

**Visit of Additional Secretary (UD) Shri Durga Shankar Mishra to Kanpur on 27.12.2014 on
Municipal matters and Smart Cities Scheme**

Tour Note

Shri D.S.Mishra, Additional Secretary (UD), Ministry of Urban Development undertook an official tour to Kanpur city on 27.12.2014 for consultation with prominent citizens, professional associations, NGOs as well as officials of the State and Local Government for discussing the requirements for developing the cities as Smart Cities under the new initiatives of 100 Smart Cities in India as well as to review the preparedness of the urban infrastructure for the same.

The visit and consultation to Kanpur City was arranged in the following manner:-

- a) 27.12.2014 – 10.00 to 2.00 PM: Consultations with Members of Parliament, Members of State Legislature, the Mayor, eminent members of the public and the officials of District & Local Government, etc.
- b) 27.12.2014 – 2.00 to 3.00 PM: Visit to the local Sewage Treatment Plant (STP) at Jajmau.
- c) 27.12.2014 – 3.30 to 6.00 PM: Consultation with the Municipal Corporation, Kanpur and State Officials with presentations on various proposals for development of Kanpur City as a Smart City.

A. Consultation with the Members of Parliament, Members of State Legislature, the Mayor, Eminent Members of the Public:

Inaugurating the consultation process, Dr. Murli Manohar Joshi, Hon'ble Member of Parliament mentioned that Kanpur is the largest City in Uttar Pradesh and in the region next only after Delhi and Kolkata. It is also the 10th largest revenue earning city. There is a need to make the road map for making Kanpur a Smart City with required guidelines and inputs on what is to be done and how. He mentioned his meeting with the Hon'ble Chief Minister for making Kanpur a Smart City as it is already under the clean and green city programme. He mentioned the crucial need for a metro system in Kanpur considering the severe traffic congestion. The consultations should identify what Kanpur can do so also what can be done by the Government of Uttar Pradesh and Government of India. Some important areas to be addressed are the technical facilities and institutions connected in the basic urban infrastructure.

In his opening remarks, Additional Secretary (UD) mentioned that two consultations have already been held with the State Governments on the proposed programme for 100 Smart cities, the names of which are not finalised yet. However, He mentioned that Kanpur being the largest City in Uttar Pradesh needs to have a mission for the next 5, 10, 15 and 20 years and so on. The basic physical infrastructure requirements for Smart Kanpur City may be mentioned in 4 main areas and their sub-areas as follows:-

1. **Physical Infrastructure:** Managing Solid Wastes for cleanliness; Waste Water collection and treatment; Storm Water Drainage; Mobility; Power/Electricity on 24x7 ; Drinking Water on 24 x7 pattern; digital connectivity, etc.
2. **Social Infrastructure:** housing; commuting facilities; special facilities for elderly & physically challenged.
3. **Economic Infrastructure:** Industry; Manufacturing; Business & Commerce; Education; etc.
4. **Institutional Infrastructure:** Citizens' participation; safety & security; e-governance, etc.

The models for developing a Smart city may be taken forward in various ways such as taking up a part of the city; developing a satellite city or renewing and redeveloping the old and congested parts, etc. The vision for Smart Kanpur has to be developed through local citizen and stakeholder's participation i.e. through Kanpur's own eyes. The presence of the River Ganga should be converted as the strength for Kanpur. After the brief introduction by Additional Secretary (UD), the other participants discussed the followed as the requirements for making Kanpur a Smart City:

