formation of technical and handholding team of expert with experience in TOD
- · Physical Availability of encroachment free land for development of mixed use
- Financial –Rs. 602 crores to be mobilised by auctioning vacant plots on PPP basis 3.1.3. Outputs
- Population Density 600 Person/Acre within TOD & Built up area in TOD 761,407 sqm
- Footpath length-24.24 Km and Dedicated Cycle Track in Km 17.2, 9 PBS station, 165 parking bays for E rickshaws and 700 ECS of vehicular parking
- Training in design skill centres & innovation labs creating employment for 5,000 workers
 3.2. Multimodal Hub
- 3.2.1. Activities
- · Preparation of DPR 6 Months
- · Procurement 3 months
- Construction 18 Months
- · Monitoring and evaluation 6 months
- 3.2.2. Inputs
- Physical Encroachment free land for Railway Station Concourse and Bus terminal
- Financial Rs. 61.67 crs to be covered from SCM outlay
- 3.2.3. Outputs
- Development of new concourse of area of 11,447 sq m
- 5 mins by walk with provision of new FOB and Reduction in connection time by 10 mins
- 3.3. Recreational spaces
- Development of Badkhal Lake front & Marina, Barahi Talaab and Open air Gyms 3.3.1. Activities
- · Preparation of DPR 6 Months
- · Procurement 3 months
- Construction 6 18 Months
- · Monitoring and evaluation 6 months
- 3.3.2. Inputs
- · Physical Encroachment free land for development of these open spaces
- · Financial Rs.50.6 crs to be covered from SCM outlay
- 3.3.3. Outputs
- · Employment generation for 2,800 vendors
- Open spaces and lungs Area to be increased to 7.5 sqm/Person
- 5 new open air gyms
- 3.4. Upgradation of slums and Urban Villages
- · Smart Urban Village Fatehpur Chandela and Slum Upgradation Sant Nagar
- 3.4.1. Activities
- · Preparation of DPR 6 Months
- · Procurement 3 months
- Construction 12 Months
- Monitoring and evaluation 6 months
- 3.4.2. Inputs
- Financial: 16.6 crs to be covered from SCM outlay
- 3.4.3. Outputs
- Water Supply Hours 24hrsx7days
- · HH Holding Smart Card 100%
- · No. of schools with smart classrooms 1
- · 100% coverage of area under sewerage network
- Crime Rate reduced to All India Mega Cities Average 215.5/Lakh

17. SUCCESS FACTORS

Describe the three most significant factors for ensuring the success of the area-based development proposal. What will your city do if these factors turn out to be different from what you have assumed? (max. 500 words)

Following are the three most significant factors for ensuring the success of the area-based development proposal:

(i) Sound Strategy

Sound Implementation Strategy for the selected sub-proposals accounts for empirical data, assumptions and risks reduction. The priorities and strategies narrows down to specific aspects of area based planning.

An alternative strategy may be adopted by the Civil Authorities in case baseline parameters can be re-evaluated. Again a broad base of risks can be eliminated by adopting identified risk mitigation plan and increased penetration of the Smart city selling idea among the citizens and inter-governmental organizations.

Eg: Timely Execution of Transit Oriented Development along MRT corridor - Transit Oriented Development is a key component of ABD and successful implementation of Transit corridor along existing MRT line leveraging on the recent approved TOD policy for the city is paramount for success of this project. To ease off connectivity issues and providing last mile connectivity to users, the proposal will integrate feeder bus routes connecting to all metro stations and key points of the sectors and provide multimodal interchange points at bus stops along with pedestrian crossings. Also, space underneath the MRT viaduct can be used for paid parking.

Timely execution of planned development in transit corridors will ensure sufficient no. of users/investors at initial stage of implementation thereby ensuring success for the phases to follow. The project envisages that maximum number of inhabitants will use these corridors to commute to their offices and this will also ensure improved and last mile connectivity for the users along with economic development of the area utilising the full potential for increased FARs.

Fall Back Option: In case of lack of response from investors, as a priority, phased development of commercial, retail, office spaces and hotels at the identified spaces whose ownership is with MCF and HUDA will be taken up so that those initiatives could be undertaken in a planned way paving way for densification of the corridor adopting mixed use and also bring in planned revenues for sustainable project development.

ii) Inclusive Planning

Wide spread citizen participation plays a key role in the inclusiveness of the strategy and logical deduction to Faridabad's top priorities and confidence in its preparedness for advancement. The smart city proposal has been prepared on the basis of intensive citizen engagement at all stages of developing the proposal. Hence we can confidently state that the participatory planning is the backbone for this proposal and will ensure its success during and after implementation.

Also consciously, people of Urban villages and slums were involved actively engaged in Round one while arriving at the final ABD area and their issues and aspirations were mapped diligently. In our ABD plan, Urban village Fatehpur Chandela (appox population 2500) and Sant Nagar slum (appox population 5000) have been included for provision of deficit infrastructure as well as some smart solutions in an effort towards social inclusiveness of all strata of the society.

Also as a strategy, it is planned that during implementation stage also SPV will have frequent dialogue/stakeholder consultations with community representatives, ward councillors and prominent community leaders to take their feedback.

iii) Resource allocation, Rigorous Monitoring and Review

Finance and planned budgeting for the area based development and projects by the Central, State Government as well as inclination of the private investors to be properly channelized and allotted to the concerned departments in a pre-planned manner for efficient execution of their respective works.

Monitoring of projects i.e. execution culture in the organization focusing on resources, strategy and operations is essential for ensuring their timely implementation and successful outcomes. Independent monitoring and evaluation of physical and financial progress with regards to project implementation and the dissemination of such information is critical for the success.

18. MEASURABLE IMPACT

What will be the measurable impact of the area-based development proposal, on the area and the wider city, through scale-up and replication? Please describe with respect to the five types below, as relevant to your city and proposals (max. 150 words each):

- a. Governance Impact (eg. improvement in service provision and recovery of charges due to establishment of SPV)
- Single window online clearance for projects in the area by the SPV shall reduce the time taken for building approvals and increase efficiency in administrative procedures.
 We target to reduce approval time from 21 days to 7 days and can be tracked online.
- Smart delivery of subsidy such as through ration cards, health cards, library card etc. in urban village will ensure that there is no pilferage as well as improved service levels. This can be replicated in other urban villages and slum pockets.
- Improved data management for water supply through smart meters, as the entire meter reading data will be captured in electronic format and this would make the billing process quicker and at the same time reduce any chances of manual intervention.
- Automated Online water quality Monitoring System and SCADA system for water supply will reduce response time in case of incidents.
- b. Spatial Impact (eg. built form changed to incorporate more density or more public space)
- Increased density and compact development with consistent development controls,
 Complete streetscape design and place-making in the urbanscape are proposed to be incorporated in the TOD guideline.
- Creation of world-class recreation hubs as well as water body development are proposed at the Badhkal Lake front and at Barahi Talab with smart and sustainable features.
- Adding green lungs in the city such that each person in the ABD has access to well developed open spaces from current 4.3 sqm/person to 7.5 sqm/person.
- A visually coherent multimodal hub is proposed near the railway station which will connect railway, metro, bus, IPT and private vehicle owners in a singular scheme.
- Drainage, sewerage and solid waste collection improvements shall help increase hygiene and maintain a neat and clean look in the urban environment
- Under-grounding of overhead electrical cables and utilities will reduce visual clutter from 0% to 100% coverage in the area
- Streetscape improvement by provision of uniform street furniture targeted in 100% of the area

- c. Economic Impact (eg. new commercial space created for organized economic activity)
- Creation of vending zones shall regulate the informal sector and provide jobs for 2,400 vendors at Badhkal lake front and 550 vendors at Barahi Talab
- Creation of space for conducting various events in the city such as music concerts, drama etc will increase revenue and provide a means for livelihood for craftsmen to sell their wares at Badhkal lake front and at Barahi Talab
- Reduction in traffic congestion by various smart mobility measures shall saves fuel and travel time. The savings from fuel are targeted at Rs.17.14 Mn pa and from time at Rs.23.49 Mn pa
- Reduction in connection time from railway station to metro by 10 mins shall result in Rs.
 1.14 Mn pa saving in fuel and Rs.
 2.34 Mn pa from time
- Improved revenue generation by smart, functional and efficient meters as well as volumetric billing can increase revenue by upto 150%
- Online access to subsidy, 24x7 water supply and improved education will have a positive economic impact on the urban village citizens
- Water conservation, use of renewable energy sources and other green solutions have positive economic impacts over the lifecycle of a project.
- d. Social Impact (eg. accessible features included in the Proposal)
- Encouraging and safeguarding walking improves safety and reduction of accidents involving pedestrians
- NMT is usually used by economically weaker section and their promotion encourages social inclusiveness, we target to increase the NMT vehicular share from 34% to 40%
- The area based development is designed to be barrier free targeted for 100% coverage which is currently zero
- Including street vendors and setting up crafts haat will provide a formal business opportunity for 2400 vendors at Badhkal lake front and 550 vendors at Barahi Talab.
- With more eyes via vendors on the street, Panic Button, CCTV, Mobile App the area will be perceived safer, current crime rate in Faridabad is 374.7 /lakh population, we aim a reduction to 215.5 lakh/population (mega city all India average)
- Training of workers in the engineering design skill centres and innovation labs shall create employment for 5000 workers and help improve their social status

- e. Sustainability, including environmental impact (eg. intensive 24X7 use of public spaces results in reduced traffic and reduced pollution)
- Implementation of NMT projects and e-rickshaws will result in improved modal trip share in favour of NMT Modes from a current average of 35% to 40% and thereby reduce carbon footprint by saving 664 tons CO2 per annum
- By implementing synchronised signalling, smart parking, smart signage and smart IPT stands will reduce idle KM spent by vehicles at red lights, looking for parking space and trip planning thus reducing carbon emissions
- 10% power of the energy needs from Solar is being targeted along with smart sensors for street lighting
- By rain water harvesting, storm water reuse, waste water recycling and decentralized STP's it is targeted to reduce the load on drainage infrastructure and 50 ML of water pa can be reused, 2 MLD water recycled and 10 MLD raw sewage treated and used for rejuvenation of Badkal Lake
- TOD and mixed use projects shall cause 24x7 intensive use of space by increasing density and promote the use of MRT

C. PAN-CITY Smart City **PROPOSAL** FARÎDABA SUPERHARKET

C. PAN-CITY PROPOSAL (S)

A pan-city smart solution should benefit the entire city through application of ICT and resulting improvement in local governance and delivery of public services. The SCP should contain one or two such Smart Solutions. Generally, 'smartness' refers to doing more with less, building upon existing infrastructural assets and resources and proposing resource efficient initiatives.

SUMMARY

Summarize your idea(s) for the pan-city proposal(s). (max. 100 words)

With an overall objective to reduce carbon emissions caused by vehicles and traffic congestion, the proposed FARIDABAD SMART TRAFFIC & TRANSIT MANAGEMENT SYSTEM seeks to achieve the following goals:

(a) To promote eco-friendly mobility: The proposed initiative focuses on developing low carbon and safe urban transport systems that provide access to all.

(b) To provide smooth traffic flow: The proposed initiative focuses on providing data on traffic flow and parking demand through - traffic management system; traffic rule violation system and parking management system;

(b) To promote public transport and NMT: To improve the modal share of public transport, the proposed initiative focuses on making public transport reliable and reducing variability of journey times through passenger information systems/journey planning; fleet and depot management system for city buses and awareness through air quality monitoring system. E-vehicle module is focused on promoting use of e-rickshaws over traditional IPTs and accident hot-spot analysis is aimed at providing information which can be used for improving road safety esp. of pedestrians and cyclists.

20. COMPONENTS

List the key components of your pan-city proposal(s). (max. 250 words)

- (1) AREA TRAFFIC LIGHT CONTROL SYSTEM (ATCS):
- (a) To reduce congestion and to ensure smooth & coordinated transit flow, intelligent real-time dynamic traffic control system that uses data from vehicle detectors and optimizes traffic signal time in real time will be adopted
- (b) To provide information on traffic flow density and incidences so as to guide future transport planning and policy formulation in the city, roadway sensors and CCTV cameras will be utilized
- (c) To provide air quality sensors and measure / analyze the trends in pollution levels
- (2) PARKING MANAGEMENT SYSTEM: Mobile apps/web-portals to
- (a) provide real-time information to citizens and visitors to find available parking spaces, and
- (b) gather real-time information about location wise and time wise parking availability to better model and anticipate problems to reduce congestion, and to more appropriately price parking based on demand thus providing enhanced services to citizens;
- (3) PASSENGER INFORMATION SYSTEMS, AND JOURNEY PLANNING: Mobile apps / web-portal, bus stop based bus arrival information to provide static and real-time data to enable commuters plan journeys from origin to destination using multiple public transit modes across Faridabad.
- (4) TRAFFIC RULE VIOLATION DETECTION SYSTEM: Violation detection and challan generation system to be integrated with existing online payment system of challans and digitized records of vehicle ownership.
- (5) E-VEHICLE & NMT MODULE: Enable E-rickshaw charging stations to promote use of e-rickshaws & reduce pollution. GPS tracking of e-rickshaws for future location planning of e-rickshaw stands. Promotion of NMT through provision of cycle tracks; section improvement along NH-2 corridor; awareness amongst citizens on pollution levels through air quality monitoring system and user apps to indicate carbon emissions by choice of mode of travel.
- (6) FARIDABAD TRAFFIC & TRANSIT OPERATIONS AND MANAGEMENT CENTRE: 24x7 operations centre built on a data integration platform for traffic monitoring and control, signal control, parking pricing control, accident hot-spot analysis, alerting and incident management. Existing depot management and fleet management systems operated by Haryana Roadways shall also be upgraded and integrated with the integration platform.

Communication and Change management: ICT and social media based 2-way communication with citizens/ commuters to create behavioural change, creating peer groups driving collective action. For staff and management of stakeholder agencies and service providers – focus on benefits and capabilities of new systems for adoption.

21. APPROACH & METHODOLOGY

What is the approach and methodology followed in selecting/identifying the pan-city proposal(s)? Describe the reasons for your choice based on the following (max. 1000 words):

- a. The city profile and self assessment;
- b. Citizen opinion and engagement
- c. Opinion of the elected representatives
- d. Discussion with urban planners and sector experts
- e. Discussion with suppliers/ partners
- 1. INPUTS / FEEDBACK FROM CITIZENS: The top areas of concern identified by citizens are long commute time, lack of parking availability and walkability. Discussions with public transit users comprising office goers, college students and middle income households revealed that for travelling to Delhi/NCR, they prefer Metro and take auto to/from metro station for last mile connectivity. Discussions with industrial workers highlighted heavy traffic on city roads leading to less walkability, long-wait time at bus stops, unpredictable bus-service and inadequate network coverage as key issues. Discussions with college students and mothers highlighted rising pollution as a serious concern.
- 2. CITY PROFILE AND SELF-ASSESSMENT: Faridabad is one of the most polluted cities in India. The Air Quality Index for Faridabad stood at 280 on 25 March 2016 making it the second most polluted city in India. Over 35% of the carbon emissions in the city are due to vehicles. Being an important constituent of NCR region, the city experiences huge traffic flow both to/from other parts of NCR. Since Faridabad is situated at both sides of Delhi-Mathura Road (NH-2), it also experiences huge external traffic i.e. traffic which has no business in the city. Due to this, the city faces huge traffic flow. The traffic situation is further worsened by the following factors:
- (a) Low walkability in the city: Only about 8% of the roads have pedestrian footpaths, thus, forcing people to walk on roads and leading to low traffic speeds. Low walkability also leads to higher road accidents. The number of fatalities per lakh population is about 21 as against the all India average of 11.
- (b) Heavy reliance on two-wheelers and autos for travel within city and low demand for public transport: The modal share of autos and two-wheelers is 28% in the city while that of public transport is 11%. One of the factors for low demand for public transport is low reliability of organized public transport. The frequency of city bus services is as low as 30 min and out of a fleet of 160 buses, 90 buses are operational. Another factor leading to heavy dependence on two-wheelers and autos is the fact that the city extends to 3 km on either side of NH-2. Though the Metro line which runs along the NH-2 for a stretch of 13.87 km caters to the travel demand within NCR region, for last mile connectivity, Faridabad citizens prefer two-wheelers and autos.
- (c) Haphazard on-street parking: Most of the parking is on-street parking as very few or minimal off-street facilities are available. Vehicles are parked on-street haphazardly interfering with the traffic flow.

All these factors lead to congestion in the city thus adding to the pollution caused by vehicles. The average journey speed on the key corridors in the city is about 25 kmph.

Thus, assessment reveals a need to reduce congestion in the city through promotion of public transport & NMT, and parking, pedestrian movement & traffic management.

3. OPINION OF ELECTED REPRESENTATIVES AND VARIOUS GOVT. STAKEHOLDERS: Consultations with MCF and HUDA emphasized on the need for citizen engagement and empowerment, smart solutions that are proven, practical and relevant to Indian context. They also emphasized need for focus on outcomes that citizens would experience as tangible impact.

Consultations with traffic police, DMRC and RTA highlighted- a need to ensure multi-agency collaboration & to ensure last mile connectivity; a need for improving efficiency & reliability of the existing system; increasing dependency on autos & personal vehicles and the resulting pressure on existing roads & parking availability. Our pan-city solution of fleet management and depot management shall help in improving reliability and efficiency of services.

Consultation with Haryana Roadways revealed that though there is a depot and fleet management system in place, vehicle downtime is high due to insufficient staff for maintenance and lack of monitoring of contractual maintenance staff. It was further highlighted that there is a need to improve the feasibility of bus operations through route optimization. Our pan-city solution of bus route optimization & scheduling and traffic flow monitoring shall help in improving the feasibility of bus operations. Integration of existing depot and fleet management system with 24x7 Faridabad traffic & transit operations and management centre will help in SLA monitoring of contractual staff thereby improving bus reliability and operational efficiency.

Consultation with traffic police indicated high incidence of traffic rules violation, and lack of supporting infrastructure for ensuring walkability as a cause of frequent road accidents. Consultations highlighted need to improving road safety.

- 4. CONSULTATION WITH VARIOUS URBAN PLANNERS / EXPERTS AND OTHER CIVIL SOCIETY STAKEHOLDERS: emphasized on the need for ensuring social inclusiveness, multi-agency collaboration, travel demand reduction and pollution reduction. Transport experts emphasized on the need for tapping transit oriented development and on improving connectivity between the eastern and the western parts of the city. Domain experts highlighted the need to have measurable outcomes clearly aligned with the vision.
- 5. DISCUSSIONS WITH SUPPLIERS/PARTNERS: Practicality of the solution and technical feasibility of achieving the functional capabilities of such a system was vetted in discussions with major technology players such as IBM, CISCO, Siemens and with professionals experienced in implementation of such systems in other countries in Asia.

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22. DEMAND ASSESSMENT

What are the specific issues related to governance and public services that you have identified during city profiling and citizen engagement that you would like to address through your pan city proposal(s)? How do you think these solution(s) would solve the specific issues and goals you have identified? (max.1000 words)

GOVERNANCE ISSUES:

(a) Limited coordination amongst various agencies involved in traffic and transport management in the city: There are multiple agencies in Faridabad such as Haryana Roadways, DMRC, RTA, MCF, HUDA and traffic police. While Haryana Roadways and DMRC provide urban transport services, RTA issues routes permits and licenses to buses/autos, traffic police is responsible for traffic management and MCF & HUDA are responsible for provision of road infrastructure, parking spaces and bus shelters. At present, there is limited multi-agency collaboration which takes place through meetings, discussions and interpersonal communication. There is a need to improve multi-agency collaboration to ensure that transport demand & supply are managed efficiently and to ensure that there is a clear cut strategic plan driving the urban transport

and traffic management services in the city.

Faridabad Traffic & Transport Operations and Management Centre will facilitate real time coordination amongst multiple agencies to manage city urban transport and traffic operations. This will also provide holistic view of urban transport issues to all the agencies so as to enable them to adopt comprehensive urban transport strategies to reduce travel demand in future.

(b) Lack of performance management systems and enforceability of contracts on outsourced maintenance staff: At present, there are 160 city buses, out of which 90 buses are operational. There is no internal staff available with Haryana Roadways for maintenance of buses. Consequently, Haryana Roadways outsources its bus maintenance services. There is a need to monitor service level agreements to ensure provision of reliable bus services.

Fleet and Depot management system for city bus services will provide real-time information on bus breakdowns, and time taken for repair by contract staff. Clear linkage between performance and payment for contract staff will enable performance monitoring & enforcement of performance contracts.

PUBLIC SERVICE ISSUES:

- (a) Lack of reliable public transport services: At present, there is no integrated management system to ensure timely arrival of buses, improving the frequency of buses and reducing the breakdowns of buses. As a result, commuters face delays, have to wait for longer times and cannot rely on public transport system especially in times of emergency. Our pan city proposal aims to enhance reliability by providing a fleet management system, depot management system, route optimization & scheduling system and a 24x7 operations centre.
- (b) Lack of information on public transport services: Commuters are unable to plan to their journeys, and are not aware of the estimated waiting time for buses. This leads to higher dissatisfaction amongst commuters and acts as a disincentive for using public transport. Proposed passenger information systems, journey planning app & websites shall help in providing reliable real time information to public and allow them to plan their commute in advance.
- (c) Lack of reliable information on available parking spaces: At present, there is no system to provide information to commuters on available parking spots and parking charges. Through the parking app and website, parking availability and charges information would be provided to commuters. This will also influence the commuters' decision on choice of mode of travel.
- (d) Congestion on roads: Commuters face frequent traffic jams and experience longer commute times. The average journey speed is 25 kmph. Traffic signalling through the use of area traffic lights control system will help in reducing congestion.

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23. INCLUSION

How inclusive is/are your pan-city proposal(s)? What makes it so? (max. 150 words)

Our pan city solution aims to provide reliable public transport services to commuters through route optimization & scheduling, and fleet & depot management system. Most of the benefits of improvement in public transport services will accrue to the people at the bottom of the pyramid, thus ensuring inclusiveness of the proposal.

The proposed e-rickshaw module supports the Government of Haryana initiative to introduce e-rickshaws in the city and incentivise the adoption of e-rickshaws by IPT owners by providing charging stations. E-rickshaws are more economical will reduce the operational cost incurred by IPT owners by switching from autos to e-rickshaws.

Accident hot-spot analysis will provide information on areas where pedestrian safety is low. This information will enable civic authorities to identify areas where there is a need to improve pedestrian infrastructure.

Since the overall objective of our pan city solution is to reduce pollution in Faridabad, it will benefit all sections of society esp. the vulnerable sections such children and old aged people.

24. RISK MITIGATION

What are the three greatest risks that could prevent the success of the pan-city proposal(s)? In table 3, describe each risk, its likelihood, the likely impact and the mitigation you propose. (max. 50 words per cell)

TABLE 3					
Risk	Likelihood	Impact	Mitigation		
Institutional Integration Risk There may be delays or issues in integrating different stakeholders / mode operators such as Haryana Roadways, DMRC, traffic police, MCF, HUDA etc.	Moderate	High	Smart City SPV with stakes from all key agencies will coordinate planning and implementation of complementary non-digital components too, including managing PPP processes (for eg. Bus stops). Further shared real-time operations situational awareness (provided by Faridabad Traffic and Transit Operations Management Centre) by all agencies will enhance operations coordination.		

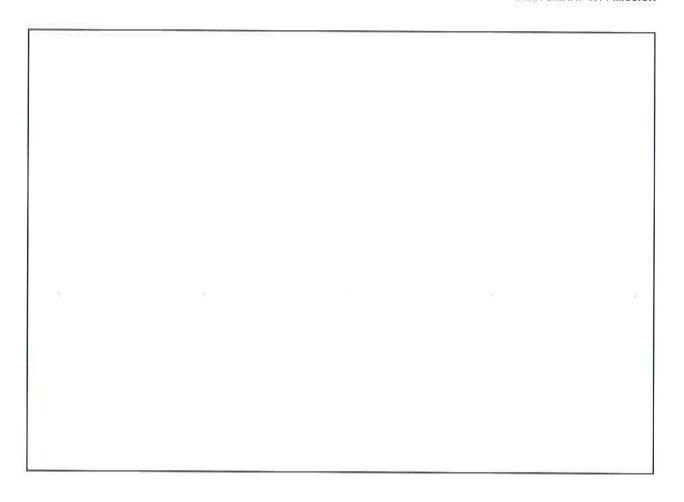
TABLE 3					
Risk	Likelihood	Impact	Mitigation		
Informal Sector Operators Integration Risk There may be issues in integrating IPT owners. IPT owners may not be conducive to the proposed solution of vehicle tracking and to accept parking only in designated areas. Capital cost of e-rickshaws may be barrier to adoption.	Moderate	High	E-rickshaws will be more economical to IPT owners. IPT owners may further be incentivised for GPS tracking through additional revenue sources such as marketing advertisements at the back of e-rickshaws. SPV will facilitate such bulk advertisement space deals, and loan financing of e-rickshaws.		
Encroachment / Street Vendor squatting Encroachment on roads is a major issue in Faridabad. While this issue will not make the proposed pan city solution a failure but may limit extent of achievement of its impact indicators of reducing congestion.	High	Moderate	Enforcement will be the key strategy. There is a consensus amongst all the authorities on the need to improve enforcement. Faridabad Traffic & Transit Operations Management Center aided by video surveillance will adopt corridor management strategy to prioritize road stretches, and monitor Level of Service achieved.		

TABLE 3					
Risk	Likelihood	Impact	Mitigation		
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25. FRUGAL INNOVATION

Which is the model or 'best practice' from another city that you are adopting or adapting in your proposal(s)? How are you innovating and ensuring best use of resources? Is there an aspect of 'frugal innovation' in your proposal(s)? (max. 500 words)

- In most cities traffic and public transit operations are managed by different agencies, and hence their Command and Control Centres too have evolved on separate systems and different locations. In India bus transit operations are monitored in cities like Indore, Mysore and Pune. Traffic Police monitor traffic video feeds and run control room operations in many Indian cities. In FTTOMC, it is proposed to house both these functions in the same location (Command and Control Centre) within MCF premises; and also have both capabilities provided from the same digital platform solution. This will enable improved cross-domain operations coordination. For eg. Bus scheduling and route management based on real-time traffic situation; introduction of new bus routes based on traffic pattern analysis. Cities like Dallas, Rio De Janerio have implemented multi-domain operations centres.
- Data regarding congestion, accidents, traffic violations, work parking / right-of-way obstructions, etc. will be collected and analysed to understand patterns of such hotspot locations and time-of-day. Such pattern analysis will enable optimize deployment of on-ground resources (traffic field personnel), tow vehicles etc. and adopt a prioritized corridor free-flow management strategy. Such spatio-temporal analytics undertaken by cities like Singapore help manage traffic on key corridor with limited manpower resources.
- Video surveillance will monitor 24x7 prioritized hotspot locations with frequent traffic / wrong parking violations including unauthorised street vending. Public loud speakers installed at these locations, will be used to call out violators by FTTOMC operators. Such public naming / shaming as is practiced in Cyberjaya, Kuala Lumpur has desired effect in long term. This frugal innovation will be relevant in Faridabad and is hence envisaged as part of FTTOMC operations.
- E-Rickshaw charging stations are envisaged in select parking lots. Utilizing the same parking lots at non-peak hours avoids need for any other dedicated space. Further solar power generated on the parking canopy is fed into grid, and power drawn down in non-peak hours for charging the rickshaws. Effective power cost is based on net metering lowering overall cost of battery charging.



26. CONVERGENCE AGENDA

In Table 4, list the Missions/Programmes/Schemes of the Government of India (eg. SBM, AMRUT, HRIDAY, Shelter for All, Digital India, Make in India, Skill India) and relevant external projects and describe how your proposal(s) will achieve convergence with these, in terms of human and financial resources, common activities and goals. (max. 50 words per cell)

	TABLE 4				
S.No	Missions/Programmes/Schemes/Projects	How to achieve convergence			
1	District Road Safety Programme	Under the road safety programme of Faridabad, RTA, HUDA, MCF and traffic police are taking a number of initiatives such as identification of auto-parking stands, preparation of roads and pavements, installation of CCTV cameras at some junctions, provision of advance warning sign boards, provision of speed breakers & Zebra crossings across the city and awareness campaigns for road safety. The programme will help in achieving the vision of reducing the number of accidents, improving walkability and reducing congestion on roads. Financial convergence to the tune of Rs. 3.96 crores shall be achieved for CCTV installation at major junctions.			

	TABLE 4				
S.No	Missions/Programmes/Schemes/Projects	How to achieve convergence			
2	Crime and Criminal Tracking Network & Systems - CCTNS	Faridabad is implementing CCTNS system which is Mission Mode Project under the National e-Governance Plan of Govt. of India. Under this project, past criminal records are being digitized and FIR is being lodged electronically. This system shall also be integrated with traffic rule violation detection system and accident hot-spot analysis.			
	χ	# E			
3	Universal Financial inclusion - Pradhan Mantri Jan Dhan Yojana	Our Pan City proposal – Smart Car Parking module and e-charge station module will adopt standards that accept RuPay cards and Unified Payment Interface (NCPI) there by increasing the reach of the universal financial inclusion initiatives of Govt. of India			
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	TABLE 4				
S.No	Missions/Programmes/Schemes/Projects	How to achieve convergence			
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27. CONVERGENCE IMPLEMENTATION

Describe how the convergence will be implemented? (max. 350 words)

Convergence across the parameters of physical, financial and human will be achieved as under:

PHYSICAL: It shall be ensured that the configuration of the CCTV cameras and the software used for traffic rule violation detection, & parking management system is compatible and integrated with the CCTV cameras to be installed in District Road Safety Programme. While implementing traffic rule violation system, compatibility of system with CCTNS and RTA database of vehicle registration (VAHAN/SARATHI) shall be ensured.

FINANCIAL: Rs. 3.96 crore shall be leveraged from District Road safety programme.

HUMAN: Awareness campaigns on road safety under district road safety programme shall also help in reducing accidents and thus in achieving impact indicators of reduced accidents.

28. SUCCESS FACTORS

Describe the three most significant factors for ensuring the success of the pan-city proposal(s). What will your city do if these factors turn out to be different from what you have assumed? (max. 250 words)

- (a) COMPLIMENTARY INVESTMENTS IN ENABLING INFRASTRUCTURE— improvement in road quality, provision of slip roads, footpaths, foot over bridges, bus-shelters; pedestrianization in areas around trip originating / destination nodes are critical. Investments from MCF and HUDA will be aligned, prioritized and deployed at high public transit nodes to ensure success of pan-city proposal.
- (b) SHIFT IN CITIZENS' ATTITUDES IN FAVOR OF PUBLIC TRANSPORT Attitudinal

shift is critical for modal shift. Awareness on air quality and relative benefits of choosing public transport over personalized vehicles through apps/websites may help in bringing attitudinal change. If despite these efforts modal shift is sluggish and public transit is operating under-capacity, significantly high and demand based pricing of parking charges will be introduced.

(c) PARTICIPATION BY IPT OWNERS FOR E-VEHICLE MODULE: Willingness on part of IPT owners is essential for switching to e-vehicles, to allow GPS tracking and to stand at designated parking stands. While e-rickshaws will be more economical to IPT owners, advertisement permissions may be given as incentives to IPT owners and higher penalties for violation of parking rules will help in ensuring success.

29. BENEFITS DELIVERED

How will you measure the success of your pan-city proposal(s) and when will the public be able to 'see' or 'feel' benefits: immediately, within Year 1, or in the medium or long term, 3-5 years? (max. 150 words)

The effectiveness of FARIDABAD SMART TRAFFIC & TRANSIT MANAGEMENT SYSTEM will be primarily measured through improved average journey speed, reduction in number of road fatalities per year and improved public transit ridership in absolute numbers and as trip-share. Key milestones of benefits experienced by citizens (from start of program implementation) are:

IMMEDIATELY WITHIN 1 YEAR

- (a) Commuters usage of Journey planning apps 6 months
- (b) Experience reliable bus operations 12 months
- (c) Journey planning system enhanced with real-time updates 12 months
- (d) Air quality monitoring app/website- 6 months

MEDIUM TERM WITHIN 3 YEARS

- (a) Online payment of challans 24 months
- (b) Parking availability app/website- 24 months
- (c) E-vehicle charging stations 24 months

LONG TERM WITHIN 5 YEARS

30. MEASURABLE IMPACT

What will be the measurable impact of your pan-city proposal(s)? Please describe with respect to the following types given below, as relevant to your city and proposals (max. 150 words)

 a. Governance Impact (eg. government response time to citizen complaints halved, creating faster service delivery overall)

Governance impact: Irrespective of agency owning the road corridor (HUDA or MCF); traffic and parking management functions will operate seamlessly. FTTOMC will host personal from traffic police and civic agencies; provide all agencies unified real-time situational awareness from the common digital platform that enables intelligent traffic and transit operations. Traffic and transit incidence response time will be less than 30 minutes, improving levels of service and average speeds from 25 kmph to 35 kmph by 2025 along all major corridors.

b. Impact on public services (eg. real-time monitoring of mosquito density in the atmosphere reduces morbidity)

Impact on public services: Public transport modal share will increase to 40% from existing 15%, and average number of road fatalities per year reduced from 677 to 300. Citizens will experience improved air quality, and share of transport sector contribution into extent of pollution will drop from 35% to less than 25%. Improved transit operations management will enhance fleet availability for operations by 10% per year to reach fleet operational availability of maximum of 90% in 4 years' time.

D. IMPLEMENTATION FARÎDABAD PLAN SUPERMARKST

D. IMPLEMENTATION PLAN

31. IMPLEMENTATION PLAN

In Table 5, describe the activities/components, targets, resources and timelines required to complete the implementation of your area-based development and pan-city solution/s. This should include the items mentioned as Essential Features in Q. No. 16 plus other 'smart' solutions, including accessible infrastructure for differently-abled. (max. 50 words per cell)

			Table 5		40	
S N o	Activity/component	Indicator	Baseline (as on)	Target	Resources required	Likely date of completion
		AREA-BA	SED DEVELO	PMENT		
1	SMART MOBILITY a. Barrier Free Footpaths incorporating universal designs b. Road infrastructure along major corridor for NMT modes c. Universal access to all public transport along major corridors d. Safe intersection design and raised pedestrian crossings e. Electric vehicles / IPT for last mile connectivity	a. Footpath Availability b. % of NMV facilities c. Improved modal trip share in favour of NMT d. No. of Accidents e. Carbon Saving in Tonnes/annum	a. 5% roads have usable footpaths 0% barrier free footpaths b. 0% NMV facilities c. Current average NMT trip share is 34% d. Fatal Accident Index (FAI) 15.33 Accident/ lakh Population e. 0% carbon savings due to lack on NMV facilities	a. 100% Barrier Free pedestian movement, 24.24km footpath b.100% coverage of all main roads by NMT infrastructure, 17.2 km of segregated cycle track, 7 km of unseggregated cycle track, 7 locations of solar powered E Rickhaw stands and 165 parking bays d. Target for near zero FAI e. Reduced carbon footprint by saving 664 tons CO2 per ann	Physical - Right of Way Free from Encroachment for NMT facilities and availability of planned spaces for E rickshaw stands/parkings and PBS Financial: Estimated cost for the subproject is 71 crore. As for the city, AMRUT does not have allocated funds for urban transportation, this whole module is planned to be developed under Smart City Mission Programme	18 months from Project Start Date
2	SMART MOBILITY Non Digital Signage coverage in all arterial and collector roads in project area Digital Signages: Specially-designed boards with smart features (Variable Message sign boards) for traffic / recreational spaces	a.% coverage in arterial roads of project area for Non Digital Signages b.No. of digital signages on arterial and collector roads c.ldle Kms spent looking for parking	a.15% signage coverage in all arterial and collector roads in project area b. 0 digital signages in arterial and collector roads of project area	a.100% signage coverage in all arterial and collector roads in project area b.18 functioning display boards, at major public spaces, metro stations and strategic display points along prominent roads	Physical: Encroachment free Right of Way Command control Real time data collections, analysis and display of information coordination Institutional and technical setup and support required for Study, identification and shortlisting of data to be displayed; (continuous) Financial: 16 crs - Planned from SCM outlay	'9th Month from Project Start Date

	Table 5							
S N o	Activity/component	Indicator	Baseline (as on)	Target	Resources required	Likely date of completion		
3	SMART MOBILITY Intelligent Traffic Management System - Synchronised traffic signals for optimum traffic flow and provide a 'green corridor' to emergency response vehicles	a. No. of syncronised signalised traffic intersections b.Carbon Saving in Tonnes/annum c. Saving from fuel and saving from time	0% (2016)	12 signalized traffic intersections working in syncronisation to provide a 'green wave' to traffic improving traffic flow and reduction of 200 tons CO2 pa • Reduction in traffic congestion by various smart mobility measures shall save fuel and travel time at Rs.17.14 Mn pa and from time at Rs.23.49 Mn pa	Traffic flow data for all intersections and for all time periods Financial: Syncornised signals are provided for major junctions across pan city including 12 junctions identified in ABD and planned from SCM outlay	9th Month from Project Start Date		
4	SMART MOBILITY Intelligent car coach parking system, Smart Auto/Taxi stands and Public bike sharing system (PBS) and Multilevel Parking	a. No. of intelligent parking ECS b. No. of IPT stands for Autos/Taxis covered under Smart Auto/Taxi stands c. No. of PBS stations d. No. of multilevel parkings e. Idle kms spent looking for parking space	a.0 intelligent parking ECS b. 0 IPT stands for Autos/Taxis covered under Smart Auto/Taxi stands c. 0 PBS stations d. 0 Nos. e. Current 100%	a. Modernisation of around 700 ECS parking area b. 95 ECS stands for Autos/Taxis covered under smart Auto/Taxi stands c. 9 PBS stations and 180 cycles d. 2 multilevel parking with 550 ECS e. 50% reduction in Idle time	Digital infrastructure such as system parking counter/ sensor, Exclusive parking spaces around tourist places for tourist coaches, Electronic displays for parking availability, Multiple touch points for citizen on parking availability awareness, Common payment card Financial: Cost of this sub proposal is 41.75 cr and this is planned through SCM budget outlay	'16th Month from Project Start Date		
5	SMART AND SUSTAINABLE CIVIC INFRASTRUCTURE Decentralized STP for reuse of wastewater for Badkhal lake revival	Quantity of wastewater recycleda, No. of lanes and Length of Flyover	Presently no recycling of wastewater. 18 MLD of raw (untreated) sewage is being disposed off near Sector 21A in a drain	10 MLD of wastewater targeted to be treated in STP and recycled for lake filling, landscaping and industrial use	Physical: Encroachment free land to constructing STP Financial: 45 Crs	30 months from start date followed by O&M period of 24 months		

Table 5 S Activity/component Indicator Results Target								
N o	Activity/component	Indicator	Baseline (as on)	Target	Resources required	Likely date of completion		
6	SMART AND SUSTAINABLE CIVIC INFRASTRUCTURE a. Waste Water Recycling for Public Buildings and Group housing	a. Quantity of wastewater recycled	a. No recycling of wastewater	a. Around 2 MLD of wastewater will be treated in decentralised STP's and recycled.	Physical: Identification of buildings, monuments, institutions and open spaces for	a. 15 months from start date followed by O&M period of 24 months		
	b. Rehabilitation of Sewerage Nework	b. Improved coverage of sewerage system c. Quantity of	b. Present coverage - 65%	b. Targeted Coverage - 85%	recycling and reuse and water harvesting	b. 33 months from start date followed		
	c. Rain water Harvesting and Storm water reuse for Public Buildings, Schools, Colleges and	storm water reused	Storm Water	c. Reuse of 50 ML of rain water can be reused per year	Human: Capacity building of O&M staff	by O&M period of 12 months		
	Parks d. Revamping of Storm Water Drainage System	d. Improved coverage of Storm Water drainage system	d. 70% SWD network coverage	d. d. 100% SWD network coverage	Financial: 74 crs	from start date d. 33 months followed by DLI period of 12 months		
7	SMART AND SUSTAINABLE CIVIC INFRASTRUCTURE	a. No. of Smart Metered	a. 0% smart metering	a. 100% smart metering	Physical -Control centre space for	a. 24 months from start		
	a. Smart metering for water connections b. NRW reduction in the water supply system	connections b.1 - NRW Reduction b2 - Improved Service Level b3. Water Supply	b.1 - 51% NRW b.2 - 88 lpcd b.3 - 4-6 hours water supply	b.1 - 20% NRW b.2 - 135 lpcd b.3 - 24x7 water supply in pilot area (Fatehpur C)	SCADA operations Financial-: Estimated cost for allthese subproject together is 27.5 crs	date and by O&M of 72 months b.24months from start date and O&M period of 36 months c. 18 months from start date and O&M of 24		
	c. SCADA based monitoring of flow, levels and pressures in the network and establishment of centralized control room	Hours c. Improved Operation and monitoring of water supply system	c. Manual operation and monitoring of water supply system	c. Automatic remote operations and monitoring of water supply system on a real				
	d. Automated Online water quality Monitoring System for the distribution network	d. Monitoring of water quality e. Increased	d. Manual monitoring of water quality. e. Present 2	time basis. d Automatic online monitoring of water quality		months d. 12 months followed by 12 months of maintenance		
	e. provision of smart toilets	coverage of Public toilets	public toilets in ABD area	e. 25 additional toilet		e9 months followed by 36 m O&M		
8	SMART URBANISM a. Multimodal Hub	a.1 Development of new railway station concourse a.2 . Reduced Connection time from Metro to	a.10ld railway station in poor condition	a.1 Development of new concourse of area of 11447 sq m a.2 5 mins by	a.1 Physical: Encroachment free land for development of Railway Station Concourse and	27 months from project start date		
		Rallway Station with savings in carbon emissions, fuel and time	by walk	walk with provision of new FOB with 1.14 Mn pa saving in fuel and Rs. 2.34 Mn pa from time	Bus terminal a.1 & a.2Financial: 61.67 crs to be covered from SCM outlay			
	b. Development of open recreational spaces such as Badkhal Lake front and Marina Development, Barahi Talaab, Open air Gyms and Smart Urban Village - Fatehpur Chandela Slum Upgradation - Sant Nagar	b.1. Employment generation b.2. Creation of open space and d. lungs Area sqm/person c. Improved LoS	b.1. 0 b.2 Open spaces and lungs Area sqm/person 4.3 sqm/Person b.3 No open air gyms currently	b.1 Employment generation for 2800 vendors b.2 - 20pen spaces and lungs Area sqm/person 7.5 sqm/Person c. 5 new open air gyms	b.1 Physical: Encroachment free land for development of these open spaces b.1,2, 3 - Financial: 67.2 crs to be covered from SCM outlay	27 months from project start date		

	Table 5							
S N o	Activity/component	Indicator	Baseline (as on)	Target	Resources required	Likely date of completion		
7.0			CITY SOLUT					
1	COMPONENT 1: Area Traffic Light Control System COMPONENT 4: Traffic Rule Violation Detection System	Number of signalized junctions covered	Nil	100% (102 junctions)	Financial: 94.34 cr Physical: Traffic signals & surveillance with video analytics & PTZ (pan-tilt-zoom features)	24 months from project start date		
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2	COMPONENT 2: Parking Management System	Number of organized parking spots covered	Nil	100%	Financial: 10.23 cr Physical : CCTV cameras, sensors at entry & exit and parking slots	24 months from project start date		
3	COMPONENT 3: Passenger information systems, and journey planning	a) % of Haryana roadways buses having PIS b) No. of bus shelters constructed c) % of bus shelters having PIS	a) Nil b) Nil c) Nil	a) 100% b) 100 c) 100%	Digital: LED/LCD displays for both bus shelters and buses and app for Journey planning & air pollution information dissemination Physical: Bus Q shelters at all bus stands Financial: 31.82 cr	a) 12 months from project start date b) 24 months from project start date c) 24 months from project start date		

Table 5							
S N o	Activity/component	Indicator	Baseline (as on)	Target	Resources required	Likely date of completion	
4	COMPONENT 5: E-Vehicle & NMT Module	a) % e-rickshaws fitted with GPS tracking devices, and meters	a) Nil	a) 100%	Digital: Meters, GPS unit, solar panels, charging station structure	a) 24 months from project start date	
		b) No. of e-rickshaw charging points constructed	b) Nii	b) 10	Financial: 51,44 cr	b) 24 months from project start date	
		c) Length of NH-2 provided with cycle track	c) 0 km	c) 21 km		c) 24 months from project start date	
	É	8 x 1 1 1 1 2 2 2 4 0	Œ		6		
5	COMPONENT 6: Traffic & Transit Operations And Management Centre	a) % of public buses covered under fleet management system b) No. of operational Public Transit Operations centre	a) 0% public buses covered under fleet management system b) Nil	a) 100% of public buses covered under fleet management system b) 1 operational Public Transit Operations centre	Digital infrastructure for bus & crew scheduling system, and fleet management system Financial: 20.20 cr	a) 9 months from project start date b) 12 months from project start date	
6							

32. SCENARIOS

Using information from Table 5, describe the critical milestones, realistic timelines and sequencing of efforts and events that you are projecting as the short-, medium- and long-term scenarios for your smart city. If necessary, include PERT and CPM charts in Annexure 3. (max. 500 words)

AREA BASED DEVELOPMENT

The area based development is divided into 3 main components. Each of these components have a number of projects under it as follows:

- · Smart Mobility 8 projects
- · Smart and Sustainable Civic Infrastructure 10 projects
- · Smart Urbanism 7 projects

Each of these 25 projects will be implemented within a four year period, staggered based on project needs and cash flow requirements.

