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TELANGANA A LEADER IN WASTE MANAGEMENT



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From waste management to waste alternatives: Telangana ready to show the way

Telangana, the youngest state of India, is also one of the most happening states of the country when it comes to innovations and adopting policies that are geared towards effecting changes that directly impact the quality of citizens' lives. It was the result of these committed efforts that for the first time, four cities from Telangana found place in Swachh Sarvekshan, 2018 ranking. In this ranking, Greater Hyderabad was adjudged as the best capital city in solid waste disposal.

The city residents and its civic body, the Greater Hyderabad Municipal Corporation (GHMC), have decided to wage a war against waste by coming up with some radical ideas that are bound to change the city's landscape forever, inching closer to realise the dream of transforming Hyderabad into a truly global city. To achieve this goal, the Government of Telangana, Greater Hyderabad Municipal Corporation (GHMC) and Elets Technomedia Pvt Ltd have put together the National Waste Alternate Conclave in Hyderabad on August 27-28.

The conclave aims to showcase the various innovations of Telangana in the area of waste management. As the state plans to ban plastics and introduce alternative solutions to plastics, the mega conclave will see top experts express their views and participate in deliberations on effective alternatives to plastic.

This special issue of eGov magazine, to be unveiled at the mega conclave, is therefore focused on waste disposal and waste management practices that are transforming lives at every step of the way.

Our cover story, 'Telangana Surging from Effective Waste Management to Waste Alternatives,' captures the trajectory being followed by GHMC that can be emulated elsewhere in the country. It gives us useful insights into various programmes and initiatives undertaken by the civic body to ensure a pollution and disease-free quality life for its citizens.

This issue carries an interview of Dr B Janardhan Reddy, Commissioner, GHMC, who shares his passion for waste management and cleanliness and how it led him to introduce several innovative and unique initiatives that are now being recognised by the Government of India's Swachh Bharat Mission as best practices, and are being emulated in various states.

From GHMC, Bonthu Rammohan, Mayor; Mohammad Musharraf Ali Faruqui, Additional Commissioner-Information Technology (IT), Waste to Energy, SDP-CPP (Special Project Director-Charminar Pedestrian Project); Hari Chandana Dasari, Zonal and Additional Commissioner, have shared their vision and how their efforts to implement effective solid waste management in the city is touching every aspect of the common people's life.

Former prime minister Atal Bihari Vajpayee recently passed away after a long struggle with various illnesses. Our special tribute: 'India Continues to Celebrate Vajpayee's Legacy' in e-Governance,' is an effort to highlight the futuristic vision of this great statesman in e-governance and how his policies in this space set India on a course to provide transparency and efficiency in government service deliveries.

The Department of Energy, Government of Telangana, and Telangana State Renewable Energy Development Corporation Limited, in association with Elets Technomedia Private Limited organised National Power Summit on February 9. The main objective of the summit was to facilitate knowledge sharing and collaboration platform between the private and public sectors. We have shared a detailed conference report of this summit in this issue.

I hope this issue of eGov will prove to be a worthy read for our readers.



रविगुप्त

DR RAVI GUPTA

Editor-in-Chief, eGov magazine, and
CEO, Elets Technomedia Pvt Ltd

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> INTERVIEWS

This section highlights various stakeholders, bureaucrats and policy makers influencing governance in the country.

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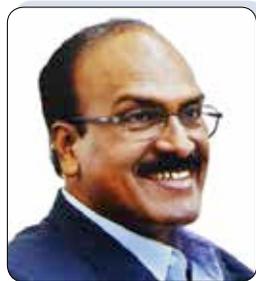


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TELANGANA SURGING FROM EFFECTIVE WASTE MANAGEMENT TO WASTE ALTERNATIVES

Telangana, the youngest and 29th state of India, has been setting trends in various sectors through its proactive and innovative initiatives showing the way to other states. Cleanliness and holistic waste management have been the state's foremost priorities to improve citizen's quality of life, writes **Sudheer Goutham** of **Elets News Network (ENN)**.



The official launch of Twin Bins



GHMC felicitates T Venkataiah, a garbage collector, for his outstanding performance in the field of sanitation and solid waste handling.

Swachh Hyderabad

Positioning its capital city Hyderabad as a global city has been one of the top priorities of the Telangana Government ever since it was formed, and high standards of sanitation was on its agenda right from the beginning.

Towards effective implementation of solid waste management, the Self Help Group (SHG) members have been designated as 'Swachh Doots' and are spreading awareness about Swachh Hyderabad through a door-to-door campaign. As on December 12, 2017, Swachh Doots have helped 9,32,520 households segregate waste at the doorstep.

Greater Hyderabad Municipal Corporation (GHMC) attained Open Defecation Free status for Hyderabad on January 2018.

The city has bagged the National Award in the category of India's Best State Capital/Union Territory in Solid Waste Management in Swachh Survekshan, 2018.

Various activities and new policy initiatives have been taken up for

Swachh Hyderabad -Swachh Telangana under the Swachh Bharat Mission.

- Distribution of 44.04 lakh twin bins to 22 lakh households (blue and green for dry and wet garbage)
- 1,116 garbage vulnerable points (GVPs) eliminated and sustained since March, 2016
- To encourage the staff, Best Practices Day is observed every month, where the best employees in the field of sanitation and solid waste handling are felicitated
- Launch of Parichayam, an initiative of the Municipal Corporation to build a strong public relationship and ensure accountability among functionaries. Contact details of sanitation workers are displayed in the local streets
- Modern Electronic SHE toilets (toilets exclusively for women) are being provided at prominent locations, especially at locations with high footfall of women. The funds for installations are being raised through Corporate Social

SWACHH NAMASKAR

'Namaskar /Namaste' is still the most prevalent and widely practiced form of greeting in India. GHMC is making better use of this cultural practice by introducing the greeting "Swachh Namaskar". The initiative was started among the 30,000 functionaries of GHMC. Further, 10,000 among them are provided with official mobile services and all these phones have "Swachh Namaskaram" as their caller tune. Many a



times, the general citizens are perplexed about hearing this type of

greeting, and invariably show curiosity to know the reason behind the new

concept. It is well received among senior citizens, environmentalists, colony welfare associations, NGOs and so on. This has proved to be simple initiative with scope for widespread escalation among communities with a positive outcome. The same is noticed by the Swachh Bharath Mission (SBM) which communicated this as best practice for other cities in India.

Responsibility (CSR) from various organisations. So far, 32 SHE toilets have been installed and 19 are open to public for use.

- Fuel station and hotel owners were persuaded through Gandhigiri to allow public to use their toilets. About 257 fuel stations and 259 hotels and restaurants have given consent for the public to use their toilets.
- With an aim to sensitise and create awareness, thematic drives are being carried out based on the schedule

Zone-wise swachh ranking have also been awarded for hotels, hospitals, schools, Residential Welfare Associations (RWAs) and markets based on their self-assessments.

notified by the Swachh Bharat Mission portal on January 3, 2018

- Attained Open Defecation Free status for Hyderabad and updated on Swachh Bharat Mission portal on January 3, 2018
- The 'Laathi-Seeti' programme has been adopted by GHMC for arresting open urination and defecation in public places
- Several awareness campaigns with





the slogans - ' Manam Marudam - Mana Nagaranni Swachh Nagaranga Maruddam' 'Lets Change - Make Our City A Clean City', My Hyderabad- My Responsibility have started

- Awareness Programmes on 'Say No to Plastic' are being taken up. Further, banners are erected at meat shops for carrying meat in Tiffin boxes and jute bags
- Zone-wise Swachh ranking have also been awarded for hotels, hospitals, schools, RWAs (Residential Welfare Associations) and markets based on their self-assessments



The Loo Cafe initiative launched by GHMC.