- A. Shri I.M Rohatgi, President, Merchant Chambers Association
 - i. Development of Road from Meghdoot Tiraha to Agricultural University as a Model Road
 - ii. Setting up Tool Rooms / Testing Labs in the premises of closed mills of Kanpur
- B. Shri Anil Gupta, Parivartan
 - i. The plant set up for solid waste management in Kanpur is shut down for the past many months. This can be revived by setting up a SPV consisting of Industry and NGOs in Kanpur to run the SWM system and Plant.
 - ii. The Anwarganj-Mandhana railway line dividing the city into two parts is the main cause for the traffic jams and hurdle for many other services. The line should be removed by laying a new line between Mandhana and Panki.
 - iii. Need to construct the Ring road between Mandhana-Bhauti and linking the GT Road with NH-25 duly constructing a RoB at Saraiya Crossing.
 - iv. The connectivity between Kanpur and Lucknow is not good. Thought should be given on Twin-City concept on Kanpur-Lucknow which will help in better transportation between the cities and also open up more hinterland to Lucknow Airport.
- C. Shri Manoj Banka
 - i. Traffic management needs to be improved in the city with automatic signalling system.
 - ii. Developing separate lanes for different kinds of vehicles
 - iii. Act on the 105 Km Ring Road pending with the Government of Uttar Pradesh since 2012.
 - iv. Shifting the Transport Nagar outside the city.
 - v. Developing vendor Zones and Kiosks for street vendors.
 - vi. Ensuring electricity supply on 24x7 pattern with additional Transformers and underground cabling.
- D. Prof A.K.Nagpal

- i. HBTI has adopted a village near Sinhpur village
- ii. HBTI has set up an entrepreneur incubation centre and running it for the last one year.
- iii. It is training entrepreneurs in Baking and FRP products for setting up self-employment units.

E. Shri Irfan Solanki

- i. Kanpur Development Authority (KDA) may acquire the required land for linking Mandhana with Panki by the Railways.
- ii. Ensure enforcement of applicable laws for smooth transport in the city.
- iii. Transferring the ownership of NH-25 to the State Government by the Centre.

F. Shri Chhotebhai Naronha

- i. Bring changes in the systems. PPP may be elaborated as Peoples participation in Planning.
- ii. Structural Reforms/Changes- full implementation of the 74th CAA and bringing the KDA under the administrative control of the Mayor.
- iii. Shifting the Cantonment from the centre of the city to the outskirts.
- iv. Implementing Mass Rapid Transport system.
- v. Metro Rail is possible in Kanpur only with underground system.
- vi. Making South Kanpur as a separate district.
- vii. Power cuts in urban areas to be rationalised across localities based on losses therein.

G. Shri Manmohan Rajpal

- i. Establish co-ordination mechanism between departments involved in developmental activities.
- ii. Create land bank for setting up industries.
- iii. Converting the closed textile mills into flatted factories
- iv. Preventing frequent transfers of able officers.

H. Shri Rakesh Jaiswal

- i. Ensuring water supply on 24x7 basis
- ii. Preparing a policy of water withdrawals from the River Ganga
- iii. Ensuring 100% sewerage in the city
- iv. 100% management solid wastes along with the wastes from hospitals, industries and other hazardous establishments.

I. Shri Satyadev Pachauri

- i. Paradigm shift in bureaucracy
- ii. Plan for the resettlement of persons encroaching on municipal and other departmental lands.
- iii. Creating community facilities for the society.

- J. Shri Vinod Vasudevan
- i. Planning for separate pedestrian and cycle tracks on the roads.
 - ii. Primacy to safety first in transport systems
 - iii. Strengthening the public transport system.
- K. Shri Devendra Singh Bhole, Honourable Member of Parliament.
- i. Development of Parmat Ghat
 - ii. Construction of open-air hall in Tulsi Garden
 - iii. Developing the Panki Canal
 - iv. Developing slum areas falling under the legislative constituencies of Kalyanpur and Maharajpur.
- L. Shri Raghunandan Singh Bhadauria
- i. Monthly discussions amongst between the Public, Public Representatives and the Officials
 - ii. Equal development of all areas in Kanpur
 - iii. Role of Enforcement for implementing Rules
 - iv. Decisions on providing public-conveniences in cantonment areas
- M. Shri Lalit Khanna
- i. Necessity of 8-laning important thoroughfares in Kanpur
 - ii. Developing Anwarganj and other Railway Stations as Model Railway Stations
 - iii. Planning for encroachment-free city
 - iv. Connectivity between Kanpur and Trans Ganga City.
- N. Dr.N.B.Singh
- i. Expansion of Airport
 - ii. Setting up AIIMs like medical institution
 - iii. Setting up a Central University
 - iv. Construction of flyovers at Gurudev and Kalyanpur Crossings.
- O. Shri Balram Narula
- i. Developing flatted hosiery units in the closed textile mills to bring them into use.
- P. Shri Sonelal Yadav
- i. Developing the land available near Boat Club as a Smart Flower Market.
- Q. Vice-Chairman, Kanpur Development Authority
- i. 3000 Acres land is available for developing the Trans Ganga City
 - ii. To provide relief to parking problems, multi-level parking facilities are being planned.
 - iii. For the development, improvement and maintenance of 22 cross Roads spots, public partnership with Builders is envisaged.
- R. Honourable Mayor, Kanpur