The typical lifecycle of each project will have 4 stages:

- 1. Project Development: Stage 1– Here the project conceptualization will be done and the detailed project report (DPR) prepared, including the preparation of detailed specifications and procurement documents. For items needing purchase and installation only this stage will be shortened. Baseline of the indicators will be reassessed before the implementation of the project. This is expected to last 6 months
- 2. Procurement: Stage 2– Here based on the procurement method finalized and documents prepared in the previous stage, it is expected that tendering will be carried out for a period of 3 months
- 3. Construction and installation: Stage 3 Once the contractor or supplier is identified, based on the complexity and nature of the project, it is expected that the same shall last between 6 months to 18 months. We expect that by the end of this stage the project is commissioned
- 4. Monitoring and Evaluation: Stage 4 from the end of the last stage of each project till the end of the 4 years period is the Monitoring and evaluation stage. Here it is KPI's which have been set up for the smart city shall be measured against the established baseline of stage 1.

PAN CITY SOLUTION

The pan city solution shall be implemented within 4 years from the project start date in 2 phases as under:

Phase 1 i.e. design phase covering the first 3 months, will include business plan & preparation of detailed project report, preparation of RFP & selection of system integrator and procurement of front end & backend equipment for each of the six components. This phase will also cover preparation of RFP and selection of road developer for construction of cycle tracks along NH.

Phase 2 i.e. imple and will include in	ementation phase: nplementation of a	Phase 2 shall span 2 ye Ill the six components	ars from the project start date
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9.			ï

33. **SPV**

The SPV is a critical institution for the implementation of the Proposal. Describe the SPV you propose to create in your city, with details of its composition and structure, leadership and governance, and holding pattern. Based on your responses in Table 6 describe how you envision the SPV to fulfill the role set out in the Mission Guidelines. (max. 500 words)

	Table 6 (CHECKLIST: supporting documents for 1-7 must be submitted in Annexure 4)				
S. No.	Activity	Ye s/No			
1.	Resolution of the Corporation/Council approving Smart City Plan including Financial Plan.	Yes			
2.	Resolution of the Corporation/Council for setting up Special Purpose Vehicle.	Yes			
3.	Agreement/s with Para Statal Bodies, Boards existing in the City for implementing the full scope of the SCP and sustaining the pan-city and areabased developments.	Yes			
4.	Preliminary human resource plan for the SPV.	Yes			
5.	Institutional arrangement for operationalisation of the SPV.	Yes			
6.	If any other SPV is operational in the City, the institutional arrangement with the existing SPV	No			
7.	Additional document/s as appropriate	Yes			

Ownership Structure: The SPV shall be a limited company incorporated under the Companies Act 2013 and shall be promoted by Government of Haryana and Faridabad Municipal Corporation with equal shareholding.

Governance Structure: The SPV shall have the following:

- a) Board of Directors: The Chairman shall be the MD of Smart City Mission. The Vice Chairman shall be the Commissioner of Faridabad and the CEO shall be an administrative officer appointed by the Haryana Government. The board shall have 4 Directors out of which two will be independent directors.
- b) Advisory Committee: The Chairperson of the advisory committee shall be the Mayor. The advisory committee shall further comprise of Senior Deputy Mayor, Deputy Mayor, Heads of RWAs within MCF limits, 2 NGO representatives appointed by Mayor, Representative of Faridabad Industrial Association, representative of Small Scale Industries Association and Joint Director, Industries.
- c) Supervisory cum Facilitation Committee: This committee shall comprise of the Commissioner, Police; District Magistrate, Faridabad; Administrator, HUDA; Regional Director, DMRC; Project Director, NHAI; Superintending Engineer, Smart Grid; Superintending Engineer, DHBVN; Senior Town Planner, Town & Country Planning Department; Secretary, Regional Transport Authority; General Manager, Roadways and District Forest Officer.

Further, the SPV shall have 4 Directors heading 4 departments namely, Projects, IT, Accounts & Finance and Legal. The CEO will head the Board of Directors. These Directors shall be supported by a team of GMs, Senior Officers, Superintendent Engineers/Executive Engineers and other supporting staff deputed by the Government of Haryana.

The SPV shall be assisted by project management consultants for designing, developing, managing and implementing the projects.

The organization structure of the SPV is presented in Annexure 4.

34. CONVERGENCE

In Table 7, give details of the government (Central, state/ULB) departments, parastatal organizations and public agencies who will be involved with the time-bound execution of each of the project activities/components (both area-based and pan-city) you have identified. (In Annexure 3, include a flowchart showing the network/relationships that the SPV will form with government and non-government agencies, and indicating the nature of connection with each entity.) (max. 50 words per cell)

		TABLE 7			
S.No	Activity/Component	Department/agency/ organization	Role/responsibility		
1	SMART MOBILITY Road infrastructure along major corridor for NMT modes Barrier Free Footpaths incorporating universal designs Universal access to all public transport along major corridors Safe intersection design and raised pedestrian crossings Electric vehicles /IPT for last mile connectivity Solar Powered Charging stations for E-rickshaws Intelligent car coach parking system, Smart Auto/Taxi stands and Public bike sharing& system• Multi Level Parking & flyover	MCF/HUDA/ T&CP/ PWD (B&R)	Sector 19,20, 20A and 20D are HUDA sectors and 21B is MCF sector. SPV to enter into MoU with MCF, HUDA,T&CP, PWD (B&R) for agreement on scope and implementation schedule MCF responsible for calling tender for DPR for smart mobility component, bid process management and award of work. PMC responsible for review of DPR. Upon PMC approval on DPR, MCF responsible for execution. PMC responsible for QC, programme, project appraisals		
2	SMART MOBILITY Digital Signage coverage in all arterial and collector roads in project area Digital Signages: Specially-designed boards with smart features (Variable Message sign boards) at identified locations in ABD	MCF	SPV to enter into MoU with MCF with agreement on scope and implementation schedule. MCF responsible for: (i) Establishing control centre setup (ii) Preparation of Signage Plan (iii) Call for tender and installation of signages. PMC to suggest operating framework for the control centre. MCF to coordinate with Traffic Police, Pollution board and transport department to have agreement regarding live feed for VMS through control		
3	SMART MOBILITY a.Signalized traffic intersections to be synchronized to provide a 'green wave' to traffic	Traffic police	SPV to enter into MoU with Traffic Police with agreement on scope, execution plan and implementation schedule. SPV to transfer the sanctioned fund to traffic police department for implementation Traffic police department responsible for preparing DPR and implementing the scheme		

Continue on next page

		ABLE 7		
S.No	Activity/Component	Department/agency/ organization	Role/responsibility	
4	SMART AND SUSTAINABLE CIVIC INFRASTRUCTURE Development of Badhkal Lake	MCF	SPV to enter into MoU with MCF with agreement on scope and implementation schedule. MCF responsible for preparation of feasibility study, DPR and implementation of the same.	
5	SMART AND SUSTAINABLE CIVIC INFRASTRUCTURE a. Smart meters for water connections b. Automated Online water quality Monitoring System c. Waste Water Recycling for Select Public Buildings d. Rehabilitation of Sewerage Network e. Storm water conservation f. NRW reduction g. Rain Water Harvesting h. Provision of Smart toilets	MCF/HUDA/ T&CP/ PHED	SPV to enter into MoU with MCF, HUDA, T&CP, PHED with agreement on scope and implementation schedule and transfer sanctioned fund for implementation. PMC, on behalf of SPV, responsible for review of DPR. Upon PMC approval on DPR, MCF &HUDA responsible for execution and O&M, PMC responsible for QC,program mgmt. and appraisal	
6	SMART AND SUSTAINABLE CIVIC INFRASTRUCTURE a. WIFI network at select destinations in Project Area b. Information Sharing and Electronic delivery of city services at Kiosk c. Development of an App enabling citizens to report street problems and an Air Quality Monitoring App	MCF/Dept of Electronics and IT	SPV to enter into MoU with MCF and Department of Electronics and IT with agreement on scope and implementation schedule and transfer sanctioned fund for implementation. IT department responsible for implementation of apps.	
7	SMART URBANISM a. Transit Oriented compact high density mixed use development near metro stations b. Development of Badhkal Lake front and Marina c. Development of Open air Gymnasiums d. Smart Urban Village and Slum retrofitment	MCF/HUDA/ Town and Country Planning Department/PHED/ Tourism Department	SPV to enter into MoU with MCF,HUDA, PHED, Town and Country Planning Dept and Tourism Department with agreement on scope and implementation schedule and transfer sanctioned fund for implementation. PMC, on behalf of SPV, responsible for review of DPR. Upon PMC approval on DPR, MCF &HUDA responsible for execution and O&M. PMC responsible for QC, program mgmt. and appraisal	

		ABLE 7	
S.No	Activity/Component	Department/agency/ organization	Role/responsibility
8	SMART URBANISM Multimodal Hub connecting Railway station, metro station, bus terminal, IPT and multi-level car parks	MCF/HUDA/IR or IRSDC	SPV to enter into MoU with MCF, HUDA and Indian Railway/IRSDC with agreement on scope and implementation schedule and transfer sanctioned fund for implementation.
9	COMPONENT 1: Area Traffic Light Control System (ATCS) COMPONENT 2: Parking Management System COMPONENT 4: Traffic Rule Violation Detection System	Traffic Police, RTA, MCF, HUDA	Traffic Police to give rights to operate and maintain traffic lights, and to allow automatic signalling Traffic police to ensure enforcement of parking rules RTA and traffic police to provide consent to integrate vehicle registration data with e-challan system MCF and HUDA to provide consent for implementing integrated parking fee collection & management MCF and HUDA to finalize parking policy and to cooperate
10	COMPONENT 3: Passenger Information Systems, and Journey Planning COMPONENT 6: Faridabad Traffic & Transit Operations And Management Centre	DMRC, Traffic Police	GPS tracking of buses and information integration; to allow up-gradation and integration of existing depot and fleet management system; and to adopt SOP for depot and fleet management system • DMRC to share live feeds for passenger information systems & journey planning app • Traffic Police to provide timely feeds on accidents occurred.
11	COMPONENT 5: E-Vehicle & NMT Module	MCF, HUDA, NHAI	MCF to enforce GPS tracking of e-rickshaws MCF, HUDA and NHAI to provide consent and support for constructing cycle tracks and section improvement along NH-2

35. PPP

In Table 8, give details of all the private companies/corporations/organizations that need to be engaged with the execution and operations &maintenance of the various activities and componentsenvisaged in this proposal, along with a description of their roles and responsibilities as basic TORs. Use appropriate terms such as 'vendor', 'concessionaire', 'JV partner', etc. (max. 50 words per cell)

		ABLE 8	
S. No	Activity/Component	Company/corporation/ organization	Role/responsibility (basic TOR)
1	SMART MOBILITY Road infrastructure along major corridor for NMT modes Barrier Free Footpaths incorporating universal designs Universal access to all public transport along major corridors Safe intersection design and raised pedestrian crossings Electric vehicles /IPT for last mile connectivity Solar Powered Charging stations for E-rickshaws Intelligent car coach parking system, Smart Auto/Taxi stands and Public bike sharing& system• Multi Level Parking & flyover	Vendor/contractor	Construction and commissioning of various asset and maintenance of asset for for planned duration
2	SMART MOBILITY Digital Signage coverage in all arterial and collector roads in project area Digital Signages: Specially-designed boards with smart features (Variable Message sign boards) at identified locations in ABD	Solution providers such as Creative Sign Plus, Kohinoor Enterprises, Signage Systems, Maxim Brand Solution, craterzone and Star Suppliers	Vendor shall be responsible for design, development, installation, maintenance, operation and transfer of signages. This may involve: Installation, implementation, commissioning and operation of all signages Technical support to operator and staff for the systems AMC of the signages for some period
3	SMART MOBILITY Intelligent car coach parking system, multi level parking, Smart Auto/Taxi stands and Public bike sharing system (PBS)	Concessionaire / contractor	Design Build Operate Transfer of Multi-level smart car parking Maintenance of the asset for 5 years

		TABLE 8				
S. No	Activity/Component	Company/corporation/ organization	Role/responsibility (basic TOR)			
4	SMART AND SUSTAINABLE CIVIC INFRASTRUCTURE Construction of STP for treatment and recycling water to Badkal Lake	Concessionaire	The project will be taken up on Design, build and Operate model. Mid of Yr 3, the construction is planned to be completed and O&M to be undertaken for 2 yrs			
	4		9			
5	SMART AND SUSTAINABLE CIVIC INFRASTRUCTURE a. Smart meters for water connections b. Automated Online water quality Monitoring System c. Waste Water Recycling for Select Public Buildings d. Rehabilitation of Sewerage Network e. Storm water conservation f. NRW reduction g. Rain Water Harvesting h. Provision of Smart toilets i. WIFI network at select destinations in Project Area and development of Apps j. Information Sharing and Electronic delivery of city services at Kiosk	Vendor / contractor	Construction / installation and commissioning of components			
6	SMART URBANISM a. Transit Oriented compact high density mixed use development near metro stations b. Development of Badhkal Lake front and Marina c. Development of Open air Gymnasiums	Concessionaire/Contractor	Construction and commissioning of various asset Maintenance of asset for 5 years			
7	SMART URBANISM Multimodal Hub including development of Railway station, FOB connections, bus terminal development	Concessionaire/Contractor	Construction and commissioning of various asset and maintenance period as per plan			

•	TABLE 8				
S. No	Activity/Component	Company/corporation/ organization	Role/responsibility (basic TOR)		
8	COMPONENT 1: Area Traffic Control System (ATCS)	Managed service provider	Vendor shall be responsible for design, development and installation of ATCS system		
9	a a	ō	d.		
	COMPONENT 2: Parking Management System	Managed service provider	Managed service provider shall be responsible for design, development, installation, maintenance, operation and transfer of parking management system. This may involve: (a) Installation, implementation, commissioning and operation through ETMs in all parking spots (b) Comprehensive AMC for the parking management system for 5 years		
10	COMPONENT 4: Traffic Rule Violation Detection System	Managed service provider	Managed service provider shall be responsible for design, development, installation, operation and maintenance of traffic rule violation detection system		
11	COMPONENT 4: E-Vehicle & NMT Module COMPONENT 6: Faridabad Traffic & Transit Operations And Management Centre	Vendor/ Concessionaire Managed service provider	Vendor shall be responsible for installing GPS unit in e-vehicles. Concessionaire shall be responsible for EPC for cycle tracks and section improvement Managed service provider to design, develop, operate and transfer Faridabad Traffic & Transit Operations And Management Centre		

36. STAKEHOLDER ROLES

Attach one A-4 sheet (part of 'Annexure 3'), containing an organogram showing the relationships:

- a) MPs, MLAs, MLCs.
- b) Mayors, Councilors, other elected representatives.
- c) Divisional Commissioner
- d) Collector
- e) Municipal Commissioner
- f) Chief Executive of the Urban Development Authority/ Parastatal
- g) Consultant (Select from empanelled list)
- h) Handholding Organisation (Select from following list: World Bank, ADB, JICA, USTDA, AFD, KfW, DFID, UN Habitat, UNIDO, Other)
- i) Vendors, PPP Partners, Financiers
- j) Others, (eg. community representatives) as appropriate to your city

E.FINANCIAL PLAN FARÎDABAD SUPERMARKET

E. FINANCIAL PLAN

The development of bankable proposals will be a key success factor in the Smart City Mission. In order to arrange appropriate amounts and types of funding and financing for your SCP, you must keep financial considerations always in mind while preparing your overall strategy and the pan-city and area-based proposals. It is anticipated that innovative means of funding and financing the projects will be necessary. For this purpose, you must evaluate the capacity of the ULB and the SPV to undertake self-funded development projects, the availability of funds from other government schemes that will converge in your SCP (refer Questions 13 and 26), and the finance that can be raised from the financial market.

37. ITEMISED COSTS

What is the total project cost of your Smart City Proposal (SCP)? Describe in detail the costs for each of the activities/components identified in Questions 31. (Describe in Max. 300 words)

AREA BASED DEVELOPMENT: (INR 2,108.00 crore)

- ► SMART MOBILITY: The smart mobility initiative is estimated to be INR 377.67 crore (includes project development costs, inflation and contingencies @ 10% of base cost)
- ► SMART & SUSTAINABLE CIVIC INFRASTRUCTURE: The smart & sustainable civic infrastructure initiatives are estimated to be INR 543.63 crore (includes project development costs, inflation and contingencies @ 10% of base cost)
- ➤ SMART URBANISM: The smart urbanism initiative is estimated to be INR 1,186.70 crore (includes project development costs, inflation and contingencies @ 10% of base cost)

PAN CITY SOLUTIONS: (INR 469.68 crore)

▶ SMART TRAFFIC & TRANSIT MANAGEMENT SYSTEM: The smart traffic & transport management system is estimated to cost INR 469.68 crore (includes project development costs, inflation and contingencies @ 10% of base cost and 5 years O&M cost considered @ 20% of base cost)

Further we have earmarked

- INR 10 crores towards communications and change management as we envisage intense and sustained communications and change management initiatives.
- INR 12.34 crore for interest during implementation to match the deficit between grant available under Smart City Mission and funding sources

Thus the overall SCP project cost is estimated around INR 2,600.01 crore

38. RESOURCES PLAN

Describe the financing sources, the own-sources of income, the financial schemes of the Central or State governments for which your city/SPV is eligible, which can be used to fund the SCP proposals and pay back loans. Briefly describe an action-plan for resource improvement to make the ULB financially self-sustaining. (max. 1500 words)

The up-graded Smart City Proposal for Faridabad is prepared as per the Ministry of Urban Development / Smart City Mission guidelines and planned to be financially self-sustaining for its operational cost. The key streams of income for the SPV are as follows:

- 1. Smart City Mission fund /grants (includes share from both Govt. of India and Govt. of Haryana)
- 2. Converging various other schemes and funding under them
- 3. Private Sector investment through PPP mode
- 4. Municipal Corporation of Faridabad (MCF) own sources
- 5. Direct revenue from proposed projects
- 6. Debt from private / public financial institutions
- 1) Smart City Mission funds / grant:
- o INR 500 crore from Govt. of India under the Smart City Mission
- o INR 500 crore from Govt. of Haryana under the Smart City Mission
- 2) Converging various other schemes and funding: (INR 173 crore)
- o INR 77 crore from Govt. of India / MoUD under the AMRUT scheme
- o INR 4.55 crore from Swachh Bharat Mission
- o INR 61.55 crore from IRSDC scheme to redevelop railway station
- o INR 10 crore from Govt. of India / Ministry of Power under IPDS
- o INR 7 crore from Govt. of India / Ministry of MNRE under the Solar City Mission
- o INR 3.96 crore from Govt. of Haryana / District Road Safety Program
- o INR 5.00 crore from Govt. Haryana / Integrated Solid Waste Management project
- o INR 2 crore from Govt. of India City forest scheme
- o INR 5 crore from NHAI in 6 laning Delhi-Agra NH2
- Private Sector investment through PPP mode
- Solar City Mission / Solar Roof Tops INR 19.50 crore
- Developing real estate asset on MCF land (6 land parcels translating to about 2,65,400 sqm of built up area) INR 965 crore
- Constructing 100 Bus Q Shelters INR 23 crore
- 4) Municipal Corporation of Faridabad (MCF) own sources
- Property tax on incremental property developed in ABD zone due to TOD policy INR
 1.76 crore (year 5 scenario)
- Stamp duty share on incremental property registered /developed in ABD zone due to TOD policy – INR 330.83 crores spread over 14 years
- External Development Charges due to incremental property developed in ABD zone due to TOD policy – INR 778.29 crores spread over 10 years
- Infrastructure Development Charges due to incremental property developed in ABD zone due to TOD policy – INR 166.23 crores spread over 10 years

Direct revenue from proposed projects Rental revenues – INR 39.12 crore (annual) Car parking revenues – INR 6.20 crore (annual)
Revenue for sale of FAR / FAR premium – INR 428.38 crore (one time)
Debt from private / public financial institutions is envisaged that MCF / SPV to borrow about INR 12.34 crore from private or public ancial institutions, intermediaries and/or capital markets on negotiated terms. ICRA id given a credit rating of BBB to Faridabad.
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39. COSTS

What is the lifetime cost estimated for your area-based development and your pan-city solution/s? Add O&M costs wherever applicable. (max 500 words)

AREA BASED DEVELOPMENT:

Financial and functional sustainability is core element in the upgraded Faridabad SCP. Adequate funds have been earmarked for operation and maintenance of assets created under SCP. The key objective is to adequately support the life cycle of the assets in up-keeping and lower operations cost.

Area Based Development:

The capital expenditure for implementing non digital intervention is estimated to be INR 2,108 crore. The non-digital assets created will require operations and maintenance cost of about INR 18.64 crore per annum (the O&M does not include projects to be developed on PPP worth INR 984.50 crore). We have considered O&M cost comprising activities such as Service Level Monitoring, regular maintenance (both preventive & Corrective), consumables etc.

Thus life-cycle cost for area based development is estimated to be as follows:

- o Construction / development cost INR 2,108 crore
- o O&M cost for digital asset (5 years) INR 0 (built into the project cost)
- o O&M cost for non-digital asset (30 years) INR 560 crore (without inflation)

PAN CITY SOLUTION:

The capital cost for implementing smart traffic & transit management system is estimated to be INR 469.68crore.

The O&M cost required is estimated to be around 20% of base capital cost and has been built into the overall project cost by way of awarding the contract as 'Managed Services Contract'. This mode of awarding contract is suggested due to lack of capacity at city administration level to undertake O&M of such complex technology asset. We have considered O&M cost comprising activities such as payroll cost for staff, maintenance of hardware, software / middle ware / firewall, cost of up-gradation of software versions till end of life-cycle, repair / replacement of components, Service Level Monitoring, consumables etc.

Thus the life cycle cost smart city solution is estimated to be as follows: Smart traffic & transit management system

- o Installation cost INR 469.68 crore
- o O&M cost (for 5 year) INR 0

We envisage that the hardware replacement cost for digital assets will be made through internal accruals of MCF at appropriate time.

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40. REVENUE AND PAY-BACK

How will the area based development and the pan-city smart solutions(s) of your city be financed? If you plan to seek loans or issue bonds, what revenue sources will be used to pay back the loans? (max. 250 words)

The up-graded Smart City Proposal for Faridabad has identified several projects which can generate direct revenue from their operations. They are as follows

Rental revenue: (INR 39.12 crore)

- Urban place making at Bhadkal Lake & commercial real estate rental INR 9.87 crore annually (assumption 60% of occupancy @ INR 430.40 / sqm rental)
- Multi-modal hub at railway station: Commercial real estate rental INR 27.39 crore (INR 0.88 crore at concourse level & INR 26.50 crore at commercial tower) annually (assumption 60% of occupancy @ INR 538 / sgm rental)
- Urban place making at Barahi Talab & commercial real estate rental INR 2.35 crore annually (assumption 60% of occupancy @ INR 430.40 / sqm rental)

Car parking revenue: (INR 6.20 crore)

- Car Parking MLCP (Multi-modal Hub at Railway Station & Bhadkal Lake 550 ECS) INR 0.60 crore annually (utilization @60% of total ECS and INR 50 per day charge)
- Surface Car parking at Bhadkal (150 ECS) INR 0.16 crore annually (utilization @60% of total ECS and INR 50 per day charge)
- Multiple surface parking lots under Pan City Solutions (4960 ECS) INR 5.43 crore annually (utilization @60% of total ECS and INR 50 per day charge)

Apart from this MCF /SPV is envisaged to earn revenue from land monetization initiatives:

FAR Premium for various land parcels to be developed under PPP mode – INR 428.38 crore (one time premium to be paid by private sector partner)

41. RECOVERY OF O&M

What is your plan for covering the Operations & Maintenance costs for each of the activities/components identified in Questions 31? (max. 1000 words)

AREA BASED DEVELOPMENT:

Smart Mobility:

The O&M cost for this module is estimated to be around INR 6.87 crore per annum. The revenue generated from the projects under this module is as below: Rentals from car parking (INR 0.76 crore)

Bhadkal Lake surface parking – INR 0.16 crore annually

MLCP parking (at Multi modal Hub and Bhadkal Lake) – INR 0.60 crore annually
Thus the activities under Smart mobility activities will require O&M support to the tune of
INR 6.11 crore annually which shall be drawn from other initiatives / modules

Smart & Sustainable Civic Infrastructure:

The O&M cost under this module is estimated to be around INR 9.49 crore. There is no revenue generating activities under this module. Hence the projects under Smart & Sustainable Civic Infrastructure activities will require funding support to meet the O&M costs to tune of INR 9.49 crore which shall be drawn from revenues of other initiatives / modules.

Smart Urbanism:

The O&M cost under this module is estimated to be INR 2.28 crore. The revenue generating activities under this module are as below:

- Urban place making at Bhadkal Lake & commercial real estate rental INR 9.87 crore annually
- Multi-modal hub at railway station: Commercial real estate rental INR 27.39 crore annually
- Urban place making at Barahi Talab & commercial real estate rental INR 2.35 crore annually

Further one-time revenue of INR 428.38 crore is envisaged from sale of FAR / FAR premium.

Thus the projects under Smart Urbanism activities is generating huge surplus of funds which can be utilized for O&M of other activities / modules

PAN CITY SOLUTION

The O&M cost for Smart Traffic and Transit Management System initiative is zero for first 5 years as the same is built into the project cost by way of packaging the contract as 'Managed Service Contract'.

The revenue generating activities under this module are as below:

Rentals from car parking (INR 5.43 crore)

Multiple surface parking lots under Pan City Solutions - INR 5.43 crore annually

Thus O&M expenditure is INR 20.11 crore (O&M cost of INR 18.64 crore along with debt servicing of INR 1.47 crore for 10 years) is adequately met by annual revenue of INR 45.82 crores. In case of financial assumption in revenue calculation does not hold true, then SCP has identified additional revenue streams from property tax, stamp duty, EDC and IDC which is expected to be in the range of INR 180 crore annually which will spread over 14 years. Though there is adequate revenue generated, in case of shortfall MCF can avail this INR 180 crore to bridge the gap.

42. FINANCIAL TIMELINE

What is the financial timeline for your smart city agenda? Describe the milestones and target dates related to fund flows, payback commitments, etc. that must be adhered to for the proposal to achieve the vision set out in Table 5 (question 31)? (max. 1 page: A4 size)

ABD - SMART MOBILITY	Capital investment - INR 377.67 crore (includes project development costs, inflation and contingencies @ 10% of base cost) to be made within 36 months Revenue generation - INR 0.76 crore (at 1st year rates)	All sub-projects to be completed by - 36 months
ABD - SMART & SUSTAINABLE CIVIC INFRASTRUCT URE	Capital investment - INR 543.63 crore (includes project development costs, inflation and contingencies @ 10% of base cost) to be made within 48 months Revenue generation – NIL	All sub-projects to be completed by - 48 months
ABD - SMART URBANISM	Capital investment - INR 1,186.70 crore (includes project development costs, inflation and contingencies @ 10% of base cost) to be made within 36 months Revenue generation – INR 468 crore	All sub-projects to be completed by - 36 months
PC – SMART TRAFFIC & TRANSIT MANAGEMENT SYSTEM	Capital investment - INR 458.47 crore (includes project development costs, inflation and contingencies @ 10% of base cost and 5 year O&M costs) to be made within 24 months Revenue generation – INR 5.43 crore	All sub-projects to be completed by - 36 months

43. FALL-BACK PLAN

What is your plan for mitigating financial risk? Do you have any alternatives or fall-back plans if the financial assumptions do not hold? (max. 250 words)

The upgraded Smart City proposal for Faridabad has identified adequate measures to meet the financing needs of the projects.

However in eventuality of the financial assumptions not holding true due to external factors / macro-economic parameters such as growth in overall economy, buoyancy in real estate market, litigation on land parcels which are to be developed on PPP etc., then there may be possibility of revenues being lower than estimated.

In such cases SPV / MCF can explore the following:

- 1. MCF can explore availing the funds from the proposed 'Infrastructure Development Fund' set up by Govt. of Haryana through additional fees on development within TOD zone, presently earmarked for implementation of MRTS projects. Since the Pan City solution is entirely focusing on urban transit, this fund can be availed by MCF/SPV to bridge shortfall
- 2. Faridabad being a key constituent of National Capital Region, MCF / SPV can explore and avail project specific loan from NCRPB
- 3. MCF has total land bank of 6473 acres situated in different revenue estates of Faridabad. Out of which, at present two chunks of land measuring about 36.6 acres and 19 acres in Sector-91 & Sector 49 respectively are earmarked for sale for the purpose of Group Housing Schemes and both these projects have since been approved by the State Government. The expected income to be derived from the said two projects is to the tune of Rs. 500 crores.
- 4. MCF can explore to evaluate pooled municipal finance bonds and transfer part or full amount of funds raised to SPV
- 5. Govt. of Haryana / MCF can explore divesting its stake in the SPV (upto 49%) to a Strategic partner either public or private sector entity, in order to infuse funds in the project
- MCF can explore its own income sources i.e. additional revenue streams from property tax,EDC and IDC to bridge any shortfall in revenue.

ANNEXURE 1

S. No	Feature	Definition
٦,	Citizen participation	A smart city constantly adapts its strategies incorporating views of its citizens to bring maximum benefit for all. (Guideline 3.1.6)
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)
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)
4.	Health	A Smart City provides access to healthcare for all its citizens. (Guideline 2.5.10)
5.	Education	A Smart City offers schooling and educational opportunities for all children in the city (Guideline 2.5.10)
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)
7.	Compactness	A Smart City encourages development to be compact and dense, where buildings are ideally within a 10-minute walk of public transportation and are located close together to form concentrated neighborhoods and centers of activity around commerce and services. (Guidelines 2.3 and 5.2)
8.	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)
9.	Housing and inclusiveness	A Smart City has sufficient housing for all income groups and promotes integration among social groups. (Guidelines 3.1.2)
10.	Transportation & Mobility	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)
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)
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)

13.	Intelligent 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)
14.	Energy supply	A Smart City has reliable, 24/7 electricity supply with no delays in requested hookups. (Guideline 2.4)
15.	Energy source	A Smart City has at least 10% of its electricity generated by renewables. (Guideline 6.2)
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)
17.	Waste water management	A Smart City has advanced water management programs, including wastewater recycling, smart meters, rainwater harvesting, and green infrastructure to manage storm water runoff. (Guideline 6.2)
18.	Water quality	A Smart City treats all of its sewage to prevent the polluting of water bodies and aquifers. (Guideline 2.4)
19.	Air quality	A Smart City has air quality that always meets international safety standards. (Guideline 2.4.8)
20.	Energy efficiency	A Smart City promotes state-of-the-art energy efficiency practices in buildings, street lights, and transit systems. (Guideline 6.2)
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)
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)
23.	Waste management	A Smart City has a waste management system that removes household and commercial garbage, and disposes of it in an environmentally and economically sound manner. (Guidelines 2.4.3 & 6.2)
24.	Safety	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)

Annexure 2 SUPERMARKET

Input/Initiative that would move the city from its current status to Advanced status (Scenario 4: Column G)	Developing channels of multiple feedback from citizens For key policies /measures /initiatives to be taken, conducting focused group discussions with citizens Keeping regular ward level engagement to understand the pulse of the citizens.
Projection of Where the city wants to be' with regard to the feature/indicator	Faridabad aspires to take citizen views and engage with them towards the fulfilment of Smart City vision Through awareness campaigns about the platforms available for grievance redressal, it would motivate individuals to increase engagement through the website/app/c all centre SPV set up for Smart city would have frequent dialogue/stakeholder consultations with community representative s, ward councillors and
Basis for assessment and/or quantitative indicator (Optional - only if data exists)	For the smart city proposal, citizens of Faridabad were engaged through offline and online poll, Questionnaires , street play etc. MCF toll free number/websi te and mobile app allow citizens to share their grievances. Swachh Haryana mobile application and website allow citizens to share their grievances with respect to garbage/sanitation with MCF CM Window/CM Haryana Cell website provide grievance redressal platform to
Self- assessment of the city (for Pan- City Solution) with regard to each feature	Scenario 2
Scenario 4	City constantly conducts citizen engagement with people at each Ward level to incorporate their views, and these shape priorities and development projects in the city. Multiple means of communication and getting feedback such, both face-to-face and online are utilized. The effectiveness of city governance and service delivery is constantly enhanced on the basis of feedback from citizens.
Scenario 3	City conducts citizen engagement at city level and local area level with most areas. The findings are compiled and incorporated in projects or programs.
Scenario 2	City undertakes citizen participation with some select stakeholders. The findings are compiled and incorporated in some projects or programs. Very few major decisions are shared with citizens until final projects are unveiled.
Scenario 1	The City begins identifies and projects to pursue without consulting citizens.
Category	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)
	Gitizen participation