- Propagated the greetings 'Swachh Namaskar' and slogan of 'Unite the

Family' - Divide the Waste' through which the importance of segregation of waste and unity of families among citizens are spread



Arvind Kumar, Principal Secretary, Municipal Administration and Urban Development, Government of Telangana, interacting with self-help group women exhibiting waste alternatives.

Loo Cafe

GHMC's Loo Café is first of kind luxury smart toilet with classy cafes, live monitoring systems to know the details of energy consumption, air circulation, stink and usage footfall.

It is built on the famous "Swiss Knife" concept maximising space and enhancing utility with technology.

It is equipped with automatic sanitary dispenser and CC Cameras outside the toilets enhancing safety and security of the women.

The first ever "Loo Café" was installed

Before Capping



After Capping

near Shilparamam, the premium tourist location of the city. 100 Loo Cafes are coming up manned by the differently-abled to create a livelihood for them.

Capping of Legacy Dump Site at Jawaharnagar

About 10-12 million metric tonnes of mixed solid waste was deposited at Jawaharnagar dump site spread over an area of 339 acres since 1994. After

commencement of its operations, M/s HiMSW Ltd., has shifted to the old waste to one location restricting it to an extent of 103 acres which is called as old dump or legacy dump. This legacy dump is a concern, as it results in:

Contamination of water bodies and land pollution as the Lechate flowing with the storm water contaminate water bodies as well as the soil.

The first ever “Loo Café” was installed near Shilparamam, the premium tourist location of the city. Hundred Loo Cafes are coming up manned by the differently-abled to create a livelihood for them.



Mini Sewer Jetting Vehicles

Fire and consequent smoke hazards resulting in air pollution especially in summers

Odour around the vicinity as the old dump sites emit landfill gases consisting of Methane and CO2

Capping is considered as the only viable



KT Rama Rao, Minister for IT E&C, MAUD, Industries & Commerce, Mines & Geology, Public Enterprises and NRI Affairs launching the faecal sludge treatment plant in Warangal, Telangana.

option with an estimated cost of Rs. 144 crore. The Government has ordered for revision of sharing the capping cost at the ration of 50:50 by GHMC and the Concessionaire with timelines to complete clay cover by June 2018 and other layers by April 30, 2019

Introduction of Mini Sewer Jetting Vehicles

Sewerage management is a critical issue in cities. Often it involves manual worker operating in dangerous and inhuman conditions without any protective gear compromising their health and at times their lives. Unplanned vertical growth of cities leave unprecedented burden on sewers, which often gets choked. Earlier, Hyderabad Metropolitan Water Supply & Sewerage Board (HMWSSB) engaged normal sewer jetting vehicles to clean sewer. But as these vehicles could not move conveniently in narrow sublanes of cities, manual cleaning continues to persist.

HMWSSB moved closer to the elimination of manual scavenging by waiving water cess for effective compliance and implemented Rs 1 tap connections to achieve 100 percent piped water.

As a way forward, the HMWSSB procured specially designed 70 Mini Sewer Jetting Machines. The Minister for Municipal Administration and Urban Development K T Rama Rao launched them in June 2017, which proved to be a

major and long-lasting initiative towards elimination of manual scavenging.

HMWSSB moved closer to the elimination of manual scavenging by waiving water cess for effective compliance and implemented Rs 1 tap connections to achieve 100 percent piped water.

Warangal Sludge Treatment Plant

Warangal is one of the first cities in the county to operationalise Faecal Sludge Treatment Plant (FSTP). Greater Warangal Municipal Corporation (GWMC) in collaboration with Administrative Staff College of India (ASCI) and Bill & Melinda Gates Foundation (BMGF) has established FSTP of 15 KLD capacity in Warangal. The treatment technology used in the plant is based on Pyrolysis. The plant has been functional since December 2017. egov.gov



Swachh Hyderabad – Taking Swachh Bharat a Step Ahead

Taking Swachh Bharat campaign forward, Hyderabad is showing way in cleanliness drive to the entire country, says **Bonthu Rammohan**, Mayor, Greater Hyderabad Municipal Corporation (GHMC), in conversation with **Rakesh Roy** of Elets News Network (ENN).

Please apprise us about 'Swachh Hyderabad' campaign and its initiatives?

In line with the central government's 'Swachh Bharat Abhiyan', GHMC has started the Swachh Hyderabad project with an aim to transform Hyderabad

into a clean, green and slum-free city. Under this initiative, we started 'Swachh Namaskar', which is a unique campaign initiated by GHMC to create awareness among citizens on cleanliness. All the staff members of GHMC greet everyone with a 'Swachh Namaskar' instead of the regular way of greeting. Also, GHMC



Bonthu Rammohan

Mayor, Greater Hyderabad Municipal Corporation

has come up with a mobile caller tune to propagate the importance of recycling and segregating garbage in the city.

In order to educate and sensitise citizens, GHMC has launched a free e-learning course on solid waste management and sanitation activities.

This course is designed to teach the importance of solid waste management and existing scenario of the same in Hyderabad. Also, the course discusses the ways in which GHMC collects, transports, processes and disposes the garbage and also the effects of improper garbage disposal. The course is also available for general public and is a good way to get exposure on solid waste management and sanitation activities handled by GHMC.

GHMC, aided by Radio Mirchi, has initiated an awareness campaign to mobilise citizens and sensitise them about waste management to make a small yet significant contribution to enhance the city's cleanliness. This campaign is planned to extensively support causes like 'Beat the Plastic Pollution', 'Source Segregation', and waste management.

In aiming to curb the menace of plastic, GHMC has accorded approval for imposing ban on manufacturing, supply, sale and use of all types of plastics, including above 50 microns, in the areas falling under GHMC.

GHMC has collected a penalty amount of more than Rs 6 lakhs in the month of

July this year for using plastic less than 50 microns. As many as 1,062 cases have been filed against violators.

GHMC has initiated a novel programme to sensitise citizens about the generation of plastic waste (in a day) and its impact on environment in long term. Under a campaign titled Black-Bag, the authorities in coordination with Resident Welfare Associations (RWAs) and volunteers have collected plastic waste dumped in open plots and held ward-wise rallies throughout GHMC, prominently displaying this collected plastic waste in black-coloured bags.

GHMC has also initiated a signature campaign on "What I will Practice as a Swachh Citizen" to make people realise their responsibilities towards Swachh Hyderabad and Swachh Bharat Mission. The campaign was held in public areas such as shopping malls, bus stations, metro stations, universities and cinema halls, etc, where citizens were asked to provide consent for at least one swachh practice such as source segregation, practice home composting, carrying cloth bags to super markets, carrying tiffin boxes to meat shops, avoiding open littering on roads, avoiding open

urination/ defecation, etc.

GHMC has been certified as Open Defecation Free (ODF) on 27th December, 2017. As per ODF protocol and norms, the ODF recertification happens every six months. Accordingly, GHMC has completed its field inspection for ODF recertification on 11 July, 2018 and GHMC has been successfully re-certified as an Open Defecation Free city.

Hyderabad generates nearly 5,000 metric tonnes of waste every day. How is GHMC managing the solid waste and its sustainable disposal?