- i. Mayor does not have any powers. Even in cases of encroachments, Mayor has to wait for the arrangement of Police.
 - ii. For cleaning the large drains, KNN has made necessary arrangements.
 - iii. Solid waste Management is a severe problem.
- S. District Magistrate, Kanpur
- i. For the improvement in electricity supply/ services, a project prepared at an estimated cost of Rs.1433.00 Crore has been sent to Government of India through the State Government. The operational area of KESCO is being expanded to cover rural areas also. Provision for underground cabling.
 - ii. Proposals for roof-top Solar System.
 - iii. Integrated Traffic Management System.
 - iv. Creating Civil enclave within the Defence Airport of Kanpur
 - v. Highway Patrolling
 - vi. Difficulties for JNNURM projects passing thorough defence lands
 - vii. Improving the road connectivity between Kanpur-Lucknow.
 - viii. UPSIDC / KNN made responsible for providing essential public-services/ conveniences in industrial zones.
 - ix. Setting up of Vending Zones / modern Haat
 - x. Plans for development of Society areas
 - xi. Setting up animal shelters for stray cattle
 - xii. Using the CSR funds for basic civic facilities.

Closing Remarks: While closing the consultation, Additional Secretary (UD) suggested the setting up of a think tank of citizens of Kanpur facilitated by the Municipal Commissioner for developing the vision for Smart Kanpur. Financing options through CSR and NGOs and other institutions may also need to be pooled together, so that a clear financial situation may be developed. There is also the need to incorporate the system of audit for all the Smart city activities whether it is done by the Government or by CSR or NGOs, etc. He emphasised for focusing on solutions to various problems, the need to think big with out-of-the-box solutions and to capacitate at every level for eg. from the ITI to IIT to IT Industry, etc.

Dr. Murli Manohar Joshi, Hon'ble Member of Parliament in his closing remarks mentioned 4 things: Firstly, that Kanpur has every possibility and capacity for being a Smart City. All the stakeholders need to work on them systematically to overcome the problems and to put up new ideas. Secondly, there is a need to watch where the world is going for eg. in the IT industry and technology and the manufacturing processes such as cottage/flatted industries, etc. Thirdly, the critical requirements for the defence of the country also make Kanpur an ideal place for locating a defence hub in the city. Fourthly, the holy river Ganga flowing through Kanpur has tremendous capacity to attract pilgrims and tourists to Kanpur and act as strength for economic development of the City. Further, industrial units can be set up in areas falling under Cantonment / Defence lands. The Honourable Minister for Defence is likely to visit Kanpur during January 2015 during which these issues can be taken up.

B. Visit of Sewage Treatment Plant (STP) at Jajmau, Kanpur:

Site visit to the STP was conducted and found that the plant is running. No equipment was found in disrepair. When asked about the age and good running conditions, officials of UP Jal Nigam mentioned that the plant was constructed during 1989-92 but was actually refurbished under the JNNURM. It was also mentioned that the design effluent was for the 50 mg/l BOD standards existing at the construction stage. It is now required to fully renovate the plant to meet the present effluent norms of BOD 20 mg/l or less as decided by the SPCB. The preparation of DPR for renovation is stated to be ongoing to be sent to Ministry of Water Resources for funding under the Namami Gange Programme. The treated effluent is going to the KNN owned sewage farm stated to be spread over 3800 Ha. If better design, technology and reuse processes are deployed in the proposed renovation of the sewage treatment plant, Kanpur, Nagar Nigam may beneficially use the treated effluent and some land from the sewage farm for developmental activity.