Input/Initiative that would move the city from its current status to Advanced status (Scenario 4: Column G)	
Projection of Where the city wants to be' with regard to the feature/indicator	prominent community leaders to take their feedback
Basis for assessment and/or quantitative indicator (Optional - only if data exists)	CSCS-Govt. of Haryana approved 54 CSCs to provide citizen services in Faridabad Harsamay, citizen portal integrated with CCTNS allowing citizens to file complaints, Property report etc. Under Swachh Bharat Mission citizen gave feedback on availability of sanitation & related facilities indicating poor availability of dustbin & toilets in Faridabad but with 92% responses saying individual
Self. assessment of the city (for Pan- City Solution) with regard to each feature	
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Scenario 3	
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Category	

sts • Conservated and revitablize it of E lake lake to cover to cover in skill institute he impact of drone of d,			Scenario 2	Scenario 3	Scenario 4	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)
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cultural and maintain the and amenities enhanced cultural and maintain the and amenities enhanced cultural and maintain the and amenities enhanced cultural identity mediums of preserved and the heritage of the city; spaces, open monuments, and areas are and public created without management much thought to how they to how they to how they culture of the events and policy and policy to how they culture of the events and policy culture of the events and policy city. Structures. Telect the protection and policy are widely used attracting etc. identity and are widely used activities. Though and areas are and public and policy to how they are widely used attracting etc. identity and events and areas and activities. Though and policy to how they are widely used attracting etc. identity and events and activities. Though and policy to how they events and are widely used attracting etc. identity and events and activities. Though and policy the public attracting etc. international festival hosted, suraikund international intern	its location or	character of the	resources exist	Public spaces,	and cultural		being	Barahi Talab	Faridabad
and policy to how they they hould place the impact throughly in throughly in the public transform the impact throughly interest throughly interest throughly interest throughly interest throughly interest throughly inter	climate; its	city. Built,	to manage and	public buildings	resources are		promoted for	and the green	 Opening Badkhal lake and
cultural immediate reflect the through various and the heritage is not surroundings of cultural identity mediums of course, perserved and the heritage of the city; expression. Public spaces, open utilized or monuments. Through and areas are shipped and areas are through and areas are management much thought much thought and public physical, created without management much thought and public physical, to how they are widely used terms of drone are widely used terms of through festivals, through festival lake, Rani ki Chhatri. Through the course, activities. Through festival hosted, surraitment international festival hosted, surraitment international in	leading industry,	natural and	maintain the	and amenities	enhanced		Golf tourism to	cover around	Barahi Talab for tourists to
heritage is not surroundings of cultural identity mediums of the heritage of the city; expression. Public spaces, open utilized or monuments. Lybertage is not surroundings of the city; expression. Public spaces, open enhanced New buildings spaces, open and areas are and public reated without much thought much thought and public physical, reflect the management much thought are widely used are widely used are widely used are widely used attracting etc. Structures. In how they events and how they act through festivals, to how they events and by the public attracting etc. Structures cidentity and activities. City. Annually, 1 major international festival hosted, Suraikund International International International International International	its cultural	cultural	immediate	reflect the	through various		Aravalli Golf	these lakes.	enjoy natural beauty from
utilized or monuments. spaces, open enhanced New buildings spaces, amenities enhanced New buildings spaces, amenities enhanced New buildings spaces, amenities enhanced network and areas are and public reated without much thought are widely used and policy to how they reflect the structures. reflect the structures of the events and policy culture of the events and activities. Annually, 1 major international festival hosted, Suraikund lake, Suraikund lakentional linternational linternational linternational	heritage, its local	heritage is not	surroundings of	cultural identity	mediums of		course,		NCR region
utilized or monuments. spaces, open spaces, open chanced New buildings spaces, amenities and areas are and public ranks the impact physical, created without buildings reflect highest in on admanagement much thought are widely used terms of drone and policy to how they are widely used terms of drone attructures. reflect the by the public attracting etc. through festivals, culture of the activities. However, poor activities activities. Rani ki Chhatri. Rani ki Chhatri. Rani ki Chhatri. Rani ki Chhatri. International festival hosted, Surajkund Surajkund Surajkund Surajkund Surajkund Surajkund Surajkund Annually, 1 International	culture or cuisine,	preserved and	the heritage	of the city;	expression. Public		Faridabad.	 To set up a 	
through and areas are and public ranks the impact physical, created without buildings reflect highest in on adv management much thought are widely used artracting to how they are widely used attracting through festivals, to how they are widely used attracting etc. identity and activities. In much thought impact highest in on adv drone or activities. Identity and activities. Identity and activities. In maintenance of sites like Badkhal lake, Rani ki Chhatri. In major international festival hosted, Surajkund International	or other factors.	utilized or	monuments.		spaces, open			skill based	
through and areas are and public ranks the impact physical, created without buildings reflect highest in on adv nuch thought are widely used terms of drone management reflect the structures. Indentity and are widely used terms of attracting etc. to how they are widely used terms of drone maintenance culture of the activities. However, poor activities. Of sites like Badkhal lake, Rani ki Chhatri. - Annually, 1 major international festival hosted, Surajkınd International International International	This identity	enhanced	New buildings		spaces, amenities		 Faridabad 	institute to	
physical, created without buildings reflect highest in management much thought local identity and are widely used structures. reflect the identity and through festivals, culture of the events and city. Culture of the activities. of sites like Badkhal lake, Rani ki Chhatri. Through festival hosted, Surajkund International	allows an easy	through	and areas are		and public			impact skills	
management much thought botal identity and are widely used and policy to how they are widely used attracting through festivals, identity and through festivals, culture of the activities. culture of the activities. city. Annually, 1 major international festival hosted, Suraikund International International International International International International	answer to the	physical,	created without		buildings reflect			on advanced	
and policy to how they are widely used terms of structures. reflect the by the public through festivals, tourists. culture of the events and tourists. culture of the events and activities. city. Annually, 1 major international festival hosted, Suraikund International Internati	question "why in	management	much thought		local identity and			robotics,	
structures. reflect the by the public attracting through festivals, identity and through festivals, tourists. culture of the events and However, poor activities. city. activities. of sites like Badkhal lake, Rani ki Chhatri. • Annually, 1 major international festival hosted, Surajkund International International International	this city and not	and policy	to how they		are widely used			drone making	
identity and through festivals, tourists. culture of the events and However, activities. city. Badkhal Rani ki Ch Rani	somewhere	structures.	reflect the		by the public		attracting	etc.	
city. city. activities. maintena of sites Badkhal Rani ki Ch Rani ki Ch major internatio festival he Surajkund	else?" A Smart		identity and		through festivals,		tourists.		
city. activities. maintena of sites of sites Badkhal Rani ki Ch Rani ki Ch major internatio internatio festival he Surajkund Internatio	City celebrates		culture of the		events and		However, poor		
of sites Badkhal Rani ki Ch Annually, major internatio festival ho Surajkund	and promotes its		city.		activities.		maintenance		
Badkhal Rani ki Ch Annually, major internatio festival hc Surajkund	unique identity						of sites like		
Rani ki Ch Annually, major internatior festival ho Surajkund	and culture.						Badkhal lake,		
Annually, 1 major international festival hosted, Surajkund International	(Guideline 3.1.7)						Rani ki Chhatri.		
Annually, 1 major international festival hosted, Surajkund International									
major international festival hosted, Surajkund International									
international festival hosted, Surajkund International							major		
festival hosted, Surajkund International							international		
Surajkund							festival hosted,		
International							Surajkund		
							International		

¹ https://gramener.com/swachhbharat/#?city=Faridabad

	Category	Scenario 1	Scenario 2	Scenario 3	Scenario 4	Self- assessment of the city (for Pan-	Basis for assessment and/or quantitative indicator (Optional	Projection of 'where the city wants to be' with regard to the	Input/Initiative that would move the city from its current status to Advanced status (Scenario 4: Column G)	
						City Solution) with regard to each feature	- only if data exists)	feature/indicator		
-							the month of February.			
Economic &	A smart city has a	There are some	There is a range of inh	There are	There are	Scenario 2	Faridabad's GDP at	 To leverage Faridabad's 	Develop opportunities for hosnitality industry near	400
cubioduleur	resilient	opportunities in	opportunities in	opportunities for	opportunities for		constant prices	economic	Badkhal lake	
	economic base	the city but	the city for	all sections of	jobs for all		is USD 4 billion	advantage to	Reducing pollution &	
	and growth	they do not	many sections	society. But skill	sections of		(2009-10) and	make	moving up the value	
	strategy that creates large	reach all sections of the	or the population. The	availability among residents	and skill levels.		Per Capita Income USD	hub for	chain, promotion of Make in India campaign by	a)
	scale	population.	city attempts to	can sometimes	Joboriented		2227 (2009-	startups and	shifting from low skill low	2.00
	employment and	There are a	integrate	be a challenge.	skill training		10)	firms	end industrial	
	increases	high number of	informal		supported by the		 Workforce 	specializing in	manufacturing to making	1000
	opportunities for	jobs in the	economic		city and by		participation	the advanced	Faridabad a base for	
	the majority of its	informal sector	activities with		industry.		rate (2001) is	engineering	advanced engineering and	-
	citizens.	without	formal parts of		Economic		36% with 32%	domain. Thus	manufacturing like	
	(Guideline 2.6 &	sufficient	the city and its		activities are		in tertiary	moving up the	robotics, drone	_
	3.1.7 & 6.2)	facilities.	есопошу.		Suited to and		sector, 28% in	economic	manufacturing, 3-d	
					locational and		sector.40.4%	To aid in the	To shift existing 22.000	
					other advantages		in primary	growth of the	diesel auto drivers to e-	
					of the city.		sector.	hospitality	rickshaws and adding	_
							• It is an	industry to	additional 1000 e-	
							industrial base	handle target	rickshaws for improving	
							for light	tourist arrivals	last mile connectivity.	
							engineering,	of 4 million		
							electrical	• To help the		
							appliances,	growth or		_
							auto	green startups		_
							component and small	domain of		
							textile	develoning		-
							industries.	battery		_
							Micro	operated		-
							manufacturing	rickshaws,		_
							enterprises	cars and other		

f Input/Initiative that would ity move the city from its current with status to Advanced status e (Scenario 4: Column G) cator		hnic is had a setting up of advanced engineering skill based institute to impart skills on advanced robotics, drone making etc making etc making etc encourage and promote innovation in advanced engineering by incentivising and encouraging institutes of higher education to set up incubation cells and encouraging institutes of higher education to set up incubation cells and provide financial support to budding entrepreneurs in the institute ad, • Providing incubation support to budding incubation support to startups working in the domain of ermen advanced engineering aging liders.	ad to
Projection of where the city wants to be' with regard to the feature/indicator		Govt. Polytechnic is being established at Neemka, Faridabad by the Govt. of Haryana Bill to set up Regional Centre for Biotechnology, to train skilled manpower for the sector in Faridabad, 2016 100% digital empowerment to fschools and engaging stakeholders. MOA between DDRC, Faridabad & RBPL,	Hyderabad to focus on
Basis for assessment and/or quantitative indicator (Optional - only if data exists)	generating an employment of 48,000, the highest in NCR region (NCRPB,	Awerage literacy rate of Faridabad is 81.7% as per 2011 census There are 385 schools, 5 degree college, 3 engineering & technology, 3 wocational training, 1 management, 1 polytechnic, 7 government officers training raining centres Need for additional 219 primary schools & secondary schools in Faridabad by Haryana Sub regional plan Launch of Parivartan'- school MIS	portal for Student
Self- assessment of the city (for Pan- City Solution) with regard to each feature		Scenario 2	
Scenario 4		City provides adequate and high-quality education facilities within easily reachable distance of 10 minutes walking for all the residential areas of the city and provides multiple options of connecting with specialized teaching and multimedia enabled education. Education facilities are regularly assessed through database of schools including number of students, attendance, teacher-student ratio, facilities	other factors.
Scenario 3		City provides adequate primary and secondary education facilities within easily reachable distance for most residential areas of the city. Education facilities are regularly assessed through - databases of schools including number of students, attendance, teacher - student ratio, facilities available and other factors.	
Scenario 2		City provides adequate primary education facilities within easily reachable distance of 15 minutes walking for most residential areas of the city. The city also provides some secondary education facilities.	
Scenario 1		The city provides very limited educational facilities for its residents. There are some schools but very limited compared to the demand. Many schools are in poor condition.	
Category		A Smart City offers schooling and educational opportunities for all children in the city (Guideline 2.5.10)	
		Education	

Input/initiative that would move the city from its current ith status to Advanced status (Scenario 4: Column G) tor	es sis nent ss,	ands diesel operated IPTs to green battery operated e- rickshaws For better health, open air smart gyms Launch of 'Project Salamati'-injectable contraceptive by Govt. of Haryana, family planning measure available free of cost at all Govt. health centres. Setting up public toilets & removing public defecation under Swachh Bharat Mission Setting up emergency response and incident management system linking all city level services
Projection of 'where the city wants to be' with regard to the feature/indicator	developing new approaches for diagnosis and treatment of Diabetes, 2016	To reduce health hazards due to air pollution Better health through improved sanitation facilities in the city
Basis for assessment and/or quantitative indicator (Optional - only if data exists)	Admissions, Transitions and Employee services by Department of Education, Haryana, 2016	Faridabad has 17 govt. hospitals with 422 beds and 46 private health facilities with 1,198 beds beds or low vis a vis the population level. Urban dispensaries-2 in Faridabad; rural dispensary- 1;Medical mobile unit-1
Self- assessment of the city (for Pan- City Solution) with regard to each feature		Scenario 2
Scenario 4		City provides adequate health facilities at easily accessible distance and individual health monitoring systems for elderly and vulnerable citizens which are directly connected to prevent emergency health risks and to acquire specialized health advice with maximum convenience. The city is able to foresee likely potential diseases and develop
Scenario 3		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 2		The city provides some access to healthcare for its residents but healthcare facilities are overburdened and far from many residents. Access to preventive health care is only easily available for some residents.
Scenario 1		Healthcare is difficult for citizens to access - demand for healthcare often exceeds hospitals' ability to meet citizen needs.
Category		A Smart City provides access to healthcare for all its citizens. (Guideline 2.5.10)
		Health

² http://schooleducationharyana.gov.in/downloads_pdf/MIS/NoticeMIS_17032016.pdf

Projection of Input/Initiative that would where the city move the city from its current wants to be' with status to Advanced status regard to the (Scenario 4: Column G) feature/Indicator		Faridabad • Area selected for area based development shall have a mixed use of land and shall be made a model area which can be replicated across the city later planning and explicated across the city later planning and multimodal hub at Railway station of station providing a Seamless Interchange infrastructure between railway/metro/Bus/IPT/Pri vate vehicles and a multilevel Common parking area with drop off lanes, and barrier free NMT infrastructure. TOD compliant development of retail, hotels and commercial proposed.	
THE TO SEE STATE			
Basis for assessment and/or quantitative indicator (Optional - only if data exists)		Some of the sectors in Faridabad have both residential, and commercial. 12.7% of the total city area has mixed land use	
Self- assessment of the city (for Pan- City Solution) with regard to each feature		Scenario 2	
Scenario 4	response systems and preventive care.	Every part of the city has a mix of uses. Everyone lives within a 15-minute trip of office buildings, markets and shops, and even some industrial uses. Land use rules require or encourage developers to incorporate a mixture of uses in their projects.	
Scenario 3		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 2		In some parts of the city, there is a mixture of land uses that would allow someone to live, work, and shop in close proximity. However, in most areas, there are only small retail stores with basic supplies near housing. Most residents must drive or use public transportation to access a shop for food and basic daily needs. Land use rules support segregating housing, retail, and office uses, but exceptions are made when requested.	
Scenario 1		The city has mostly separated uses and areas are focused either on residential, commercial, or industrial, with little coexistence of uses. The average resident cannot walk to the closest market or shops near his or her home. For almost everyone, going to work or going shopping for basic needs requires a journey by automobile or bus of more than 15 minutes. Land use regulations prevent putting commercial or office locations in recidential	in residential
Category		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)	
		Mixed landuse	

length is 14.26 km. Development Most of the trips are from Faridabad adopted along to NCR region i.e. which runs parallel /Gurgaon to NH-2.		Category	Scenario 1	Scenario 2	Scenario 3	Scenario 4	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)
A Smart City The Cty is The Cty is The City is the City is the City is an interest of the City is an interest of the City is and the City is an interest of			and vice versa.	H						
rapidly at its density areas, and the comparating of two height of manitole in particular and condended benefits areas, and the benefits areas, and the buildings are not at a concentrated industrial concentrated however, the city where buildings are concentrated industrial concentrated however, the city development to concentrated industrial concentrated however, the city development to matural areas, where buildings are concentrated concentrated however, the city development to matural areas, where buildings are concentrated however, the city development to maintain a concentrated concentrated however, the city development to maintain a concentrated concentrated concentrated informally. Formally and where people encourages centres and informally conventrate are in centre of development to cour number. Regulations are as a though they are not courting in a sar in centre of development of development of areas when new under-utilized meaning that the buildings are projects happen on another. Buildings are projects happen are far from difficult to walk they are not another. Buildings are projects happen another of seasier of areas where projects happen are far from another. Buildings are projects happen are far from another, the buildings are projects happen another. Buildings are projects happen another in contraged to be parking is kept to one another. Buildings are projects happen another in contraged to be parking is kept to accompact, with contraged to be parking is kept to accompact, with incentives one another. Buildings are projects happen and destinations another, which incentives one another are project another another another are project another another another another anothe	Compact	A Smart City	The city is	The city has one	The city has	The city is highly	Scenario 1	The average trip	Transit Oriented	
rapidity at its density areas - density clusters dense, making Most of the trips (TIOD) shall be perphety into such as the city that are easy to the most of land, rural or historic areas, where buildings are deasy to the most of land, rural or historic areas, where buildings are dease are an attract and artural areas, where buildings are dease are an attract and artural areas, where buildings are dease are an attract and artural areas, and are the people encourages corridors - both together and encourages corridors - both together and encouraged because it informally and where people encourages corridors - both together and encourage or an avale assist of encourage or enteres and evelopment to registrous a strongly they land into high- encourage or		encourages	expanding	or two high	multiple high	compact and		length is 14.26 km.	Development	development, compact,
periphery into such as the city, that are easy to undeveloped center, or land, rural		development to	rapidly at its	density areas -	density clusters	dense, making		Most of the trips	(TOD) shall be	high density, mixed use,
undeveloped center, or walk around within the city. To NGK region i.e. metro corridor and another buildings are class are close and around industrial concentrated However, the city where buildings are close and actively corridors both together and actively corridors both together and actively corridors. By a corridors both together and actively corridors both together and actively corridors. By a corridors both together and actively corridors both together and actively corridors. By a corridors both together and actively corridors. By a corridors both together and actively corridors and informally. Formal new from building to corcur on under development to building and feel utilized parcels of encourage or coccurring that is are in center of development to building and feel utilized parcels of encourage or coccurring that is are in center of development or syspawling. Syspawling and feel utilized parcels of encourage or coccurring that the city consists formal large-scale land parcels in the city center. By activity, Most of areas, When new undeventified area and strictly consists formal large-scale land parcels in the city center. By activity, Most of areas, When new another, between, encouraged to be particle in the city center. By a certain of derivation of derivations with derivation of derivations another, with incentivizes or compact, with householding star or seep area of a compact, with householding star or seep area of thom one another are lost of parking the buildings that or ground or at the because it takes buildings that or ground or at the because it takes buildings that or ground or at the because it takes buildings that or ground or at the because it takes buildings that are ground or at the because it takes buildings that are ground or at the because it takes buildings that are ground or at the base and development of amenities. By any oads at the base and development of amenities. By any oads and the area of the particle of the city debiel and development of amenities. By any oads at the ba		be compact and	periphery into	such as the city	that are easy to	the most of land		are from Faridabad	adopted along	walkable TOD
land, rural or historic areas, where buildings are close or along or along or along are close or along or along or along are close or along are closed or along are c		dense, where	nndeveloped	center, or	walk around	within the city.		to NCR region i.e.	metro corridor	communities shall be
natural areas, after buildings are close corridors - both together and corridors - both vegether and vegether veg		buildings are	land, rural or	historic areas,	where buildings	Buildings are		Noida/ Delhi	which runs parallel	developed along with
lindustrial concentrated development together and concentrated actively formally and where people encourages centres and informally. Formal new from building to occur on under Regulations development is building and feel utilized parcels or encourage or occurring in a st hough they development of "sprawling." Formal new ytat is are in center of development of "sprawling." Way that is are though they development of "sprawling." Way that is a st hough they development of a encourage or occurring in a st hough they development of a st the base and and intente a long time to a separated a cross and intente a long time to a separated a cross and intente a long time to a separated a cross and intente a long time to a separated a cross and intente a long time to a separated a cross and intente a long time to a separated a cross and intente a long time to a separated a cross and intente a long time to a separated a cross and intente a long time to a separated a cross and intente a long time to a separated a cross and intente a long time to a separated a cross and intente a long time to a separated a cross and intente a long time to a separated a cross and line the development of a mentities. But the base and under-utilized Residential separated a cross in the development of a mentities. But the base and under-utilized Residential a flordal with pockets of land city likely has separated a cross of paginal		located close to	natural areas,	where buildings	are close	clustered		/Gurgaon	to NH-2.	creation of universally
corridors - both together and actively formally and where people encourages informally. Formally and where people encourages centres and formally. Formal naw where people encourages centres and from a way that is are though they land into high- encourage or occurring in a st though they land into high- encourage or necessity and feel utilized parcels of density, walkable encourage or necessity as though they land into high- encourage or necessity and into high- encouraged to be parking is kept to encourage to be parking is kept to are separated and inter the buildings. And walk between from one encourages or residences to destinations and inter the encourages or residences to destinations and inter the destinations and inter the proceeders of land course and encourages or encourage		one another and	or along	are	together.	together, forming				accessible avenues,
formally and where people and actively formally and where people encourages informally. Formal new from building to occur on underfevelopment to building and feel utilized parcels of encourage or incentivize rewelpoment; S. occurring in a st hough they land into high. "sprawling," activity, Most of areas, when new under-utilized meaning that the city consists formal large-scale indipages are spread across a buildings are projects happen wide area and spread out and at the periphery, or incented to the area from one another. Residents or sometimes with dense and a minimum, are far from one another. Residents or sometimes with dense and a minimum, are sometimes with dense and a minimum, a manimum, a manimum and walking a long time to are separated actively a long time to are separated actively a long time and there are lots of parking development of a manimum, and there are lots of parking development of a manimum, and there are lots of parking development of a manimum, and there are lots of parking in men-utilized actively and there are lots of parking in men-utilized actively and long time to residence to fland city likely has a sepacially those apparating set-back from parcels in the bockets of land city likely has a sepacially those affordable actively and long time to a manimum and there are lots of parking in men-utilized actively and there are lots of parking in men-utilized actively and there are lots of parking the parking development of a manimum and there are lots of parking the parking the parking development of a manimum and there are lots of parking the parking development of a manimum and there are lots of parking the parking t		are ideally within	industrial	concentrated	However, the city	walkable and				plazas, public open
formally and warke people informally. Formal new from building to occur on under-development is building and feel utilized parcels of encourage or as though they are in center of density, walkable meaning that the city consists formal large-scale land parcels in meaning that the city consists formal large-scale land parcels in the city center. Spread across a buildings are projects happen wide area and spread out and at the periphery, oriented to the are far from one another. Residents or safer formal meaning that expensive the case or safer or safer or safer or safer or safer act of a safer or safer or safer or safer or safer or safer formal meaning that are sparated actively walk between from one another. Regulations another, with a contract or safer or safer form one another or safer or safer or safer or safer form one another will be safer or safer or safer formal meaning the safer or safer or safer or safer formal meaning that are separated actively expensed actively a long time to a safer or safer or safer form one another. In our safer or safer form one another. In our safer or safer or safer safer or safer		a 10-minute walk	corridors - both	together and	activery	inviting activity				spaces, community
Forman way from building and feel utilized parcels of encourage or as though they are formal building and feel utilized parcels of encourage or as though they are ferriting." Sprawling." are in center of development of areas. When new furnity and into high- are far from are far from one another. Residents or safer hectare. Residents or safer hectare. Residents or safer hectare. Powderskip per compact, with located below one another. Residents or safer hectare. Bouildings that are ground or at the periphery, compact, with located below are separated and line the because it takes buildings that streets. The city along time to are separated actively. And there are lots of parking development of another, with located below and there are lots of parking development of another, with located below and walk between from one another, with located below and walk between from one another, with located below and walking along time to are separated actively generalized separating separating sechaek from parcels in the development of another, with located below and there are lots of parking development of another, with located below and there are lots of parking sechaek from parcels in the buildings. Large the streets. The city and line the located below and there are lots of parking development of another, with large-stating separating sechaek from parcels in the base and separating the streets. The city and line the large separating sechaek from parcels in the development of parcels in the base and gevelopment of mentings. Large the streets. The inner-city, optimal with pockets of land city likely has specially those affordable.		or public	informally and	where people	encourages	centres and				parking, increased street
reted development is building and feel utilized parcels of encourage or unknoods. occurring in a st though they land into high- se 2.3 way that is are in center of density, walkable development of meaning that the city consists formal large-scale meaning that the city consists formal large-scale land parcels in the buildings are wide area and spread out and at the periphery, or spread across a buildings are projects happen buildings are wide area and difficult to walk they are non-another. Between, leavelopment tenants find one another. Between, compact with experiments with dense and a minimum, tenants find for so and a minimum, tenants find for and the public transport because it takes buildings that streets. The city and walking a long time to are separated actively busy roads at the base and chos of parking development of and the process of land the separated or hots of parking every connects walk between from one encourages or residences to destinations another, with hotsely and walking and there are lots of parking development of busy roads at the base and more-rutilized density is at an busy roads city likely has especially those affordable prockets of land city likely has especially those and city likely has especially those affordable and city likely has especially those and city likely has especially those and servers.		transportation,	intormally.	can walk easily	development to	neignbournoods.				activities to bring in value
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			pockets of land	city likely has	especially those	affordable				

Input/Initiative that would move the city from its current status to Advanced status (Scenario 4: Column G)		Development of open recreational spaces such as Badkhal Lake front and Marina Development, Barahi Talaab, Open air Gyms Development of 5 new open air gyms
Projection of 'where the city wants to be' with regard to the feature/indicator		Open space per person: 7.5 sqm/person
Basis for assessment and/or quantitative indicator (Optional - only if data exists)		Open space per person: current 4.3 sqm/person
Self- assessment of the city (for Pan- City Solution) with regard to each feature		Scenario 2
Scenario 4	housing available in most areas.	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 3	located close to public transportation.	Most areas of the city have some sort of public open space. There is some variety in the types of public spaces in the city. However, public spaces are sometimes not within easy reach or access of more vulnerable populations and are more restricted in poorer neighbourhoods.
Scenario 2	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.	A variety of public open spaces are available in some neighborhoods, but are not available in all the areas of the city or are located far away from residential areas Many of the open spaces have access restrictions, or are not well—maintained. A variety of types of public open spaces may be lacking, such as natural areas, green areas,
Scenario 1	in the inner-city are vacant. New developments at the periphery tend to be large-scale residential developments, often enclosed with a gate and oriented to the automobile.	The city has very few usable public open spaces and very few usable green spaces. Available recreational spaces are located far away and are dispersed at long distances around the city. The few available public open spaces offer a limited variety of experiences for all sections of population and age groups such as places for
Category		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 Space

Arogana	Scenario 1	Scenario 2	Scenario 3	Scenario 4	self- assessment of the city (for Pan- City Solution) with regard to each	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)
	sport, places for rest, and places for play.	parks, plazas, or recreation areas.						
A Smart City has	Housing is very	Housing is	Housing is	A wide range of a		As per Census	To provide	Development of
Inclusiveness sufficient housing	limited and	available at	available at all	housing is		2011, 0.2% of	affordable	affordable housing/mixed
for all income	highly	most income	income levels,	available at all		population are	housing to all	use through PPP with
groups and promotes	segregated across income	highly	across income	supply of housing		Faridabad ³	To bring down	development provided
integration	levels.	segregated	levels. The	is growing at pace		• 64 slum	houseless	with essential physical &
among social	Population	across income	growth of supply	with population.		Bastles with	population to	social infrastructure.
groups.	growth far	levels.	of housing almost	Affordable,		47,523	.%0	Sant Nagar slum
(Guidelines 3.1.2)	exceeds the	Population	meets the rate of	moderate, and		households as		redevelopment, in-situ
	creation of new	growth slightly	population	luxury housing		per MCF, 13%	 To make 	rehabilitation
	housing. The	exceeds the	growth.	are found		of total	Faridabad	 Low cost housing under
	poor live in	creation of new	Increasingly,	clustered		households	slum free	Ashiana scheme by HUDA
	informal	housing. The	lower and	together in many		. 77	(0%)	 Group Housing Scheme by
	settlements	wealthy and the	middleincome	areas of the city		unauthorized	THE POST OF THE PO	HUDA
	with limited to	middle class	people can find			colonies, 6% of	Regularization A	Slum Free Faridabad
	basic services.	that meets their	that are			Faridahad ⁵	inauthorized	RAV: rehabilitation of
	and are	needs at costs	conveniently			 2 projects 	colonies	slumdwellers under PPP
	concentrated in	appropriate to	located.			sanctioned		mode to multistory EWS
	a few areas.	their income.				under BSUP,		housing. 4 clusters out of
	The wealthy	The poor live in				Ministry of		63 slum pockets7
	live in separate	informal				Housing &		 GIS mapping of
	enclaves. Those	settlements.				Urban Poverty		households
	in the middle					Alleviation		
	have few, if any					(MoHUPA),		
	options.					Govt. of India		
						involving		
						1968 Dilk at		

³ http://www.censusindia.gov.in/2011census/dchb/0620_PART_B_DCHB_FARIDABAD.pdf ⁴ http://www.mcfbd.org/Tender%201&%202.pdf ⁵ CDP, 2014
⁷ CDP, 2014

Basis for Projection of Input/Initiative that would assessment and/or 'where the city move the city from its current quantitative wants to be'with status to Advanced status indicator (Optional regard to the conly if data exists) feature/indicator	be launched To shift To shift Citizens to a greener way corridor for a greener of commuting Wetro, Eco IPTs, public bi less sharing by two stations to a Ballabhgarh by 2017 Ballabhgarh by 2017 Ballabhgarh by 2017 Corridor for a greener of commute.	 Poor coverage of bunder SCP of walkable footpath in the coverage of unsafe forty making it coverage of major corridors within the unsafe for roads with pedestrians to pedestrians to move around. Road covered on Increased pedestrians, cyclists, with footpath: Road covered on Increased pedestrians, cyclists, with footpath: NMT Share of differently abled citizens and motorists. Cycling from a construction of Cycle and motorists. Number of current Track and Footpath for the road average of area population is area population is area population is road fraalities from coverage from coverage from current average of area access from road fatalities from current average of average of average from current average of average access from road fatalities
Self- assessment of the city (for Pan- City Solution) with regard to each feature		Scenario 1
Scenario 4		The city is highly walkable. Pavements exist on every street and are maintained. Trees line many sidewalks to provide shade for pedestrians. Buildings in most areas of the city are assily are easily accessible from the sidewalk. Traffic signals control the flow of automobiles and are enforced. A network of bike lanes exists to promote cycling as a means of
Scenario 3		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 2		Older areas of the city see a mix of pedestrians, cyclists, and vehicles but newer areas are focused mainly on the automobile. In there are few pavements and main entrances to new buildings are not accessible from the front of the street. Large driveways or parking lots often separating them from the
Scenario 1	levels in the city. Vehicles dominate public spaces and affect their effective functioning.	The city is designed mainly for the automobile. Daily life without a car requires long bus rides. Walking is difficult and often dangerous; there are few pavements, existing pavements need repair and lack trees to provide shade for pedestrians, and marked pedestrian crossings are
Category		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
		walkable

⁸ Comprehensive Mobility Plan, Faridabad, 2009

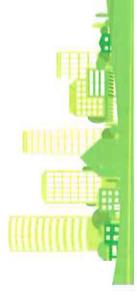
Input/initiative that would move the city from its current status to Advanced status (Scenario 4: Column G)		Wifi zone planned at Badkhal lake Free wifi across open air gyms
Projection of where the city wants to be' with regard to the feature/indicator	coverage in all arterial and collector roads in ABD	Adopt robust IT solutions to ensure complete project area - WIFI enabled zone allowing high speed connections to connect all citizens
Basis for assessment and/or quantitative indicator (Optional - only if data exists)		Most of the government offices have wifi connection.
Self- assessment of the city (for Pan- City Solution) with regard to each feature		Scenario 1
Scenario 4	and enforced with great seriousness.	The city offers free wifi services to provide opportunity for all the citizens to connect with high speed internet across the city.
Scenario 3		The city makes has high speed internet connectivity available in most parts of the city.
Scenario 2	enclosed by gates. In these areas, traffic signals are disobeyed.	The city has made plans to provide high speed internet connectivity through the existing framework.
Scenario 1	their main entrances set—back from the street, sometimes with large driveways or parking lots separating them from the street, and sometimes are enclosed by gates. Traffic signals are disobeyed	City has no major plans to bring increased high speed internet connectivity to the public.
Category	3.1.3 & 6.2)	A Smart City has a robust internet network allowing high-speed connections to all offices and dwellings as desired. (Guideline 6.2)
		connectivity

Annexure 3 Smart City POPERHABEST

			Sheet / SCP Section
ity leve	City level Criteria		
н	Inadequate public transportation which is confused as a weakness and then termed as adequate at different places in the proposal	The comment is address in the upgraded SCP	03,
7	Confusion in SWOT - Strengths and weaknesses are intrinsic. Opportunities and Threats are external, Keep getting duplicated (Strengths as Opportunities, Weaknesses as Threats)	The comment is address in the upgraded SCP	0 3
m	Citizen engagement outcomes (such as priority areas) are not listed. Currently elected house of representatives is dissolved	The comment is address in the upgraded SCP	Q 6, Annexure 4
4	Strategic focus is loose and not informed either by SWOT (badly done) or citizen engagement (no outcomes mapped)	The comment is address in the upgraded SCP	0.4
Ln.	TOD along NH-2 (TOD along an expressway?), later feeder buses from NH2 (expressway) ?	The Metro line runs as a central spine to the City along NH2. 500m intensive TOD Zone and 300m. Transition TOD zone on either side of the metro line in the ABD area covering 3 Metro Stations.	Annexure 2, Annexure 3 Sheet 11, Annexure 4 – TOD Policy
9	Self Assessment is very confusing , need to essentially pick numbers not describe what the current status is.	The comment is address in the upgraded SCP	Annexure 4
1	No mention of one of the most polluted clies in India	The comment is address in the upgraded SCP	0.4
60	Landfill site is denoted as "Municipal Solid Waste Plant", need details of segregation and treatment if any	The comment is address in the upgraded SCP	
6	Use of words such as Resilient City without qualifying or quantifying	The up-graded SCP doesn't talk about 'Resilient City' and hence addressed	
rea Ba	Area Based Development		
н	Retrofitting proposal excludes slums and high density informal cluster (similar to villages in Delhi)	Plan for holistic development of two such areas falling under the ABD - Urban Village Fatehpur Chandela (appox population 2500) and Sant Nagar Shum (appox population 5000) has been considered in the proposal as initiatives towards inclusive development	Annexure 3 Sheet 13, SCP Q 11, 12, 17, 18
2	Summarize idea - explains ABD not what ABD proposal of Faridabad is	ABD Proposal for all the key components have been meticulously planned and the Sub- Proposals for each module have been developed to a great level of detail capturing the needs and aspirations of the citizens and stake holders	Annexure 3 Sheet 6 to Sheet 13, SCP Q 11, 12, 13, 14, 16 and 18
m	Badhkal lake is disconnected from ABD but the proposal says it will be revived . No details	Rejuvenation of Badhkal Lake is one of the key proposal of ABD and reflects need of the city towards having a ecological balance and it is a integral part of the selected ABD as a configuous area. Proposal has been worked out in detail and included in this plan	Annexure 3 Sheet 8 and Sheet 12, Annexure 4 (Extracts of pre Feasibility Study)
4	Selection of site - no explaining criteria	Based on inputs of cilizen, a rigorous exercise was undertaken for selecting the site which has been explained in the SCP	Annexure 3 Sheet
5	Essential features copied word to word from SCP without being specific to location	The Sub Proposals for each module have been developed to a great level of detail capturing the needs and aspirations of the citizens and stake holders	Annexure 3 Sheet 6 to Sheet 13, SCP Q 11, 12, 13, 14, 16 and 18
9	Convergence extent and breadth not explained at all	The same has now been explained in detail	SCP Q 13, 14
1	Convergence Implementation has no details	The same has now been explained in detail	SCP Q 13, 14
oo	Risks not identified - very generic repeated again in PCP	Detailed Risk Assessment has been undertaken using International benchmarked tool PESTLE (Political, Economic, Social, Technical, Legal, Environment) and a robust mitigation plan for the same has been proposed	SCP Q 15
01	Success Factors - SPV is identified as one, its a requirement not a success factor	Key Success factors for the ABD have been mapped along with its fallback options	SCP Q 17



Smart City Proposal - Faridabad City



KEY FEATURES

- Part of NCR region and in close proximity to centres of

generating an employment of 48,000, the "Micro manufacturing enterprises 3,879 highest in NCR region"

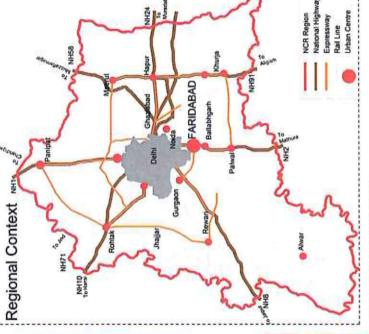


SurajKund International Crafts fair attracted 11 lakh tourists in FY15

expected Growth

324% heoeb & lael ni

line, National highway (NH Oriented Development" "Faridabad has railway Line passing through it 2) and Delhi Metro Rail implementing Transit forming a sound foundation for



MOBILITY INDICATORS

Delhi - Faridabad - Ballabhgarh - Palwal is one of the identified Faridabad has 1200kms road with 80km of NH/SH/PWD roads. eight rail based rapid transit corridors (Regional Rapid Transit System (RRTS)

National Highwa

Major Road Metro Line RailLine Railway Stabor

Bus Stop

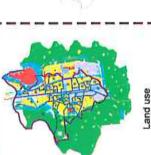
CITY MAPPING

Population density

Population

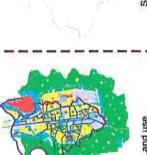
Delhi Metro line (elevated) to Faridabad with 9 stations and coverage of 13.9kms making 108 trips per day





	H-130 OT	and a second			
ipal Area	2		1	. /	Serve at a land
Faridabad Municipal Area	Area (MCF): 207.88 km² Sex ratio: 872 Literacy rate: 76.64%				e Area
Faridab	Area (MCF): 2 Sex ratio: 872 Literacy rate: 7		**************************************	.	Munopel Area









14.04 Lacs

GROWTH

Smart City Proposal - Faridabad City

TOTAL REACH

- Stakeholder Meetings: 4,803 participants
- Online Polls: 100.000 entries
- Offline Polls: 40,000 entries
- SMS reach: 200,000
- Contests/Ideas/suggestions entries: 7,71,194 entries

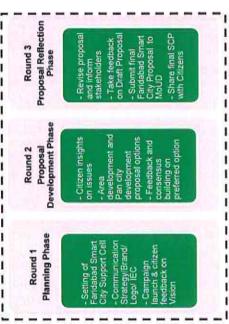
"Total citizen outreach using multi approach strategy - 11,11,194 (76% of total population)"



LOGO COMPETITION











CITIZEN ENGAGEMENT STRATEGY

INFORM











कल कालेजों से लेगे सडा 你公認其與各級員 强 與因其指於以各位



Activities: Hoardings, Posters, Newspaper articles, Mobile

vans, talks, mygov blog/ discussions, website creation.

smartcityfaridabad.co.in, blogs

阿拉尔纳斯斯斯





SOCIAL MEDIA

smartcityfaridabad.co.in, mygov polls/discussions, Nukkad

competition

Activities: Polling through whatsapp, sms, website i.e. Nautanki, essay competition, offline forms, and logo

ENGAGE



impressions 24,144 likes

1427 views

public, professional bodies, students etc." "Numerous awareness programs for City Stakeholders such as Industries, general



FOLLOW 11,900



hub for manufacturing by leveraging its "Faridabad aspires to be an innovation economic strengths and transforming itself to a cleaner, greener city by

introducing smarter way of living "

KEY GOALS

- Economic shift to Advanced Engineering
- Promotion of eco-friendly mobility.
- Revival of green open spaces
- Connected, accessible and safe city
- Smart and sustainable Infrastructure



STRATEGY

- Proposing sustainable and environment friendly solutions
- Setting baseline, identify Institutional gaps and need for policy nterventions
- Setting measurable goals in the city's vision document and aligning them with baseline indicators.

Traffic & Parking (Mobility), 57%

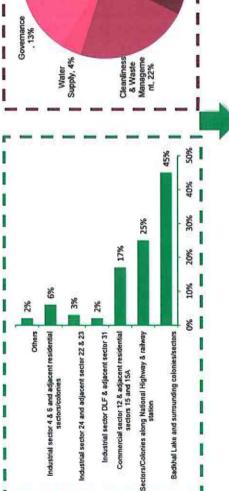
Re-imagining the city with Transit Oriented and improved civic

- infrastructure status
- Assess scope for convergence and prepare convergence matrix Adopting inclusive approach to take feedback from criteris and arrive to a common opinion
- Introducing innovative fiscal appraisal approaches for selfreliance of the projects.