GHMC has distributed 22 lakh (wet and dry) household twin bins and for daily door-to-door collection 2,500 swachh auto tippers are provided by replacing tricycles. It is observed that the waste collection efficiency is improving year by year.

The waste collected from different sources has been transferred to 21 intermediate transfer stations through SAT vehicles. From these transfer stations, the solid waste is transported to final processing plant (Hyderabad Integrated Municipal Solid Waste Management Plant) located at Jawaharnagar and operated by Ramky Group.

The wet waste is converted into compost and dry waste is converted into RDF (Refused Derived Fuel), while inert material is sent to scientific land filling. GHMC has taken up new project named as capping of existing old dump site located at Jawaharnagar.

These measures helped in improving daily waste collection efficiency, otherwise the city would have experienced garbage vulnerable points and waste being thrown on street side, in parks, into nallas and lakes creating nuisance and health hazards.



GHMC in collaboration with ITC and Godrej introduced 30 Dry Resource Collection Centres (DRCCs). The facility has the ability to segregate all recyclables from the mainstream input to make sure they are recycled back to their original plastic form by using double stage extrusion.

Each centre has been built with a capacity of five tonnes and can easily handle 2-3 tonnes per day of recyclables on an average all throughout the year. These centres are run by ragpickers as an additional livelihood opportunity to better their living with nearly 70-100 families for each centre.

What are the initiatives taken by GHMC to provide sanitation to its citizens?

In order to promote source segregation, GHMC has launched 'Swachh Dhooth' mobile app, offering Rs 10,000 as a cash prize every month for one lucky winner who practices wet and dry waste segregation at home and uploads it through the app. It is further proposed to re-energise the campaign for promoting source segregation.

Which are the other elements areas GHMC is presently focused on to make Hyderabad a world-class city?

As a step towards promoting gender sensitive planning, GHMC has proposed to install 50 'SHE Toilets' in various parts of the city organisations under Corporate Social Responsibility (CSR) of private companies. Among these, 32 units are open to public, three units are pending with site disputes and remaining are under progress. Recently, SHE toilets of GHMC have been bestowed with prestigious ISO 9001:2000 certification. This way, privacy, dignity and safety of women are being ensured. In order to declare GHMC as a bin-less

Following are the list of infrastructure (Toilet Facilities) developed towards the citizen's usage:

Abstract on Public Toilets		
S.No	Type of toilet	No. of toilets present in GHMC
1	BOT	139
2	Prefabricated toilets	101
3	Sulabh toilets	46
4	Engineering toilets	9
5	She toilets	34
	Total	329

- Community Toilets – 20
- Consents received from Hotels/Restaurants accessing the usage of toilets for general public – 257
- Consents received from Fuel Stations accessing the usage of toilets for general public – 259

city, a circular has been issued to all GHMC officers to initially implement this in six circles as a pilot project.

In 2016, 1,116 major Garbage Vulnerable Points (GVPs) were identified and eliminated throughout GHMC. Further, the spots were sustained by beautifying with rangolis, ornating with plants and wall painting reflecting 'Swachhata' messages and celebrating various festivals at the locations.

The Greater Hyderabad Municipal Corporation has decided to set up 178 integrated smart washrooms (toilets) free of cost across the city. The corporation has invited tenders to take up the project in Build, Finance, Operate and Transfer (DBFOT) basis. Recently, a model smart washroom, named 'Loo Café', was piloted in Serilingampally zone and received great appreciation from the public. The GHMC will hand over suitable sites to selected agencies for installation of the smart washrooms under certain terms and conditions. The agencies shall install the smart toilets with separate entries for men, women and differently-abled persons and with all required facilities such as

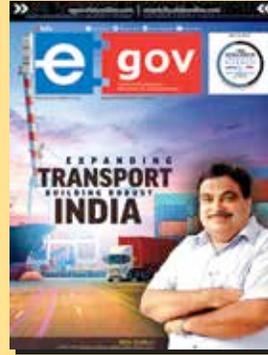
water, ramps, handrails and sanitary napkin vending and disposal arrangement for women. They have to operate and maintain the toilets without collecting usage charges from the public.

GHMC stands first and top in the list of corporations using social media platforms for citizen services and complaints. It is the first corporation in India to maintain a robust and systematic mechanism in handling public complaints. Hyderabad citizens are using Twitter, Facebook and MyGHMC App extensively in bringing out civic problems to the notice of GHMC.

Instructions have been issued to all the BBGs to install on-site composting units within their premises for treating bio degradable waste generated.

In order to sensitise citizens towards waste segregation, GHMC has proposed to advertise the sense of responsibility (towards waste segregation) by playing jingles by the Swachh Auto Tippers (SATs) while collecting the garbage generated by all the residents across GHMC and implemented accordingly. 

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Dr B Janardhan Reddy
IAS, Commissioner, Greater Hyderabad
Municipal Corporation

“Telangana Ku Haritha Haram (TKHH) is a flagship programme of the Government of Telangana with the objective of raising the forest cover of Telangana to 33 percent of its topography.”

Promoting the spirit of Swachh Bharat

As the saying goes that passion fuels innovation, the passion of **Dr B Janardhan Reddy**, IAS, Commissioner, Greater Hyderabad Municipal Corporation, for waste management and cleanliness has proven beneficial to the society which started much before he held his current official responsibilities. Several innovative and unique initiatives introduced by him are now being recognised by the Government of India's Swachh Bharat Mission as best practices, which are being emulated in various states, finds **Sudheer Goutham** of **Elets News Network (ENN)** in an interaction with the commissioner.



Dr B Janardhan Reddy, Commissioner, GHMC receiving Prime Minister's Award for Excellence in Public Administration 2018 and for Excellence in Implementing 'Pradhan Mantri Awas Yojana'

You have coined the term 'Swachh Namaskar' and introduced this cultural practice besides promoting the slogan, 'Unite the family and divide the waste'. How did you come up with these ideas?

When we constantly think and work towards making something happen, ideas

come and innovation takes place. Yes, these best practices have been introduced and invented by us and are being emulated in various states and municipal corporations to promote the spirit of Swachh Bharat. This initiative was also acknowledged and mentioned by the Union Minister of Urban Development Shri Hardeep Singh Puri in a national conclave recently held in Indore.

GHMC has taken up several campaigns and educative initiatives for people to curb the plastic use. What concrete steps in terms of imposing a ban of single-use-plastic have been taken?

GHMC has already sent proposal to the government on banning the single-use-plastic. In this connection, we are working on three point agenda - IEC (Information, Education and Communication, complete policy frame work and producing plastic alternates/substitutes by empowering women groups. The United Nations executive director on June 1, 2018 announced that GHMC is heading towards imposing a complete ban of single-use-plastic by 2022. Further, it has been estimated that in Hyderabad there are over 20 lakh families, who use five plastic covers (single-use) each to carry articles, vegetables, fruits, non-vegetarian products and other routine groceries. In order to beat this trend, we are encouraging and educating citizens to use plastic substitutes like jute and cloth bags, steel tiffin boxes, etc. We are encouraging Self-Help Groups (SHGs), entrepreneurs and plastic manufacturers to produce alternates for single-use plastics in adequate quantities.

Now that Hyderabad has attained 'Open Defecation Free Status' and bagged the National Award as India's best State Capital/ Union Territory in Solid Waste Management in Swachh Survekshan 2018, what is GHMC's further vision in solid waste management and cleanliness?

Our aim is to increase citizens' participation and ensure 100 percent segregation of waste at source and decentralised composting units.