C. Consultation with the Municipal Corporation, Kanpur and State Officials

The District Administration led by the District Magistrate, Ms. Roshan Jacob, the Municipal Commissioner, Shri U.P.Singh and the team of officials from various Departments participated in the consultations and made presentations for various infrastructure proposals for the development of Kanpur City. The Additional Secretary directed that due to paucity of time, the presenter should directly go to the main concept of the presentation and deal the proposal with 3-5 slides. The Vice Chairman of Kanpur Development Authority, Ms. Jayshree Bhoj also participated.

The following presentations were made:

- 1. Ganga River Front Development:** The proposal involves the beautification of the Ganga River Front at 3 stretches totalling to 11 Kms proposed at an original estimated cost of Rs. 330 crore, which was modified as per the directions of the National Mission for Clean Ganga (NMCG) to Rs. 153.00 crore as a concept note. It is stated that the Hon'ble Minister for Water Resources, River Development & Ganga Rejuvenation (MoWR, RD&GR) accepted the concept note during the meeting on 23.12.2014 and directed that a detailed project Report may be prepared and submitted. Accordingly the Kanpur Development Authority has called for EOIs through the print media till 15.01.2015.
- 2. Kanpur Metro Rail Project:** It is stated that the terms of reference for planning the Metro rail system for Kanpur City were prepared and sent to MOWR, RD&GR by a letter dated 07.08.2014 requesting for appointing RITES for the purpose. Upon accepting the request letter of Uttar Pradesh Government by MoUD, the process for preparing DPR will be started. A fund of Rs.3.00 crore has been allocated under the Contingency Head for preparing the DPR.
- 3. Development of New City:** The Kanpur Development Authority (KDA) has prepared a proposal for reclamation of 1100 hectares of land under the Irrigation Department by Kanpur Development Authority for development of a new & modern City Kanpur. Besides this, a special economic zone being developed by the UPSIDC on the banks of River Ganga

towards Unnao. The project also involves besides the residential settlements, the beautification of Ganga river front and controlling the bank erosion occurring towards Unnao.

4. **Development of heritage sites at Bithoor:** The Bithoor City situated on the left bank of river Ganga has a heritage and historical importance. Lakhs of pilgrims take holy baths in the Brahmavartha Ghats in Bithoor which is also the ashram of Maharishi Valmiki and the place where the Ramayana was written. The other heritage sites are Yathadruv Tila, Sita Rasoi, Nana Rao Park, Rani Laxmibai Park, etc. the Kanpur Development Authority has plans for the development and beautification of Bithoor for which specialist consultants of RCO Homes, New Delhi was selected and the plan is under preparation.
5. **Botanical Garden:** The proposal for Botanical Garden in Kanpur on the banks of River Ganga is made out on approximately 60 acres of land. For developing the concept and planning of infrastructure, a specialised agency in New Delhi has been selected. The proposed botanical garden will include facilities such as 2500 persons capacity amphitheatre; I drive-in Cinema; water museum; entry plaza; street mall; kids museum; wet land garden; amusement park; food streets; banquet hall; party and event lawns; water lake; boat club; cable bridge; etc. it is proposed to integrate the existing Lohia Park while planning and developing the botanical garden. It is estimated to cost about Rs. 15 crore for the garden and an additional Rs. 20 crore for developing the river Ghats in the garden. The concept planning is inspired by models at Singapore.
6. **Construction of multimedia based aquatic show and musical fountain at Children's Park, Motizheel:** For the development of Children's Park, landscaping and a musical fountain, action is already been initiated and the work is in progress at a total cost of Rs. 10.41 crore. It is expected to be completed by March 2015.
7. **Tantya Tope City Park:** The Tantya Tope City Park is planned to have several facilities for the citizens such as Yoga Centre; Aerobics; Jogging Tracks; Children Park; Horticulture such as Creepers and fast growing trees; facilities for the elderly and sick persons; food court; entry plaza; etc. the proposed estimated cost is Rs. 4.88 crore to develop about 1.37 hectares of land.
8. **Beautification of Phool Bagh:** The landscaping in Phool Bagh is proposed to have green belt, terrace garden and beautification.
9. **Restoration work of Historical KEM Hall situated at Phool Bagh:** For the Restoration and rejuvenation of the historic KEM Hall, the Hon'ble Chief Minister in the meeting dated 19.06.2012 had given directions. The Archaeological Survey of India has been engaged to carry out the rejuvenation activities as deposit work. The total estimated cost is Rs. 2.05 crore to be paid to ASI in 3 instalments. The work is in progress and 2 instalments have already been released to ASI.