PROPOSAL

Area Based Development

Smart City Proposal - Faridabad City



27 214 210 274. are fladers Lake 20,214,210,274,and Bachhallate 764, 15 21 214, 213, and Easted Lave 75, 224, 214, 210, 23, and Batthel Line 18 20, 204, 218, 210, pred Budhis

contiguous area of 1267 "The chosen option is a acres, retrofitting of the

includes the sectors 19,

Badhkal Lake and area surrounding

20, 20A, 21B & 21D"

AREA PROFILE

AREA BASED DEVELOPMENT - RETROFITTING

I

Badhkal Lake Front De

Key Economic Drivers

Friends Colomy







Intelligent Traffic Management

Pedestrianisation and NMT

DO THE RIGHT MIX

SMART MOBILITY

Key Proposals

signals for optimum traffic flow Intelligent Car Parking System

System - Synchronised traffic

Badhkhal Lake Front and Marine

TOD - Mixeduse Development

SMART URBANISM

Redevelopment of Barahi Talab

Development

Smart Urban Village and Slum

Multimodal Hub at Railway

Station

Open air Gyms

Upgradation

Skill Development Centre

Public bike sharing system Smart Auto/Taxi Stands

Smart Signage

ABD Mapping

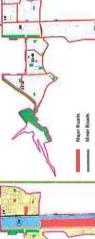


time taken from 21 days to 7 days"

"Single window online clearance

of all projects shall reduce the











Ward Map

Street Network

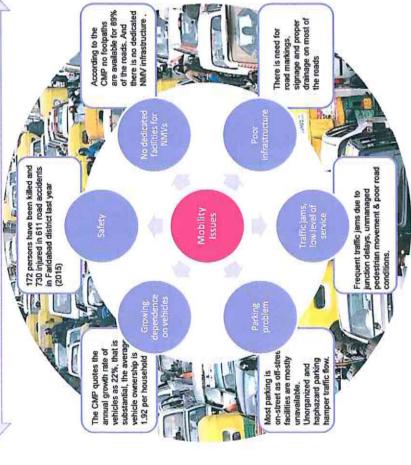
24.24 km of footpaths to be made Barrier Free

Raised pedestrian crossings at 23 locations

incorporating universal designs

 Section improvement of 54.24 Km of roads 10 junctions identified for improvement





Faridabad battles common problems faced by many fast growing cities in India, caused by rapid dependence on automated vehicles causing stress on existing infrastructure. The focus areas of mobility solutions are categorised into following main categories:

- Promotion of walking and NMV modes, including PBS & e-rickshaws last last mile connectivity
- Improvement of existing infrastructure to enhance safety and accessibility
 - Provision of support infrastructure like parking & IPT Stands
- Improvement of traffic flow by using ICT solutions like traffic signal synchronisation

Proposals

saunteau

Application of barrier free and universal design

Promote safety and comfort of MMV modes and Pedestrians

Safe intersection design and raised pedestrian

crossings

7.04 km of unsegregated cycle tracks

17.2 km of segregated cycle tracks

Public bike sharing system -Promote use of cycling as a preferred mode Electric vehidles / IPT

•9 PBS stations

•180 cycles

(Rickshaws) for last mile connectivity environmentally sustainable Promotion of

Synchronised traffic signals planned on 12

junctions

increase user service level Infrastructure provision to

7 location of e-rickshaw stands identified

•165 parking bays planned

• 100% signage coverage in all arterial and

collector roads in project area

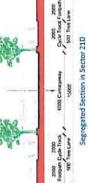
Smart Auto/Taxi Stands -

•550 ECS of smart multilevel parking planned 150 ECS of smart surface parking

 95 ECS of Stands to be made available and modernised







100% Barrier Free pedestrian movement, 24.24km footpath 100% coverage; 17.2 km of segregated & 7 km of

unsegregated cycle track; 7 locations of solar powered E Rickshaw stands

Target for near zero FAI

0% carbon savings due to lack on NIMV

Reduced carbon footprint by saving 664 tons CO2 per annum

Envisaged Impacts

Bike sharing scheme



Shiff to NMV due to various

E-rickshaw



+06-24-1-1-1-1

Existing NH Section



Development of Footpaths



Rs. 1 Cr saved in fuel cost

REUSE OF WASTEWATER FOR BADKHAL LAKE REVIVAL





- An STP of 10MLD capacity is proposed near the existing Sector 21A pump house wherein the wastewater would be treated and conveyed to Badkhal lake. Presently 18 MLD of raw (untreated) sewage is being disposed off at Sector 21A pump house.
- filling of lake. Once the lake is filled, 2.63 MLD would be required for make-After desilling of take area, around 300 days would be required for initial up water towards evaporation & seepage losses and the remaining 7.37

be treated in STP wastewater will and recycled for "10 MLD of lake filling,

landscaping and instead of being industrial use discharged"



SMART METERING FOR WATER CONNECTIONS





"Improved revenue generation as

installed, Increase in revenue upto 150%" functional and efficient meters are being

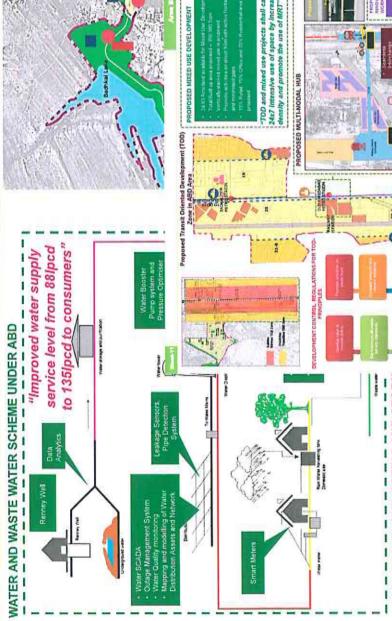
AUTOMATED ONLINE WATER QUALITY MONITORING SYSTEM FOR THE DISTRIBUTION NETWORK



- It is proposed to install online water quality monitoring stations in the are proposed to be installed all over the ADB area
- Parameters like temperature, pH, turbidity and Free chlorine would
- This would ensure clean and safe water, quicker response to water







RAIN WATER HARVESTING AND STORM

- The Storm water would also be reused for garder



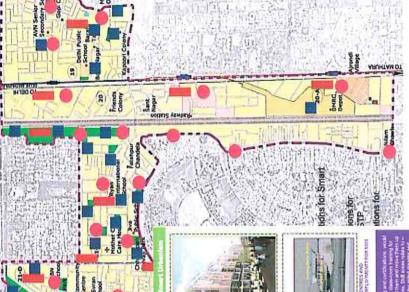


be a source of revenue generation. "Pay and use Smart toilets would

Around Rs. 75,000 can be collected

anually per toilet"

nes to improve the coverage



AMPING OF STORM WATER DRAINAGE

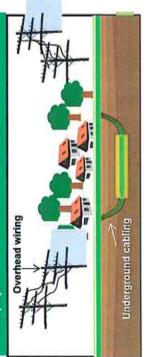
E



nart City Proposal – Fandabad City

UNDERGROUND CABLING

- Underground cabling has been proposed for the entire area of 1267 sq. kms under ABD.
- The length of roads/streets that require underground cabling have a total length of 54 kms.
- This project will be covered under the IPDS.



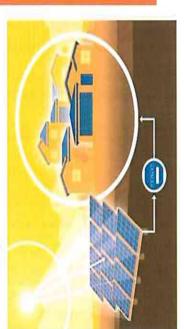


SOLAR ROOFTOPS

- 10KW each rooftop off-grid solar power project installed at 3 sites...
- Solar rooflops have been proposed on all government buildings like community centres, police stations, metro stations, government hospitals etc.
- Residential, commercial (malls) & industrial buildings are covered under this initiative.
- Solar panels to be selffinanced but with incentives of reduced tariff rates and 30% subsidy on fotal cost.

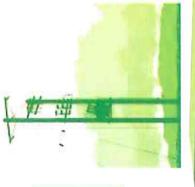
"Faridabad has been identified by MNRE as Solar city by Solar City Master Plan"

SOLID WASTE MANAGEMENT



WI-FI

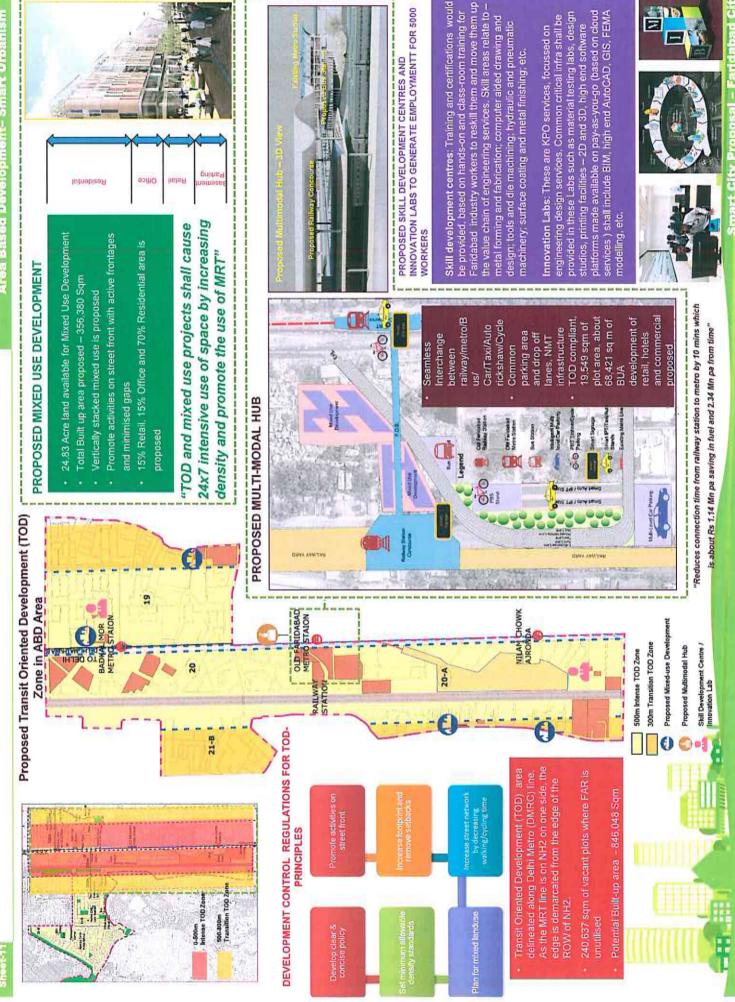
- 6 locations have been identified for open air
- These gymnasums will have wi-fi facility to integrate health, environmental & digital aspects for people usi



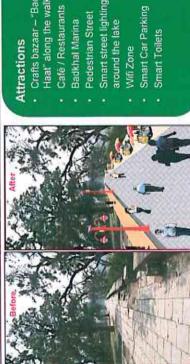
STREET LIGHTING

- As a part of initiatives towards energy efficiency, solar powered LED street lights
- These street lights will also have smart sensors.









Crafts bazaar - "Badhkal Attractions

- Café / Restaurants
 - Pedestrian Street Badkhal Marina
- Smart Toilets

from current 4.3 sqm/person to "Adding green lungs in the city 7.5 sqm/person and business for around 800 vendors







SMART OPEN AIR GYM

 A new way to look at health and fitness along with landscaping

- 5 no. open air gym
- Smart Solar LED lights Wi-Fi Zone
- Use of Recycled water





(11-

BARAHI TALAB REDEVELOPMENT



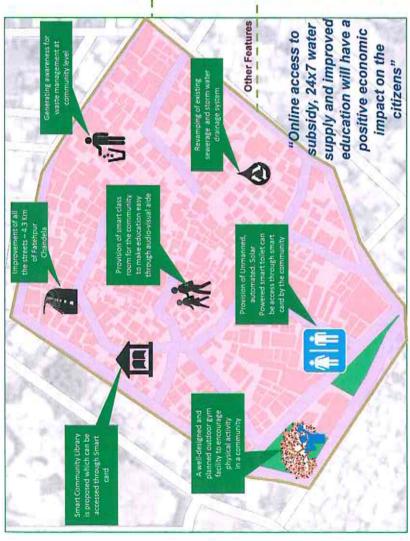




ncrease revenue and provide a means for livelihood for craftsmen to sell their wares." "A space for conducting various events such as music concerts, drama etc will

Smart City Proposal - Faridabad City

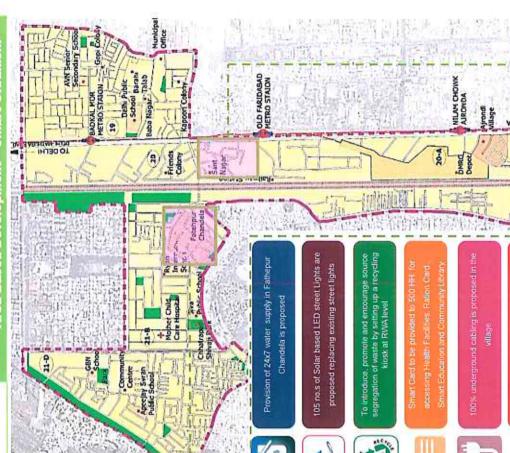
SMART URBAN VILLAGE - FATEHPUR CHANDELA







average) - source: National Crime record Bureau " population, we aim a reduction to 215.5 crime rate in Faridabad is 374.7 /lakh lakh/population (mega city all India



SANT NAGAR (SLUM) UPGRADATION

- Improvement of existing roads Solar LED Street Lights, CCTV





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1 ı GOMLS

40% by end of 2025

 100% signalized junctions with charging points (use

of solar panels)

To promote eco-friendly

mobility

Increase in PT trip share from 15% to

100% e-rickshaw stands

21 km cycle track

10 e-rickshaw stands

population grew 4 times from 1991 to 2011 vehicles registered per 1000 Population doubled and

11% Public transport modal share in 2010 Public transport modal share Business As Usual' scenario likely to be 40% by 2025 in

public transport operators out 160 buses under organised of which 90 are working

13.9 kms metro operational

57% reported traffic & parking Citizen Engagement results as priority concern

Excess dependence of private vehicles leading to high pollution levels, congestion & low walkability in the city

raffic congestion To reduce carbon ncreased share dependable and transportation by providing vehicles and emissions caused by of public

smooth traffic To provide

To promote

public

transport

100% coverage of CCTVs arrival/ departure details provide real time bus

100% of bus stands to

App to facilitate advance

iourney planning

at parking lots

 Fleet mgmt, system and operationalized for all

operationalized for Haryana Roadway bus Depot mgmt, system buses

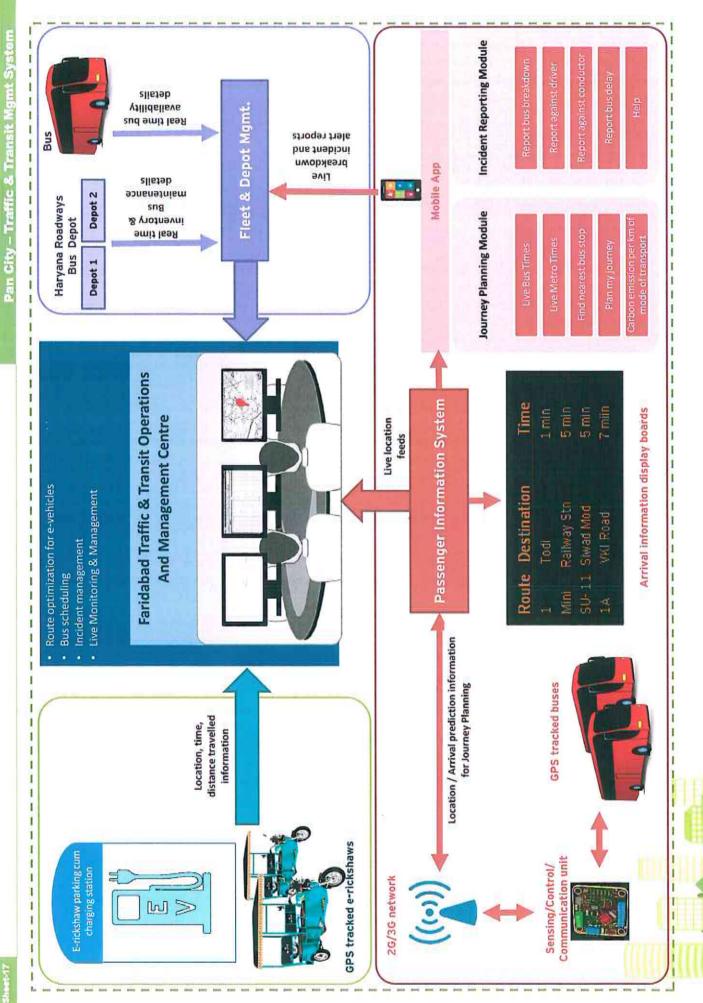
fatalities per year from Reduction in road 677 to 300

ncreased travel speed from 25 kmph to 35 kmph



Smart City Proposal - Faridabad City

Pan City - Traffic & Transit Mgmt. System



Further it will require around INR 13.55 crore of short-term debt to match the

capital flow / drawdown. This debt is expected to be paid back in 1 years

time.

MCF / SPV will borrow a debt of around INR 12 crore to bridge the shortfall in Capital Expenditure. This debt is expected to be availed from either

public / private financial institution for period of 5 years and we have

estimated 10% per annum interest on the borrowing.

ture	nditure	INR Crore	18.64	1.57		20.21	g operations	INR Crore	39.62	6.20		45.82				
Operational Expenditure	Total Opertation Expenditure		O&M non digital asset	Debt servicing & payback			Total Revenue sources during operations		Rental revenue - Real estate	Rental revenue - Car Parking						
		INR Crore	2,108.00	469.47	10.00	13.55	2,601.01			INR Crore	980.00	1,007.50	428.38	173.00	12.13	2,601.01
Capital Expenditure	Total Capital expenditure		Capex - ABD	Capex - PC	Communication & Change management	Interest during Implementation			Capex funding sources		Smart City Mission funds	PPP	Sale of FAR / Premium	Convergence	Debt	

ND Prom																
Rentals Total revenue Remarks	sorption (260%	Z6,50,35,535,60 Alsonption (EGNs of total BUA in 3 years 2,35,42,191,36 Absorption (660% of total BUA in 3 years 39,62 Amusi	and the Court of the section (MCDE), of taked EPT and IND SI new date channels	343,12,000 Absorption gods of rock ECS and MR 30 per day charge 60,22500 Absorption gods, of their ECS and MR 30 per day charge 16.22500 Absorption 6699, of their ECS and NR 50 per day charge	the sale of the sa	6.20 Amual		8-1005 - 60 seathern DDD may be seen and seem DDD to the creek	A 24 16 880 EAR promium channel from DDD nather @ 15/0/cf	Control of the second s	428,38 One Time		37.04. Average revenue over 6 years starting from Year 1	94.58 Average reverue over 6 years starting from Year 2	131,72 Annual	5.82 @1% of total inventory resale arrecally
ntals To	538	430.4	5	8 8 8	3	b	1	1	16140	1016	11		H		H	1
2	31,860	7,597	The state of	8 58 ž	3			NR.	2 800	2,000			openty Ta	į.		
Unit	., -							Sold					IDC, & P	0		
Project	Rental Revenue 1 Bhockol Lake 2 Multi-modal hub (Concourse)	3 Multi-modal hab (Commercial) 4 Barahi Talab	Car parking	2 MLCP (Rly station + Bhadkal)	Service bound forested			FAR premium revenue	2 Marcel and the Development (was			Additional often and of returning	Additional Stamp duty, EDC, IDC, & Property Tax 1 From secart plot	2 From conversion of already CA pior		1 2% registered value
INR Crore	Revenue													45.82	45.52	
Ã.	Laan Payback												·	1,57	20,21	
	Opex@	6.87 9.49 2.28	18.64	•	į	•	•		•	į	• •	*		18.64		
	Balance													12.13	2,601.01	
	Ravenue stream		428.38											428.33	1.25	
	SCM											٠		980		
	44	19.50	934,50				23.68					23,00		1,007.50		
Summary Table	Converge	169,00	168.00						4.00			4.00		173,00		
E														13.55	2,601.01	
Summa	Interest during Implementati on						0 0	2 9	空	X	20	10	98	67	1	1
Charles .	Overheads, linker contingencies (mplem @10% on	34.33 49.42 107.88	191,64	7.10	2.88	0.97	30	4 8	2	7	5.32	42.68		234.32		

Consmunication & Change Management

Total - SCP

E-charging module Fleet Management System Command & Control center Passive Infra

NH section improvement O&M Cost for 5 years Total PC

Smart Mobility Smart & Sustanable Civic Inta Smart Urbanism

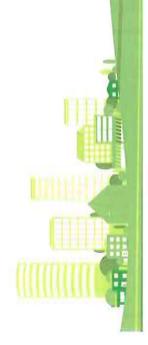
Total ABD

Smart City Proposal - Faridabad City

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	Project Component	Area/Unit/ Length	Area/Unit' Length Construction Rate/ Unit Cost/LS	Amount in INR	
	Smart Mobility			3,43,33,39,502	
100	1 Sustainable Mobility (Ped, NMT, PBS)		011	66,86,53,919	- 1
13	1 Segregated Cycle Track	17	2,03,00,000	34,91,60,000	
	2 Footpath Development	24	92,40,000	22,39,77,600	2
	3 Development of unsegnegated NMT routes identified	1	00'00'86	6,89,92,000	38
1	4 PBS Scheme	0	OLS	2,65,24,319	
10/4	2 Basic Mobility			2,46,11,85,583	5
15"	5 Intersection Geometry Improvement	10	39,18,839	3,91,88,390	8 8
1	6 Raised Pedestrian Crossing	23	30,543	7,02,489	_
100	7 IPT Stands	95 ECS	4.00,000	3,80,00,000	, G
1	8 e-Rickshaw stands	125 ECS	4,00,000	5,00,00,000	
3	9 Signages and Marking	24	66,31,800	16,07,54,832	
-	10 Landscaping	24	24,52,800	5,94,55,872	
77	11 Internal roads improvement and landscaping	30	2,31,02,800	69,30,84,000	80 0
	(camage way redevelopment/surracing or the taver BC adjustments of slones and				n
	camber, median improvments, new tree				10
	plantations, shrubs, grass, benches, solar				11
	blinkers, ramps)				12 8
	12 Cist Cost for Fhouer connection (close to	0		1.42.00.00.000	13.5
	neelam chowk) with service				14 S
	3 Smart Parking			30,35,00,000	2 0
1			780000		15 2
•	13 Smart Surface parking at Badkal Lake	150 ECS	1,90,000	2,85,00,000	16 S
- 37	Multilevel parking (Railway station and 14. Barikal More metro station)	2	25 lakh/ECS	27,50,00,000	8
1					

ω	Smart and Sustainable Civic Infrastructure		Cost Estimates	4,89,20,97,000
	Smart and Sustainable Civic			
-	Infrastructure for Sectors			4,71,68,00,000
-				45,00,00,000
	Smart meters for water connections			10 00 00 000
1 60	NRW reduction			9.00,00,000
4	SCADA for Water supply system			4,00,00,000
	Online water quality Monitoring System			
20	December of Commons achieved			75 00 00 000
9	Marta Mater Beaucling for Dublic prose			200,00,00
7				10.00.00.000
	Rain Water Harvesting Proposal for Public			
	Buildings, Schools, Colleges and Parks			
80 0				3 50,00,000
n				200,00,00
10	improvements to storm water network			38,00,00,000
11	Underground cabling			2,76,00,00,000
12	Solar Roof tops			29,00,00,000
13	Solar LED Street lighting			10,68,00,000
14	Solid Waste Management			5,00,00,000
	Smart Urban Village - Fatehpur			
2	Chandela			7,25,85,000
15	24x7 water supply			1,50,00,000
16	Sewerage			000,00,00,1
6		2007	0000	7,50,00,000
	Road Improvement - Main access roads	4200	1800	73,80,000
	merical Laries (azoum)	0000	2000	200,52,10
4	community smart tollets (solar powered, self-cleansing)			50.00,000
- 20	Rain Water Harvesting			50,00,000
9	Landscaping			10,00,000
	Smart Solar LED street lights	105	20000	52,50,000
"	Smart Slum Area Retrofitment - Sant			7 77 12 000
, -	Water supply			1,25,00,000
2				1,25,00,000
8	Drainage			1,75,00,000
4	Road Improvement - Main access roads	6360	1800	1,14,48,000
2	5 Internal Lanes (2320m length - 1.8m wide)	4176	1500	62,64,000
9	Community Toilets			30,00,000
7	7 Rain Water Harvesting			50,00,000
6	Landscaping			15,00,000
9		160	20000	80,00,000
	Barahi Talab Redevelopment			2,50,00,000
	Water supply			20,00,000
	Sewerage			25,00,000
	Drainage Smart Toilete			25.00.000
	Rain Water Hanesting			25,00,000
	- mineralpus			25.00.000
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	Road Improvement - Inam access nows	2000		



Cost Estimates

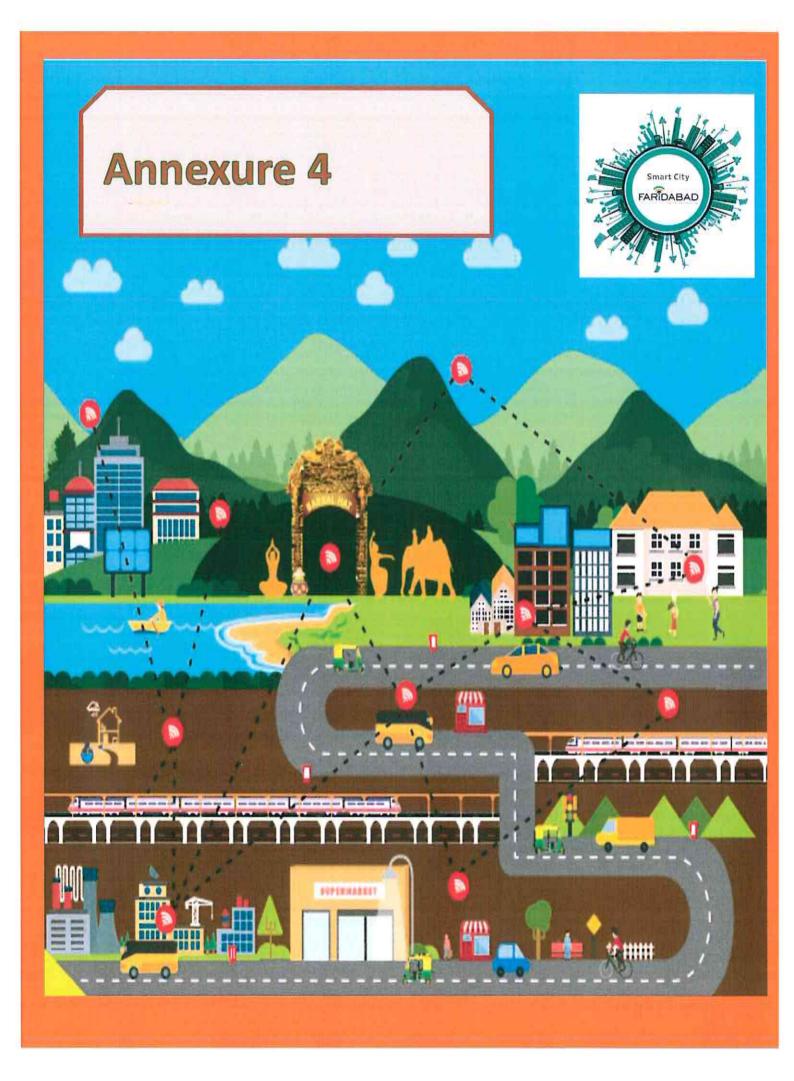
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			Retail area such as Hotel, and office	
			Multimodal Hub Mix use	
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000,04,24,11	SEOI	000,07	Red Light Violation Cameras Including Light at Traffe Junctions for one lane	
000,00,18,8	204	2,75,000	Surveillance Cameras at Intersection - Outdoor PTXP arominic Cameras	
000,08,54,1	504	000,07	Surveillance Comema at Intersection - Outdoor Fixed Comema	
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ANNEXURE 4

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

S. No	Particulars	1
1	RESOLUTION OF MUNICIPAL CORPORATION APPROVING SMART CITY PLAN INCLUDING FINANCIAL PLAN UNDER FAST TRACK CITIES	~
2	RESOLUTION OF THE CORPORATION/COUNCIL FOR SETTING UP SPECIAL PURPOSE VEHICLE	~
3	LETTER OF SUPPORT AND CONSENT FROM HARYANA URBAN DEVELOPMENT AUTHORITY (HUDA)	V
4	LETTER OF SUPPORT AND CONSENT FROM COMMISSIONER OF POLICE, FARIDABAD	~
5	CONSENT LETTER FROM NATIONAL HIGHWAY AUTHORITY OF INDIA	V
6	LETTER OF SUPPORT AND CONSENT FROM DELHI METRO RAIL CORPORATION	V
7	LETTER OF SUPPORT AND CONSENT FROM DAKSHIN HARYANA BIJLI VITRAN NIGAM (DHBVN)	V
8	LETTER OF SUPPORT AND CONSENT FROM FARIDABAD FOREST DIVISION	V
9	LETTER OF SUPPORT AND CONSENT FROM REGIONAL TRANSPORT AUTHORITY	V
10	LETTER OF SUPPORT AND CONSENT FROM HARYANA ROADWAYS	V
11	LETTER OF SUPPORT AND CONSENT FROM HARYANA TOURISM CORPORATION LTD.	V
12	LETTER OF SUPPORT AND CONSENT FROM DISTRICT INDUSTRIES CENTRE, FARIDABAD	V
13	PRELIMINARY HUMAN RESOURCE PLAN FOR THE SPV	V
14	INSTITUTIONAL ARRANGEMENT FOR THE SPV	V
15	LETTER OF INTENT AND SCOPE OF WORK FOR CONDUCTING PROPERTY SURVEY BY MUNICIPAL CORPORATION	V
16	DECLARATION TO FORM HOUSE OF MUNICIPAL CORPORATION FARIDABAD	V
17	HARYANA RIGHT TO SERVICES ACT 2014 NOTIFICATION	V
18	GOVERNMENT ORDER FOR EFFICIENT USE OF ENERGY SPECIFYING MANDATORY INSTALLATION OF SOLAR PHOTOVALTIC POWER PLANTS IN BUILDINGS/AREAS	V
19	DIRECTORATE OF URBAN LOCAL BODIES NOTIFICATION FOR TRANSFER OF DEVELOPED SECTORS TO URBAN LOCAL BODIES FROM HUDA	V
20	MINUTES OF MEETINGS HELD BY DISTRICT TASK FORCE, STATE LEVEL HIGH POWERED STEERING COMMITTEE AND MENTORING INSTITUTE RCEUS	V

21	REPORT ON PRE-FEASIBILITY STUDY ON RESTORATION OF BADKHAL LAKE FOR Q12	~
22	STATEMENT INDICATING TOTAL LAND BANK OF MUNICIPAL CORPORATION FOR FINANCIAL BACK UP PLAN	V
23	LETTER OF SUPPORT FROM PERSISTENT SYSTEMS LIMITED	1
24	LETTER OF SUPPORT FROM NORTHGATE PUBLIC SERVICES (NPS) FOR RLVD IMPLEMENTATION	>
25	LETTER OF SUPPORT FROM IAMSMEOFINDIA	>
26	MOU WITH FARIDABAD INDUSTRIAL ASSOCIATION	1
27	MOU WITH SMALL SCALE INDUSTRIES ASSOCIATION	V
28	LETTER OF SUPPORT FROM RENEWABLE BIOTECH	1
29	LETTER OF SUPPORT FROM NEXT GREEN	V
30	LETTER OF SUPPORT FROM NEELKANTH	~
31	MOU WITH SEC 21 RWA	1
32	MOU WITH JAN KALYAN SAMITI, SGM NAGAR	V
33	MOU WITH KARKHANA BAGH INDUSTRIAL WELFARE ASSOCIATION SECTOR 20	V
34	MOU WITH RWA FRIENDS COLONY SEC 20	V
35	MOU WITH SEC 21D RWA	~
36	MOU WITH DARGAH PEER BABA NAGAR RWA	~
37	MOU WITH GOPI COLONY RWA	V
38	MOU WITH SEC 19 RWA	V
39	LETTER OF SUPPORT AND OBSERVATIONS FROM REGIONAL CENTRE FOR URBAN & ENVIRONMENTAL STUDIES (RCUES), LUCKNOW	V
40	LETTER CONFIRMING INCORPORATION OF RCEUS COMMENTS ON REVISED SCP	V



Municipal Corporation, Faridabad

B.K. Chowk N.I.T Faridabad -121001, Haryana-India Tel.: 0129-2411649, 2411664, 2415549

Fax: 0129-2416465

RESOLUTION OF MUNICIPAL CORPORATION, FARIDABAD

No. 12

Date 7.04.2016

Upgraded Smart City Proposal under the Smart City Mission

The office of Municipal Corporation, Faridabad has submitted a proposal that after the Faridabad having been shortlisted as one of the Fast Track cities for Smart City by Ministry of Urban Development, Government of India, the Municipal Corporation, Faridabad started functioning in the preparation of upgraded Smart City Proposal (SCP) through the Consultants engaged by the State Government for this purpose. It has further been placed before the House that after having citizen consultations, collecting necessary details and series of meetings with the officers of different Departments of Faridabad, the Consultants prepared a draft of the upgraded Smart City Proposal which has been approved on 1-4-2016 by the Inter-Departmental Task Force under the Chairmanship of Deputy Commissioner, Faridabad having been constituted by the State Government for Smart Cities. This said upgraded SCP has now to be submitted before the State Level High Powered Steering Committee (SLHPSC) at Chandigarh in its meeting scheduled to be held on 8-4-2016 for its approval and before submission to the Government the same has been placed before the undersigned exercising the powers the Corporation for approval.

Accordingly, the undersigned exercising the powers of the Corporation, as enshrined under Notification No. 6/10/2015-4C II dated 26-5-2015, hereby resolve to approve the said upgraded Smart City Proposal and direct the Municipal Corporation, Faridabad for its submission to the State Government for its final approval so that the same may be sent to Government of India well in time.

> Administrator-dun Commissioner, Municipal Corporation, Faridabad, Exercising the powers of the Corporation In pursuance of the State Government Notification No. 6/10/2015/4C II dated 26-5-2015



Municipal Corporation, Faridabad

B.K. Chowk N.I.T Faridabad -121001, Haryana-India

Tel.: 0129-2411649, 2411664, 2415549

Fax: 0129-2416465

RESOLUTION OF MUNICIPAL CORPORATION, FARIDABAD

No. 13.

Date. 7.04-2016

Formation of Special Purpose Vehicle (SPV) for implementation of proposals under Smart City Mission.

It has been placed before the undersigned, exercising the powers of Corporation, that after the Faridabad having been shortlisted as one of the Fast Track cities for Smart City by Ministry of Urban Development, Government of India, the Municipal Corporation, Faridabad started functioning in the preparation of upgraded Smart City Proposal through the Consultants engaged by the State Government for this purpose. It has further been submitted by the office that after having citizen consultations, collecting necessary details and series of meetings with the officers of different Departments of Faridabad, the Consultants prepared a draft upgraded Smart City Proposal which has also been approved on 1-4-2016 by the Inter Departmental Task Force under the Chairmanship of Deputy Commissioner, Faridabad, having been constituted by the State Government for Smart Cities. This draft upgraded Smart City Proposal is to be submitted to Government of India on or before 15-4-2016 after getting approval from the State Level High Powered Steering Committee (SLHPSC) at Chandigarh in its meeting scheduled to be held on 8-4-2016.

It has further been proposed that for implementation of the proposals under Smart City Mission, a Special Purpose Vehicle (SPV) is to be created by the State Government with details of its composition and structure as per Smart City Mission Guidelines and as such a case to this effect has been placed for approval.

Accordingly the undersigned, exercising the powers of the Corporation. as enshrined under Notification No. 6/10/2015-4C II dated 26-5-2015, hereby resolve that a reference be sent to the Government with the proposed formation of Special Purpose Vehicle (SPV) in view of the Mission Statement Guidelines issued by Government of India.

> Administrator cum Commissioner, Municipal Corporation, Fahidabad, Exercising the powers of the Corporation In pursuance of the State Government Notification No. 6/10/2015/4C II

dated 26-5-2015



ADMINISTRATOR

HARYANA URBAN DEVELOPMENT AUTHORITY

HUDA Office Complex, Sector-12, Faridabad -121007 Haryana

From

Administrator,

HUDA, Faridabad.

To

The Chief Administrator, HUDA, Panchkula.

Memo No.

Date:

Sub:-

Regarding Smart City Proposal.

Please refer to your Memo No. MCF/SE-I/2016/302 dated 18.04.2016 on the subject cited above.

This department shall be pleased to give full support and cooperation in the implementation of projects for the purpose of land monetization in respect of following pieces of land to the extent mentioned against each:-

Sr. No.	Plot detail.	Approx area in SQ.Mtr.	AED Proposal.	Site Report.	DTP Report.	Litigation	Remarks.
1	Land behind Badkhal Mor Metro Station, Sector-19 Fbd.	6,386	Mixed use developme nt.	(i)50% RMC Metro Parking. (ii) 50% Vacant.	Already plannied as shopping Centre.	No.	50% can be allotted as on today, which is marked in map annexed, with approval from Competent Authority.
2	Plot No. 1405, 1406 & 1362 Sector-19 Fbd.	627	Skill developme nt centre.	Can be considered for Smart City Project.	Approved plot.	No.	Can be allotted with the permission from Competent Authority.
3	Land adjacent to road concerting NH and Railway Station Sector-20A	19,549	Mixed and use under multimodal hub.	1.Only 4000(approx.) Smt. Vacant 2.Temporary Metro Casting station in 13,000 Sq.mtr. which will be available later. 3.Enroachemnt at 2500 Sq.Mtr. (Temple, Gurudwara * Jhuggies).	No HUDA land is unplanned	No	Can be allotted 4,000 (Approx) Sq.Mtr. today, which is marked in map annexed, with permission from Competent Authority.

Therefore, it is requested that necessary approval may be accorded from Competent Authority please.

Endst. No.

3783

Date: 18/04/2016

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

HUDA, Faridabad.

2

Phone: 0129-2227676, 2221919

HUDA email: admfbdhuda@gmail.com HUDA Web: www.huda.gov.in

Dr. Hanif Qureshi, IPS



D O No 387/PA
अर्ध-सरकारी पत्रांक
Commissioner of Police
Faridabad
पुलिस आयुक्त, फरीदाबाद
Dated
दिनाक: 19-04-2016,

My dear A ditya,

Please refer to the Smart City Document prepared by you.

I have perused the document and noted its contents. The documents including fundamental changes in the way governance will be carried out including citizen participation and inviting suggestions from various Stakeholders in the multifarious activities planned in the project. The strengthening of various infrastructure areas will go a long way towards making Faridabad closer to be desired goal to make it Smart City. The Police Department of Faridabad supports the plan and would make every endeavour to make this plan a success.

with best wishes,

Yours sincerely

(Dr. Hanif Qureshi)

Dr. Aditya Dahiya, IAS Commissioner, Municipal Corporation, Faridabad.



भारतीय राष्ट्रीय राजमाग प्राधिकरण

(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार) **National Highways Authority of India**

(Ministry of Road Transport & Highways, Govt of India)

गलियारा प्रबन्धन ईकाई CORRIDOR MANAGEMENT UNIT

•6P, सेक्टर-16A, फरीदाबाद-121002 (हरियाणा) : •6P, Sector-16A, Faridabad-121002 (Haryana)

टेलिफेक्स : 0129-400402 Telefax: 0129-4004022 ई—गेल ≈ mat@nhai.org E-mail: mat@nhai.org

NHAI/CMU/MTR/21011/2016/D- 40075

Dated: 19.04.2016

To

- The Deputy Commissioner, Faridabad.
- The Commissioner, 2. Municipal Corporation, Faridabad

Smart City Proposal for Faridabad Subject:-

Ref:-

Your email dated 18-04-2016 on the subject.

Sir.

Kindly refer to the draft Smart City Proposal for Faridabad which has been duly approved by the District Level Task Force Committee and State Level High Powered Steering Committee.

The National Highway Authority of India is committed to provide full support for implementation of Smart City projects in Faridabad especially with respect to NH-2 improvement in Area Based Development proposal.

Thanking you

Yours faithfully,

Project Director CMU-Mathura

TEL.: 26229001-3 FAX: 26229004



दिल्ली मेट्रो रेल कॉपोरेशन लिमिटेड DELHI METRO RAIL CORPORATION LTD.

(A JOINT VENTURE OF GOVERNMENT OF INDIA AND GOVT. OF DELHI)

Office of the Chief Project Manager / 7

Opp. Frank Anthony Public School, Lala Lajpat Rai Marg, Lajpat Nagar-IV, New Delhi-110024

No. DMRC/PM-7D/Ph-III/Other-Dept./2014

Date: 20/04/2016

The Commissioner of Municipal Corporation, Faridabad, Haryana.

Sub:-Letter of support and consent for converging schemes with the upgraded Smart City proposal for Faridabad.

Dear Sir,

With reference to the subject matter and the convergence scheme proposed by Municpal Corporation Faridabad in its upgraded Smart City proposal, we appreciate the upgraded Smart City Proposal prepared and confirm to provide support for planning and implementing the projects identified, which shall be carried out through a dedicated Special Purpose Vehicle (SPV).

All modalities need to be discussed in detail and mutually agreed upon the formation of SPV.

Thanking You,

Yours faithfully,

Chief Project Manger/7

KSHIN HARYANA BIJLI VITRAN NIGAM

Office of the SE Smart City Project,
Gurgaon Office Address: 1st Floor, UdyogMinar,
UdyogVihar,Phase-V,Gurgaon
Email: sesmartcityggn@gmail.com

From

SE/ Smart City Project, DHBVN, Gurgaon.

To

Commissioner,

Municipal Corporation,

Faridabad.