Talking about decentralisation, can you throw some light on decentralisation of GHMC as an organisation?

The state government is decentralising organisations for better efficiency. GHMC has been re-organised into six zones and 30 circles. Further, the government's proposal to set up 10 zones and 50 circles is under process. This will bring in more efficiency in managing Hyderabad.

Can you tell us about the green campaign - Telangana Ku Haritha Haram initiative?

Telangana Ku Haritha Haram (TKHH) is a flagship programme of the Government of Telangana with the objective of raising the forest cover of Telangana to 33 percent of its topography. In urban areas it is being taken up as an initiative to enhance green cover. This project is more crucial for urban areas, as it encourages development of lung spaces which in turn improves

livability of a place. On a single day on July 11, 2016, a record plantation of 29.19 saplings was done. The programme was a huge success as it registered participation of about 40,000 NGOs, volunteers, RWAs and involvement of 104 organisations, with planting of 193 types of plants in 4,173 locations.

In 2017-18, GHMC could plant around 76.91 lakh saplings across the city in municipal open plots, government institutions, parks and various roads as avenue plantations.

Similarly, GHMC plans to achieve around 45 lakh plantations in 2018-2019. As on date, 32 nurseries are being maintained at various locations for the benefit of residents. Every effort is being made to involve all the stakeholders like school students, senior citizens, RWAs, NGOs, government institutions, corporate and public representatives, among others, with an objective to plant maximum saplings in every available space. egov.gov

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**PROGRAMME CHAIR
SANYAM AGGARWAL**
CEO, Ludhiana Smart City
Limited and Addl. Commissioner,
Ludhiana Municipal Corporation

Key Themes

Water Supply, Quality and Smart Meters | Sewage - Recycle & Reuse and Storm Water | Renewable Energy Sources
Town Planning and Development | Economic Development Activities | Smart Transportation | Affordable Housing and any more...

Participation From

Government of India

Ministry of Housing & Urban Affairs | Ministry of Road, Transport & Highways
Ministry of Electronics & Information Technology | Department of Telecommunications

State Governments

Urban Development Departments | Housing & Energy Departments | Transport Departments | Municipal Corporations

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smartcity.eletsonline.com/ludhiana

EVENT CALENDAR 2018-19

EVENT NAME	PLACE	MONTH
URBAN / SMART CITY		
National Waste Alternate Conclave, Telangana	Hyderabad	27-28 August
Smart City Summit	Ludhiana	05 October
Almora Innovation Summit	Almora	October
National WASH (Water, Sanitation & Hygiene) Summit	New Delhi	19 November
IT / GOVERNANCE / TOURISM / INFRASTRUCTURE		
Digital India Conclave	Chandigarh	30 August
National Transport Summit, Uttar Pradesh	Lucknow	September
Power IT Summit	New Delhi	October
PSU Summit	New Delhi	November
TECHNOLOGY / BFSI		
Elets Secure IT Summit	Mumbai	October
5 th NBFC100 Tech Summit	Mumbai	November
4 th BFSI Leadership Summit	Mumbai	December
HEALTH		
Healthcare Summit, Madhya Pradesh	Bhopal	14 September
Healthcare Summit, Rajasthan	Jaipur	27 September
Healthcare Summit, Uttar Pradesh	Lucknow	September
EDUCATION		
2 nd HE-HR (Higher Education-Human Resource) Conclave	Jaipur	6-7 September
8 th School Leadership Summit	Indore	28 September
Pre School Leadership Summit	New Delhi	06 October
13 th World Education Summit	Hyderabad	30 Nov-01 Dec

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TECHNOLOGY CORE OF ADMIN SERVICES IN TELANGANA



Considering citizens as the biggest stakeholders in governance, Greater Hyderabad Municipal Corporation is using technology to bring in transparency and efficiency to deliver various services, says **Mohammad Musharraf Ali Faruqi**, Additional Commissioner - Information Technology (IT), Waste to Energy, SDP-CPP (Special Project Director - Charminar Pedestrian Project), Greater Hyderabad Municipal Corporation (GHMC), in conversation with **Rakesh Roy** of **Elets News Network (ENN)**.



How does technology help bring in transparency and efficiency in governance, especially in the context of your vision to create 'Brand Hyderabad'?

Technology, which brings in transparency and efficiency, is a very succinct description of today's modern approach to define the role of government. At GHMC, we use technology as the core of our administration services. Be it solid waste management, waste water treatment, sanitation and drinking water or public grievance, technology is the last link that will connect us to the next level.

Technology will transform the way the government works and interacts with citizens. It is very important in a

democracy that people work closely with governments to solve the existing problems mutually. As citizens are the biggest stakeholders in governance, citizen expectations and government delivery have to be on the same page with technology bridge the existing gaps.

Apprise us about the 'waste-to-energy' initiative taken up by you for the city?

Hyderabad is going to get its first waste-to-energy plant in May, 2019 at Bibinagar. It will be one-of-its-kind power plant in the country that will



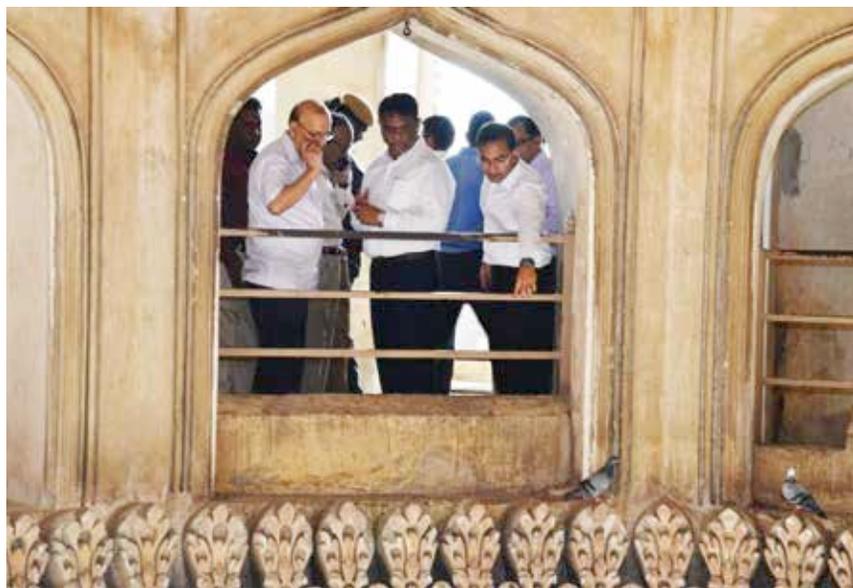
produce energy out of waste. The city produces around 5,000 metric tonnes of garbage every day and there is still scope of collecting more garbage through door-to-door collection method. The city has the potential of generating around 70-80 MW electricity on a daily basis through waste. GHMC is planning to generate around 100 MW electricity by installing more such power plants.

The Bibinagar plant will generate around 12 MW electricity, while the second plant with the capacity of 19 MW will come up at Jawahar Nagar. GHMC is also planning to install two-three more power plants to achieve the target of generating 100 MW electricity using garbage in the next three years.

You have set an example for others by coming to office on bicycle. How do you plan to involve more people and officials of GHMC to participate in this initiative?