10. **Beautification of Naveen market:** The 100 year old New Market accommodates about 300-400 shops of various sizes. It faces the problems of overcrowding and parking. To improve the place, the multi-level parking has been proposed along with landscaping; street lighting and street furniture. The total estimated cost is about Rs. 60 crore.
11. **Integrated Traffic Management System:** The District Magistrate and the Vice Chairman, Kanpur Development Authority informed during the meeting that the integrated Traffic Management System based on the Hyderabad Model is already under implementation. The IIT Kanpur is providing technological assistance. The project is estimated to cost Rs. 32 crore.
12. **New Transport Nagar:** In order to decongest Kanpur, the existing Transport Nagar is proposed to be shifted outside the City in three phases at Bhauti on NH-2 over 75.35 hectares land. The phase-wise development of the Transport Nagar is as follows:-
 - a. First Phase on 30.92 hectares with 425 plots.
 - b. Second Phase on 23.74 hectares with 266 plots.
 - c. First Phase on 26.9 hectares with 304 plots.

The development works in all the three phases are in progress at a total estimated cost of Rs. 99.83 crore.

13. **Construction of underground parking at Phool Bagh:** The Phool Bagh underground parking project involving parking in the basement for 650 four-wheelers and 50 two-wheelers is estimated to cost Rs. 80 crore.
14. **Construction of multi-level parking at Canal Track:** This is also a facility for parking up to 180 four-wheelers over 4 storeyed parking space totalling to 8600.32 Sq.km. The work estimated to cost Rs. 7.64 crore is already in progress.
15. **Uttar Pradesh State Bridge Corporation** made presentation on:
 - a. Flyover from Shyam Palace Juhi under Bridge via Deputy Ka Padav – Chacha Nehru Hospital to connect South Zone to Mall Road: Kanpur is divided into North zone and South zone by NH-91 (GT Road) and its parallel Anwarganj-Mandhana Railway line of the North Central Railways. Kanpur South zone has a population of about 15 lakh. Several important markets, shops, malls, theatre, educational institutions, Government offices, Courts and the Collectorate are located in mall road area of Kanpur South. However, there is only one connecting road between the north and south zones via Narendra Mohan flyover. It is over-crowded all the time resulting in spending at least 1 ½ hours for intra-city travel between north and south of Kanpur. To relieve excessive traffic on the single connecting corridor, it is proposed to construct north-south roads from Shyam Palace on Hamirpur road to Chacha Nehru Hospital via Afeem Kothi and Deputy Padoo duly constructing flyovers across the National Highway and Railways. The Municipal Corporation Kanpur has completed the survey and prepared an estimate of Rs. 155.56 crore and submitted it to the

Government. The approval of the proposal by the Railway and their contribution is awaited.

- b. Bridge over Railway from Suklaganj Link Road via Ganga Barrage to Saraiya Crossing: On this road, the TBU is more than 5.00 lakh due to which construction of flyover has become a must. Municipal Corporation Kanpur has prepared a proposal at an estimated cost of Rs. 73.39 crore and sent it to Government of Uttar Pradesh. The proposal is also awaiting its inclusion in the Pink Book of Railways.

16. Uttar Pradesh Irrigation Department made presentation on :

- a. Proposed Construction of Bunds from Ganga Barrage to Rani Ghat: The proposal has been accepted by the Ganga Flood Commission and also got the investment clearance from Planning Commission of Government of India. The Central Water Commission has appraised the cost of the proposal as about Rs. 40 crore, hence, the Government of Uttar Pradesh is to take up the financial clearance, which is awaited.