Memo. no. Ch-35/5 cf-34 dated. 20-4-16

Subject:

Letter of support and consent for converging schemes with the

upgraded Smart City Proposal for Faridabad

Dear Sir,

With reference to the subject matter and the convergence scheme proposed by Municipal Corporation Faridabad in its upgraded Smart City Proposal, we appreciate the up-graded Smart City Proposal prepared and confirm to provide support for planning and implementing the projects identified, which shall be carried out through a dedicated Special Purpose Vehicle (SPV). The electrical infrastructure required to be created under smart city project will be covered under the IPDS (Integrated Power Development Scheme) financing scheme of Gol for the urban area.

All modalities need to be discussed in detail and mutually agreed upon the formation of SPV.

Yours Sincerely

SE/ Smart City Project, DHBVN, Gurgaon.

CC:-

SE/ Op Circle, DHBVN, Faridabad

Office of the Deputy Conservator of Forests, Faridabad Forest Division, Faridabad

By Pass road, Sector-14, Faridabad

Phone/Fax No: 0129-2286760 Email J.D. dfo_fbd@yahoo.co.in

No: A-IV-198/132

Dated: 20-4-2016

To:

Commissioner,

Municipal Corporation,

Faridabad

Sub:-

Smart City Proposal for Faridabad- "Nagar Vanikaran Yojna- Ek Kadam

Haryali Ki Aur"

Ref:

Your office letter no. MCF/SC-1/2016/305 dated 19-4-2016

Kindly refer to the above mentioned letter issued by your good office and the meeting held in the office of Deputy Commissioner, Faridabad on the smart city proposal which on 19-4-2016.

In this regard, it is hereby informed that Forest Department has chosen the forest areas notified under section 4 of Punjab Land Preservation Act, 1900 in village Badkhal, Faridabad for establishing a project under "City Forest" scheme of Govt. of India.

This scheme aims at creating green lungs in urban areas by maintaining 66% of the area under tree cover along with other aesthetic components like lawn hedges, shrubs, climbers, topiaries, medicinal plants, seasonal flowering plants etc. are also ensured.

Adding to these walkways, jogging/ cycle track etc will also be a part of this project. Ecologically also this project is a significant as this area forms the catchment of Badkhal lake and any forestry intervention in this region can result in enhanced ground water recharge which will add to the efforts on revival of Badkhal lake; which is an important region coming under your smart city proposal.

This is for your kind information and further necessary action.

Deputy Conservator of Forests, Faridabad

Endst. No.

Dated:

A copy is forwarded to the following for r kind information and further necessary action.

1. PCCF, Hr., Panchkula

2. CCF, Pro-II, Hr., Gurgaon

3. Conservator of Forests, South Circle, Gurgaon

4. Deputy Commissioner, Faridabad

Deputy Conservator of Forests, Faridabad



Bharat Bhushan Gogia, H.C.S.

Secretary, Regional Transport Authority Faridabad

D.O. No.: 3580-81/RTA

Dated, Faridabad the 20th April, 2016

To

1.

The Deputy Commissioner, Faridabad.

2.

The Commissioner, Municipal Corporation, Faridabad

Subject:-

Smart City Proposal for Faridabad

Kindly refer to the revised/upgraded Smart City Proposal (SCP) for Faridabad which has been duly approved by the District Level Task Force Committee and State Level High Powered Steering Committee.

It is understood that some of the pan city solutions proposed in the said revised/upgraded SCP relate to traffic rule violation detection including e-challaning, e-vehicle module, passenger Information system, and automatic traffic control system.

The Regional Transport Authority, Faridabad is committed to provide full support for implementation of Smart City projects in Faridabad especially with respect to integration of vehicle registration database with traffic rule detection system, e-vehicle module and any other solution proposed in the smart city proposal subject to existing rules and regulation.

Secretary

Regional Transport Authority,

Faridabad

From

General Manager, Haryana Roadways, City Bus Service Faridabad

Τo

- 1. The Deputy Commissioner, Faridabad.
- 2. The Commissioner, Municipal Corporation, Faridabad

No. 53

/CI

Dated: 20-4-16

Subject:-

Smart City Proposal for Faridabad

Ref:-

Your email dated 18-4-2016 on the subject

Kindly refer to the draft Smart City Proposal for Faridabad which has been duly approved by the District Level Task Force Committee and State Level High Powered Steering Committee.

The Haryana Roadways is committed to provide full support for implementation of Smart City projects in Faridabad especially with respect to bus queue shelters, passengers information system, fleet management system etc. which are to be carried out by a dedicated Special Purpose Vehicle (SPV) subject to existing rules and regulation.

> General Manager Haryana Roadways, City Bus Service Faridabad

To

- The Deputy Commissioner, Faridabad
- The Commissioner
 Municipal Corporation,
 Faridabad

No.HTC/2016/CPP/ 196-91 Dated:- 201416

Sub: Smart City proposal for Faridabad.

This is with reference to e.mail received on 19.4.16 from Superintending Engineer, Municipal Corporation, Faridabad on the subject cited above.

In this regard, it is submitted that Haryana Tourism Corporation is committed to provide full support for implementation of Smart City Projects in Faridabad especially with respect to development of tourism potential and water front development at Badkhal Lake subject to existing rules and regulation.

It is clarified that the user rights of Badkhal Lake Tourist Resort, Faridabad will remain solely with Department of Tourism, Haryana/Haryana Tourism Corporation.

This has concurrence of the Principal Secretary to Govt. of Haryana Tourism Department.

General Manager, Haryana Tourism Corpn. Ltd., Chandigarh From

The Joint Director,
Distt. Industries Centre,
Faridabad. --

To

Commissioner, Municipal Corporation, Faridabad.

Memo No. DIC/Fbd/
Dated Faridabad, the 18 4 20/6

Subject:

Letter of support and consent for converging schemes with the upgraded Smart City Proposal for Faridabad.

Kindly refer to your office memo no. MCF/S€-1/2016/301 dated 18/4/2016 on the above noted subject.

With reference to the subject matter and the convergence scheme proposed by Municipal Corporation Faridabad in its upgraded Smart City Proposal, we appreciate the up-graded Smart City Proposal prepared and confirm to provide support for planning and implementing the projects identified, which shall be carried out through a dedicated Special Purpose Vehicle (SPV).

All modalities need to be discussed in detail and mutually agreed upon the formation of SPV.

Joint Director

Distt. Industries Centre

Faridabad

SPV Human Resource Plan

The SPV shall have a Board of Directors comprising of a Chairman, Co-Chairman, , Vice-Chairman, a CEO, four Directors including one Director (Accounts & Finance), one Director (Projects), one Director (IT) and one Director (Legal) out of which will be two independent Directors.

Further, the SPV will have an Advisory & Supervisory cum Facilitation Committee supporting the Board of Directors.

within MCF limits, 2 NGO representatives appointed by Mayor, Representative of Faridabad Industrial Association, representative of Small Scale Industries The Chairperson of the Advisory Committee will be the Mayor. The committee will have representation from senior Deputy Mayor, Deputy Mayor, Heads of RWAs Association and Joint Director, Industries.

The Supervisory cum Facilitation Committee will comprise of representatives from departments crucial for implementation of ABD and pan city projects including Commissioner, Police; District Magistrate, Faridabad; Administrator, HUDA; Regional Director, DMRC; Project Director, NHAI; Superintending Engineer, Smart Grid; Superintending Engineer, DHBVN; Senior Town Planner, Town & Country Planning Department; - Secretary, Regional Transport Authority; General Manager, Roadways and District Forest Officer.





Municipal Corporation, Faridabad

B.K. Chowk N.I.T Faridabad -121001, Haryana-India

Tel: 0129-2411649, 2411664, 2415549

Fax: 0129-2416465

From:

Commissioner, Municipal Corporation, Faridabad.

To:

The Director, Urban Local Bodies Department, Haryana Chandigarh.

No.MCF/SE/2016/ 3 11 Dated: 20 | U | 16

Sub: Door to door survey of all property Units falling within the jurisdiction of Municipal Corporation, Faridabad for the purpose of collection of datas on all parameters on which MCF collects and or may collect revenue under the existing taxes fees/ charges.

It is submitted that, amongst others, this Corporation has the following sources of revenue, the datas available with this Corporation on the basis of which these taxes/fees/charges are levied and collected, are not accurate and or the same are incomplete thereby causing colossal revenue losses to this Corporation:-

- i) Property tax/Fire Tax
- ii) Water and sewer charges
- iii) Trade/Factory license fees

Therefore, this Corporation in order to strengthen its financial position has decided to get the door to door survey conducted for the collection of required information for imposition and levy of the said taxes and fees, through an agency having the experience of property physical survey projects.

The prima-facie study on the subject reveals that with the rapid urbanization, industrialization and commercialization of the area falling under the municipal jurisdiction of this Corporation, the property units of different uses have increased manifold and are lying untapped in so far as imposition of the said taxes /fees and charges are concerned. Therefore, it has become necessary for the MCF to bring all these units within the ambit and scope of such taxes and fees.

It is further submitted that the man-power required for the said purpose is not available with this Corporation and hence it has been decided in the interest of this Corporation to get the said survey conducted through outsource agency by inviting tenders through e-tendering. In this connection, a tender document has been prepared by this Corporation keeping in view the scope of work assessed by the office of DULB and the requirements of this Corporation. A copy of the said tender document is attached

The State Government is requested to give in-principle approval for floating the tender through e-tendering so that recovery of these taxes and fees may be improved.

Municipal Prioration,

Faridabad.

- MANDATORY CRITERIA: Offers of only those bidders (the consortium members may meet the mandatory criteria jointly) shall be shortlisted who fulfil the under mentioned:
 - The bidder must be an Indian firm / company / organization registered under Indian Companies Act/Parnership act or Proprietory
 - b. The minimum annual turnover should be 5 crores per annum for the last three financial years duly supported by a CA certificate. The annual balance sheet certified by a chartered accountant has to be given as a proof of turnover.
 - c. Have work order and have carried out the doorstep survey for assessment in the instant manner for any Municipal Corporation / Government Agency in India, duly supported by a Completion letter from that agency.
 - d. The bidder must have the successful experience of doing business for GIS / GPS / DGPS operations in last 3 financial years for conducting surveys or providing IT/ITES/Geospatial Services. (Please attach proof thereof.) The bidder should have also carried out Urban Mapping using High Resolution Satellite Data / Aerial Photos for at least 5 Towns.
 - The bidder must also have minimum 3 years experience in handling surveys or similar IT projects. The details must be provided along with the bid document
 - f. High Resolution satellite Data to be used in survey should have been provided by ULB as per HARSAC norms which is a nodal agency for Haryana government, source of satellite data is strictly prohibited from other source.
 - g. The bidder must have minimum 3 years of experience in handling Property tax computerization with any Municipal Corporation/Council in India.
 - h. The bidder or a member of the consortium should preferable have the experience in handling Government projects.
 - Bidder should be empanelled with Dept. of Space (Govt. of India) / Ministry of Defence /any Indian Govt. Agency/ Indian PSU for creation and development of Large scale Urban Mapping and Database in India.
 - The bidder or a member of the consortium must establish office in Faridabad after executing the agreement with the MCF.
 - k. The MCF reserves the right to outsource complete or a part of the job and the MCF's decision in this matter shall be final.
 - The MCF reserves the right to carry out the capability assessment of the tenders and the MCF's decision shall be final in this regard.
 - m. For the sake of repetition, it is made clear that all the software used in the survey/mapping such as GIS / similar software in executing this project shall remain the property of Municipal Corporation Faridabad (MCF) and agency shall handover the relevant software to MCF before applying for the payment of last bill which is under Commercial off-the-shelf (COTS).
 - All the data shall be handed over to the MCF in .xls file as per property tax format as well as .shp files for GIS data (personnel geo database).

- Non-fulfilment of the above said criteria shall result in rejection of technical bids. Any
 rejected technical bid shall not be eligible for participation in evaluation of financial
 bids.
- p. At any instance during the execution of project, it is found that the survey conducted by the agency is not true in nature then Commissioner, MCF shall have the right to impose the penalty twice of the agreement amount per unit for the units whose survey has been found incorrect and the same agency shall have to conduct survey of those properties again and no payment shall be made for re-survey.
- q. A security @ 10% of the billed amount shall be deducted from each bill and will be refunded after six months of completion of project on written request from the agency and certificate from the officer concerned regarding successful completion of the project in accordance to provisions of this tender.
- r. The bidder should further clarify that the individual signing all documents in connection with the tender whether he or she signs as:
 - i. A "Sole proprietor" of the firm attorney of such sole proprietor.
 - II. A partner of the firm if it is partnership, in which case he has authority to refer to arbitration disputes concerning the business partnership either by virtue of the partnership agreement or a power of attorney. In the alternative the tender should be signed by all the partners.
 - iii. Constituted attorney of the firm, if it is a company.

5. SCOPE OF WORK AND TIMELINES

- 18. The major sources of revenue for Faridabad Municipal Corporation is from property tax, water and sewer charges, trade license fees/Factory License fees. The MCF has a computerised database of around 2.25 lacs properties for the purpose of property tax (as per survey report 2008-2009) but it is expected that there should have been a drastic increase in the units due to urbanization during the last decade which may be brought within the ambit & scope of levy and recovery of various taxes/fees/charges. MCF feels that the quality of data available with it may not be accurate thus leading to revenue losses in terms of missing properties / non-declaration of commercial usage / missed usage in residential properties etc. Further MCF will like to have best-in-class software system with provision to integrate remaining municipal services on revenue and cost side should be possible. The new system should be extensible to provide one view of all MCF revenue services in future. System Architecture should be designed to enable such integration and migration of existing legacy applications. Hence, MCF wants to engage the services of an agency which can undertake the following:
 - a. Door To Door Survey Of All Properties including GIS mapping— The agency shall deploy experienced manpower to conduct door to door survey including GIS mapping of all properties falling within the jurisdiction of Municipal Corporation, Faridabad and to collect data on all parameters on which MCF collects or may collect revenue under the following heads:
- Property tax

- ii. Water and sewer charges
- iii. Trade license fees/Factory License Fees
- Processing of all data in a Software made by the Agency The agency shall deploy manpower (in an office space provided by MCF) and process the data:
 - Door to Door Property Tax Survey This exercise shall cover all properties and vacant land irrespective even if they are at present exempt from payment of taxes / fees etc to MCF.
 - ii. The survey should be conducted by matching the existing house tax records (code matching) of Municipal Corporation of Faridabad. (Municipal Corporation of Faridabad will provide all existing property tax records to successful vendor and also accompany the survey team on the field for identification of properties, where ever necessary).
 - A unique property identification code (UPIC) to each property shall be given with proper linkage with the existing property identification code, if any.
 - iv. The agency will also link the said UPIC record with the record of property tax, water and sewer charges, trade license fees/Factory License fees. The Corporation will verify the record submitted by Agency with the existing manual/ computerized record with the Corporation.
 - Complete name of owner, address,land line/ mobile number email id etc. of each tax payer/unit holder.
 - vi. The agency will enter the self assessment record available with the Corporation and verify the tax deposit with the actual assessment of tax alongwith the previous arrears to generate the notice for the tax demand as per the provision of the Haryana Municipal Corporation Act, 1994 and the notifications/directions issued from time to time by the Haryana Govt. The agency will take stock of the assessment/forms immediately on taking over the work and shall have to make logistic arrangement within the questioning period.
 - vii. The Agency will prepare the data base of units for the purpose of said taxes & fees as per the provision of respective Acts/policy/Rules and shall prepare the notices/bills as per the provisions of the Govt.
 - viii. The software should be capable to generate, print tax bills/ notices to all tax payers year on year and the software so developed for the said taxes, fee and charges shall be the property of the Corporation along with their login passwords/source codes so as to enable the IT Cell of the MCF to operate the same after the closure of the period of the contract.
 - Assessment of Property Tax for all type of properties for the financial year 2017-18 as per policy.
 - x. Posting of arrear for the year 2016-17 or payment collection records (property tax, fire tax, interest, rebate, exemption etc.) upto 31st March 2017. (MCF will provide the relevant details in soft/hard copy within time limit).
 - Interest and rebate calculation as per Haryana Government notification dated 11.10.2013 and amendment dated 29.06.2015 and amendment dated 19.11.2015 etc. shall be carried out by the Agency.
 - xii. Generation, printing and distribution of Property Tax notice cum bill to all properties within MCF limit for the year 2017-18 with arrears if any.

- xiii. Updation/re-calculation of property records based on notice/bill provided by concerned officials after taking decisions on objections/appeals/self assessment if any received from property owners within two months from the date of issue of Notice/bill.
- xiv. Generation and printing of a Single Assessment cum Demand and Collection Register (TS-5 & TS-1) colony wise for the year 2017-18 alongwith the arrears , if any .
- xv. The Agency will prepare the data base of units of Licensing and Water/sewer as per the provision of respective Acts/policy/Rules and shall prepare separate notices/bills for each heads and shall hand over the same to the MCF for its distribution.
- xvi. The Agency will prepare the Demand & Collection registers of licensing and water/sewer also
- xvii. To provide colony wise GIS base map (hard copy and soft copy in shape format) showing building id, transportation network, existing ward boundary, important land marks etc.
- xviii. The soft copy records of property tax, licensing and water/sewer charges shall be provided to MCF to their satisfaction and MCF shall upload the database on its web portal so that the owner/occupier can view/print/pay online.
- xix. That the survey format shall be made and provided by Municipal Corporation, Faridabad.
- xx. That since the existing rates include the work of GIS survey in respect of all the property units and that Municipal Corporation Faridabad is already getting GIS work done in respect of the unauthorized colonies, the rates of service charges to be invited through the present tender should be on the basis of "with GIS survey" and "without GIS survey" separately.
- xxi. That the bidder shall also have to calculate and make available to Municipal Corporation, Faridabad the tax of each existing unit as per the Government instructions dated 11-10-2013 enforceable from 01-04-2010 and the subsequent instructions issued by the State Government in this behalf from time till now and during the period of contract
- xxii. The Agency will prepare the demand & collection registers of Property tax, water/sewer, trade licence fees/factory licence fees and the payment will be made only for those units for which all the four Demand & Collection Registers (D&Cs) have been prepared & got verified from respective officials/officers.
- xxiii. The software should be able to maintain Demand & Collection Register of payment received against dues and print online G 8-receipt for each payment received.
- xxiv. The software should be able to generate colony wise / ward wise / zone wise MIS reports for MCF.
- xxv. The software should be web based and should be operated by authorised MCF official through user-based access .
- xxvi. The software needs to be integrated with the MCF website to enable users to view the tax / fees / user charges payable to MCF and make payment for the same.
- xxvii. It shall be ensured that after issue of Bills/Demand notice/ Show Cause Notice/ G 8 receipt, there should be no changes in the history of any unit holder without the written/ in-system approval of the competent authority while maintaining all the logs for such changes.
- xxviii. The software should be capable of making online self assessment in respect of property tax by Tax Payer/Assesses so that the online payment may be made by him/them.
- xxix. The survey entries shall me made directly onto a Mobile Tab / Mobile device, to

- avoid manual data entry, for which a relevant Mobile application needs to be developed as per the format of data to be collected from the field; duly approved by MCF.
- xxx. The agency must demonstrate the use of mobile Mobile app based building-wise data collection and a seamless transfer of data from field to office. The software must allow automated data collection using mobile-based technology with a facility to synchronize the geographic and non-geographic data collected from the field directly to web server.
- xxxi. After the approval of the Sub-Committee/Financial Committee of Municipal Corporation, three copies of the assessment lists should be generated for first publication.
- xxxii. Assessment Notices, in duplicates, shall have to be prepared and distributed in the city as per Section 97 of the Haryana Municipal Corporation Act, 1994.
- xxxiii. To enter the Objections and appeals received on the Assessment Notices issued under Section 97 of the Haryana Municipal Corporation Act, 1994 in the TS Form-2 Register.
- xxxiv. To enter the data of the decisions taken by the Municipal Corporation. Faridabad on the objections & appeals and the correct the data entered and generate corrected TS Form-1 Register.
- xxxv. To generate the lists for the final publication. Thereafter, TS-5 (Demand and Collection) Register shall have to be prepared and generated.
- xxxvi. To generate online Property Tax Bills and distribute in the city
- xxxvii. The entire stationary and consumables other things like computer / GIS etc to be used during the project shall be borne by the service provider.
- xxxviii. To provide colony wise / ward wise map along with building detail and number (hard and soft) both
- xxxix. Timeframe to implement the solution will be one year (12 months) from the date of award of the contract. For the next subsequent four years, the agency shall be required to depute staff for timely update of property database and assisting the tax staff in data entry, tax notice generation, updating demand, etc.
 - xli. The software solution must have the facility to display building footprints, different units in each building, floor-wise schematic plans and feature-linked property data.
 - xIII. The mobile app must have the capability take multiple photos per entry. Digital photographs of buildings and individual properties along with their Water Meters must be taken during survey as a part of mobile app and seamlessly integrated with the web-based map application.
 - xliii. A digital photograph of the municipal water meter installed at the building must be taken and linked with the property database. It must be ensured that the photograph of the water meter captures the reading legibly. Water connection details and sewerage details must be captured as well.
- xliv. The software solution must have built in analytical features of the application, including but not limited to, building-level statistics, ward statistics and city-wide statistics. An information dashboard for different user tiers is also required.
- xIv. The software must facilitate assess, display, record all the properties online. The software must allow automatic tax assessment, computerization, tax demand notice generation on a single-click, ward-wise comparison reporting, geographic data access and analysis.
- xIvi. The software must have the capability of updating the rate charts for property tax assessment.
- xIvii. The web interface shall be designed in such a manner that the building footprints on

the online GIS map shall be color coded on the basis of tax default, match/mismatch with ULB/MCF records, etc. The web-based property tax information system shall also allow an easy access to the ULB/MCF user to access the GIS-base view and generate thematic layers of property tax details for convenient view and reporting. The property tax information in real-time shall be accessible by simply clicking the building/plot on the map screen.

- xiviii. The web-based property tax information system shall also allow an easy access to download the tax defaulter lists. It should allow an access to download demand notices or invoices for property owners; in addition to viewing digital photographs taken during door-to-door survey of properties.
- xlix. The software must have the capability to add future taxes if proposed at a later stage by the municipal corporation.
 - The bidder must also have map-based data collection devices in their inventory.
 Documentary proofs/bills to be attachedThe verification for authenticity of GIS mapping will be done by the officer authorized by the MCF.
 - (a) The regularity of the performance of the services will be the essence of this agreement. The Service Provider shall take all possible steps to ensure to maintain its performance as determined by the Department from time to time.
 - (b) The assessment made by the Service provider in the tender including number of personnel of various descriptions as required to provide / give the required quality of services shall be final & acceptable and binding upon the Service Provider.
 - (c) If the MCF notices that the Service Provider is negligent, careless in rendering the said services, the same shall be communicated immediately to the Service Provider who will take the corrective steps immediately to avoid recurrence of such incidents and reports to the MCF.

Any other condition which is deemed fit with the mutual consent of the MCF and the finalised bidder/Service Provider, for the due and effective performance of the intent and spirit of the present scope of work during the currency of the period of the contract.

c. Important Points

- Physical Survey to be conducted and integration of the data collected is to be done with MCF website
- Computerised generation of demand notice of revenues to be done
- Data correction and cross validation of the same to be done with inputs from citizens
- iv. Entire Software will be the property of MCF
- Bidders must mention cost of the following and relative term and conditions; in addition to the charges of one year of demand generation i.e. Scope of Work:
- · With their own infrastructure and manpower 'stationed at MCF'
- With their own infrastructure and manpower 'stationed at their own office'
- vi. Entire software/data needs to be integrated with MCF website/server to satisfaction of MCF



Watchell Corporation, Faridabad Br. Chook N. T Faridabad 121001 Harrand India

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From

Corporation Secretary, Municipal Corporation, Faridabad

To

The Secretary, Ministry of Urban Development, Smart Cities Division, Nirman Bhawan, New Delhi.

Memo No. MCF/CS/2016/ 1)
Dated: 7-04-2016

dom@Subject:-.

47 J.X

Formation of House of Municipal Corporation, Faridabad

It is submitted that the House of Municipal Corporation, Faridabad after expiry of its statutory period of five years was dissolved on 26-5-2015 and the Commissioner, Municipal Corporation, Faridabad was appointed as Administrator of Municipal Corporation, Faridabad by the Governor of Haryana vide order endorsement No. 6/10/2015-4CII dated 26-5-2015 to exercise the powers and functions of the Corporation.

Although elections to Municipal Corporation, Faridabad were expected to be held immediately after the discontinuation of the House but the State Government by way of notification No. 15/2/2004-3C-II dated 16-6-2015, exercising its powers under sub-section (1) of section 32 read with section 6 of the Haryana Municipal Corporation Act, 1994 (Haryana Act 16 of 1994) and in consultation with State Election Commission, amended the Haryana Municipal Corporation Delimitation of Ward Rules, 1994 for the purposes of fixation of total number of seats of this Corporation on the basis of the latest census figures. Accordingly, the Municipal Corporation, Faridabad initiated necessary action for delimitation of existing wards as per the census of 2011 but a few residents of Faridabad filed Civil Writ Petition No. 18860 on 3-09-2015 challenging the proposed delimitation of wards and the Hon'ble High Court issued order to stay the delimitation of wards.

However, now when there is no stay order from any court of law, the Municipal Corporation, Faridabad is going to finalize the work of delimitation of wards very shortly and thereafter the same will be sent to State Government for its approval and for announcing the date of elections to this Corporation.

Corporation Secretary Municipal Corporation Faridabad

P.T.O.

HARYANA GOVERNMENT ADMINISTRATIVE REFORMS DEPARTMENT

NOTIFICATION

Dated 15th Febuary, 2016

No. 7/31/2014-3AR.-In exercise of the powers conferred by sub-section (1) and (2) of section 3 of the Haryana Right to Service Act, 2014 (4 of 2014) and in supersession of Haryana Government, Administrative Reforms Department, notification of No. 7/31/2014-3AR dated the 7th May, 2015, the Governor of Haryana, on the recommendations of the Commission hereby notifies the following Services, the time limit within which these are to be provided to citizens, and the Designated Officer, First Grievances Redressal Authority and Second Redressal Authority under the Act as per the schedule given below:-

	SCHEDULE									
Sr. No.	Name of the Departme nt	Name of Service	Given Time Limit	Designated Officer	First Grievances Redressal Authority	Second Grievances Redressal Authority				
1	2	3,	4	5	6	7				
1,	Revenue	(i) Certified copies of all documents at Fard Centre level i.e. Record of Rights (Jamabandi), Girdawri, Mutation, etc.	1 day	Duty Patwari 1	Tehsildar of concerned Tehsil	SDM of the Concerned Sub Division.				
		(ii) Certified copies of all documents at Village level i.e. Record of Rights (Jamabandi), Girdawri, mutation, etc. (if the copies sought are manual and number of pages sought is less than 5)	2 days	Patwari	Tehsildar of concerned Tehsil	SDM of the Concerned Sub Division				
		(iii) Certified copies of all documents at Village level i.e. Record of Rights (Jamabandi), Girdawri, mutation, etc. (if the copies sought are manual and number of pages sought is more than 5 but less than 15)	3 days	Patwari	Tehsildar of concerned Tehsil	SDM of the Concerned Sub Division.				
		(iv) Certified copies of all documents at Village level i.e. Record of Rights (Jamabandi), Girdawri, mutation, etc. (if the copies sought are manual and number of pages sought is more than 15)	7 days	Patwari	Tehsildar of concerned Tehsil	SDM of the Concerned Sub Division				
2.	Revenue	Demarcation of Land if no standing crop.	45 days	Circle Revenue Officer	SDM of the concerned Sub-Division	Deputy Commissioner of the concerned District				
3.	Revenue	Registration of all kinds of documents i.e. sale deed. Lease deed, GPA, Partnership Deed etc.	1 day	Sub-Registrar or Joint Sub Registrar (in case of Sub Tehsils)	SDM of the concerned Sub-Division	Deputy Commissioner of the Concerned District				
4.	Revenue	Certified Copies of all kinds of previously registered documents	7 days	Sub-Registrar or Joint sub Registrar (in case of Sub Tehsils)	SDM of the concerned Sub-Division	Deputy Commissioner of the Concerned District				
5.	Revenue	Attestation of uncontested mutations	30 days	Circle Revenue Officer	SDM of the concerned Sub-Division	Deputy Commissioner of the Concerned District				
6.	Revenue	Private Partition of Land (Mutual Consent of landowners)	60 days	Circle Revenue Officer	SDM of the concerned Sub-Division	Deputy Commissioner of the Concerned District				
7.	Revenue	Issue of Income Certificate	15 days	Tehsildar of the concerned Sub-Division	SDM of the concerned Sub-Division	Deputy Commissioner of the				

						Concerned District
8.	Revenue	Area/Succession/ Dependent Certificate/ Counter Signature etc.	15 days	Tehsildar of the concerned Sub-Division	SDM of the concerned Sub-Division	Deputy Commissioner of the Concerned District
9.	Revenue	Mortgage 1 st Charge	15 days	Tehsildar of the concerned Sub-Division	SDM of the concerned Sub-Division	Deputy Commissioner of the Concerned District
10,	Revenue	Registration of Lease Deed/Conveyance Deed	1 day	Tehsildar of the concerned Sub-Division	SDM of the concerned Sub-Division	Deputy Commissioner of the Concerned District
11:	Revenue	Conversion from lease to Free Hold	30 days	Tehsildar of the concerned Sub-Division	SDM of the concerned Sub-Division	Deputy Commissioner of the Concerned District
12.	Revenue	Schedule Caste Certificate	7 days	Tehsildar of the concerned Sub-Division	SDM of the concerned Sub-Division	Deputy Commissioner of the Concerned District
13.	Revenue	Backward Class Certificate	7 days	Tehsildar of the concerned Sub-Division	SDM of the concerned Sub-Division	Deputy Commissioner of the Concerned District
14.	Revenue	Other Backward Caste Certificate	7 days	Tehsildar of the concerned Sub-Division	SDM of the concerned Sub-Division	Deputy Commissioner of the Concerned District
15.	Revenue	Special Backward Caste Certificate	7 days	Tehsildar of the concerned Sub-Division	SDM of the concerned Sub-Division	Deputy Commissioner of the Concerned District
16.	Revenue	Tapriwas Certificate	7 days	Tehsildar of the concerned Sub-Division	SDM of the concerned Sub-Division	Deputy Commissioner of the Concerned District
17.	Revenue	Vimukt Jati Certificate	7 days	Tehsildar of the concerned Sub-Division	SDM of the concerned Sub-Division	Deputy Commissioner of the Concerned District
18.	Revenue	Economically Backward General Caste Certificate	7 days	Tehsildar of the concerned Sub-Division	SDM of the concerned Sub-Division	Deputy Commissioner of the Concerned District
19.	Revenue	Resident Certificate	7 days	Tehsildar of the concerned Sub-Division	SDM of the concerned Sub-Division	Deputy Commissioner of the Concerned District
20.	Revenue	Rural Area Certificate	7 days	Tehsildar of the concerned Sub-Division	SDM of the concerned Sub-Division	Deputy Commissioner of the Concerned District
21.	Food and Drugs Administra tion	Grant/renewal drugs Manufacturing License	45 days	State Drugs Controller	Commissioner Food and Drugs Administration	Addl. Chief Secretary, Health
22.	Food and Drugs Administra tion	Issue of License for Manufacturing Bulk Drugs/ formulations	15 days	State Drug Controller	Commissioner Food and Drugs Administration	Addl. Chief Secretary, Health
23.	Health	Certified Copies of Birth/Death Certificate - Rural Areas(already registered) For current year	14 days	Registrar (Birth & Death) of concerned	District Registrar Births & Deaths-cum Civil Surgeon of the	Deputy Commissioner of the Concerned District

				Civil Surgeon (Birth & Death of the Concerned District).	District.	
24.	Health/Ur ban Local Bodies	Registration of Death & Birth certificate (After one year of event) after submission of complete application.	60 days (20 days each for Registrar, District Registrar, and Sub-Division Magistrate (SDM).	Concerned Registrar/Distr ict Registrar	Sub-Divisional Magistrate/Ad ditional Deputy Commissioner (General)	Deputy Commissioner of the concerned District
25.	Health /Urban Local Bodies	Birth and Death Certificate (Name Entry & certified copies of New Birth Certificate)	30 days	Concerned Local/ Addl. District Registrar cum Deputy Civil Surgeon as applicable	District Registrar (Birth & Deaths)-cum- Civil Surgeon of the concerned District.	Deputy Commissioner of the concerned District
26.	Health	Correction of entry in Birth and Death Certificate after submission of complete application	30 Days.	Concerned Local/ District Registrar as applicable	District Registrar (Birth & Deaths of the concerned District.	Deputy Commissioner of the concerned District
27.	Urban Local Bodies	(i) Certified Copies of already registered Birth/Death Certificates - Corporation Cities For current year For previous years	14 days 30 days	Local Registrar (Birth & Death) of the Concerned Municipal Corporation	Executive Officer of the Concerned Municipal Corporation	Deputy Commissioner of the Concerned District
		(ii) Certified Copies of already registered Birth/Death Certificates – MC Town For current year For previous years	7 days	Local Registrar (Birth & Death) of the Concerned Municipal Committees	SDM of the concerned Sub- Division	Deputy Commissioner of the Concerned District
28.	Urban Local Bodies	Water Supply & Sewerage Connection (Applicable in Municipal Corporation, Gurgaon & Faridabad only)	7 days	Assistant Engineer in Concerned Municipal Corporation	Executive Engineer in concerned Municipal Corporation	Superintendin g Engineer/Chie f Engineer in concerned Municipal Corporation
29.	Urban Local Bodies	Issue of conveyance deed in Municipal Corporation, Municipal Councils and Municipal Committees	15 days	Zonal taxation Officer in Municipal Corporation Executive Officer in concerned Municipal Council and Secretary in concerned Municipal Committees	Executive Officer/Deputy Municipal Commissioner in Municipal Corporation, Sub Divisional Magistrate of concerned Sub Division in case of Councils and Committees	Joint Commissioner in case of Corporation, Deputy Commissioner of Concerned District of case of Councils and Committees
30.	Urban Local Bodies	Issue of new trade license by Municipal Corporation	15 days	Zonal taxation Officer in Municipal Corporation	Executive Officer/Deputy Municipal Commissioner in Municipal Corporation,	Joint Commissioner in case of Corporation,
31.	Urban Local Bodies	Renewal of trade license by municipal corporations	12 days	Zonal taxation Officer in Municipal Corporation	Executive Officer/Deputy Municipal Commissioner in Municipal Corporation,	Joint Commissioner in case of Corporation,
32.	Urban Local Bodies	Removal of solid waste from streets/Roads	2 days	Chief Sanitary Inspector in Municipal Corporation Chief Sanitary Inspector in concerned Municipal Councils and sanitary	Executive Officer/Deputy Municipal Commissioner in case of Corporation Cities, Executive Officer in case Municipal	Joint Commissioner in case Corporation city, Sub Division Officer of Concerned Sub Division in case of Municipal

				Inspector in concerned Municipal Committee	Council and Secretary in case of Municipal committee	Towns
33.	Urban Local Bodies	Replacement of street lights	10 days.	Assistant Engineer in Corporation Cities, Junior Engineer concerned Municipal Council and Committees	Executive Engineer in case of Corporation Cities, Municipal Engineer in concerned Municipal Councils and Committees	Superintendin g Engineer/ Chief Engineer in case of Corporation city, Sub Division Officer of concerned sub division in concerned Municipal Councils and Committee
34.	Urban Local Bodies	Water leakages/ sewerage blocked/over flow (In case of Municipal Corporation, Gurgaon and Faridabad	2 days	Assistant Engineer in Corporation Cities in Municipal Corporation Faridabad or Gurgaon concerned	Executive Engineer in case of Municipal Corporation Faridabad and Gurgaon	Superintendin g Engineer/ Chief Engineer in case of Municipal Corporation Faridabad and Gurgaon
35.	Urban Local Bodies	(i) Sanction of building plans in the original municipal limits for all uses and sizes except commercial/institutional uses for the sites 1000 sq.mtrs and above.	60 days.	Chief Town Planner/ Urban Local Bodies.	Sub Divisional Magistrate of concerned Sub Division in case of Municipal Councils/Committee and Commissioner, Municipal Corporation case of Municipal Corporation	The Deputy Commissioner of concerned District in case of Municipal Council/ Committee and Principal Secretary to Government Haryana, Urban Local Bodies in case of Municipal Corporation
		(ii) Sanction of building plans in the original municipal limits for commercial/institutional uses for the sites 1000 sq. mtrs. To 5000 sq. mtrs.	60 days.	Chief Town Planner/ Urban Local Bodies	Director, Urban Local Bodies Department	Principal Secretary to Govt. Haryana
		(iii) Sanction of building plans in the original municipal limits for commercial/institutional uses for the sites 5000 sq. mtrs. and above.	60 days.	Chief Town Planner/ Urban Local Bodies	Director, Urban Local Bodies Department	Principal Secretary to Govt. Haryana
		(iv) Approval of building plans (up to 5 acres) of permission for change of land use cases in MC Gurgaon and Faridabad.	60 days.	Chief Town Planner, Municipal Corporation Gurgaon/ Faridabad	Commissioner Municipal Corporation Gurgaon/ Faridabad	Principal Secretary to Govt. Haryana,
		(v) Approval of building plans of permission for change of land use cases in Gurgaon & Faridabad for the site more than 5 acres, and in other municipal corporations/ councils/committee	60 days.	Chief Town Planner Urban Local Bodies Department	Director, Urban Local Bodies Department	Principal Secretary to Govt. Haryana
36.	Urban Local Bodies	Change of land use permission for the sites situated within various controlled areas falling with the municipal limits	60 days.	Chief Town Planner, Urban Local Bodies Department	Director, Urban Local Bodies Department	Principal Secretary to Government Haryana
37	Urban Local Bodies	Renewal of Fire NOC	15 days	Fire Station Officer	S.D.O. (C) of the concerned Sub Division in case of	Deputy Commissioner of Concerned District in

					Municipal Committee and Council, Joint Commissioner of the concerned corporation in case of Municipal Corporation.	case of Municipal Committee and Council, Commissioner of the concerned corporation in the case municipal Corporation
3.8	Urban Local Bodies	Issuance of Fire NOC in case of Bridling as per nomenclature of National Building code in case of a) Hostel (A-5) less than 15 meters in height having plot area up to 4000sq. mtr. b) Education Building B) Less than 15 meters in height having plot area up to 8000 square meters. C) Institutional Building (C). i) Hospital, Sanatoria and Nursing homes (C-1) less than 15 meters in height with plot area up to 4000 square meters. ii) Custodial (C-2) and Penal and Plental (C-3) Less than 10 meters in height with plot area up to 4000 square meters. d) Assembly Buildings (D-1 to D-5) Less than 10 meters in height with plot area up to 4000 square meters. e) Mercantile & Business Buildings (E,F-1 &F-2) Less than 15 meters in height with plot area up to 4000 square meters. F) Industrial Buildings (G). i) Low Hazard (G-1) Less than 15 meters in height with plot area up to 4000 square meters. ii) Moderate Hazard (G-2) Less than 15 meters in height but plot area up to 4000 square meters. iii) High Hazard (G-3) Less than 15 meters in height but plot area up to 4000 square meters. iii) High Hazard (G-3) Less than 15 meters in height but plot area up to 4000 square meters. iii) High Hazard (G-3) Less than 15 meters in height but plot area up to 4000 square meters. iii) High Hazard (G-3) Less than 15 meters in height but plot area up to 4000 square meters.	60 days.	Fire Station Officer	S.D.O. (C) of the concerned Sub Division in case of Municipal Committee and Council, Joint Commissioner of the concerned corporation in case of Municipal Corporation.	Deputy Commissioner of Concerned District in case of Municipal Committee and Council, Commissioner of the concerned corporation in the case municipal Corporation.
39	Urban Local Bodies	to 4000 square meters. Issuance of Fire NOC in case of Buildings as per nomenclature of National Building code in case of a) Residential Buildings (A) (i) Dormitories (A-3) and Apartment Houses (A-4) 15 meters and above but not exceeding 35 meters in height. (ii) Hostel (A-5) height less than 15 meters	60 days.	Fire Station Officer	Deputy Commissioner of Concerned District in case of Municipal Committee and Council, Commissioner of the concerned corporation in the case municipal Corporation	Addl. Chief Secretary Urban Development Department in case of Municipal Corporation whereas Director, Urban Local Bodies in case of Municipal Councils and

	*	having plot area more than 4000sq. meters but less 8000 square meters. b) Education Building (B) height less than 15 meters in height having plot area more than 8000 square meters but less 16000 square meters. c) Institutional Buildings (C) i) Hospital, Sanatoria and Nursing homes (C-1) less than 15 meters in height but plot area above 4000 square meters but but less 8000 square meters. ii) Custodial (C-2) and Penal and Plental (C-3) Less than 10 meters in height with plot area more than 4000 square meters but less 15000 square meters. d) Assembly Buildings (D-1 to D-5) Less than 10 meters in height with plot area more than 4000 square meters but less 8000 square meters. e) Mercantile & Business Buildings (E,F-1 & F-2) Less than 15 meters in height with plot area above 4000 square meters. F) Industrial Buildings (G). i) Low Hazard (G-1) less than 15 meters in height with plot area above 4000 square meters but less 8000 square meters. ii) Moderate Hazard (G-2) Less than 15 meters in height with plot area above 4000 square meters but less 8000 square m				Committees
		meters but less 8000 square meters. g) Storage Buildings (H) Below 15 meters in height with plot area above 4000 square meters but less than 8000 square meters.				
40	Urban Local Bodies	Issuance of Fire NOC in case of Building as per nomenclature of National Building code in case of buildings not covered at Sr. No. 38& 39	60 days.	Fire Station Officer	Director Urban Local Bodies	Addl. Chief Secretary Urban Development Department.
41	Urban Local Bodies	Approval and renewal of fire fighting scheme in case of Building as per nomenclature of National Building code in case of (a) Hostel (A-5) less than 15 meters in height	60 days.	Fire Station Officer	S.D.O. (C) of the concerned Sub Division in case of Municipal Committee and Council, Joint	Deputy Commissioner of Concerned District in case of Municipal Committee and Council,

			<u></u>	41	<u> </u>	
		having plot area up to 4000 square meters. b) Education Building (B) height less than 15 meters in height having plot area more than 8000 square meters. c) Industrial Buildings (C). i) Hospital, Sanatoria and Nursing homes (C-1) less than 15 meters in height with plot area above 4000 square meters. ii) Custodial (C-2) and Penal and Plental (C-3) Less than 10 meters in height with plot area up to 4000 square meters. d) Assembly Buildings (D-1 to D-5) Less than 10 meters in height with plot area up to 4000 square meters. e) Mercantile & Business Buildings (E,F-1 & F-2) Less than 15 meters in height with plot area up to 4000 square meters. F) Industrial Buildings (G). i) Low Hazard (G-1) less than 15 meters in height with plot area up to 4000 square meters. ii) Moderate Hazard (G-2) Less than 15 meters in height but plot area up to 4000 square meters. iii) Moderate Hazard (G-3) Less than 15 meters in height but plot area up to 4000 square meters. iii) High Hazard (G-3) Less than 15 meters in height but plot area up to 4000 square meters. iii) High Hazard (G-3) Less than 15 meters in height but plot area up to 4000 square meters. g) Storage Buildings (H) Below 15 meters in height and plot area up			Commissioner of the concerned corporation in case of Municipal Corporation	Commissioner of the concerned corporation in the case municipal Corporation.
42	Urban Local Bodies	to 4000 square meters. Approval and renewal of fire fighting scheme in case of Building as per nomenclature of National Building code in case of a) Residential Buildings (A) (i) Dormitories (A-3) and Apartment Houses (A-4) 15 meters and above but not exceeding 35 meters in height. (ii) Hostel (A-5) height less than 15 meters having plot area more than 4000sq. meters but less 8000 square meters. b) Education Building (B) height less than 15 meters but less 16000 square meters c) Institutional Buildings (C) i) Hospital, Sanatoria and Nursing homes (C-1) less than 15 meters in	60 days.	Fire Station Officer	Deputy Commissioner of Concerned District in case of Municipal Committee and Council, Commissioner of the concerned corporation in the case municipal Corporation	Addl. Chief Secretary Urban Development Department in case of Municipal Corporation whereas Director, Urban Local Bodies in case of Municipal Councils and Committees.