We, at GHMC, strongly believe in practicing what we preach. We also believe that citizens should be more responsible towards making the city better. Global cities like Hong Kong, Singapore and New York are role models for their citizen engagement practices. With this little initiative of using bicycle for transportation at least once a week, we can cut down the carbon footprint to



“Hyderabad is going to get its first waste-to-energy plant in May, 2019 at Bibinagar. It will be one-of-its-kind power plant in the country that will produce energy out of waste.”

a large extent. GHMC is making efforts to connect more and more people to this initiative so that Hyderabad can be made a world-class city. At GHMC, we are going to set up a stand for 20 bicycles with the help of Association of Hyderabad Cycling Club.

What are your plans to make Hyderabad a global city?

Hyderabad, which was established in 1591, has a very rich heritage and history. The city has all the ingredients of a global city. However, it lacks behind when it comes to branding and promotion.

In order to create 'Brand Hyderabad', it is imperative to align more citizens to the vision, taking proactive approach in governance and leveraging technology to project the city and its vast culture in a big way.

What is the progress of Project Charminar and Musi River beautification?

Project Charminar was conceptualised in 1996, however, it could not be started for a long time. After the formation of Telangana state, much emphasis has been put on the project. In the last one year, we have been successfully pedestrianising the Charminar area. All the junctions in all four directions are now no-vehicle zones, and only vehicles of commuters and local citizens are being allowed in this area. We seek to give this area a world-class look, protect the monument for the future generation and promote tourism. Restoration work of Charminar and Pathargatti are underway. Makeover projects of Laad Bazaar and Makkah Masjid are in pipeline. As far as the market and hawkers around Charminar are concerned, we have come up with

“To make Hyderabad the most livable city in the world, we need more and more citizen participation, suggestions and feedbacks from all sections of the society.”

an innovative solution to shift them to a new hawker bridge on the Musi river. Once these projects are completed, the entire landscape of Charminar and its surrounding areas will be changed.

The Government of France is assisting us in designing a tramway around Charminar and the area of old city, including Musi. GHMC has drawn up plans to treat the water of Musi River with the help of technology. In the next few years, Charminar will be completely restored and Laad bazar



will have a new façade. With a ring all around Charminar, it will be transformed into a walker's paradise. With the completion of these initiatives, Charminar would see a huge jump in number of tourists visiting it and would be considered one of the best tourist destinations of the country.

You have been interacting with a lot of youngsters through the

Swachh Hyderabad programme. How has been their response?

We have been interacting with youngsters and students on various platforms through this programme and the response has been encouraging on every occasion. Hyderabad has a huge number of students pursuing different courses. We are aiming to involve at least 10 lakh students to actively participate with the government. As of now, we have registered around 2,000 students for the Swachh Hyderabad Internship Programme. We will come with more programmes to engage more people in different age groups.

What is your message for the citizens of the city?

Hyderabad is a world-class city. To make Hyderabad the most livable city in the world, we need more and more citizen participation, suggestions and feedbacks from all sections of the society. GHMC is working very hard to make service delivery easier for the citizens. We invite citizens to work mutually with us to make Hyderabad a word-class city in a true sense. egov.gov





Hari Chandana Dasari

Zonal and Additional Commissioner, Greater Hyderabad Municipal Corporation (GHMC)

Hyderabad Moving Towards Plastic Alternatives

Use of plastic is so prevalent that it can cover half the planet. It is an environmental disaster and we know how the environment is drastically changing due to it. We have to be cautious about our future. Waste alternatives can change the future, says **Hari Chandana Dasari**, Zonal and Additional Commissioner, Greater Hyderabad Municipal Corporation (GHMC), in conversation with **Sudheer Goutham** of **Elets News Network (ENN)**.



Hari Chandana bestowed with 'Best Innovation Award under Swachh Bharat Mission at Elets' Smart Livable & Resilient City Conclave, Pune 2018

“We have seven lakes under adoption and beautification. One of them is ready for inauguration. We have spent Rs 15 crores on that so far. We will be spending another Rs 40 crore on that lake alone.”

Please tell us about the vision of GHMC on banning single-use plastics.

States like Maharashtra, Tamil Nadu and Himachal Pradesh have been taking steps in completely banning of plastic. However, Telangana is conceptualising plans to curb the plastics menace step-by-step. We need to change the local dynamics and also the dynamics of manufacturing and consumer consumption. Therefore, we have decided that we will go step-by-step, wherein first we will encourage people to adopt alternate waste management solutions and give them a better alternative to

plastics, and then we will look for enforcement. First, we want to convince people that there are better and safer alternatives. Through Elets Waste Alternate Conclave, we will showcase the alternatives to people. After people get inspired, we will go ahead with a complete ban on plastic usage.

Tell us about the 'Loo Cafes' initiative launched recently in Hyderabad.

Loo Cafes is one of the most innovative initiatives of GHMC. We have toilets everywhere but their consistent maintenance is a major issue. So, we

decided to link toilets with a place where food is eaten because wherever we eat food, we tend to keep it as clean as possible.

The idea is based on the premises that once we open a café and install a toilet there, people will not think of making the place dirty. It will also serve as a place for customers that can be used in multiple ways. For example, after using the washroom, citizens can read newspapers, pick up a coffee or a chai, etc. We are also installing ATMs in these cafes. By keeping all these facilities in one place and creating a commercial model around it, we will ensure that the toilets are maintained regularly. Having ATM at these cafes will ensure vigilance through security camera along with a security guard. When a cafe will be opened, the local community will try to keep it as clean as possible. It is also a business opportunity for the person running the cafe. It is a zero-cost project for the corporation. We are inviting private companies to install the cafes in PPP mode.. GHMC will provide the land lease and other permissions to run and maintain of these cafes..

According to you, which part of the society will get the maximum benefit of it?

The initiative is mainly design for women as they don't feel safe going to toilets alone. We have a person manning the cafe 24 hours so that they feel safe. We are planning to open 130 such cafes across the city. Few will be taken up soon.



Lake beautification by GHMC

other such Public Private Partnerships (PPP) model projects GHMC is planning for?

This is a one-of-its-kind of experiment. We are also looking at other ways of waste management. We are mulling biomethanation and power generation from wet waste. We have experimented with the compost a lot but selling and mass production of compost is an issue. Municipal waste always has mixed components. So, we are open to building biomethanation plants under the PPP model. Right now we are going for the Corporate Social Responsibility (CSR) model where companies pitch in to produce CNG out of waste. The CNG is then given to Swachh Autos.

The PPP projects are mostly for the beautification of the city. We are using them in sustainable practices. There are some companies which come and train our women in creating artifacts from water hysil, which is a pollutant. We keep removing it every three months. It becomes another part of our wet waste dump. But recycling it creates employment.

What are your plans for the beautification of lakes in Hyderabad?

We have seven lakes under adoption and beautification. One of them is ready for inauguration. We have spent Rs 15 crores on that so far. We will be spending another Rs 40 crore on that lake alone.

Seven other lakes have been adopted by various companies under their CSR initiatives. Work is in progress on them.

What is your vision to turn these lakes into a tourist spot?

Everybody likes being around a water body. We



want to develop lakes first as local hotspots where people can come, relax and enjoy nature. And then, we want to develop larger lakes into national tourist spots.

You have engaged youths through various initiatives. Can you highlight some of them?

We started a programme called 'Swachh Interns'. Citizens normally want to contribute to the city but they don't know how to do it in a structured way.

We designed this programme where they are asked to come and volunteer and that too in specified sectors like cleaning of lakes, or take up door-to-door campaigns. So every week they will be doing one of these activities which will make them aware more about city's environment. This will help in waste management and will also give them an opportunity to do something for the society.

What is your message for the citizens of Hyderabad?

