



# Summary of proceedings

Hindon Yatra Exhibition & Symposium in Muzaffarnagar

August 27 August 2016

## 1. Mr. Pankaj Agarwal - Chairman, Nagar Palika Parishad Muzaffar Nagar

- Welcome to Honorable Union Minister of State, Mr. Baliyan, dignitaries, guests and participants.
- Invited Honorable Union Minister to launch the Hindon Yatra book with 20 good practice examples

## 2. Anna Laninga – Hindon Rejuvenation Coordinator, 2030 WRG

- Purpose of Hindon Yatra Exhibition & Symposium series is to demonstrate the power of multi-stakeholder partnerships for river rejuvenation and exchange knowledge and experiences
- Hindon vision 2030 resulting from extensive stakeholder and expert consultations: a naturally balanced eco-system including both ground- and surface waters which supports life for flora, fauna and people in the region
- Good practice examples compiled in exhibition & book: need to scale up multi-stakeholder action across the Hindon basin and in Kali tributary in particular to achieve vision

- Budget announcement by Hon'ble Chief Minister of UP during launch event of Hindon Yatra Exhibition on 27 June in Lucknow
- Commitment by 2030 WRG to provide technical expertise and make efforts to mobilise funds by compiling Hindon Action Plan for submission at State government
- Call for tangible projects which can be implemented in the next 1-3 years

**3. Professor Nadeem Khalil – Aligarh Muslim University / 2030 WRG consultant**

- Natural Treatment Processes based on Cost-Effective and Sustainable Approaches like Constructed Wetlands
- A presentation on SWINGS Research Project – An Initiative of Indo-European Bilateral R&D FP7 Programme to Convert Sewage to Clean Water Using Green Technologies like Constructed Wetlands in India (especially for rural areas)
- Potential of Wetlands Technology for in-situ treatment in the drains of Muzaffar Nagar within limited resources

**4. Nitin Verma – Managing partner SustainAsia / 2030 WRG consultant**

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**5. Mr. S.C. Kulshreshtha – Chairman & Founder of Shri Ram Group of Colleges**

- Presented an on-going case study of Solid Waste Management of Muzaffar Nagar city led by team from MIT USA in association with Nagar Palika

**6. Mr. Y. K. Jain – Chief Engineer, UPJN Ghaziabad Zone**

- Presented details of the sewerage assets created in Muzaffar Nagar under various schemes of the State/Central Government and need to further augment the sewerage infrastructure. Also highlighted the project prepared under AMRUT yojana for up-gradation of existing STP.

**7. Mr. Kush Puri – Secretary of Indian Industry Association**

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**8. Mr. Vikas Baliyan – Social activist**

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**9. Mr. Vishavratn – Director of Shardein School**

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**10. Mr. Somansh Parkash – Ex-MLA**

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**11. Mr. Kapil Dev – MLA**

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**12. Dr. Sanjeev Baliyan - Hon'ble Union Minister of State for Water Resources, River Development and Ganga Rejuvenation**

- Being from M'Nagar constituency, he apprised the audience about his affection to Hindon River from his childhood days
- Promised to extend all possible help to restore the lost glory of the Hindon and other rivers in this region
- Appreciated the efforts of Dr. Nadeem Khalil and considered application of methods that are developed through the SWINGS project (AMU)

**13. Mr. Pankaj Agarwal - Chairman, Nagar Palika Parishad Muzaffar Nagar**

- Thanked all participants and organisers
- Invited Minister to see Hindon Yatra exhibition with 20 good practice examples
- Invited participants for lunch and technical project development workshop post lunch