!		height but plot area above 4000 square meters but but less 8000 square meters. ii) Custodial (C-2) and Penal and Plental (C-3) Less than 10 meters in height with plot area more than 4000 square meters but less 15000 square meters. d) Assembly Buildings (D-1 to D-5) Less than 10 meters in height with plot area more than 4000 square meters but less 8000 square meters. e) Mercantile & Business Buildings (E,F-1 & F-2) Less than 15 meters in height with plot area above 4000 square meters. F) Industrial Buildings (G). i) Low Hazard (G-1) less than 15 meters in height with plot area above 4000 square meters. ii) Moderate Hazard (G-2) Less than 15 meters in height with plot area above 4000 square meters but less 8000 square meters. iii) Moderate Hazard (G-2) Less than 15 meters in height with plot area above 4000 square meters but less 8000 square meters. iii) High Hazard (G-3) Less than 15 meters in height with plot area above 4000 square meters. iii) High Hazard (G-3) Less than 15 meters in height with plot area above 4000 square meters. g) Storage Buildings (H) Below 15 meters in height with plot area above 4000 square meters but less 8000 square meters but less than 8000 square meters but less than 8000 square meters.				
43	Urban Local Bodies	Approval and renewal of fire fighting scheme in case of Building as per nomenclature of National Building code in case of not covered at sr. no. 41 & 42.	60 days.	Fire Station Officer	Director, Urban Local Bodies	Addl. Chief Secretary Urban Development
44	Urban Local Bodies	Change of owner/occupier in Property Tax Register (Except in death case)	15 days	Secretary/E.O /Zonal Taxation Officer in concerned Municipal Committee/ Council/ Corporation	S.D.O. (C) of the concerned Sub Division in case of Municipal Committee and Council, Joint Commissioner of the concerned corporation in case of Municipal Corporation.	Deputy Commissioner of Concerned District in case of Municipal Committee and Council, Commissioner of the concerned corporation in the case municipal Corporation.
45	Urban Local Bodies	Change of owner/occupier in Property Tax Register in death case	45 days	Secretary/E.O /Zonal Taxation Officer in concerned Municipal Committee/ Council/	S.D.O. (C) of the concerned Sub Division in case of Municipal Committee and Council, Joint	Deputy Commissioner of Concerned District in case of Municipal Committee and Council,

				Corporation	Commissioner of the concerned corporation in case of Municipal Corporation.	Commissioner of the concerned corporation in the case municipal Corporation.
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48	Public Health Engg.	(i) Sanction of water supply connection in the Rural and Urban areas.	12 days	Concerned SDE of PHED	Concerned EE of PHED	Concerned SE of PHED
		(ii) Sanction of sewerage connection in Cities and MC Towns	12 days	SDE of PHED	Concerned EE of PHED	Concerned SE of PHED
49	Public Health Engg.	(i) Water Leakage/ Over Flow pipes	3 days	Concerned SDE of PHED	Concerned EE of PHED	Concerned SE of PHED
	188	(ii) Sewerage/ Blocked/ Over flow of Manholes.	7 days	Concerned SDE of PHED	Concerned EE of PHED	Concerned SE of PHED
		(iii). Restoration of Water Supply due to minor problems i.e. fault in pumping machinery, electric wiring, distribution systems etc.	3 days	Concerned SDE of PHED	Concerned EE of PHED	Concerned SE of PHED
		(iv). Restoration of Water Supply due to major problems i.e. shortage of raw water, burning of transformer and fault in LT/HT lines etc.	6 days.	Concerned SDE of PHED	Concerned EE of PHED	Concerned SE of PHED
		(v). Restoration of Water Supply due to major problems i.e. burning of transformer, other major electric fault etc. to rectified/repaired by PHED.	10 days	Concerned SDE of PHED	Concerned EE of PHED	Concerned SE of PHED
50	Power	Normal fuse off call In cities and town	4 hours	Concerned Lineman/ Complaint center in charge of the shift	JE [In charge]	SDO[OP]
		In rural area	16 hours	Concerned Lineman/ Complaint center in charge of the shift	JE [In charge]	SDO[OP]
51	Power	Overhead line breakdowns In Cities and Town	8 hours	JE [In charge]	SDO[OP]	XEN[OP]
		In Rural area	16 hours	JE [In charge]	SDO[OP]	XEN[OP]
52	Power	Overhead line breakdowns due to breakage of poles. In Cities and Towns	75 7	JE [In charge]	SDO[OP]	XEN[OP]
		In Rural Area-	12 hours 24 hours	JE [In charge]	SDO[OP]	XEN[OP]
53	Power	Underground cables breakdown	72 9	JE [In charge]	SDO[OP]	XEN[OP]
		In Cities & towns In Rural Area	48 hours 48 hours	JE [In charge]	SDO[OP]	XEN[OP]

54	Power	Distribution Transformer failure In Cities and Towns	24 hours	JE (In charge)	SDO[OP]	XEN[OP]
		In Rural Area	48 hours	JE [In charge]	SDO[OP]	XEN[OP]
55	Power	Major Power failure involving power transformer/equipment	7 days	XEN/ Construction	SE[OP]	CE[OP]
		Alternate arrangement to restore the supply in the affected area	24 hours.			
56	Power	Period of Schedule outage a) Maximum duration in	Not to exceed 8 hours in any day	JE [In charge]	SDO[OP]	XEN[OP]
		a single stretch	1000000			
		b) Restoration of supply	By 6 PM on any day	JE (In charge)	SDO[OP]	XEN[OP]
57	Power	Voltage Fluctuation with no expansion/		JE [In charge]	SDO[OP]	XEN[OP]
		enhancement of network involved		JE (In charge)	SDO[OP]	XEN[OP]
		In Cities and Towns	4 hours			
58	Power	In Rural Area- Meter Complaints	8 hours	JE (In	SDO[OP]	XEN[OP]
		(i)Inspect and check correctness after receipt of meter testing fee	7 days	charge]		3.74
		(ii)Replace slow/ fast meters/ Creeping/ stuck/ defective	Within 7 days of its being established on checking	JE [In charge]	SDO[OP]	XEN[OP]
		iii)Replace burnt meters if cause not attributable to consumer.	7 days	JE [In charge]	SDO[OP]	XEN[OP]
		(iv)Replace burnt meters in all other cases after payment of charges	24 hours	JE [In charge]	SDO[OP]	XEN[OP]
59	Power	Release of new connection/ additional load/ demand	30 days	SDO [OP]	XEN [OP]	SE [OP]
		[a] Release of connection where service is feasible from existing network	30 days	SDO [OP]	XEN [OP]	SE [OP]
		[b] Release of connection where network expansion/enhancement required for providing connection[Except Agricultural]	,	SDO [OP]	XEN [OP]	SE [OP]
		(i) For LT Connections	30 days			62010.07.09455-17-
		(ii) For 11 KV Connections	71 days	SDO [OP]	XEN [OP]	SE [OP]
		(iii) For 33 KV Connections	90 days	XEN [OP]	SE [OP]	CE [OP]
		(iv) Above 33 KV level connections	90 days	XEN [OP]	SE [OP]	CE [OP]
60	Power	Transfer of title and conversion of services				
		a) Transfer of title and /or change of category	7 days	SDO [OP]	XEN [OP]	SE [OP]

		b) Conversion of LT single phase to LT three phase or vice-versa- from the date of payment charges	30 days	JE [In charge]	SDO[OP]	XEN[OP]
		c) Conversion of LT to HT or vice-versa- after payment of charges	30 days	JE [In charge]	SDO[OP]	XEN[OP]
	de la companya de la	d) Conversion of HT to EHT or vice-versa -after payment of charges	30 days	JE [In charge]	SDO[OP]	XEN[OP]
61	Power	Shifting of meter/service connection and other services		JE [In	SDO (OP)	XEN (OP)
		(i) Shifting of meter/ service connection (ii) Shifting of LT/HT	15 days 45 days	charge]	XEN (OP)	SE (OP)
		lines up to 11 KV (iii) Shifting of HT Line	45 days	(Operations) SDO	XEN (OP)	SE (OP)
		exceeding 11KV (iv) Shifting of	60 days	(Operations)	XEN (OP)	SE (OP)
60	Power	Transformer : Complaint about		(Operations)		NEW TOWN
62	Fower	complaint about consumer bills and restoration of supply Resolution of complaints on disputed electricity bills. If no additional information is required	24 hours	Assistant (CA)	SDO (OP)	XEN (OP)
		If additional information is required	7 days	Commercial Assistant (CA)	SDO (OP)	XEN (OP)
63	Power	Reconnection of supply following disconnection due to non-payment of bills-		JE [In charge]	SDO (OP)	XEN (OP)
		Cities and Towns –after receipt of payment from consumer	6 hours			W. Olive and W. Storenson
		Rural area -after receipt of payment from consumer	12 hours	JE [In charge]	SDO (OP)	XEN (OP)
64	Transport	(i) Issuance of Learner Driving License (Sarathi Related Services)	5 days	SDO(C)-cum- RA/RTA of concerned authority	ADC Of concerned District	DC of Concerned District
		(ii) Issuance of Permanent Driving License (Sarathi Related Services)	7 days	SDO(C)-cum- RA/RTA of concerned authority	ADC Of concerned District	DC of Concerned District
		(iii) Renewal of Driving License	37 days	SDO(C)-cum- RA/RTA of concerned authority	ADC Of concerned District	DC of Concerned District
		(iv) Issuance of Duplicate driving license	7 days	SDO(C)-cum- RA/RTA of concerned authority	ADC Of concerned District	DC of Concerned District
		(v) Endorsement of new class in Driving License	7 days	SDO(C)-cum- RA/RTA of concerned authority	ADC Of concerned District	DC of Concerned District
65	Transport	Issuance of Conductor License	7 days	SDO(C)-cum- RA/RTA of concerned authority	ADC Of concerned District	DC of Concerned District
66	Transport	(i) Registration of New Vehicles (VAHAN)	7 days	SDO(C)-cum- RA/RTA of concerned authority	ADC Of concerned District	DC of Concerned District
		(ii) Transfer of ownership	37 days	SDO(C)-cum- RA/RTA of concerned authority	ADC Of concerned District	DC of Concerned District
		(iii) Issuance of NOC	7 Days	SDO(C)-cum- RA/RTA of concerned	ADC Of concerned District	DC of Concerned District

				authority	1	
		(iv) Issuance of duplicate RC	7 days	SDO(C)-cum- RA/RTA of concerned authority	ADC Of concerned District	DC of Concerned District
		(v) Tax Clearance Certificate	7 Days	SDO(C)-cum- RA/RTA of concerned authority	ADC Of concerned District	DC of Concerned District
		(vi) HPA Addition/Deletion	7 days	SDO(C)-cum- RA/RTA of concerned authority	ADC Of concerned District	DC of Concerned District
67	Housing Board	Issue of No Objection Certificate/Duplicate Allotment/Re- allotment Letter	21 Days	Estate Manager of Concerned District	Chief Revenue Officer Housing Board Haryana	Secretary Housing Board Haryana
68	Housing Board	(i) Issue of Conveyance Deed	15 days	Estate Manager of Concerned District	Chief Revenue Officer Housing Board Haryana	Secretary Housing Board Haryana
		(ii) Issue of Conveyance Deed through GPA	45 Days	Estate Manager of Concerned District	Chief Revenue Officer Housing Board Haryana	Secretary Housing Board Haryana
69	Housing Board	Issue of No Due Certificate	30 Days	Estate Manager of Concerned District	Chief Revenue Officer Housing Board Haryana	Secretary Housing Board Haryana
70	Housing Board	Transfer of property in case of sale	15 Days	Estate Manager of Concerned District	Chief Revenue Officer Housing Board Haryana	Secretary Housing Board Haryana
71	Housing Board	Transfer of property in case of death (uncontested)	45 Days	Estate Manager of Concerned District	Chief Revenue Officer Housing Board Haryana	Secretary Housing Board Haryana
72	Housing Board	Issue of permission for mortgage	7 Days	Estate Manager of Concerned District	Chief Revenue Officer Housing Board Haryana	Secretary Housing Board Haryana
73	Housing Board	Attested copy of any document	7 Days	Estate Manager of Concerned District	Chief Revenue Officer Housing Board Haryana	Secretary Housing Board Haryana
74	Housing Board	Change of Ownership (other than Death Cases)	45 days	Estate Manager of Concerned District	Chief Revenue Officer Housing Board Haryana	Secretary Housing Board Haryana
75 76	Housing Board	Demarcation of Plot	21 days	Sub Divisional Engineer	Executive Engineer	Chief Engineer
77 78	Agriculture	Licence of Seeds	24	Deputy Director Agriculture	Joint Director (Administra	Director Agriculture
79	Agriculture	Licence of pesticides	24	Deputy Director Agriculture	Joint Director (Administra	Director Agriculture

80	Agriculture	Acknowledgement of	24	Deputy Director	Joint	Director
	2	Receipt/authorization letter of fertilizers		Agriculture	Director (Administra tion)	Agriculture
81	Agriculture	Renewal of licence of seeds	24	Deputy Director Agriculture	Joint Director (Administra tion)	Director Agriculture
82	Agriculture	Renewal of acknowledgement of Receipt/authorization letter of fertilizers	24	Deputy Director Agriculture	Joint Director (Administra tion)	Director Agriculture
83	Agriculture	Duplicate licence of seeds	24	Deputy Director Agriculture	Joint Director (Administra tion)	Director Agriculture
84	Agriculture	Duplicate licence of pesticides	24	Deputy Director Agriculture	Joint Director (Administra tion)	Director Agriculture
85	Agriculture	Duplicate acknowledgement of Receipt/authorization letter of fertilizers	24	Deputy Director Agriculture	Joint Director (Administra	Director Agriculture
86	HSAMB	Issue of NOC/ Duplicate Allotment/ Re-allotment	30 days	Concerned Secretary-cum- Executive Officer.	DMEO	ZMEO
87	HSAMB	Issue of Conveyance Deed	30 days	Concerned Secretary-cum- Executive Officer.	DMEO	ZMEO
88	HSAMB	Issue of No dues Certificate	15 days	Concerned Secretary-cum- Executive Officer.	DMEO	ZMEO
89	HSAMB	Re-transfer of property in case of sale	30 days	Concerned Secretary-cum- Executive Officer.	DMEO	ZMEO
90	HSAMB	Re-transfer of property in case of sale (Uncontested Death)	60 days	Concerned Secretary-cum- Executive Officer.	DMEO	ZMEO
91	HSAMB	Issue of J form to the farmers	1 day	Mandi Supervisor or Assistant Secretary	Concerned Secretary- cum- Executive Officer.	DMEO
92	НЅАМВ	Providing financial aid (ex-gratia) to cultivators for any injury or death during farming operations. i)In case of death- after obtaining viscera report ii) In case of injury	30 days	Concerned Secretary-cum- Executive Officer.	DMEO	ZMEO
93	HSAMB	Issue of NOC for Mortgage	15 daýs	Concerned Secretary-cum- Executive Officer.	DMEO	ZMEO
94	Industries & Commerce	Issuing of Entrepreneurs Memorandum Part-I acknowledgement under MSMED Act 2006.	3 days	Joint Director/Deputy Director	Additional Director, Industries	Director Industries & Commerce
95	Industries & Commerc e	Issuing of Entrepreneurs Memorandum Part-II acknowledgement under MSMED Act, 2006	3 days	Joint Director/Deputy Director	Additional Director, Industries	Director Industries & Commerce
96	Industries & Commerce	Boiler Registration under the Indian Boiler Act, 1923	10 days	Chief Inspector of Boilers	Additional Director Industries	Director Industries & Commerce
97	Industries Commerce	Renewal of Boiler Registration under the Indian Boiler Act 1923	07 days	Chief Inspector of Boilers	Additional Director, Industries	Director Industries & Commerce
98	Industries & Commerce	Approval for modification, alteration, repair of boiler under	07 days	Chief Inspector of Boilers	Additional Director, Industries	Director Industries & Commerce

		Indian Boiler Act, 1923				
99	Industries & Commerce	Provisional License for processing under Lubricating Oils and Greases (Processing Supply and Distribution Regulation) Order, 1987.	20 days	Additional Director	Director Industries & Commerce	Principal Secretary, Industries & Commerce
100	Industries & Commerce	Provisional License for Trading under Lubricating Oils and Greases (Processing Supply and Distribution Regulation) order, 1987.	20 days	Additional Director	Director Industries & Commerce	Principal Secretary, Industries & Commerce
101	Industries & Commerc e	License for processing under Lubricating Oils and Greases (Processing Supply and Distribution Regulation Order, 1987	20 days	Additional Director	Director Industries & Commerce	Principal Secretary, Industries & Commerce
102	Industries & Commerce	License for Trading under Lubricating Oils and Greases (Processing Supply and Distribution Regulation) order, 1987.	20 days	Additional Director	Director Industries & Commerce	Principal Secretary, Industries & Commerce
103	Industries & Commerce	Renewal of License for processing under Lubrication Oils and Greases (Processing Supply and Distribution Order 1987	20 days	Additional Director	Director Industries & Commerce	Principal Secretary, Industries & Commerce
104	Industries & Commerce	Renewal of License for Trading under Lubrication Oils and Greases (Processing Supply and Distribution Order 1987	20 days	Additional Director	Director Industries & Commerce	Principal Secretary, Industries & Commerce
105	Industries & Commerce	Registration of Firms under Indian Partnership Act. 1932.	03 days	District Registrar, Firms and Societies	State Registrar, Firms & Societies	Registrar General, Firms & Societies
106	Industries & Commerce	Approval for change in partners under Indian Partnership Act. 1932.	03 days	District Registrar, Firms and Societies	State Registrar, Firms & Societies	Registrar General, Firms & Societies
107	Industries & Commerce	Approval for change of Registered Office under Indian Partnership Act. 1932.	03 days	District Registrar, Firms and Societies	State Registrar, Firms & Societies	Registrar General, Firms & Societies
108	Industries & Commerce	Registration of Societies under the Haryana Registration and Regulations of Societies Act. 2012	07 days	District Registrar, Firms and Societies	State Registrar, Firms & Societies	Registrar General, Firms & Societies
109	Industries & Commerce	Name Approval of Societies under the Haryana Registration and Regulations of Societies Act. 12012	03 days	District Registrar, Firms and Societies	State Registrar, Firms & Societies	Registrar General, Firms & Societies
110	Industries & Commerce	Approval of Governing body under the Haryana Registration and Regulations of Societies Act. 2012	15 days	District Registrar, Firms and Societies	State Registrar, Firms & Societies	Registrar General, Firms & Societies
111	Industries & Commerce	Approval for change in name/Registered office of society under the Haryana Registration and Regulations of Societies Act. 2012	07 days	District Registrar, Firms and Societies	State Registrar, Firms & Societies	Registrar General, Firms & Societies
112	Industries & Commerce	Approval for amendments in bye- laws of society under the Haryana Registration and Regulations of Societies Act. 2012	60 days	District Registrar, Firms and Societies	State Registrar, Firms & Societies	Registrar General, Firms & Societies
113	HSIIDC	Sanction of Building	15 days	DTP/STP	СТР	MD

		plans/ revised building plans (Industrial/Residential)		concerned		
114	HSIIDC	Sanction of Building plans/ revised building plans (Commercial)	30 days	DTP/STP concerned	CTP	MD
115	HSIIDC	Issue of completion/ occupation certificate for buildings	15 days	DTP/STP concerned	СТР	MD
116	HSIIDC	Issue of No Objection Certificate/Duplicate Allotment/Re-allotment letter	20 days	Estate Manager	HOD/ (Estate)	MD
117	HSIIDC	Issue of conveyance	15 days	Estate Manager	HOD/ (Estate)	MD
118	HSIIDC	Issue of No due certificate	15 days	Estate Manager	HOD/ (Estate)	MD
119	HSIIDC	Transfer of plots in cases of sale etc.	30 days	Estate Manager	HOD/ (Estate)	MD
120	HSIIDC	Transfer of plots (uncontested)	45 days	Estate Manager	HOD/ (Estate)	MD
121	HSIIDC	Issue of permission for mortgage	30 days	Estate Manager	HOD/ (Estate)	MD
122	HSIIDC	Attested copy of any document	3 days	Estate Manager	HOD/ (Estate)	MD .
123	HSIIDC	Change of ownership (other than death cases)	30 days	Estate Manager	HOD/ (Estate)	MD
124	HSIIDC	Demarcation of plots	05 days	STP/DTP	CTP	MD
125	HSIIDC	Issue of Plinth level certificate	07 days	DTP/STP	СТР	MD
126	HSIIDC	Water and Sewerage Connection	15 Days	DGM/AGM Industrial. Estate	HOD(Estat	MD, HSIIDC
127	HSIIDC	Allotment of Land/Shed in IE/IDA	60 Days	DGM/Addl. GM(Industrial Estate)	GM. HSIIDC	MD, HSIIDC
128	Food and Supplies	(i) Issue of New Ration Card on receipt of D-I form i.e. Application Form for all Categories	22 Days	Inspector Incharge/ AFSO	District Food & Supplies Controller	Deputy Commissioner
		(ii) Issuance of new ration card on receipt of surrender Certificate	15 days	Inspector Incharge/ AFSO	District Food & Supplies Controller	Deputy Commissioner
		(iii) Issuance of duplicate ration card.	15 days	Inspector Incharge/ AFSO	District Food & Supplies Controller	Deputy Commissioner
		(iv) Inclusion/ Deletion of family member	15 days	Inspector Incharge/ AFSO	District Food & Supplies Controller	Deputy Commissioner
		(v) Change of address within same jurisdiction	15 days	Inspector Incharge/ AFSO	District Food & Supplies Controller	Deputy Commissioner
		(vi) Change of address including change of FPS	15 days	Inspector Incharge/ AFSO	District Food & Supplies Controller	Deputy Commissioner
		(vii) Issuance of surrender certificate /Ration Card/Member Migration/ Ration Card Transfer Application/Surrender of Ration Card Application Form	7 days	Inspector Incharge/ AFSO	District Food & Supplies Controller	Deputy Commissione
		(viii) Ration Card Data Correction and Household Head modification	7 days	Inspector Incharge/ AFSO	District Food & Supplies Controller	Deputy Commissione
129	HUDA	Sanction of Building Plans/ Revised Building Plans	30 days	Estate Officer	Concerned Zonal Administrator, HUDA	Administrator HUDA HQs.
130	HUDA	Issue of Completion/ Occupation Certificates for buildings	30 days	Estate Officer	Concerned Zonal Administrator, HUDA	Administrator HUDA HQs.

131	HUDA	Issue of No objection Certificate(Transfer permission)/ duplicate allotment letter/ re- allotment letter	30 days	Estate Officer	Concerned Zonal Administrator, HUDA	Administrator HUDA HQs.
132	HUDA	Issue of Conveyance deed	20 days	Estate Officer	Concerned Zonal Administrator, HUDA	Administrator HUDA HQs.
133	HUDA	Issue of No due Certificate	10 days	Estate Officer	Concerned Zonal Administrator, HUDA	Administrator HUDA HQs.
134	HUDA	Transfer of property in case of sale	30 days	Estate Officer	Concerned Zonal Administrator,	Administrator HUDA HQs
135	HUDA	Transfer of property in case of death (Uncontested)	45 days	Estate Officer	HUDA Concerned Zonal Administrator, HUDA	Administrator HUDA HQs
136	HUDA	Issue of permission for mortgage	07 days	Estate Officer	Concerned Zonal Administrator, HUDA	Administrator HUDA HQs.
137	HUDA	Attested copy of any documents	05 days	Estate Officer	Concerned Zonal Administrator,	Administrator HUDA HQs.
138	HUDA	Change of ownership (other than death cases)	15 days	Estate Officer	HUDA Concerned Zonal Administrator, HUDA	Administrator HUDA HQs.
139	HUDA	Demarcation of plots	05 days	Estate Officer	Concerned Zonal Administrator,	Administrator HUDA HQs.
140	HUDA	Issue of Plinth (DPC) Certificate	05 days	Estate Officer	HUDA Concerned Zonal Administrator, HUDA	Administrator HUDA HQs
141	HUDA	Water Supply and Sewerage Connection	10 days	Concerned Executive Engineer, HUDA/SDE HUDA.	Concerned Superintende nt Engineer	Superintendent Engineer Headquarters
142	HUDA	Sanction of Water supply and Sewage Connection (industrial)	10 days	Concerned Executive Engineer, HUDA/SDE	Concerned Superintend ent Engineer	Superintendent Engineer Headquarters
143	HUDA	Mortgage 1 st Charge (Industrial)	15 days	Estate Officer	Concerned Zonal Administrat or, HUDA	Administrator HUDA HQs.
144	Town & Country Planning	Change of land use permission for the units situated within various controlled areas of State within final published development plan of the controlled area and conforming zone (except competency of the Govt.)	60 days	Director General, Town & Country Planning	Additional Chief Secretary, Town & Country Planning	
145	Town & Country Planning	NOC for the units falling outside controlled area but within urban areas	30 days	Senior Town Planner	Chief Town Planner	Director General, Town & Country Planning
146	Town & Country Planning	NOC for the units falling outside controlled area and urban area	10 days	District Town Planner	Senior Town Planner	Chief Town Planner
147	Town & Country Planning	i) License for the brick kilns & charcoal kilns under the provisions of the Punjab Scheduled Roads and Controlled Areas Restriction of unregulated Development Act, 1963.	30 days	District Town Planner	Senior Town Planner	Chief Town Planner
		ii) License for stone crusher under the provisions of the Punjab Scheduled Roads and Controlled Areas Restriction of Unregulated Development Act, 1963.	30 days	Senior Town Planner	Chief Town Planner	Director General, Town & Country Planning
		Development Act, 1963.				

	Country Planning	plans of following site/plots which does not involve composition of offence in:		Planner	Town Planner	Planner
		i. Licenced residential plotted colonies. ii. Industrial Plotted colonies iii. CLU granted sites having areas upto 2.00 acres(8093,70Sqm.).				
149	Town & Country Planning	Sanction of building plans of following sites/plots which does not involve composition of offence in: i). Community Sites upto an area measuring 5.00 acres (20234.25 Sqm.) in licenced colonies ii) CLU granted sites having area more than 2.00 acres (8093.70 Sqm.) and upto 5.00 acres(20234.25 Sqm.). iii). Commercial component having site area upto 2.00 acres in residential plotted colony and industrial plotted colony. iv)All the CLU granted Industrial projects.	60 days	Senior Town Planner	Chief Town Planner	Director General, Tow & Country Planning.
150	Town & Country Planning	a)Sanction of building plans of site other than mentioned at Sr.No.148 & 149. b) Sanction of building plans of the CLU	90 days	Chief Town Planner	Director General, Town & Country Planning	Additional Chief Secretary, Town & Country Planning
		granted Industrial sites having area more than 5.00 acres (20234.25Sqm)			2	
151	Town & Country Planning	Issue of occupation certificate for the building mentioned at Sr. No. 148 provided composition of offence is not involved	45 days	Senior Town Planner	Chief Town Planner	Director General, Tow & Country Planning.
152	Town & Country Planning	Issue of occupation certificate for plot area for buildings mentioned at Sr. 149 provided composition of offence is not involved.	60 days	Senior Town Planner	Chief Town Planner	Director General, Tow & Country Planning
153	Town & Country Planning	a)Issue of occupation certificate in cases other than mentioned at Sr. No. 150 & 151 above provided composition of offence is not involved.	90 days	Director General, Town & Country Planning.	Additional Chief Secretary, Town & Country Planning	
pM (pp boots) live		b) Issue of occupation certificate of CLU granted Industrial sites having area more than 5.00 acres (20234.25 Sqm)	60 days			
154	Home	Registration of Marriage under Hindu Marriage Act- from the expiry of 15 days notice period	3 days.	Tehsildar (in Rural Area)	Sub Divisional Magistrate	Deputy Commissione
				Secretary, Municipal Committee (in Urban Area)	Sub Divisional Magistrate	Deputy Commissione

				Deputy/Joint Municipal Commissioner (in Municipal Corporation)	Municipal Commission er	Deputy Commissioner
155	Home	Home a) Renewal of Arms License (if the license is presented before the expiry date and the license issuing district is the same where service has been sought).	15 days	Sub Divisional Magistrate (except Panchkula, Faridabad, Gurgaon& Ambala Districts)	District Magistrate	135315075
				Joint Commissioner of Police (Gurgaon & Faridabad Districts)	Commissioner of Police	53.50 (1887-152.1
				Deputy Commissioner Of Police (Panchkula)	Commissioner of Police	5555574555
	340			Sub Divisional Magistrate (Ambala rural area)	District Magistrate	t d
				Deputy Commissioner Police (Ambala UrbanArea)	Commissioner of Police	
	1 8 0	b) Renewal of Arms License(if presented after every alternative cycle of 6 years, where police verification is necessary)		District Magistrate (except Panchkula, Faridabad Gurgoan & Ambala Districts)	Divisional Commissioner	100020001
				Joint Commissioner of Police (Gurgoan & Faridabad Districts)	Commissioner of Police	Divisional Commissioner
				Deputy Commissioner of Police (Panchkula)	Commissioner r of Police	Divisional Commissioner
				Sub Divisional Magistrate (Ambala Rural area)	District Magistrate	Divisional Commissioner
				Deputy Commissioner of Police(Ambala Urban Area)	Commission er of Police	Divisional Commissioner
156	Home	Addition/Deletion of weapon (if the license issuing district is the same where service has been sought). From the expiry of the mandatory notice period of 45 days as provided under the Arms Act.	07 days.	District Magistrate (except Faridabad, Panchkula, Ambala & Gurgaon Districts)	Divisional Commission er	
		under the Arms Act.		Joint Commissioner of Police (Gurgaon Faridabad Districts)	Commission er of police	Divisional Commissioner
				Deputy Commissioner of Police (Panchkula)	Commission er of Police	Divisional Commissioner
	V			Deputy Commissioner of Police (Ambala Rural Area)	Commission er of Police	Divisional Commissioner

				Deputy Commissioner of Police (Ambala UrbanArea)	Commission er of Police	Divisional Commissioner
157	Home	Extension of purchase period of weapon, (within permissible time period and if the license issuing district is the same where services has been sought).	07 days	District Magistrate (except Panchkula, Ambala, Faridabad & Gurgaon Districts)	Divisional Commission er	
	8			Joint Commissioner of Police (Gurgaon & Faridabad Districts)	Commission er of Police	Divisional Commissioner
				Deputy Commissioner of Police (Panchkula)	Commission er of Police	Divisional Commissioner
				Deputy Commissioner of Police (Ambala Rural Area)	Commission er of Police	Divisional Commissioner
				Deputy Commissioner of Police (Ambala Urban Area)	Commission er of Police	Divisional Commissioner
158	Home	Registration of Foreigners (Arrival and Departure)	Immediate	Assistant Commissioner of Police (Hq.) Ambala & Panchkula Districts	Deputy Commission er of Police Ambala/ Panchkula	Commissioner of Police
				Assistant Commissioner of Police/HQ. Gurgaon & Faridabad Districts Foreigners Registration Officer (FRO)	Deputy Commission er of Police Gurgaon and Faridabad	Commissioner of Police
				Deputy Superintendent of Police (HQ) (except Ambala, Panchkula, Faridabad & Gurgaon Districts)	Superintend ent of police	Range IG
159	Home	Extension of Residential Permit of Foreigners.	05 days	Assistant Commissioner of Police HQ Ambala Urban Area, Panchkula/ Ambala Rural Area	Deputy Commission er of Police	Commissioner of Police
				Assistant Joint Commissioner of Police Gurgaon & Faridabad HQ. Foreigners Registration Officer (FRO)	Deputy Commission er of Police	Commissioner of Police

				Deputy Superintendent of Police HQ (except Ambala, Panchkula, Faridabad & Gurgaon Districts)	Superintend ent of police	Range IG
160	Home	Copy of FIR or DDR.	Immediate/On line	Station House Officer of the concerned Police Station	Deputy Superintend ent of Police/Depu ty Commission er of Police/Joint Commission er of Police	Superintendent of Police/Commis sioner of Police
161	Home	NOC for use of loud speakers (applicable only in case of S.D.M. obtain N.O.C. from the concerned SHO before granting permission).	05 days	Sub Divisional Magistrate (except Ambala, Panchkula, Faridabad & Gurgaon Districts)	District Magistrate/ Deputy Commission er	Divisional Commissioner
				Deputy/ Assistant Commissioner of Police HQ, Ambala & Panchkula Districts Assistant/ Deputy/ Commissioner of Police HQ/Commissioner of Police Faridabad & Gurgaon Districts Foreigners Registration	Commission er of Police Commission er of Police	Divisional Commissioner Divisional Commissioner
162	Home	NOC for Fairs/Melas/Exhibition/ Sport Events etc.	05 days	Officer (FRO) Sub Divisional Magistrate (except, Panchkula, Faridabad & Gurgaon& Ambala Districts)	Deputy Commissioner	Divisional Commissioner
	=		Assistant/ Deputy Commissioner of Police HQ Ambala & Panchkula	Commissioner of Police	Divisional Commissioner	
				Joint/ Assistant Commissioner of Police, Gurgaon & Faridabad HQ.	Commissioner of Police :	Divisional Commissioner
163	Home	Stranger Verification (after receiving the verification from the other District/State of which the stranger is resident)	05 days	Station House Officer of the concerned Police Station	Deputy Superintend ent of Police/Depu ty Commission er of Police	Superintendent of Police/Commis sioner of Police
164	Home	Tenant/Servant Verification (if resident of local area)	05 days	Station House Officer of the concerned Police Station	Deputy Superintend ent of Police/Depu ty Commission er of Police/Joint Commission er of Police	Superintendent of Police/ Commissioner of Police
165	Home	Tenant/Servant Verification if resident of other District/State and after receiving the verification from other District/State)	05 day	Station House Officer of the concerned Police Station	Deputy Superintend ent of Police/Depu ty Commission	Superintendent of Police/ Commissioner of Police

					er of	
					Police/Joint Commission er of Police	
166	Home	Other Verification related services.	30 days	Station House Officer of the concerned Police Station	Deputy Superintendent of Police/ Deputy Commissioner of Police/Joint Commissioner of Police	Superintendent of Police/ Commissioner of Police
167	Home	Copy of untraced report in road accident cases.	90 days	Station House Officer of the concerned Police Station	Deputy Superintendent of Police/Deputy Commissioner of Police/Joint Commissioner of Police	Superintendent of Police/ Commissioner of Police
168	Home	Copy of untraced report in cases pertaining to stolen vehicles.	90 days	Station House Officer of the concerned Police Station	Deputy Superintendent of Police/Deputy Commissioner of Police/Joint Commissioner of Police	Superintendent of Police/ Commissioner of Police
169	Home	Copy of untraced report in theft cases.	60 days	Station House Officer of the concerned Police Station	Deputy Superintend ent of Police/Depu ty Commission er of Police/Joint Commission er of Police	Superintendent of Police/ Commissioner of Police
170	Home	NOC for pre-owned vehicles.	05 days	Station House Officer of the concerned Police Station	Deputy Superintend ent of Police/Depu ty Commission er of Police/Joint Commission er of Police	Superintendent of Police/ Commissioner of Police
171	Home	Service Verification (in case of Resident of Haryana).	10 days	Station House Officer of the concerned Police Station	Deputy Superintende nt of Police/Deput y Commissione r of Police/Joint Commissione r of Police	Superintendent of Police/ Commissioner of Police
172	Home	Character Verification	10 days	Station House Officer of the concerned Police Station	Deputy Superintend ent of Police/Depu ty Commission er of Police/Joint Commission er of Police	Superintendent of Police/ Commissioner of Police
173	Home	Verification for renewal of Arms License.	22 days	Joint Commissioner of Police (Gurgaon & Faridabad Districts)	Commission er of Police	Divisional Commissioner
				DCP (Panchkula & Ambala Districts)	Commission er of Police	Divisional Commissioner