Use of plastic is so prevalent that it can cover the half the planet. It is an environment disaster and we know how the environment is drastically changing due to it. We have to be cautious about our future. Waste alternatives can change the future. [e.gov](https://www.e-gov.in)

Kudikunta Lake - Before Intervention



Kudikunta Lake - After Intervention



‘Live the Lakes’: How Kudikunta was infused with new life

Hyderabad was once home to 800 lakes dotting its unique landscape that has withstood the test of time. However, indiscriminate urbanisation and unplanned development have left the city reeling under pressure leaving all but 185 lakes that are alive today. While decades of neglect might have left these lakes struggling for life, there is still hope on horizon.

The Society for Advancement of Human Endeavour’ (SAHE), a non-profit which was formed with the intent of doing social impact activities across the city of Hyderabad, has

shown us the way as to how concerted efforts and a collaborative approach to transform lives can do wonders.

SAHE in association with the Government of Telangana, Greater Hyderabad Municipal Corporation (GHMC) and Pernod Ricard India Charitable Foundation, structured the first ever lake protection committee that included the government, citizens and corporates working together for the common cause, and the results were beyond expectations.

The project SAHE undertook was the

‘Live the Lakes’ is a need of the hour initiative taken up by the not for profit society ‘Society for Advancement of Human Endeavour’ (SAHE), which was formed with the intent of doing social impact activities across the city of Hyderabad. It also organises the highly appreciated TEDx events, impacting positivity in the lives of the citizens.

restoration work of the Kudikunta Lake, where the frothing phenomenon demanded quick action. With a population of about 25,000 in its catchment area, the lake bore the brunt of ceaseless dumping of waste and sewage, making its water devoid of life.

There were multitude of challenges for SAHE when the restoration activities were taken up at the lake. However, the NGO decided to work on each challenge in an organised manner by creating awareness and working closely with communities and civic bodies.

The excess sewage dump was dealt with sewage treatment and segregation and working with researchers to create awareness and clean up drives. This approach over a period of few months led to an improved quality of water and brought cheers to the community that was adversely affected by it.

Being a mosquito breeding ground, the polluted water of the lake had become a prime source of diseases like dengue for the citizens living nearby. Spreading awareness in the

PROBLEM	ACTION	RESTORATION
Excess sewage dump	In collaboration with communities and civic bodies, the sewage treatment and segregation Working with researchers to get cheaper methods of awareness started with clean-ups	Improved quality of the water
Mosquito breeding causing dengue in the citizens nearby	Spreading awareness in the community Oxidation of the water using bio-enzymes works at 2 levels	Removal of the stench from the water, thus reducing the air pollution, and does not let the mosquitoes breed
Deteriorating quality of water	A paddle aerator with 1.5 HP motor installed on a floating island will aerate the water with oxygen	Improved quality of the water for the aquatic life – more fishes, more birds, and no stench!
Compromising appeal & quality	Using coir pitching instead of concrete for making bund edges, trash booms and bamboo board pathways	Improved lake surroundings & overall life

community and using bio-enzymes for oxidation of the water helped SAHA tackle the problem on two levels – removal of stench from the water, thus reducing the air pollution, and inhibiting the mosquitoes to breed in the lake water.

organisation used coir pitching instead of concrete for making bund edges, trash booms and bamboo board pathways around the lake to improve lake surroundings and overall quality of life of those related to it.



To reverse the deteriorating quality of water, a paddle aerator with 1.5 HP motor was installed on a floating island to aerate the water with oxygen. The end result was an improved quality of water for the aquatic life – fishes and birds, and removal of stench.

Months of hard work finally paid off as the lake, which was once a drinking water resource, sprung back to life. For the first time in decades, residents living in the vicinity of the lake started returning to its banks for their morning walk.

The pool of life-less water with stench emanating from its blackish water has been restored and this feat is going to play an exemplary role in providing life to more such water bodies in Hyderabad city and elsewhere in India. e.gov

(The case study in this article was provided by Society for Advancement of Human Endeavour (SAHE), an NGO working in Hyderabad)

The voluntary



V Srinivasan
Founder and Chairman, eMudhra



“Our offerings are split into four distinct areas, all of which enable digital transformation. Our Identity Governance suite focuses on sophisticated authentication and identity management solutions to enable firms to offer digital services with peace of mind.”

IoT Ecosystem Defining Role in Smart Cities

IoT Security platform of emSecure safeguards the identity and communication in IoT ecosystem through constant monitoring and controlling of IoT devices by using Public Key Infrastructure (PKI), says **V Srinivasan**, Founder and Chairman, eMudhra, in an Exclusive Interview with **Poulami Chakraborty** of **Elets News Network (ENN)**.



Give an overview of emSecure. How does it enable solutions related to the enhancement of Smart Cities?

emSecure is an IoT security platform focused on securing the identity and communication aspects of the IoT ecosystem in Smart cities using Public Key Infrastructure (PKI). Each device in the IoT network, and user who is accessing any application to monitor and control the IoT devices, is assigned with a unique digital certificate. The emSecure platform uses PKI technology to validate this identity at each device/device or user to device interaction that takes place within the platform. Further, the platform uses hybrid cryptography to encrypt and decrypt all communications, thus adding another layer of security to

the IoT framework. Using PKI-based validation protects the system from botnet attacks.

What are the other solutions that eMudhra is having in its kitty for supporting the Digital India campaign?

We are a company focused on digital transformation and a vast majority of our offerings are built to enable the same. Our offerings are split into four distinct areas, all of which enable digital transformation. Our Identity Governance suite focuses on sophisticated authentication and identity management solutions to enable firms to offer digital services with a peace of mind. Then, we have a PKI suite which focuses on Advanced Encryption, Digital Signature

creation, and more. The purpose is fundamentally to enable creation and management of digital signatures, which is a key component in any digital transformation journey. Then, we have the emSigner Suite which focuses on paperless transformation in a regionally and globally compliant manner. Finally, we have a Big Data and Analytics suite focused on anomaly detection, fraud analytics, which essentially helps institutions to automate the evolution of actions based on real-time market insights in a future-proof manner.

What plans eMudhra has in its kitty to make its mark abroad?

We started our global journey about a year ago. Today, we already have 70 partners spread across 36 countries in the region of Africa, Middle East, Far East and Latin America. We have seen strong demand for our offerings due to our progression towards digital transformation across most of the global markets. In the coming year, we plan on opening our offices in the US with a more active focus on growth in the Western markets. We also hold the vice-chairmanship of the Asia PKI Consortium, and members of our management team are part of the UN/CEFACT council focused on making progress in blockchain globally. We are currently in talks with regulators across various countries to further understand regional nuances around digital transformation and evaluate how further we can help them in achieving their digital transformation vision.

Towards the end of the last year, eMudhra has announced to develop blockchain solutions for Smart Cities. What has been the advancement on this so far? What kind of solutions are in the pipeline from tech-startups to enable enhancement of Smart Cities?

There has been a significant development

on this front. As a company with a focus on Identity management, progression towards blockchain was inevitable. This is primarily because, in most use-cases, identity forms a very important element in the blockchain network. emBlock was an initiative which came out of emLabs. As of now, this has moved out of emLabs and is now a ready-for-market proposition. emBlock uses the hyperledger fabric and makes adoption of blockchain simple through an intuitive dashboard and a simple set-up process. We are currently working on some early stage initiatives focused on communication security and redundancy in smart city networks using blockchain. Other than emSecure and emBlock, we are working with various manufacturers to address various hardware limitations around IoT security at the manufacturing level itself.

emSigner is a solution designed to enable enterprises go paperless. How widely has this been adopted across the country? How have been the responses towards the solutions? Do you think that our country is capable of going paperless completely at this stage?

emSigner is one of our flagship solutions. It has been adopted in a large way by a large number of customers across all verticals. Currently, emSigner powers various government e-Office systems, various large domestic and global companies, eCommerce companies, telcos, SMEs, and more such organisations. Some popular use cases we have seen are bulk signing of invoices and other documents, digital HR processing, digital onboarding, and digital contracts processing for select industries.