17. National Highway Division, Public Works Department, Kanpur made presentation on :

- a. Restructuring of Four lane to Six lane of National Highway No. 91 (G.T.Road) from Gurudev Palace to Ramadevi Crossroads: The traffic/transport density is more than 42 thousand PCU per day which requires a 6 lane road. The Commissioner Kanpur Division has written to Government of India for the Technical and Financial Study of the proposed 6 laning to the Ministry of Surface Transport and National Highways for appointing consultants. Acceptance by the Government of India is awaited. The proposal is urgently required as the existing bridge is only two lanes and the road itself is of 4 lanes. The Railway division is already constructing a parallel bridge for portion falling in their lane. It is required to provide connecting flyovers across the bridges to make the entire stretch four lanes. The proposals being already been sent to Ministry of Surface Transport and National Highways. Clearance of the Government of India is awaited.

18. Public Works Department made presentation on :

- a. Construction of road from Kanpur Ganga Barrage to Unnao Border: The proposal for constructing the connecting road of total 10.2 Kms from Ganga barrage to Suklaganj is estimated to Cost Rs. 36.25 crore.

19. Important ongoing works in Kanpur Urban District

- a. Improvement of Gumti (Circus) No. 5 Chowraha: It is estimated to cost Rs. 179 lakh.
- b. Improvement of Anwarganj Chowraha: It is estimated to cost Rs. 161 lakh.
- c. Improvement of Geeta Nagar Crossing: It is estimated to cost Rs. 142 lakh.
- d. Improvement of Gumti (Circus) No. 9 Crossing: It is estimated to cost Rs. 147lakh.
- e. Improvement of Coca Cola Chowraha: It is estimated to cost Rs. 194 lakh.
- f. Improvement of Rawatpur Crossing: It is estimated to cost Rs. 162 lakh.

- g. Improvement of Shyam Nagar Chowraha: It is estimated to cost Rs. 238 lakh.
- h. Improvement of Copperganj Tiraha: It is estimated to cost Rs. 66 lakh.
- i. Improvement of Jhakarkati Chowraha: It is estimated to cost Rs. 83 lakh.
- j. Improvement of Internal Roads in Hilet Hospital: It is estimated to cost Rs. 210 lakh.
- k. Construction of Road from Company Bagh to Ganga Barrage via Kohna Thana: It is estimated to cost Rs. 697 lakh.

20. Important works pending for approvals in Kanpur Urban District

- a. Construction of Road from the Right Ganga Marginal Bund to Mandhana via Ganga Barrage: This proposal at an estimated cost of Rs. 587.36 crore for constructing the Mandhana-Bhauti By-pass road of 9.5 Kms is in the process for administrative approval.
- b. The proposal for constructing road from Ganga Right Marginal Bund to Mandhana via Barrage at an estimated cost of Rs. 3284.14 lakh is in process for administrative approval.

21. National Highway Authority of India : The proposed project involves construction of a standalone ring road, by-pass, grade separators, flyovers, elevated roads, tunnels, road over bridges, under passes, service roads, under NHTP Phase-7 package (1) (Kanpur, Aligarh and Meerut) known as the Kanpur Ring Road. The total length is 105 Kms but the alignment is yet to be approved. The feasibility consultant has been appointed. The pre-construction activities of environmental clearance and forest clearance are yet to be initiated. As the alignment is yet to be approved by NHAI, the land acquisition itself is not initiated. Further, shifting of utilities such as electricity utilities, water supply pipelines and hand pumps are also not initiated, as the identification will be possible only after fixing the alignment. However, the final alignment recommended by the consultant has been approved by the District Administrations of Kanpur and Unnao with District Magistrate Unnao laying the condition with the alignment may not affect their Maha Yojana (Master Plan) 2031 as proposed by Unnao-Suklaganj Development Authority, which is under the consideration of Government of Uttar Pradesh. The details have been forwarded to NHAI but the approval is awaited before taking up the DPR preparation work.

After reviewing all these ongoing projects, proposed ones, etc., Additional Secretary (UD) directed the Municipal Commissioner and the District Administration to go for comprehensive solutions in all sectors. Wherever applicable, proper revenue model has to be built into the projects to ensure their sustainability after completion. Regarding the water supply system, he directed the administration to switch over to 24x7 supply system immediately and that the sewerage project be completed at the earliest.