174	Home	NOC for issuance/renewal of License of Arms Dealers.	15 days	Sub Divisional Magistrate/City Magistrate (except Faridabad, Panchkula, Gurgaon & Ambala Districts) Joint Commissioner of Police, Faridabad & Gurgaon Districts, Deputy Commissioner of Police, Ambala & Panchkula Districts) District Magistrate (except Panchkula,	District Magistrate Commission er of Police Commission er of Police Divisional Commission er	Divisional Commissioner Divisional Commissioner Divisional Commissioner
175	Home	Issuance of NOC for setting up of Petrol Pump, Cinema Hall etc.	15 days	Ambala, Faridabad & Gurgaon) District Magistrate, (except Panchkula, Ambala,	Divisional Commissioner	
			Faridabad & Gurgaon Commissioner of Police for Faridabad, Gurgaon, Ambala & Panchkula Districts	Divisional Commissioner	escape and the same and the sam	
176	Home	Passport Verification	21 days	Station House Officer of the concerned Police Station	Deputy Superintendent of Police/Deputy Commissioner of Police/Joint Commissioner of Police	Superintendent of Police/ Commissioner of Police
177	Home	Verification for fresh Arms License	30 days	Deputy Commissioner (except Panchkula Faridabad ,Gurgaon& Ambala Districts)	Divisional Commissioner	******
				Joint Commissioner of Police (Gurgaon & Faridabad Disrticts)	Commissioner of Police	Divisional Commissioner
				Deputy Commissioner of Police (Panchkula)	Commissioner of Police	Divisional Commissioner
				Deputy Commissioner of Police (Ambala Rural Areal)	of Police	Divisional Commissioner
				Deputy Commissioner of Police (Ambala Urban Area)	of Police	Divisional Commissioner
178	Social Justice and Empower ment	Ladli Social Security Allowance Scheme	120 days	District Social Welfare officer of the concerned District	Addl. Deputy Commissioner of the concerned District	Deputy Commissioner of the concerned District
179	Social	Old age Samman	120 days	District Social	Addl.	Deputy

	Justice and Empower ment	allowance (Pension Scheme)		Welfare officer of the concerned District	Deputy Commissioner of the concerned	Commissioner of the concerned District
180	Social Justice and Empower ment	Handicapped Pension	120 days	District Social Welfare officer of the concerned District	District Addl. Deputy Commissioner of the concerned District	Deputy Commissioner of the concerned District
181	Social Justice and Empower ment	Haryana Pension to Widows and destitute Women scheme (Widow Pension)	120 days	District Social Welfare officer of the concerned District	Addl. Deputy Commissioner of the concerned District	Deputy Commissioner of the concerned District
182	Social Justice and Empower ment	Financial Assistance to destitute children scheme	120 days	District Social Welfare officer of the concerned District	Addl. Deputy Commissioner of the concerned District	Deputy Commissioner of the concerned District
183	Social Justice and Empower ment	Financial Assistance to Kashmiri Migrant families Scheme	120 days	District Social Welfare officer of the concerned District	Addl. Deputy Commissioner of the concerned District	Deputy Commissioner of the concerned District
184	Social Justice and Empower ment	Financial Assistance to Non school going disabled children	120 days	District Social Welfare officer of the concerned District	Addl. Deputy Commissioner of the concerned District	Deputy Commissioner of the concerned District
185	Social Justice and Empower ment	Dwarf allowance Scheme	120 days	District Social Welfare officer of the concerned District	Addl. Deputy Commission er of the concerned District	Deputy Commissioner of the concerned District
186	Social Justice and Empower ment	Eunuch allowance Scheme	120 days	District Social Welfare officer of the concerned District	Addl. Deputy Commission er of the concerned District	Deputy Commissioner of the concerned District
187	Science & Technolo gy	Application Form for HSCST Fellowship for doing Ph.D	120 days	Chief Scientific Engineer HSCST	Secretary/E C HSCST	Chairman/EC HSCST
188	Science & Technolo gy	Application Form for promotion of Science Education (POSE) Scholarship for B.Sc.& M.Sc.students-after closing date	120 days	Scientific Engineer (A) SG	Principal Scientist (SG)	Director
189	Labour deptt.	i) Registration of principal employer's establishment and license for contractors under provision of contract labour Act, 1970	26 days	Addl. Labour Commissioner	Labour Commissioner	Principal Secy Labour
		ii) Approvals of plans from Factories Department under Factories Act, 1948	45 days	Addl. Director- cum-Addl. Chief Inspector of Factories, Haryana.	Labour Commissioner r-cum- Chief Inspector of Factories, Haryana	Principal Secy, Labour & Employment, Govt.of Haryana.
		iii) Factories License under Factories Act, 1948	45 days	Addl. Director- cum-Addl. Chief Inspector of Factories, Haryana	Labour Commissioner -cum- Chief Inspector of Factories, Haryana	Principal Secy, Labour & Employment, Govt.of Haryana.
		iv) Shop Registration under Shops and Establishment Act	15 days	Labour Inspector	Assistant Labour Commissioner	Labour Commissioner
190	Forest Deptt.	Permission for felling of trees.	15 days	Divisional Forest Officer(DFO)	Conservator of Forests(CF)	Chief Conservator of Forests (CCF)
191	Forest Deptt	NOC in respect of PLPA or Forest or Restricted lands	15 days	Divisional Forest Officer(DFO)	Conservator of Forests(CF)	Chief Conservator of Forests (CCF)

192	Horticulture Deptt.	Hort Net: Sanction of application upon submission of complete documents	21 days	Dy. Director Horticulture/Natio nal Horticulture Mission (DDH/NHM)	Joint Director	Mission Director
193	Horticulture Deptt.	MINET: Sanction of application upon submission of complete documents	16 days	Dy. Director Horticulture/Micro Irrigation (DDH/MI)	Joint Director	Director General Horticulture
194	Horticulture Deptt	Fruit License: Grant of Nursery Fruit License.	90 days	Dy. Director Horticulture/Proje ct & Nursery (DDH/P&N)	Joint Director	Director General Horticulture
195	Horticulture Deptt.	Polynet: Sanction of application upon submission of complete documents	21 days	Dy. Director Horticulture/Fruit s (DDH/F)	Joint Director	Director General Horticulture
196	Horticulture Deptt.	Seed License: Grant of Nursery Seed License	90 days	Dy. Director Horticulture/Vege table (DDH/V)	Joint Director	Director General Horticulture
197	Fisheries Deptt.	Services for Loan and subsidy for various schemes under FFDA: i) Selection of Pond. ii) Plan & Estimate of Pond. iii) Forwarding bank loan application to Banks. iv) Imparting training for fish culture after receiving application.	10 days 15 days 15 days 30 days	All District Officers, District Fisheries Officer- cum-Chief Executive Officer, Fish Farmer Development Agency and All Fisheries Farm Managers.	All Deputy Director Fisheries (Division Level)	Director Fisheries.
198	Fisheries Deptt.	Services for Loan and subsidy for Development of Water logged Areas. i) Selection of Pond. ii) Plan & Estimate of Pond. iii) Forwarding bank loan application to Banks. iv) Imparting training for fish culture after receiving application.	10 days 15 days 15 days 30 days	All District Officers, District Fisheries Officer- cum-Chief Executive Officer, Fish Farmer Development Agency and All Fisheries Farm Managers.	All Deputy Director Fisheries (Division Level)	Director Fisheries.
199	Fisheries Deptt.	Services for Seed supply from Government Fish Seed farm to Fish Farmers i) Stocking of fish seed.	In the month of Feb./ March/ July/ Aug./ Sept.	All District Officers, District Fisheries Officer- cum-Chief Executive Officer, Fish Farmer Development Agency and All Fisheries Farm Managers.	All Deputy Director Fisheries (Division Level)	Director Fisheries.

D.S. Dhesi, Chief Secretary to Government, Haryana.

GOVERNMENT RENEWABLE ENERGY DEPARTMENT ORDER

Dated 21st March, 2016

No. 22/52/2005-5Power.- In exercise of the powers conferred by section 18 of the Energy Conservation Act, 2001(Central Act 52 of 2001), the Governor of Haryana hereby issues the following directions for efficient use of energy and its conservation in the State of Haryana:

The installation of Solar Photovoltaic Power Plant for the category of buildings/areas mentioned in column 2 as per the capacity mentioned against it under column 3 of the schedule below shall be mandatory:

SCHEDULE

	SCHEDULE	
Sr. No.	Category of building/area	Capacity of Solar Photovoltaic Power plant to be installed
1	2	3
1	All new 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 sanctioned load, whichever is higher
2	All private Educational Institutes, Schools, Colleges, Hostels, Technical/Vocational Education Institutes, Universities etc. having sanctioned load of 30 Kilo Watt (KW) and above	Minimum 5 Kilo Watt peak (KWp) Or 5% of sanctioned load, whichever is higher
3	All Government Buildings and Offices, Government Colleges, District Institute of Education and Training (DIET), Government Educational Institutions, Universities, having sanctioned load of 30 Kilo Watt (KW) and above	Minimum 2 Kilo Watt peak (KWp) Or 5% of sanctioned load, whichever is higher
4	All private Hospitals and Nursing Homes, Industrial Establishments, Commercial Establishments, Malls, Hotels, Motels, Banquet Halls and Tourism Complexes, having sanctioned load (i) of 50 Kilo Watt (KW) to 1000 Kilo Watt (KW); (ii) above 1000 Kilo Watt (KW)	(i) Minimum 10 Kilo Watt peak (KWp) or 5% of connected load, whichever is higher; (ii) Minimum 50 Kilo Watt peak (KWp) or 3% of sanctioned 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;	(i) Minimum 10 Kilo Watt peak (KWp) (ii) Minimum 20 Kilo Watt peak (KWp) (iii) Minimum 30 Kilo Watt peak (KWp)
	(iv) More than 5.0 Acres.	(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

- This order supersede the order notified vide No. 22/52/2005-5 Power dated 3rd September, 2014.
- (ii) The Departments of Town and Country Planning, HUDA, Urban Local Bodies, Haryana State Industrial and Infrastructure Development Corporation (HSIIDC), Industries and Commerce shall incorporate a relevant provision in this regard in their rules, within three months from the date of issue of notification, to make use of Solar Photovoltaic Power Plants mandatory. They shall also define the penal action, procedure, mentioning the amount of penalty, for not complying with the provisions of this notification as per their departmental rules.
- (iii) Departments of Public Works (Buildings and Roads), Haryana State Roads & Bridges Development Corporation, Public Health, Education (all departments and Mission mode projects), Health(all departments and Mission mode projects), Social Justice and Empowerment, Red Cross Societies, Architecture, Housing Board, Haryana State Agricultural Marketing Board (HSAMB), Irrigation, Forest, Police Housing Corporation, Tourism, State Universities or any other government building constructed shall implement the mandatory provisions of installation of Solar Photovoltaic Power Generation Plant for the buildings constructed by them.
- (iv) The Renewable Energy Department being a State Designated Agency for implementing Energy Conservation Act in the State shall provide all necessary technical support to the Government Departments/Organizations in preparation of project proposal, cost estimates, installation of Solar Power Plants and in obtaining the Central Financial Assistance(CFA) from Ministry of New and Renewable Energy (MNRE), Government of India (GOI), if available, from the Ministry of New and Renewable Energy, Government of India, from time to time.
- (v) The concerned departments shall designate a District and State level Nodal Officer to monitor and to report the progress of enforcement of the said decision of the State Government, to the Renewable Energy Department, Haryana, on quarterly basis in the formats to be issued by Renewable Energy Department through the office of respective Additional Deputy Commissioner-cum-Chief Project Officer. Based on these reports the Renewable Energy Department will do quality/technical checks. If found not satisfactory then concerned department will take appropriate penal action as mentioned above.
- (vi) The above said organizations/user categories shall ensure the compliance of above mentioned mandatory provisions, within six months from the date of issue of concerned department's new guidelines/notification (as per clause (iii) above), at their own cost, failing which, the penal action may be initiated by the respective departments.

(Note: In case of non-compliance of these orders, the Power Utilities Department shall have the power to disconnect the electricity connections after serving due notice on expiry of the deadline mentioned above. The Executive Engineer (Operation) of the Power Utilities Department shall be the enforcing authority of these orders and they shall send quarterly progress reports in this regard to the Additional Deputy Commissioner of their district who in turn shall submit a compiled quarterly report to the Renewable Energy Department, Haryana (the

State Designated Agency under the Energy Conservation Act, 2001(Central Act 52 of 2001))." However, if the Power Utilities Department fails to comply with the directions of the government, then the responsibility shall also be fixed for non-compliance of the directions.)

- (vii) The systems installed shall strictly comply with the technical specifications prescribed by Ministry of New and Renewable Energy, Government of India/Renewable Energy Department, Haryana/ Haryana Renewable Energy Development Agency (HAREDA). The technical specifications may be downloaded from the website of the Renewable Energy Department www.hareda.gov.in.
- (viii) The user categories of private sector may install the Solar Photovoltaic Power Plants either from the Channel Partners/New Entrepreneurs/ firms empanelled by Ministry of New and Renewable Energy or from the firms empanelled by Renewable Energy Department, Haryana/ Haryana Renewable Energy Development Agency (HAREDA) and for government departments/organizations, Renewable Energy Department, Haryana is the approved source, being State Designated Agency. The list of Channel Partners/New Entrepreneurs/ firms empanelled by MNRE/HAREDA may be downloaded the website of the Renewable Energy Department www.hareda.gov.in.

Note: if any of the category mentioned in the mandate above have more than one complex/unit, then to fulfill their obligation under this notification, they may install the system in one or more complex, within the State, combining the total requirement as per notification.

Ankur Gupta
Principal Secretary to Government Haryana,
Renewable Energy Department.



य प्त. 11: 14, शेवल्टर 4, पंचाकृता, हरियाणा Bay No. 21-14, Sector 4, Fanchkula, Haiyana

Tel.: +91 172 2570020 Pas: +91 172 257002 Website, www.ulbharyane.gov.in; email: dutbhry@hry.nic.in

To

1. All the Commissioners, Municipal Corporations in the State of Haryana.

2. All the Executive Officers / Secretaries of the Municipal Councils/ Committees in the State of Haryana

Memo No: TA II/ DULB/2016/695

Dated: 04-04-2016

Subject:

3.

4.

Transfer of developed sectors to Urban Local Bodies from HUDA.

Hon'ble CM has approved that all the developed sectors as per list attached are to be taken over by concerned municipality. It has been decided by Government that these sectors should be taken over by 30.04.2016.

2. You are requested to take over the developed sectors from HUDA as per list attached after completing all the formalities and preparation of inventory and handing/ taking over notes of all the assets to be taken over from HUDA and duly signed by representative of both the departments.

List of terms and conditions for taking over developed sectors from HUDA is also attached.

Action taken report must be submitted to Head Office for further necessary action please.

DA: As above

for Director, Urban Local Bodies, Panchkula.

Terms and conditions for taking over developed sectors from HUDA to Urban Local Bodies

- That all existing developed sector shall be handed over to the local bodies (MC) for maintenance.
- That maintenance will include maintenance of water supply, Sewerage, storm water, street light, roads, Horticulture services and sanitation service.
- iii. The ownership of the open spaces shall vest with local body (MC). However, ownership of the land reserved for undetermined use and unsold sites of all types i.e. residential, Institutional and commercial etc. shall continue to be with HUDA.
- iv. That staff of HUDA posted and involved in maintenance will be initially sent on deputation to concerned local body (MC). No deputation allowance will be given to the stall who is sent on deputation to local body (MC). Therefore, the staff as mutually decided will be transferred to local body (MC). The service & pay of staff who will merge with local body (MC) will be protected.
- v. That extension fee, transfer fee, other recoveries related to the plots will be recovered by HUDA. However, 75% of the recovery of extension fee, building application fee, composition charges etc. recovered by HUDA shall be remitted to the local body (MC), by 15th of following month and 25% will be retailed by HUDA. The recovery of water and sewerage charges and property taxes etc. will be recovered by local body (MC).
- vi. The vehicles and machineries required for maintenance shall also be transferred to local body (MC).
- vii. The development of essential infrastructure like provision of Slaughter House, Meat market, cremation Ground, transport Nagar, Disposal land fills sites etc. for Solid Waste Management and sewerage treatment plants will be done by HUDA.
- viii. That deficiencies in service as agreed upon mutually between HUDA and local body (MC) will be rectified by HUDA within a period of three months. In case, there are deficiencies in these service then HUDA should either complete the deficiencies or deposit the estimated cost of deficiencies as mutually agreed by HUDA and by local body (MC) before transfer. But HUDA shall be liable for only those services and their maintenance which are accounted for in the price fixation of the sector or EDC of the Urban Estate.
- ix. HUDA shall submit the layout plans of individual sectors proposed for transfer indicating all services/community facilities which were supposed to be provided by HUDA as per original estimates. The local body (MC) shall not have any power to change or after the layout, demarcation and zoning plan etc. under any circumstances. However, in case of exigency, if any, alteration or change is required in the public interest. Local body (MC) shall forward the proposal to HUDA for approval.
- x. The functions concerning sanction of building plans, composition of unauthorized construction and issue of Occupation Certificate is such transferred HUDA sectors shall continue to be with HUDA.

xi. That HUDA shall transfer 50% of profit margin of the receipt of the unsold sites of all types made through sale or auction by HUDA after deducting updated cost (Land cost + Development Cost + Government fee) incurred on these properties .

Developed Sectors to be taken over by various Municipalities

Sr.No	Name of Circle	Urban Estate	Developed Sectors (More than 5 years period) for transfer to MCs	period) for trans	fer to MCs	
			Residential Sector	Industrial	Institutional	Remarks
-1	I- Gurgaon	Gurgaon	5,3,6(P),12A,14,17,21,22,23,23A,30,31, 39,40,41,45,46,51,52 Total=19	18 Total=1	32,44 & 23 Part	9
	II- Gurgaon	Gurgaon	4,7,7 Extn., 7 HBC, 9,9A, 10, 10A, 27,28,42,43,38,47,54,55,56 Total=17	37 P-I, 37 P-II, 33 T/Nagar & 34 EHTP		Market and the second second
			Total= 19+17=36	Total= 5	Total= 3	
<u> </u>	II-Gurgaon	Rewari	1-NMT,3,4			
			Total= 3			
	II-Gurgaon	<u>Dharuhera</u>	4A, 6P-I, 6 P-II	Industrial Area		
			Total= 3	Total= 1		
	II-Gurgaon	Narnau	1(P-I & P-II)			
			Total= 2			
		Kosli	MTS			
			Total= 1			
7	Faridabad	Faridabad	2,3,21-C(P-III),21-D, 30,31,45,46,48	58,59		
			Total= 9	Total= 2		
		Palwal	2			
2			Total= 1			
		Rojka-Meo		Industrial Area Ph-I, II, III		

MEETING OF THE INTER-DEPARTMENTAL TASK FORCE COMMITTEE CONSTITUTED BY THE STATE GOVERNMENT VIDE ITS ORDER DATED 22-7-2015, HELD TO DISCUSS THE DRAFT UPGRADED SMART CITY PROPOSAL PREPARED BY THE CONSULTANTS ENGAGED BY MUNICIPAL CORPORATION, FARIDABAD

Minutes of the Meeting

Meeting Date: 01-4-2016

Time: 10:30 A.M.

Meeting Location: Office of Deputy Commissioner, Faridabad.

Chaired by: Chairman of the Inter-Departmental Task Force, Comittee-cum-Deputy

Commissioner, Faridabad

Memo. No. mcf | SE-I /20/6 / 275

Dated 6/4/16

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

- 1. Commissioner, Municipal Corporation, Faridabad.
- 2. Joint Commissioner of Police, Faridabad
- 3. Administrator, Haryana Urban Development Authority
- 4. Joint Commissioner, MCF
- Senior Town Planner, T&CP Department, Faridabad
- 6. Superintending Engineer, DHBVN, Faridabad
- Superintending Engineer (Smart Grid), DHBVN, Faridabad & Gurgaon
- 8. Superintending Engineer, PWD (B&R), Faridabad
- 9. Superintending Engineer, Public Health, Faridabad
- 10. Superintending Engineer, Irrigation, Faridabad
- 11. Superintending Engineer, HUDA, Faridabad
- Senior Manager of HSIIDC, Faridabad
- District Town Planner, T&CP Department, Faridabad
- 14. GM Roadways, Faridabad
- 15. GM Industries, Faridabad
- 16. District Forest Officer, Faridabad
- 17. Executive Engineer, NHAI, Faridabad
- 18. Executive Engineer, HSAMB Faridabad
- 19. District Mining Officer, Faridabad
- 20. Assistant General Manager, Bharat Sanchar Nigam Ltd, Faridabad
- 21. Haryana Tourism, Faridabad
- 22. District Education Officer, Faridabad
- 23. Regional Director, Delhi Metro Rail Corporation
- Mr. Abhishek Gupta, Director M/s. Ernst & Young LLP
- 25. Mrs. Sushma Chaudhary, Director, Mott MacDonald

for Commissioner Municipal Corporation Faridabad

ATTENDANCE

Sr. No.	Name & Designation	Organization	Present
1.	Sh. Aditya Dahiya	Commissioner, Municipal Corporation Faridabad	Yes
2.	Shri Virender Vij	Deputy Commissioner of Police, Central	Yes
3.	Sh, Amardeep jain	Joint Commissioner (old Faridabad), Municipal Corporation Faridabad	Yes
4.	Ms. Ashima	Joint Commissioner (NIT) Municipal Corporation Faridabad	Yes
5.	Sh. Regan	Joint Commissioner (Ballabgarh), Municipal Corporation Faridabad	Yes
6.	Sh. Rajesh Kumar	Estate officer, Haryana Urban Development Authority	Yes
7.	Shri Anil Kumar	Assistant Commissioner of Police Central	Yes
8.	Sh. N.S Chauhan	Senior Town Planner, Town and Country Planning, Faridabad	Yes
9.	Sh. D.R Bhaskar	Superintending Engineer, Municipal Corporation Faridabad	Yes
10.	Sh. S.K Chhabra	Superintending Engineer, Smart Grid, DHBVN, Gurgaon	Yes
11.	Shri M.L. Tyagi	Superintending Engineer, Haryana Vidyut Prasaran Nigam	Yes
12.	Shri A.K Gulati	Superintending Engineer, Haryana Urban Development Authority	Yes
13.	Sh. Amrik Singh	District Town Planner, Town and Country Planning, Faridabad	Yes
14.	Shri T.K Bhosle	Delhi Metro Rail Corporation	Yes
15.	Shri Sunil Kumar	Delhi Metro Rail Corporation	Yes
16.	Shri Parshoutam Kumar	Manager, Haryana State Industrial and Infrastructure Development Corporation limited	Yes
17.	Shri Anil Chaudhary	Joint Director, District Industries Centre, Faridabad	Yes
18.	Shri Ashwani Gaur	Executive Engineer, Haryana Urban Development Authority	Yes
19.	Shri Rajeev Sharma	Executive Engineer, Haryana Urban Development Authority	Yes
20.	Shri Raman Kumar	Executive Engineer, Municipal corporation Faridabad	Yes
21.	Shri Ram Parkash	Executive Engineer, Municipal corporation Faridabad	Yes
22.	Shri Shyam Singh	Executive Engineer, Municipal corporation Faridabad	Yes

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23.	Shri B.K Ranjan	Executive Engineer, Dakshin Haryana Bijli Vitran Nigam	Yes
24.	Shri Sanjay Simberwal	Assistant Mining Engineer, Mining Department, Faridabad	Yes
25.	Shri Ram kumar phalswal	District Elementary Education Officer, Faridabad	Yes
26.	Shri S.K Verma	Executive Engineer, Public Health and Engineering Department	Yes
27.	Shri B.S. Khokhar	Executive Engineer, Public Work Department (Building &Road)	Yes
28.	Shri Jagbir Singh	General Manager, H.R CBS Faridabad	Yes
29.	Shri Ramesh Chander	District Education Officer, Faridabad	Yes
30.	Shri D.K. Singla	Sub Divisional Engineer, Haryana Urban Development Authority	Yes
31.	Shri Pankaj Prakash	AEE, Haryana Vidyut Prasaran Nigam Limited	Yes
32.	Shri Shiv Kumar Dagar	Sub Divisional Officer, Irrigation	
33.	Mr. Shubham Rathore	Urban Planner, M/s. Mott Macdonalt	Yes
34.	Mr.Kartik, M/s. Ernst & Young LLP Associate Vice President		Yes
35.	Ms. Priyanka	M/s. Ernst & Young LLP	Yes

Meeting Start: 10.30 A.M. Meeting discussions:

At the outset, Commissioner, Municipal Corporation, Faridabad welcomed all present in the meeting and requested the teams of the Consultants, engaged by Municipal Corporation, Faridabad for power point presentation of the up-graded draft Smart City Proposal (SCP). The officers present in the meeting were also requested to look at the presentation and give their suggestions and ideas to make the said SCP more attractive and viable.

The team members of both the Consultants started making the power point presentation and vividly explained about the each and every component having been considered and taken into draft SCP prepared on the basis of data collected through various sources including citizens' engagements and the record available with the different Departments of the city. The main components of the upgraded SCP, amongst others, presented and discussed at length are as below: -

- Vision Statement Making the Faridabad to create economic impact through Transit Orient Development and Smarter Mobility and Urbanism for social and environmental benefits.
- Area Based Development Proposals. For this, an area of 1267 acres of land, attracting the areas of residential, commercial, institutional, industrial, slum

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and urban villages, has been proposed carrying the population of about 37000 based upon the figures of 2011 census. The main components having been taken in the Area Based Development Proposal are:

- a) <u>Smart Mobility</u> Incorporating pedestrianisation and Non Motorized Transport (NMT), Intelligent Traffic Management System - Synchronised traffic signals for optimum traffic flow, Intelligent Car Parking System, Smart Signage, Smart Auto/Taxi Stands, Public bike sharing system.
- b) Smart Civic Infrastructure Decentralized STP's for reuse of wastewater for Badkhal lake revival and Waste Water Recycling, Rain water Harvesting, Leak management, SCADA based monitoring of flow, levels & pressures in the network and Centralized control room, Automated Online water quality Monitoring System, Revamping of sewerage network infrastructure, Provision of Smart toilets and Smart solid waste management, Wifi, Underground cabling, Solar rooftops and LED street lighting.
- c) <u>Smart Urbanism</u> TOD, Weekend Eco Tourism Near Badkhal Lake, Smart Urban Villages, Open air Gyms, Multimodal Hub, provision of basic services in slums.

3. Pan City Solutions

Smart Traffic & Transit Management System having the features of Traffic Management System, Traffic Rule Violation Detection System, Smart Parking Management System, Passenger Information System/Journey Planner, E-vehicle module, Faridabad Traffic & Transit operations & mgmt centre.

After the said power point presentation, various suggestions given by the Chairman and members of the Committee were considered and discussed at length and it was advised to the Consultants to explore the possibility of including the following suggestions in the Proposal:-

- a) Skywalk-ways on PPP Mode having facilities of house keeping, small vending kiosks etc., connected with the Metro/Railway Stations
- b) Pedestrian facility such as footpaths, segregated NMT lanes
- c) Open Air Gyms.
- d) Intensive plantation along the high ways and roads with the objective of pollution reduction and to make Green Faridabad.

With the said additions, the draft upgraded SCP was approved and it was decided that after the inclusion of the said suggestions, the draft upgraded Smart City Proposal may be sent to Government for its approval by the State Level High Powered Steering Committee.

Chairman of the said Committee eum-Deputy Commissioner, Faridabad



MEETING HELD ON 19-04-2016 TO DISCUSS THE DRAFT UPGRADED SMART CITY PROPOSAL PREPARED BY THE CONSULTANTS ENGAGED BY MUNICIPAL CORPORATION, FARIDABAD

Minutes of the Meeting

Meeting Date: 19-4-2016

Time: 12:00 Noon

Meeting Location:

Office of Deputy Commissioner, Faridabad.

Chaired by:

Administrator,

Haryana Urban Development Authority,

Faridabad

Memo. No. 306

Dated 19-4-16

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

- Deputy Commissioner, Faridabad
- Commissioner, Municipal Corporation, Faridabad. 2.
- Joint Commissioner of Police, Faridabad
- Administrator, Haryana Urban Development Authority 4.
- Senior Town Planner, T&CP Department, Faridabad
- Superintending Engineer, DHBVN, Faridabad
- Superintending Engineer (Smart Grid), DHBVN, Faridabad & Gurgaon 7.
- Superintending Engineer, PWD (B&R), Faridabad
- Superintending Engineer, Public Health, Faridabad
- 10. Superintending Engineer, Irrigation, Faridabad
- 11. Superintending Engineer, HUDA, Faridabad
- 12. Senior Manager of HSIIDC, Faridabad
- 13. Joint Director, Industries, Faridabad
- 14. District Forest Officer, Faridabad
- 15. Project Director, NHAI, CMU Mathura Faridabad
- 16. District Mining Officer, Faridabad
- 17. Divisional Manager, Haryana Tourism, Faridabad
- 18. District Education Officer, Faridabad
- 19. Regional Director, Delhi Metro Rail Corporation
- 20. Mr. Abhishek Gupta, Director M/s. Ernst & Young LLP
- 21. Mrs. Sushma Chaudhary, Director, Mott MacDonald
- 22. Sh. A.K. Gupta, Additional Director, Regional Centre for Urban and Evironment Study, Lucknow

for Commissioner Municipal Corporation Faridabad

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ATTENDANCE

Sr. No.	Name & Designation	Organization	Present	
1.	Dr. Aditya Dahiya, IAS	Commissioner, Municipal Corporation Faridabad	Yes	
2.	Sh. D.R Bhaskar	Superintending Engineer, Municipal Corporation Faridabad	Yes	
3.	Sh. A.K Gulati	Superintending Engineer, Haryana Urban Development Authority	Yes	
4.	Sh. Sunil Kumar	Assistant Engineer, Delhi Metro Rail Corporation	Yes	
5.	Sh. B.S. Bhatti	Senior Manager, Haryana State Industrial and Infrastructure Development Corporation limited	Yes	
6.	Sh. U.S. Bhardwaj	Divisional Manager, Haryana Tourism	Yes	
7.	Sh. Anil Chaudhary	Joint Director, District Industries Centre, Faridabad	Yes	
8.	Ms. Renjitha	District Forest Officer, Faridabad	Yes	
9.	Sh. S.K Verma	Executive Engineer, Public Health and Engineering Department	Yes	
10.	B.S. Rawat	Executive Engineer, Irrigation	Yes	
11.	Shri Rajeev Sharma	Executive Engineer, Haryana Urban Development Authority	Yes	
12.	Sh. Suresh Kumar	Manager (Technical) NHAI CMU	Yes	
13.	Sh. Amit Tanwar	CI, Haryana Tourism, Badkhal Lake	Yes	
14.	Sh. Neeraj Tyagi	SDO, Dakshin Haryana Bijli Vitran Nigam	Yes	
15.	Sh. Netrapal Khatri	Traffic Manager, City Service Depot, Ballabgarh	Yes	
16.	Dr. J. Sehgal	Dean, FTA, Manav Rachna University	Yes	
17.	Dr. Sarita Sachdeva	Professor, Manav Rachna University	Yes	
18.	Sh. Shubhash Dudeja	Principal, O/o DEO, Faridabad	Yes	
19.	Sh. A.K. Gupta	Additional Director, Regional Centre for Urban and Environment Study, Lucknow		
20.	Dr. Alka Singh			
21.	Sh. Himanshu Chandra Assistant Director, Regional Centre for Urban and Environment Study, Lucknow			



Meeting Start: 12.00 Noon Meeting discussions:

At the outset, Commissioner, Municipal Corporation, Faridabad welcomed all present in the meeting. It was informed by the Commissioner, Municipal Corporation, Faridabad that there has been a series of meetings to discuss and review the upgraded Smart City Proposal (SCP) and the present meeting has been convened to have the ideas and views of Regional Centre for Urban and Environment Study (RCUES), Lucknow, a handholding and Mentoring Institute suggested by Ministry of Urban Development, Government of India for enabling Fast Track cities to prepare winning proposals.

The Commissioner, Municipal Corporation, Faridabad thereafter requested the team members of the Consultants to make power point presentation of the revised upgraded draft Smart City Proposal (SCP). The representative of the said Mentor institute and also the members of the Task Force Committee were requested to look at the presentation and give their valuable suggestions and ideas to make the said SCP still more attractive and viable.

The team members of the Consultants started making the power point presentation and vividly explained about each and every component having been taken into the SCP prepared on the basis of data collected through various sources including citizens' engagements and the record available with the different Departments of the city. It was disclosed by the team members of the Consultants that the deficiencies, pointed out by Ministry of Urban development, GOI with regard to the Smart City Proposal earlier submitted by this Corporation, have been taken care of and the present revised SCP has been improved accordingly. It was further disclosed by the team members that the suggestions given by the State Level High Powered Steering Committee during its meeting held on 8-4-2016 have also been included in the revised SCP.

During the presentation, the representatives of Mentor Institute gave certain valuable suggestions at different levels of the presentation for incorporation in the Smart City Proposal for Faridabad. Accordingly the teams engaged in the preparation of Smart City Proposal were advised to incorporate the same in the upgraded SCP. The team members were also requested to explore the possibility of incorporating the suggestions made by members of the District Task Force Committee present in the meeting so as to make the SCP more attractive and viable.

At the end the team members engaged in the preparation of Smart City Proposal were requested to finalize the SCP after incorporating all the ideas and suggestions given by the participants immediately so that the upgraded SCP could be submitted to Government of India well in time.

Commissioner Municipal Corporation Faridabad

Page 3/3

Proceedings of 5th meeting of State Level High Power Steering Committee for smart cities held under the chairmanship of Chief Secretary to Government Haryana, on 08.04.2016 at 9:45 AM in the Main committee room, 4th floor, Haryana Civil Secretariat, Chandigarh.

The list of officers attended the meeting is enclosed at Annexure 1.

The Principal Secretary to Government Haryana, Urban Local Bodies Department welcomed the Chairman and committee members. Thereafter the revised Smart City Proposals (SCPs) were taken up for discussion and following was decided:-

- The principal Secretary to Government Haryana, Urban Local Bodies explained the background of Smart City Mission, informed the Chairman and the Committee Members that Faridabad was not selected among 20 cities in the first phase of smart city mission but has been shortlisted in the list of 23 cities which are on fast track. It was also informed that as per schedule fixed by the Ministry, revised Smart City Proposals (SCPs) of Faridabad are to be submitted by 21st April 2016.
- 2. The Commissioner, Municipal Corporation of Faridabad made a presentation on revised Smart City Proposals keeping in view the feedback received from the Ministry of Urban development regarding shortcomings in the Smart City Proposals earlier submitted by the Municipal Corporation of Faridabad. He further explained how Municipal Corporation of Faridabad has calibrated revised Smart City Proposals in line with suggestions received from Citizens Engagement Program and explained in detail the Smart Pan City Transport Plan and Financially Viable and Sustainable Area-Based Development Proposals measuring 1267 acres, well integrated therein the concept of Transit Oriented Development (TOD).
- 3. The Commissioner, Municipal Corporation Faridabad explained the structure of Special Purpose Vehicle (SPV) and Advisory Committee and the Supervisory-cum-Facilitation Committee for Smart City. The committee, while deliberating on the structure of SPV, advised to include MLAs and MPs as elected representative in the Advisory Committee of SPV.
- 4. Financial aspect of Smart City Proposals and Land Monetization Proposals were specifically scrutinized by the Additional Chief Secretary, Finance and advised to increase collection from property tax and also directed to mark municipal land properly and get it cleared at the earliest from various kind of illegal encroachment and litigations so that it can be monetized to finance proposals of Smart City. After detailed deliberation the revised Smart City Proposals of Faridabad were approved in principle by the SLHPSC.

Ye-

5. A brief summary of financial proposal received from the Municipal Corporation Faridabad is as under:

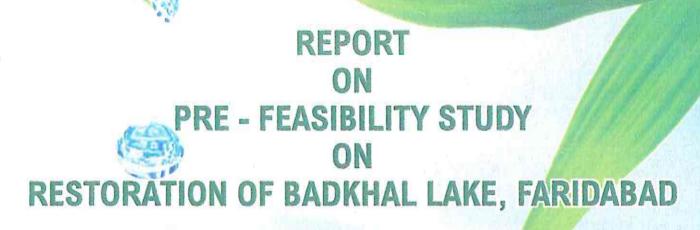
City	Total Cost of Smart City Proposal (in Cr.)	Convergence Component (in Cr.)	component (in Cr.)	Smart City Mission funds (in Cr.)	Revenue Stream- FAR premium (in Cr.)	Debt (in Cr.)	Gap funding Required (in cr.)
Faridabad	2604.14	34.96	1007.50	980	428.38	153.29	0

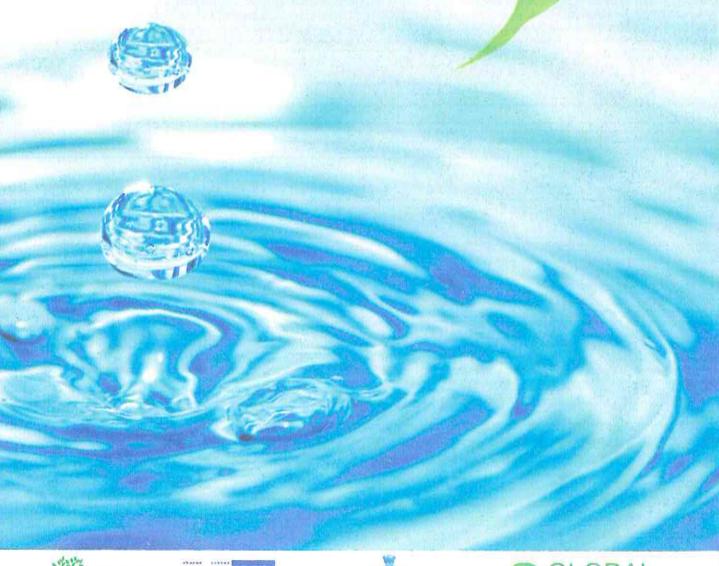


The meeting ended with vote of thanks to the Chair.

List of officers, who attended the meeting of State Level High Power Steering Committee for smart cities, held on 8 April 2016

Sr. No.	Name of officers	Designation
1	Smt. Keshni Anand Arora	Additional Chief Secretary to Govt. Haryana, Information Technology Department
2	Sh. Hardeep Kumar	Additional Chief Secretary to Govt. Haryana, PWD (B & R) Department
3	Sh. P. Raghavendra Rao	Additional Chief Secretary to Govt. Haryana, Town & Country Planning Department
4	Sh. Sanjeev Kausal	Additional Chief Secretary to Govt. Haryana, Finance & Planning Department
5	Sh. Anil Kumar	Principal Secretary to Govt. Haryana, Urban Local Bodies Department
6	Sh. Vikas Gupta	Director, Urban Local Bodies Department
7	Dr. Aditya Dahiya	Commissioner, Municipal Corporation Faridabad
8	Sh. Manpal Singh	Chief Engineer, Public Health Engineering Department
9	Smt. Geeta Prakash	Chief Town Planner, Urban Local Bodies Department
10	Sh. D.R. Bhasker	Superintendent Engineer, Municipal Corporation Faridabad











Municipal Corporation, Faridabad

B.K. Chewk N.I.T Faridabad 121001, Haryana-India Tel. : 0129-2411649 241100 | : 2415549 Fax : 0129-2416465

From

Commissioner, Municipal Corporation, Faridabad.

To

The Director, Urban Local Bodies, Haryana, Panchkula.

Memo No.MCF/SE-1/2016/ 40 Dated: 21-01-16

Sub:- Report of Revival and Restoration of Badkhal Lake, Faridabad.

Lake which was a tourist attraction and came into existence sometime in 1960 with the construction of a Dam across two hills to create a water body in Badkhal Village. This water body became a tourist spot in 1967 and continued as such till 2006. However, because of intensive extraction of water during mining activities and commercial purposes, the flow of water to the said lake began reducing gradually and the area of submergence reduced each year, and by the year 2008, the lake became almost dry. Presently it is totally dry.

It is further submitted that on account of persistent demand from the general public and local MLA, Hon'ble Chief Minister, Haryana has in the recent past announced about the revival of Badkhal Lake for which different scientific studies were conducted to comprehend the aquifer system below the lake area and also to identify the possible sources of water for its restoration. After taking into

Inicipal Corporation, Faridabad Chowk N.I.1 Faridabau -121001 Haryana India 0129-2411649, 2311664, 2415549



consideration various feasible options, the report on pre-feasibility study on Restoration of the said Lake as prepared by Manav Rachna International University (a copy of which is attached) has been considered appropriate to do the job of restoration of Lake. MCF has prepared a detailed status paper on this subject. The tentative expenditure involved for the revival of the laid Lake shall be to the tune of Rs.44.00 crores. A copy of rough cost estimate is also attached herewith.