We are working on more use cases focused on Education and Healthcare which will be rolled out shortly. The response to emSigner has been truly amazing and fulfilling for us, especially since we could see a shift towards paperless transformation. India is quite

advanced on the digital and paperless front as compared to the other countries in the world. In fact, many initiatives that have been done here are being studied by other markets who are now, vying for this adoption.

What major challenges do you face while operating in the Indian ecosystem?

Operating in any market comes with its own set of challenges and must be addressed. In India, the primary downside that has an impact businesses is the relatively lower price level of our offerings as compared to the international markets. Despite being in a niche segment in the Indian IT market, it is still difficult to command a price at par with international markets. Hence, organisations here generally have to compensate price with volume to make for a meaningful business. Besides, there are challenges surrounding infrastructure and reliability of services, both of which are critical to IT operations. However, in sensitive IT-focused companies like eMudhra, we are compliant with various requirements to have redundancy in place to manage these elements.

eMudhra recently enabled Aadhaar-enabled payment system. Please elaborate a bit on this product and how has been the response in the market?

eMudhra's NACH Mandate offering was an innovative offering which enabling paperless collection of direct debit mandates using eSign, which resulted in huge cost and time saving for Corporates and Banks. At the outset of launching the solution, we saw immense interest from Banks and payment service providers. Transaction volumes were also very high. However, given the various process and regulatory changes, with respect to Aadhaar and eSign, we are working to understand their impact on usage of eSign for NACH mandates. [mca.gov](https://www.mca.gov.in)



Amit Gossain
Managing Director, Kone India

“Our plan for the future is to have the widest state-of-the-art product range to fulfil the needs of our customers in India and provide best of services in the industry.”

Kone India: Offering global expertise to meet Indian needs

Innovation has been one of the most significant elements of Kone – a market leader in escalator and elevator manufacturing. While designing its products for the Indian market, the company provides a unique mix of global expertise and Indian requirements, says **Amit Gossain**, Managing Director, Kone India, in conversation with **Harshal Desai** of **Elets News Network (ENN)**.

Please brief us on Kone India's operations and its growth in recent years?

Kone India has come a long way since its inception in 1984. Today, the organisation is supported by over 4,500 employees who are spread across the country at our more than 40 branches. We have our head office, factory and research and development wing located in Chennai.

India is the second-largest market for escalators and elevators in the world – more than 50,000 units are sold every year in the country. We are proud to say that we are leaders in the industry with a market share of more than 20 percent. We call ourselves a 'People Flow' company. We not only manufacture escalators and elevators, but also play a role of consultant. We also guide and educate our clients on the kind of escalators and elevators they should install and exactly where they should install them.

We have been named among the 100 most innovative companies – 8th year in a row – by Forbes. We are

headquartered in Finland, and Kone India is 100 percent subsidiary of Kone Corporation. Innovation has been one of the most significant elements of Kone. While designing our products for the Indian market, we make use of global expertise and consider Indian requirements – for example, elements of Vastu Shastra – as well.

Will you please tell us more about the manufacturing unit located in Chennai?

Our production unit in Chennai produces elevators for the Indian market as well as for Bangladesh, Nepal and Sri Lanka. The production unit also manufactures components for modernisation projects in other Asian-Pacific markets such as Australia, Korea, Singapore and Malaysia.

We also have a training centre in Chennai where Kone's installation engineers and field mechanics are trained to meet Kone India's strong reputation for high quality and uncompromised safety, as well as the expectations of Indian customers,

when installing and maintaining elevators and escalators. Kone's global technology and engineering centre is a testing and research hub, which supports the latest technology and development of future Kone solutions.

You have recently joined hands with IBM. Can you please elaborate on this partnership?

We have entered into a partnership with IBM with special emphasis on adding cognitive analysis into our servicing capabilities and rolling out solutions based on Internet of Things, and it is part of our innovation initiatives. With this collaboration, all our escalators and elevators across the world can be connected. In simple words, it means that with this technology, we will be able to monitor all our escalators and elevators 24X7. It will allow us to offer more streamlined services to our clients. In near future, our customers in India will also benefit from this technology.

What are the U-MonoSpace and U-MiniSpace elevators?

Our U-MonoSpace has been designed for low-to-mid-rise buildings. We are proud to say that these are the world's first machine room-less elevators. Besides, we have also designed the EcoSpace elevator, which are machine-room-less traction elevator, and these are quite apt for low-rise buildings from 2 to 15 stories. These elevators are also an energy-efficient alternative to hydraulic elevators, and can fit in an existing hydraulic elevator hoist way. The Kone U-MiniSpace elevator with a small machine room is often used in high-rise buildings.

What are your views on Internet of Things (IoT)? How is it going to impact your business strategy?



In India, buildings are getting taller and there is a need to manufacture smarter solutions. Internet of Things, which allows a machine to interact with another machine, actually enables us to develop smarter solutions.

What steps are being taken by Kone to reduce its carbon footprints?

In June 2013 the company launched a new high-rise elevator technology called 'Kone UltraRope', which enables future elevator travel heights of one kilometre. The product is light due to its carbon fibre core and a high-friction coating. Because of these qualities, elevator energy consumption in high-rise buildings can be cut significantly. Besides this, our EcoDisc Motor reduces the amount of energy lost as heat. We have designed motor control system and brakes in such a way that elevator doesn't make much noise.

Which part of the country is generating maximum revenue for Kone India?

Revenue is equally divided in North, South and West India with East slightly lower at the moment.

What are your views on India-Finland business relationship?

Both the countries have got good business relations. The Prime Minister of Finland had travelled to India last year. Finland Embassy is quite active and working on strengthening business ties with India. The Indian government is playing a big role in promoting cross border businesses. India's annual trade with Finland has crossed \$1 billion. According to reports, Finnish companies have invested \$419 million between 2000 and July, 2017 in India. Last year in November 2017, foreign minister of both the countries had met and reviewed bilateral relations.

What are your plans for the future?

Our plan for the future is to have the widest state-of-the-art product range to fulfil the needs of our customers in India and provide best of services in the industry. 