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# Summary of Results

Hindon Yatra Exhibition & Symposium 2016

## Project development workshop

### SUSTAINABLE WASTEWATER MANAGEMENT IN MUZAFFARNAGAR

#### “From Vision to Multi-stakeholder Action for River Rejuvenation”

Date : Saturday August 27<sup>th</sup>, 2016

Time : 1 to 3 pm

Venue : Town Hall, Nagar Palika Parishad, Muzaffarnagar

Summary of results Hindon Yatra workshop in Muzaffarnagar on 27th of August 2016

No.	Project proposal / idea discussed	Project coordinator	Status & next steps
1	Water quality quick scan (baseline within 1 month)	NPP & 2030 WRG	<b>Status: planned.</b> Paper Mill Association has a laboratory at Bindlas' mill. They will undertake a simple study to understand the water quality in the drains as of today. Quick scan protocol was developed as project proposal for entire Hindon basin and submitted to UPPCB. Same procedure should be used in M'nagar quick scan, in order to ensure comparability of results with potential future scans in other areas in the basin. <b>Next steps:</b> 2030 WRG consultant to submit adjusted UPPCB proposal to Chairman, decision NPP required on funding, permission from Paper Assoc. to use laboratory, meeting with EO and other NPP staff to assign tasks and make workable plan to execute scan in one month under guidance of 2030 WRG consultant Nitin Verma (SustainAsia).
2	Optimise sewage network and household connections	UP Jal Nigam	<b>Status: project submitted to AMRUT for funding by UPJN</b>
3	Upgradation of existing STP	UP Jal Nigam	<b>Status: planned by UPJN</b> , report expected by 15th September. Maintenance included for 5 years only. No interest by UPJN to explore

			recycling & reuse options (waste water market)
4	Decentralised conventional primary water treatment plants (in drains) combined with sludge composter for energy generation	NPP & 2030 WRG	<p><b>Status: project idea discussed.</b></p> <p><b>Next steps:</b> upon decision by Chairman NPP a situation analysis (field work) should be carried out by NPP staff under guidance of 2030 WRG consultant (Nitin Verma – SustainAsia) to identify suitable locations for 4-5 decentralised structures.</p> <p><b>Deliverable:</b> pre-feasibility report (tbd)</p> <p><b>Planning:</b> first half of Sept. 2016 (tbd)</p>
5	Constructed wetlands: decentralized water treatment through bioremediation (in drains)	NPP & 2030 WRG	<p><b>Status: planned.</b> MoS MoWR requested Chairman to make 100% sure that this will get done.</p> <p><b>Next steps:</b> 2030WRG/AMU to submit a detailed report on the basis of a situation analysis (field work) by NPP staff under guidance of 2030 WRG consultant (Dr. Nadeem Khalil – AMU) to identify suitable locations for 4-5 decentralised structures.</p> <p><b>Deliverable:</b> pre-feasibility report <b>Planning:</b> first half of Sept. 2016</p>
6	Common plastic recycling plant for paper industry cluster	tbd	<p><b>Status:</b> research is ongoing on with TATA in Bindlas Mill to make bricks from plastic waste. Other recycling options possible too (pallets, gasifier etc.)</p> <p><b>Next step:</b> upon decision by Chairman a project proposal could be developed for common plastic recycling plant for paper industry cluster in M'nagar. Tbd who could take the lead.</p>
7	Common effluent treatment plant for large industries (option 1) and/or combined effluent treatment plant for MSME & household (option 2)	tbd	<p><b>Status: project idea discussed.</b> MoS MoWR, Dr. Sanjeev Baliyan showed interest in CETP for M'nagar's industry (option 1). Way forward is not clear as paper mills have recently made large investments in ETP's within their plants. Also ZLD policy would result in no effluent to be treated in CETP.</p> <p><b>Next steps:</b> Option 1 to be checked with local industry associations and feedback to be given to MoS. Option 2: upon decision by Chairman NPP pre-feasibility report to explore if viable for and effective to focus on MSME's and household waste water (tbd)</p>
8	Solid waste management: scaling up implementation of MIT/SRGC pilot research project	SRGC & NPP	<p><b>Status:</b> current ongoing research project by MIT/SRGC is now entering pilot phase.</p> <p><b>Next steps:</b> project proposal to scale up implementation and mainstream solid waste collection, segregation &amp; recycling in entire</p>

			M'nagar town. SRGC to take lead role with support of NPP.
9	Application of enzymes to reduce water pollution in drains, ponds etc. and increase agricultural productivity through organic farming: scaling up from local pilots to district level	Art of Living & NPP (drains) / District Govt. (rural areas)?	<p><b>Status: discussed.</b> Pilot projects are showing good results with waste water treatment and organic farming through application of enzymes.</p> <p><b>Next steps:</b> project proposal to be developed to scale up implementation across Town/District. Art of Living to take lead role with support of NPP / District Government.</p>