In this connection, is also relevant to submit that the said Lake shall be filled up to the desired level/depth by using treated water of proposed STP near the said Badkhal Lake in area of about 10 acre. The sewage from existing disposal near Sector 21A may be carried to proposed STP for treatment through a 6.5 km D.I. pipe rising main. The existing disposal at Sector 21A serves the sectors 21A, 21B, 21C, 21D, 45,46 & SGM Nagar (total population - 96,054). discharge from proposed STP shall be 10 MLD. It is submitted that there is an adjacent land measuring 190 acres out of which about 10 acres of land shall be utilized for the construction of the said Sewer Treatment Plant (STP) and rest of the 180 acres of land shall be developed as Bamboo OXY-Park which too shall be developed by using treated water of the said STP. However, the said required land of 10 acres shall have to be got freed from the purview of Punjab Land Preservation Act, 1900.

The State Government is requested to kindly accord in-principle administrative approval and also to allocate necessary funds for the same.

Superintending Engineer

for: Commissioner

No.: MRIU/Misc.-Admn./019

MANAV RACHINA Ividyanatarilahai Dated: 20.04.2016

To.

The Commissioner Municipal Corporation of Faridabad, Faridabad, Haryana.

Subject: Letter of Intent for Revival of Badkhal Lake, Faridabad.

Dear Sir,

With reference to subject cited above, we would like to express our interest for Revival of Badkhal Lake situated at Faridabad in the vicinity of the University (Manav Rachna International University) located at Sec-43, Delhi Surajkund Road, Faridabad, Haryana, from the date of allocation and commencement of the project.

A pre-feasibility study has been undertaken in 2015 jointly by Manav Rachna International University, Faridabad, Administration, Faridabad and Global Hydrological Solutions (GHS), under the technical guidance of Dr. D.K. Chadha, former Chairman, Central Ground Water Board, GoI & President GHS.

In this regard you are requested to kindly consider the following facts:

- 1. We agree to have MOU signed for revival of Badhkal Lake, Faridabad.
- MCF and MRIU shall work jointly to initiate and to complete successfully this project within such period as mutually agreed upon keeping in mind the complexity involved.
- We agree to monitor the project jointly as per required norms and standards specified
 in the report "PRE-FEASIBILITY STUDY ON RESTORATION OF BADKHAL LAKE,
 FARIDABAD".
- Fixing of the responsibilities for necessary Procurement Service, Engineering Services including Site and General Supervision shall be decided upon mutually by MCF and MRIU.
- Revival of Badkhal Lake shall be in accordance with the proposal and as per the final discussions and understanding. between MRIU and MCF.

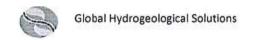
Kindly consider our letter of Intent for your further action in this regard and also for consideration in reference to SMART CITY proposal for Faridabad,.

Regards,

Dr. N. C, Wadhwa

(Vice Chancellor-MRIU).







Executive Summary

Badkhal Lake, a tourist attraction, came into existence in 1960 with the construction of a dam by joining two hills to arrest a fourth order stream at Badkhal village and became a tourist spot in 1967 and continued to be so till 2006. The drying up of the lake was witnessed silently without protest which was happening because of intensive pumping for mining activity and commercial purposes. It, being, now realised that the revival of Badkhal Lake is important as it is now government priority as Faridabad is aspiring to be a smart city and Badkhal Lake to be an integral part of the smart city. In order to work on the revival of Badkhal Lake, different scientific studies become necessary to comprehend the aquifer system below the lake area and also to identify the possible sources of water for its restoration. These studies included the detail geophysical survey, infiltration test for rate of seepage and the remote sensing for treatment of Badkhal catchment.

The earlier studies by different scientists and the organisations clearly pointed out that the mining activities impacted the flow of water to the lake and intensive groundwater withdraw have been major reason for drying up of the lake. The blasting as integral part of the mining activity over the years disrupted and denuded the catchment area besides opening of the joints, soil erosion, and creating environmental hazards. Although the regulatory measures for groundwater withdrawal for commercial purpose and Hon'ble Supreme court direction should have prevented the lake getting dried up. Not taking into consideration the status of groundwater development taking place, legally or illegally, different types of scientific studies have been carried out to justify possible sources of water for filling up the lake and making it sustainable.

MANAV RACHNA INTERNATIONAL UNIVERSITY

Global Hydrogeological Solutions

MANAV RACHNA II vidyanatarikahal

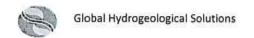
The remote sensing and GIS study provided the information on the drainage pattern of the Badkhal catchment and its geomorphologic analysis will help in deciding the location of the different type of water conservation and recharge structures by utilization of monsoon runoff. In the present scenario four subsurface dykes, have been recommended to prevent the outflow of the groundwater. The infiltration tests show that the specific yield varies from 10% to 15%. Therefore while computing the water requirement for filling up the lake, seepage losses has been calculated based on these values.

The following options have been considered for different sources of water which would not only meet the water requirements to fill the lake upto 6m but can also for keep the lake alive.

- 1. Transfer of water from nearby water bodies created in deep mining pits
- 2. Transfer of Yamuna Flood water and storm water of Bhuria nala
- 3. Development of deep aquifers in the vicinity of Faridabad
- 4. Treatment of Badkhal Catchment
- Impoundment of treated wastewater

After appraisal, it is observed that the first three options are not feasible because of the constraints like Riparian issue of River Yamuna; the short period within which the water is to be managed for transfer, quality status of River Yamuna; inadequate source and its annual increment of water bodies. For groundwater development area is notified and not adequate availability to meet a part or whole of requirement, etc etc.

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The following two options are viable and do not involve any legal issue or otherwise

1. Treatment of the Badkhal catchment

- a) Construction of four sub surface dyke to check the out flow from the aquifers under the lake area
- b) Restoration of drainage channels leading to the lake area.
- To use the treated wastewater with desired quality checks using the state of art technology.

In order to achieve the above said objectives, the various facts are as follows-

- It is estimated that 1825.8 ML will be required to fill the lake upto 6m depth covering an area of 30.43ha.
- In order to meet the total water requirement as indicated above, it is proposed to install STP based on newest technologies, of capacity 10 MLD of treated wastewater for impoundment.
- Out of 10 MLD of impounding water, 2.63MLD will be make up water towards evaporation and percolation losses. Therefore it will take approximate 300 days for the first filling up of the lake upto the desired depth.
- Subsequently the water requirement will be reduced and it is estimated that 960
 ML per year will be required to meet the requirement of makeup water.
- The excess water during second and subsequent year can be made available for development of forest abutting to Badkhal Lake area for implementation of "Vanikaran Yojna" of Govt. of India and also for industries, RWAs, construction activities and the infra structure development at a cost to meet the part of

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Global Hydrogeological Solutions

MANAV RACHNA Ividyanatarikahai

expenditure towards STP functioning and will generate revenue for MCF,

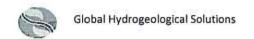
Faridabad.

While planning the use of wastewater, the aspects considered is the Source of wastewater, available quantity of wastewater, quality parameters required of treated wastewater, technology options, capacity of plant, location of treatment plan. The various technologies dealing with the wastewater have been compared considering the design parameters such as Principle of operation, Hydraulic retention time, Mother Liquor Suspended Solids (MLSS), Biological Oxygen Demand, Total Suspended Solids Odor, operation and maintenance, process performance, power consumptions, and land area requirement. The use of treated wastewater will have the advantage of preventing the lake from getting silted. Considering the quality of waste water available and comparison of various technologies in vogue, Membrane Bioreactors (MBR) and Fixed Biofilm Activated Sludge (FBAS) technologies seem to be more relevant and suitable for the present application. It is opined that considering the hydrogeological aspect and climate change scenario, the base of the lake should preferably be kept as unlined to allow the seepage after scaling of the overburden of about 1m in thickness. The rise in the water table will reduce the power input for pumping, indirectly amount to reducing the

The above options for water resources to revive the lake also meets, the requirements of the smart city which provides for the recycling of the wastewater and water conservation practices.

emission of green house gases, as the power plant in Faridabad is coal based.

IV





Once it is decided to generate the treated water from sewage of Badkhal sub-urban areas, then a pipeline will have to be laid to carry the treated water to the lake basin from the treatment plant.

As a sequel to this study, the detailed project report can be prepared based on the recommendations as the basic information required for the DPR is contained in the report.

(Dr. N C Wadhwa) 20 kpsil, 2016

VC, MRIU



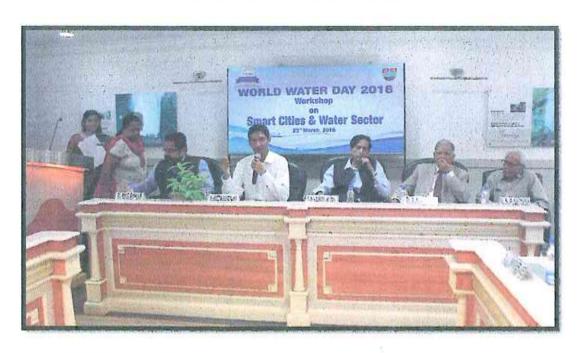
Note: The pre-feasibility study has been undertaken jointly by Manav Rachna International University, Faridabad, Administration, Faridabad and Global Hydrological Solutions (GHS), under the technical guidance of Dr. D K Chadha, former Chairman, Central Ground Water Board, GoI & President GHS.

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MANAV RACHNA INTERNATIONAL UNIVERSITY, FARIDABAD

World Water Day- 22nd March, 2016

Workshop On Smart Cities & Water Sector



Photograph 1: Welcome Address by Commissioner MCF, with dias members:
Dr. Amit Bhalla, VP, MREI, Dr. N C Wadhwa, VC, MRIU,
Dr. D K Chadha, President, GHS (former Chairman CGWB),
Dr. M M Kathuria, Trustee, Manay Rachna



Photograph 2: Commissioner MCF, with dias members: Dr. Amit Bhalla, VP, MREI, taking introduction of RWAs invitees of Faridabad



Photograph 3: Dr. D K Chadha, President, GHS (former Chairman CGWB), answering queries of RWA representatives regarding Rain Water Harvesting-Structures & Techniques



Photograph 4: Mr. Prathmesh Brar, Resident, Sector-19, Faridabad, expressing his views about decentralization of Sewage Treatment

DR. N. C. WADHWA
Vice Chancellor
Manay Racina International University
FARIDABAD





Municipal Corporation, Faridabad

B.K. Chowk N.I.T Faridabad -121001, Haryana-India

Tel.: 0129-2411649, 2411664, 2415549

Fax: 0129-2416465

Subject:-

Smart City Proposal for Faridabad

With reference to above, it is submitted that there is total land bank available with Municipal Corporation Faridabad is 6473 acres and 2½ canal situated in different revenue estates of Faridabad. Out of the said land, at present two chunks of land measuring about 36.6 acres and 19 acres in Sector-91 & Sector 49 respectively are earmarked for sale for the purpose of Group Housing Schemes and both these projects have since been approved by the State Government. The expected income to be derived from the said two projects is to the tune of Rs. 500 crores.

RAJENDER KUMAR GARG TEHSILDAR (CONSULTANT) Assistant Architect B.S. Dhillon Asstt. Architect

SE-I-cum-Nodal Officer (Smart City)

April 20, 2016

To Municipal Commissioner Faridabad



Subject: Reference to Up-graded Smart City Proposal prepared by Municipal Corporation of Faridabad and our support to the initiative

Established in 1990, Persistent Systems (BSE & NSE: PERSISTENT) builds software that drives the business of our customers; enterprises and software product companies with software at the core of their digital transformation. It is global specializing in software product & technology services and 14 out of 20 largest technology companies in the world are our customers. With a global team of more than 8500 employees, Persistent has 350 customers spread across North America, Europe, and Asia. Revenue for FY 15 is \$308 M USD & having development centers across US, India, France and Malaysia. Persistent focuses on developing best-in-class solutions in Cloud Computing, Mobility, Analytics and Collaboration, for smart city, telecommunications, life sciences, consumer packaged goods, banking & financial services and healthcare verticals.

Persistent Systems Limited having its Registered office at 402, Bhageerath, Senapati Bapat Road, Pune 411016, India is proposing to participate in the Smart City Program in the –IT and IT enabled service Areas.

Persistent Systems Limited, or any party it assigns to/creates for this purpose, is willing to enter into contract negotiations with Municipal Corporations of Faridabad, for the provision of IT and IT enabled Services to residents of Faridabad or members enrolled with Municipal Corporation of Faridabad as indicated below:

- 1. Providing a Big Data Platform which will ingest data from various sources and provide insightful dashboards for analysis in different areas. Dash boards would be built separately for the consumption of different stake holders like Citizens, Municipal Administrators and officials, and others.
- 2. Providing a Citizen Grievance Management and Redressal Software integrated with a Location Based Municipal Staff Management and Task Monitoring software.
- 3. Providing Citizen Engagement Services through Social Media and Advertising including events, Promotions and other activities to engage the citizens and seek their constant feedback
- Providing Data Acquisition services and building a correct database for the Municipal Corporation like the Property Tax Register
- 5. Providing Smart Services using Sensors and Internet of Things like Smart Metering, Smart Parking etc

This provider, either directly or through a party it creates for delivery of such services, intends to sign a mutually agreed contract with Municipal Corporation of Faridabad if the Municipal Corporation of Faridabad is awarded a Smart City contract in the Service Areas applicable to the provider and an acceptable agreement can be reached between Persistent Systems Limited or the party it has assigned this to and the Municipal Corporation of Faridabad.

Warm Regards,

(Varun Kalra)

Director - Strategy & Business Development

Persistent Systems Limited, Bhageerath, 402, Senapati Bapat Road, Pune 411016 | Tel:+91 (20) 670 30000
Persistent Systems Inc., 2055, Laurelwood Rd, Suite 210, Santa Clara, CA 95054, USA | Tel:+1 (408) 216 7010
CIN:L72300PN1990PLC056696 | Fax:-+91 (20) 6703 0009 | e-mail:-info@persistent.com | Website:-www.persistent.com





To,

The Commissioner, Municipal Corporation of Faridabad Haryana - 121001

Subject: Letter of Support for Faridabad Smart City Initiative under Smart City Mission of Government of India

Dear Sir,

It gives us immense pleasure to congratulate the City Administration & the Municipal Corporation of Faridabad for its effort towards the participation of Faridabad in the Smart City Mission.

We firmly believe that Faridabad is an excellent candidate for Smart City and by understanding the challenges and identifying the prime areas of development the Mission can be efficiently accomplished.

We take pleasure in introducing **Northgate Public Services (NPS)** a UK based IT solution & service provider of operational Policing systems, operating for more than 40 years with a turnover of approx £181m and approx 2500 employees across globe. Our software solutions and services focus on strengthening the safety of local Communities by helping to reduce crime, improve citizen engagement and protect vulnerable people.

We propose deployment of Automatic Number Plate Recognition Cameras (ANPR) driven Red Light Violation Detection (RLVD) System. These Cameras shall help curb Red Light Violations at the Signals thus helping maintain traffic discipline and citizen safety by reduced road fatalities/accidents.

NPS' Solution is an Integrated Penalty Management Suite (Connect Enforcement) which organizes the complete life cycle of issuance of Challan/Penalty to a violator (RLVD) and even enabling the violator to see his offence on Worldwide Web. The Challans can also be electronically transferred to the Judiciary, for further action.

The above solutions can additionally, if desired, be augmented with additional features like Pollution Under Control (PUC) Certificate Compliance, Insurance, Road Permits, Vehicle Fitness (commercial vehicles).

We understand that the formal engagement of our services shall be subject to the procurement policies of the State government pursuant to the selection of Faridabad in the smart city challenge of Government of India.

We wish to extend my full support to the Mission, towards the multilateral development of the city into a Smart City across sectors.

We look forward to working with you in developing a successful smart city Faridabad.

With warm regards

Ajay Lal Malik

AVP Sales - Public Safety & Transport

E: ajay.malik@northgate-is.com, M:+91-98112 24474

Rave Technologies (India) Pvt. Ltd Unit No – 303, DLF Tower- B, Jasola Dist. Center, New Delhi- 110025 Rave Technologies (India) Pvt. Ltd.

Corporate Office:

3rd Floor, Madhu Industrial Estate Pandurang Budhkar Marg, Worli Mumbai-400013. India

Registered Office:

Ballard House, 2nd Floor, Adi Marzban Path, Ballard Pier, Fort, Mumbai-400001.

Tel: +91 22 66606600 / 67405100

Fax: +91 22 2496 8803
Email: info@rave-tech.com
Website: www.rave-tech.com
CIN: U31900MH1998PTC117068



- India's First and Only "GOLD CATEGORY RATED" National Level Association Accredited by NABET (Quality Council of India) 2015
- *MOST RESPONSIBLE* Industry Association at the National-level by Foundation of MSME Clusters 2015
- *MOST OUTSTANDING INDUSTRY ASSOCIATION* by COSIDIC!
 (Council of State Industrial Development and Finance Corporations of India) 2013

Dated: 20th April 2016

Commissioner Municipal Corporation Faridabad Faridabad

Dear Sir,

We are pleased to know that Our City is gearing up for its vision of becoming a Smart City. IamSMEofIndia appreciates the initiatives being taken by the Government Administration. We are with You and will be happy to support this mission through following steps, among others:

- Encouraging all our members to use the maximum possible range of solar products including Rooftop and Ground Solar PV Systems for energy generation and solar lights, pumps, heaters, lanterns etc. to conserve other forms of energy.
- Educating, counselling and motivating them to use Energy Efficient, Green and Clean Technologies for machines, constructions etc.
- Encouraging them to be compliant on norms for environment, pollution, statutory dues, licences and other relevant laws etc.
- Promoting Skill Developments of Employees.
- Emphasis on Entrepreneur Development Programs.
- Building special focus on Women, Student and Social Entrepreneurship
- Initiatives on being and behaving like Responsible Citizens of Faridabad with due contribution to Swachh Bharat Yojana and other similar areas.

Our support to the Administrative Authorities of our City will be second to none, and we look forward to working with you very closely to make Faridabad not only a Smart but one of the Smartest City of the world.

With Warm Regards,

Rajiv Chawla

Chairman - IamSMEofIndia

+91 9810154568

M +91-9711123111, E-mail: info@iamsmeofindia.com Web.: www.iamsmeofindia.com



FIA HOUSE, BATA CHOWK, N.I.T. FARIDABAD - 121001

TEL. : 0129-2232136, 2235176 E-mail: fiafbd@gmail.com Web. : www.fiafaridabad.com CIN: U74140HR2015NPL055773

MEMORANDUM OF UNDERSTANDING

The initiative of the Ministry of New and Renewable Energy, Government of India to promote Solar energy as a clean alternative to ensure a pollution free environment has been well received by the industries in Faridabad.

The Government of Haryana has recently promulgated the "Solar policy 2016" that mandates all industries having a connected load of 50kw to install solar power plant in addition to other categories. There is no doubt that this will enable Faridabad to become a "Solar City" as projected by Government India.

As an Industrial Association, with a standing of over six decades, we assure that we shall encourage maximum industries in Faridabad to go for Solar energy.

In addition we assure the Authorities that we shall also persuade more and more industries of our Association and also the residential, non residential, commercial/Institutional units to switch on to solar energy in their residential and other non residential uses. We also assure the Authorities that if our area is brought into the "Area Based Development" under Smart City Mission and certain user charges are levied by the authorities for the same, the residents/stakeholders of this area shall come forward to pay such charges.

Executive Director



Faridabad

MEMORANDUM OF UNDERSTANDING

Small

Industries

Association

The initiative of the Ministry of New and Renewable Energy, Government of India to promote Solar energy as a clean alternative to ensure a pollution free environment has been well received by the industries in Faridabad.

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April 20, 2016

For Faridabad Small Industries Association

FARIDABAD SMALL INDUSTRIES ASSOCIATION

The face of Modern Indian MSMEs

FSIA Park, Opp. Plot No. 23, Sector - 24, Faridabad 121 005 Haryana (INDIA) Ph.: 0129-4026950, E-mail: Isiaindia@gmail.com, Web.: www.fsiaindia.com

(Largest Representative Body of MSMEs in Haryana)



Corporate Unice : 705, Shapath - II, Opp. Rajpath Club, S. G. Road, Bodakdev, Ahmedabad - 380 015, Gujarat, India.

Tel.: +91-79-40040888, 40035875 Fax: +91-79-40040666

E-mail: info@renewablebiotech.com Web: www.renewablebiotech.com

Renewable Biotech LLP Shaping a Greener Tomorrow

Date:

To

The Commissioner. Municipal Corporation, Faridabad.

Subject:-

Smart City Proposal for Faridabad

Dear Sir,

Please refer to the subject cited above.

Our is a group actively working in the sector of renewal energy and its team has a long time experience in the segment of thermal energy generation under the banner of Taylormade Solar Solution Private Limited which are also the leaders in CST technology and are the promoters for Renewal Biotech LLP.

We are glad to know that, after Faridabad being shortlisted as one of the Fast Track cities for Smart City by Ministry of Urban Development, Government of India, the Municipal Corporation, Faridabad has prepared Smart City Proposal (SCP) and has proposed for revival of Badkhal Lake and developing forest city abutting to it under "VANIKARAN YOJNA". Since we have expertise knowledge in plantation of STC bamboo trees which is the best suitable plantation for oxygen energy generation and will certainly help in reduction of pollution level of Faridabad. we shall be pleased to give full support and cooperation in the implementation of the various projects under Smart City Proposal for Faridabad especially development of OXY-Park.

Regards

For: Renewal Biotech LLP

Authorized Signatory

Shyam Singh

XEN - Smart city

Executive Engineer Municipal Corporation FARIDABAD

> A DHARAM GROUP COMPANY Energy | Environment | Innovation

Delhi • Raipur • Mumbai • Nagpur • Kolkatta



XEN- = mast cit

Executive Engineer

Municipal Corporation

Commissioner Municipal Corporation of Faridabad Haryana

Date: 18th April 2016

Subject: Letter of Support for Faridabad as Smart City

Dear Sir/Madam,

I am pleased to learn that Faridabad has been selected as a prospective candidate for consideration of the Smart City Mission.

I extend my heartiest congratulations for the same for the State of Haryana.

In event that Faridabad is selected as a Smart City we would be obliged to provide all support necessary to The State of Haryana and Faridabad in implementing projects and bringing in expertise in the field of Waste Management, Water Management, ICT Infrastructure, Clean Technologies, E-Mobility ,Multi-Modal Transport and other such areas of expertise as required to develop it as a smart city.

With kind regards,

Rutger de Bruijn

Board of Director - NXT Group of Companies

Managing Director - Nexus Novus Back Office Services Pvt. Ltd. (Subsidiary of NXT-GOC)

NXY GROUP OF COMPANIES B.V.

20th April 2016

Neelkanth's Vision Document on "SMART CITY—FARIDABAD MISSION"

"City can Turn Smart...only if it is ensured Clean, Green and Garbage Free"

For

In Continuation to the above we are in process of and agreed to our entering into MoU with MCF to support "SMART CITY FARIDABAD MISSION"

Being NGO, For Up-Coming "SMART-CITY FARIDABAD MISSION" Sustainable and Investment Programs duly sketched out, developed, designed and prepared by Neelkanth. Our Expertise in the fields like Green Building Concept Promotion Program, Solar based Renewable Energy Promotion Program, Clean-Green & Garbage Free Drive with Participation and support from stake-holders and finally launching of 50 MW with Rs.800 Crores Global Investment Waste to Energy Project for City Faridabad, MCF and Local District Administration shall be well equipped in shaping Faridabad Smart-City.

In the past decade, in partnership with UNO - New York (USA), UNICEF-Delhi, National Institute of Open Schooling (NIOS), National Digital Literacy Mission (NDLM), National Skill Development Corporation, (NSDC) Gol, Ministry of New & Renewable Energy (MNRE) Gol, National Institute Universalisation of Elementary Education Mission (UEE Mission) Delhi Govt., Indian Institute of Ecology & Environment (IIEE), Delhi State AIDS Control Society (DSAC), Haryana Prathamik Shiksha Pariyojana Parishad (HPSPP) Haryana Govt. Municipal Corporation—Faridabad (MCF), Municipal Corporation Gurgaon (MCG), HSIIDC-Faridabad organized / contributed and participated in large number of sustainable programs from time to time in City Faridabad and Northern Region of the Country.

During the time span from 2006 till date, Neelkanth's, presence, participation and success in the Fields of Waste Management, Door-to-Door Waste Pick up Services, Zero Garbage Program, Clean and Green Campaign, Women Empowerment Program, Skill Development Program, Solar Based Renewable Energy Program and finally for Waste to Energy Integrated Solid Waste Management Technology Model for SMART CITY MISSION has been recognized, appreciated and supported by DLF Industries Association (DIA), Faridabad Chamber of Commerce and Industries (FCCI), Faridabad Industries Association (FIA), Faridabad Manufacturers Association (MFA), North Faridabad Federation of RWAs including Municipal Corporation, Faridabad(MCF).

We shall be pleased to give full support and cooperation in the implementation of the various projects under Smart City Proposal for Faridabad.

Warm regards,

Authorized Signatory

Executive Engineer - smart cits Municipal Corporation FARIDABAD

Head Office: Neelkanth Community Hall, Sector-21, Rohini, Delhi-110085

Faridabad Office: B-527, Greenfield Aravali Hills, Faridabad -121001, Telefax-+91-0129-2510299, 9999647115

Url: www.neelkanthgroup.orge-mail id: neelkanth_society@yahoo.com, info@neelkanthgroup.org

SECTOR 21 RESIDENTS WELFARE ASSOCIATION

(Regd. No. 1340)
Representing Sector-21B & Part 21A
425, Sector-21B, Faridabad - 121001

President:

Sh. M. L. Aggarwal H. No. 425/21-B, Ph. 2437227, Cen. . 453 Mob.: 9313308848,7503094812

Vice President:

Sh. Charan Singh Kaushik H. No. 529/21-B, Ph.: 4040765, 9810367769 Sh. N. K. Sharma

H. No. 207/21-B, Mob.: 9718862878, 9911914584

General Secretary :

Sh. A. S. Dahiya H. No. 634/21-B, Ph. : 2410611, Cen. : 313 Mob. : 9968364888

Jt. Secretary:

Sh. S. P. Grover H. No. 658/21-B, Ph.: 2432658, Cen.: 385 Mob.: 9818392658

Treasurer:

Sh. Vas Dev Chaudhri H. No. 666/21-B, Ph.: 4161858, 9873149321

Executive Members:

Lt. Col. T. L. Behal

H. No. 204/21-B, Ph.: 2439824, Cen.: 307 Mob.: 9999883067 Sh. S. S. Chaurasia H. No. 669/21-B, Ph.: 2419266, Cen.: 336 Mob.: 9899803941 Sh. T. K. Kulshrestha H. No. 638/21-B, Ph.: 2413404, Cen.: 317 Mob.: 9971842321 Sh. M. G. Bhatia H. No. 704/21-B,

Ph.: 2439179 Mob: 9213285932, 9136366412

Sh. K. L. Rajput H. No. 527/21-B, Ph.: 2437651, Cen.: 463 Mob.: 8010141527 Sh. Hari Chand Bhadana H. No. 244/21-B, Mob.: 9718350001, 9582770079

Sh. S. C. Sarin H. No. 651/21-B, Ph.: 2439986, Cen.: 452 Mob.: 9810162628

Sh. S. P. Singh H. No. 677/21-B, Ph.: 4011677, 9891099644

Sh. Rakesh Ahluwalia H. No. 582/21-B, Ph.: 9910076888 Sh. Suresh Gandhi H. No. 636/21-B, Ph.: 2410909, 9810847181

Sh. V. P. Arora H. No. 674/21-B, Ph. : 2416473, Cen. 325 Sh. Sh. Om Parkash

H. No. 532/21-B, Mob. 9350408349

MEMORANDUM OF UNDERSTANDING

We understand that the Ministry of New and Renewable Energy, Government of India is very concerned about the installation of Solar Power Plants in various Residential and non Residential units and the State of Haryana has even issued a notification bearing no. 22/52/20052005-5 Power Dated:- 03/09/2014 whereby the installation of Solar Plants in Residential units having Plot area of more than 500 square yards and also in non Residential units, Industrial, Commercial/ Institutional units has been made mandatory. We further understand that it will go a long way in bringing the Faridabad as one of the 23 Fast Track Smart Cities of Country if Solar Plants are installed as many as possible in different nature of units in MCF area.

In view of the above we feel pleasure to ensure the Authorities that we shall persuade more and more Residents of our Association and also the non Residential, Industrial, Commercial, Institutional units to switch on to Solar energy in their Residential and other non Residential uses. We also assure the Authorities that if our area is brought into the "Area Based Development" and certain user charges are levied by the Authorities for the same the Residents/ Stake Holders of this area shall come forward to pay such charges.

For Sector 21 Residents Welfare Association

eneral Secretary

Shyam Singh XEN- Smort city



प्रधान

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कोषा अध्यक्ष .

जन कल्याण समिति (रजि०)

F-222, एस॰ जी॰ एम॰ नगर फरीदाबाद।

Ref.....

Dated 18-4-201

MEMORANDUM OF UNDERSTANDING

We understand that the Ministry of New and Renewable Energy, Government of India is very concerned about the installation of Solar Power Plans in various residential and non residential units and the State of Haryana has even issued a notification bearing No. 22/52/2005-5 Power dated 3-9-2014 whereby the installation of solar plants in residential units having plot area of more than 500 square yards and also in non residential units, industrial, commercial/Institutional units has been made mandatory. We further understand that it will go a long way in bringing the Faridabad as one of the 23 Fast Track smart cities of country if solar plants are installed as many as possible in different nature of units in MCF area, F&G-BLOCKS, of S.G.M NAGAR & INDRA INCALAVE,

In view of the above we feel pleasure to ensure the Authorities that we shall persuade more and more residents of our Association and also the non residential units industrial, commercial/Institutional units to switch on to solar energy in their residential and other non residential uses. We also assure the Authorities that if our area is brought into the "Area Based Development" and certain user charges are levied by the authorities for the same the residents/stakeholders of this area shall come forward to pay such charges.

For Jan Kalyan Samiti (Rogd.)

m- 9 81 0047718

Shyam Singh

XEN - Smart city

KARKHANA BAGH INDUSTIRIAL WELFARE ASSOCIATION

16/5 MATHURA ROAD FARIDABAD

MEMORANDUM OF UNDERSTANDING

We understand that the ministry of New and Renewable Energy Government of India is very concerned about the installation of Solar power plants in various residential and non residential units and the state of Haryana has ever issued a notification bearing no 22/52/2005-5 Power dated 3/9/2014 whereby the installation of solar plants in residential units having plot area of more than 500 square yards and also in non residential units, industrial, commercial/institutional units has been made mandatory. We further understand that it will go a long way in bringing the Faridabad as one of the 23 Fast Track smart cities of country if solar plants are installed as many as possible in different nature of units in MCF area.

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For Karkhana Bagh Industrial Welfare Association

Auth. Signatory

Shyam Singh
XEN = smooth city

RESIDENTS WELFARE ASSOCIATION, FRIENDS COLONY, SECTOR-20, FARIDABAD (REGD. NO. 2016-02-000641)

H. NO.: FRIENDS COLONY, RAILWAY ROAD, PARWESH MARG OLD FARIDABAD.

Ref No:- SPL

Date: - 20/09/16

MEMORANDUM OF UNDERSTANDING

We understand that the Ministry of New and Renewable Energy, Government of India is very concerned about the installation of Solar Power Plants in various residential and non residential units and the State of Haryana has even issued a notification bearing No. 22/52/2005-5 Power dated 3-9-2014 whereby the installation of solar plants in residential units having plot area of more than 500 square yards and also in non residential units , industrial, commercial/Institutional units has been made mandatory. We further understand that it will go a long way in bringing the Faridabad as one of the 23 Fast Track smart cities of country if solar plants are installed as many as possible in different nature of units in MCF area,

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PRESIDENT President RWA
Welfare Association

Friends Colony Fod., Reg.-1316

RD Sharma

RWA F/C FBD

President:-

874598 5778 (8130305778) MR.R.D.SHARMA (8130305778)

Vice President:- MR.A.K.SHARMA (9899743640)

General Secretary:- Mr.K.L.Mishra (9540223456)

Cashier :- MR.SUBHASH SHARMA (9990896460)

Regd. No.: 1556

RESIDENT WELFARE ASSOCIATION (URBAN ESTATE) SECTOR-21D, FARIDABAD-121012

President: **B. K. BHARDWAJ** H. No. 1437, Sector-21D, Faridabad

Contact No.: 9312215091

Ref. No.: RWA (UE) 21D

Dated

Contact No.: 9711148743 & 4085123

Gen. Secretary: B. N. SHARMA

H. No. 647, Sector-21D, Faridabad

Ref. No RWA (UE)/21D/16/

Dated: 18-04-2016

MEMORANDUM OF UNDERSTANDING

We understand that the Ministry of New and Renewable Energy, Government of India is very concerned about the installation of Solar Power Plants in various residential and non-residential units and the State of Haryana has even issued a notification bearing No.22/52/2005-5 Power dated 3-9-2014 whereby installation of Solar plants in residential units having plot area of more than 500 square yards and also in non-residential units, industrial, commercial/institutional units has been made mandatory. We further understand that it will go a long way in bringing the Faridabad as one of the 23 Fast Track Smart Cities of the country if solar plants are installed as many as possible in different nature of units in MVF area.

In view of the above we feel pleasure to ensure the Authorities that we shall persuade more and more residents of our Association and also the non-residential units, industrial/commercial/institutional, to switch on to solar energy in their residential and other non residential uses. We also assure the Authorities that if our area is brought into the "Area Based Development" and certain user charges are levied by the authorities for the same, the residents/stakeholders of this area shall come forward to pay such charges.

(B.N.SHARMA)

General Secretary

Shyam Singh

XEN_ Smart city



DARGAH PEER BABA NOORUDDIN EKTA COMMETY

Address : Peer Baba Talab Road, Near MCF Office Sec-19, Old Faridabad - 121002

Date\8\4	2016
D	ate\8\A

MEMORANDUM OF UNDERSTANDING

We understand that the Ministry of New and Renewable Energy, Government of India is very concerned about the installation of Solar Power Plans in various residential and non residential units and the State of Haryana has even issued a notification bearing No. 22/52/2005-5 Power dated 3-9-2014 whereby the installation of solar plants in residential units having plot area of more than 500 square yards and also in non residential units, industrial, commercial/Institutional units has been made mandatory. We further understand that it will go a long way in bringing the Faridabad as one of the first 23 smart cities of country if solar plants are installed as many as possible in different nature of units in MCF area,

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Shyam Singh

224 -Smart cts President : 09310805653

GOPI COLONY WELFARE ASSOCIATION

H.N. SOOD CHAIRMAN Ph.: 2263003

SURESH SETHI PRESIDENT Ph.: 2296091

B.K. SINGHAL Vice-president Ph.: 2290662

B.N. MOHAN Gen. secretary Ph.: 2296792

D.D. MIGLANI Jt. secretary Ph.: 2295230

D.P. CHUG Treasurer Ph.: 2267265

EXCUTIVE MEMBERS
Chaman Mangle
C.B. Gupta
H.K. Saxena
Jeet Singh
K.L. Sehgal
Pashi Kataria
Subash Ahuja
Shanty Malhotra
Shyam Lal Wadhawa
Satish Ahuja
Veerbhan Gulihar
Yashpal Babbar

Office:

8, Gopi Colony, Faridabad- 121 002 Ph.: 0129-2296091 Ref. No.....

Date 18-04-16

MEMORANDUM OF UNDERSTANDING

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Shyam Singh XEN - Smeet city

SUREM SETAL 98/02/90/90

Residents Welfare Association Sector 19 (Regd.)

Office: 269, Sector 19, Faridabad 121002 Ph.: 4043269

RAJ KUMAR CHHIBER

President H.No. 269, Sec. 19, Faridabad Ph.: 4043269 Mob.: 9312236344

VIPUL TRIKHA

Gen. Secretary H.No. 468, Sec. 19, Faridabad Ph.: 4040988 Mob.: 9810345169

DR. RAJVIR SINGH

Treasurer

H.No. 1204, Sec. 19, Faridabad Ph.: 4101204 Mob.: 9810338833

18-4-16

B. S. DAHIYA

Vice President H.No. 654, Sec. 19, Faridabad Mob 9560453654, 9811323654

MUKESH BANSAL

Secretary H.No. 1034, Sec. 19, Faridabad Mob.: 9873830102

PRAVEEN CHAUDHARY

Jt. Secretary H.No. 19, Sec. 19, Faridabad Mob.: 9718881919

SATISH CHAND GUPTA

Jt. Secretary H.No. 767, Sec. 19, Faridabad Mob.: 9810948090

MEMORANDUM OF UNDERSTANDING

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Shyam Singh

President

XEN - SMART CIT Besidents Welfare Association Sector-19 (Regd.) Office : H.No. 269, Sector-19, Faridabad







ए० के० गुप्ता अपर निदेशक

A.K. GUPTA

क्षेत्रीय नगर एवं पर्यावरण अध्ययन केन्द्र (शहरी विकास मंत्रालय, भारत सरकार)
Regional Centre for Urban & Environmental Studies, Lucknow (Ministry of Urban Development, Govt. of India)

URC/ 136

1AD-24 12016-17

दिनांक :.. 20 - 4-2016

To
The Commissioner
Municipal Corporation
Faridabad

Email: cmc@mcfbd.com, contact@mcfbd.com

Sub: Review of Smart City Proposal of Faridabad under Fast Track

Ref: Email dated 15th April 2016

Sir,

In reference to MOUD, GOI letter no. K-15016/157/2015-SC-1 dated 16/02/2016 and the above mentioned subject, a team experts from our Centre had visited Municipal Corporation Faridabad for review of smart city proposal on 19/04/2016 as Mentor Institute.

The Smart City Proposal of Faridabad was discussed and reviewed point wise. The SCP has been revised and improved substantially as per the guidelines. Some observations on SCP were made by our team which are summarized and annexed as annexure-1.

You are requested to incorporate our observations in the SCP to make the document more substantial.

Regards,

Yours sincerely,

(A.K.Gupta)

Annexure-1

Observations on SCP Faridabad

Question No.	RCUES, Lucknow Observations
Q-1- Quality of life	 The answer should capture improvement of operational efficiency in last three years in the city. In case last three years data is not available, clearly mention that there is non-availability of data of 3 years Where ever the data have been given reference
Q-2- Administrative Efficiency	 The answer should reflect the administrative efficiency of the last three years with introduction of IT Source/ reference of data has to be provided
Q-3- SWOT Q-4- Strategic Focus and Blue Print	 Threats: Point no. 4, 5 & 6 are actually weakness and not threats. Hence it needs to be re worked. The weakness & threats mentioned in SWOT analysis needs to be taken up in same order in strategic focus and blue print. For e.g. the focus area one should be TOD since the first weakness mentioned in the SCP is inadequate public transportation system which is also supported in the citizen consultation. Supporting document for Transit Oriented development should attached in annexure
Q-5- Vision & Goal	 Based on the vision of the city, the primary goal should be to develop Faridabad city as an Innovation Hub for manufacturing rather than Economic Shift to Advanced Engineering Under Smart and Sustainable infrastructure there is also need to add sewerage, drainage and health sectors
Q- 13 Convergence	 Convergence with State Tourism Department and Forest Department also required Convergence with National Urban Livelihood Mission for skill up gradation and Housing for All is also required
Q-18 Measurable Impact	 Measurable impact should be quantified numerically showing baseline data and expected increase/decrease in nos.
Q-43 Fall Back Plan	 Cost of land monetization may be used as an alternative source for financial back up in SCP
Annexure-IV- Supporting Documents	Supporting documents to be added in support of SCP: TOD Policy, Support documents from NHAI, Indian Railways, Forest Department, Culture & Tourism, NCR Planning Board Documentary evidences of all consultations held at city and state level



Municipal Corporation, Faridabad

B.K. Chowk N.I.T Faridabad -121001, Haryana-India

Tel.: 0129-2411649, 2411664, 2415549

Fax: 0129-2416465

From

Commissioner, Municipal Corporation, Faridabad.

To

Sh. A.K. Gupta, Additional Director,

Regional Centre for Urban & Environmental Studies,

Lucknow.

Memo No. MCF/SE-I/2016/ 312

Dated: 20/4/16

Subject:-

Review of Smart City Proposal of Faridabad under Fast Track

Please refer to your reference No. URC/136/AD-24/2016-17 dated 20-4-2016 on the subject cited above.

It is intimated that the Smart City Proposal (SCP) has been revised/upgraded and improved as per the guidelines issued from time to time and observations made by the team members of your Centre in a Workshop held on 19-4-2016 has also been taken care of in the SCP.

This is for your information, please.

Superintending Engineer for Commissioner

Municipal Corporation,

Faridabad