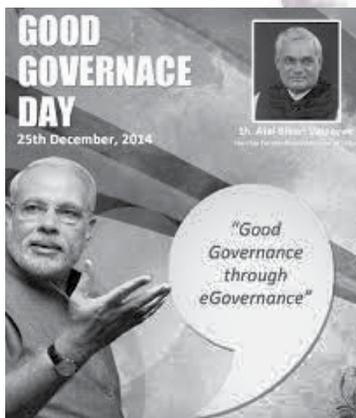


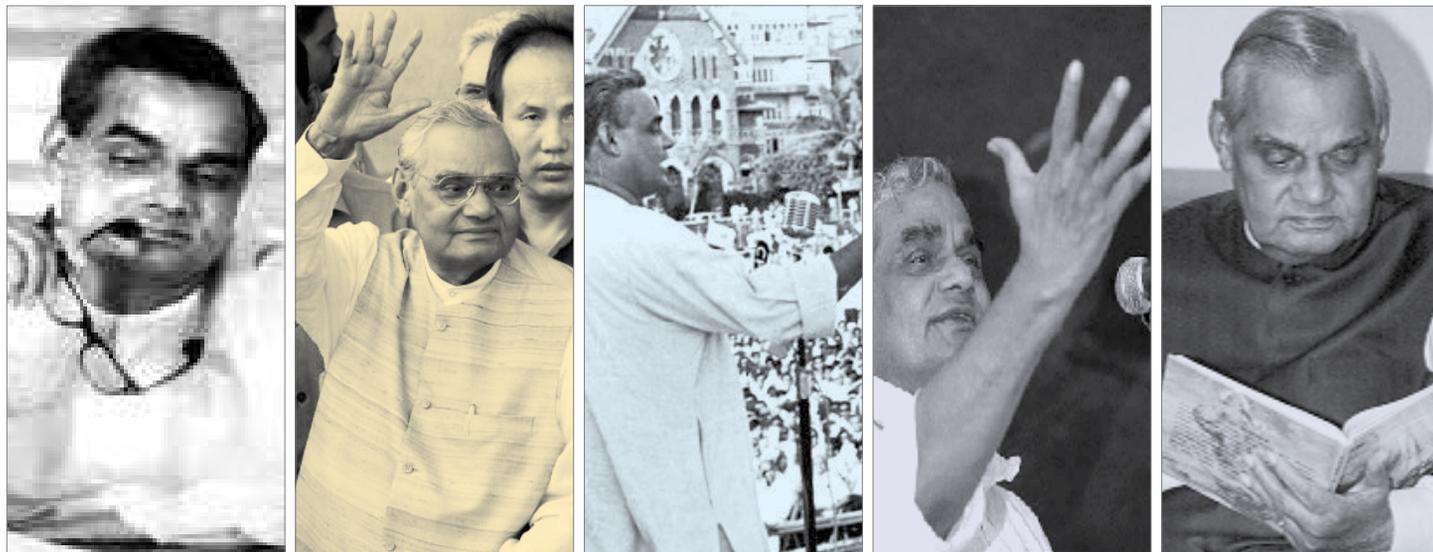
INDIA CONTINUES TO CELEBRATE VAJPAYEE'S Legacy in e-Governance

Former prime minister Atal Bihari Vajpayee was a visionary leader, who had realised the significance of e-governance in bringing about transparency and efficiency in government service delivery. India continues to reap the benefits of his approach to good governance, writes Vivek Ratnakar of Elets News Network (ENN).



Former prime minister Atal Bihari Vajpayee is no more but his legacy in e-governance space is very much alive and thriving in India. It was during his third tenure as prime minister that the ministry of information technology came up with an ambitious Rs 26,000 crore e-governance programme consisting of 26 projects for various central ministries. The five-year programme promised to transform governance in India through various digital initiatives. In his address on August 15, 2002, the then prime minister announced the National e-Governance initiative with an objective





to link grassroots public services with those at the macro level.

“The Ministry of Communications and Information Technology will implement a comprehensive programme to accelerate e-governance at all levels of the government to improve efficiency, transparency and accountability at the government-citizen interface. E-Bill Post and internet-based E-Post Service network will be expanded to cover all districts in the coming year,” he said in his address.

“The establishment of Media Lab Asia, a joint collaboration between the Department of IT and the Massachusetts Institute of Technology, USA, has been an important initiative to address the challenge of Digital Divide in India and other developing countries. It would pursue high-end research in four areas germane to the needs of rural India: World Computer (low-cost computing devices); Bits for All (bringing low-cost connectivity to the doorstep of rural masses); Tools for Tomorrow (creation of low-cost learning tools to bring out the spirit of innovation among the rural youth); and Digital Village (where the above three research programmes would be demonstrated for palpable impact).

Media Lab Asia has been designated as an

Asian Regional Hub of the United Nations ICT Task Force for coordinating activities of academia and the private sector in the area of IT for the masses,” he added.

The programme stands as a testimony of the great vision that the former prime minister had of a new India, bringing governments and citizens closer through transparency in service deliveries. “India will embrace technology even more comprehensively and confidently as we modernise our agriculture, industry, services, and governance. We are steadily increasing spending on R&D both in public and private sectors. We have set for ourselves the ambitious target of IT For All by 2008,” he said at the Asia Society 12th Annual Corporate Conference in 2001.

It was owing to the futuristic vision of Atal Bihari Vajpayee that helped the Ministry of Corporate Affairs digitise the records of companies and making all filings and data retrieval online a reality. The success of many such projects had a spiralling effect and led to several other innovations like introduction of a digital framework for the value-added tax programme in states.

Recognising Vajpayee’s contribution in governance space, the present government led by Narendra Modi recently decided to mark December 25,

which is the birthday of the statesman, as ‘Good Governance Day’. The move is aimed at creating awareness on the government’s commitment to offer a transparent and accountable administration in the country of which digital is a major part.

Vajpayee realised the significance of futuristic policies that touched lives of every citizen across the country as India was entering the 21st Century under his visionary leadership. “India’s police personnel in the new century have to be intelligent, disciplined, suave and adept in the use of modern technology. That is the only way to keep pace with the changing profile of crime, for example, cyber crime and cyber terrorism,” he said at a conference of DGPs and IGPs in 2001.

He was also among the few leaders who understood the impact of public-private partnership in transforming India as a digitally connected country to bring in efficiency, transparency and improving citizens’ interface with the government.

He was one of the tallest leaders India has produced and will continue to inspire the policymakers to design and implement people-centric policies to ensure India stays ahead among the community of nations when it comes to governance. e.gov



elets
NATIONAL
POWER SUMMIT
TELANGANA 9th FEBRUARY 2018



CONFERENCE REPORT 2018

INDIA'S GROWING POTENTIAL IN CLEAN AND GREEN ENERGY

The Department of Energy, Government of Telangana, and Telangana State Renewable Energy Development Corporation Limited, in association with Elets Technomedia Private Limited had organised National Power Summit on February 9 this year. The main objective of the summit was to facilitate knowledge sharing and provide a collaboration platform between private and public sectors.

The summit witnessed panel discussions on the themes of Large, Medium Capacity Renewable Energy (Solar, Wind, Small Hydro) Generation and PV Tariff Design and Way-Forward, Demand and Supply, Challenges & Opportunities for Future Sector and Global Collaborations for Joint R&D Projects.

Telangana is on the threshold of emerging as a power surplus state in the next few years. The State government, in line with the emphasis laid nationally and globally on the use of renewable energy, has taken many initiatives to be at the forefront of renewable power generation and conservation.



Telangana's Transformed Power Sector Setting High Bench Marks- Vision, Mission & Opportunities



**Chief Guest
AJAY MISHRA**
Special Chief Secretary, Department of Energy,
Government of Telangana

Telangana has an immense potential in the energy sector and we are committed to increase the percentage of renewable power generation in our State. We have crossed more than 3,200 MW and constantly seeking the support of our IT sector in energy utilities to make it more efficient.



ANDREW FLEMING

British Deputy High Commissioner, Hyderabad

United Kingdom is in full admiration for India's target to bring renewable energy capacity to 175 GW by 2022 and its commitment towards decarbonisation of the economy. We both believe that cleaner energy is not just the right thing to achieve but also the smart economic move towards energy goals.



JOSA KARRE

Counsellor for Commercial Affairs, Embassy of Sweden

Earlier, Sweden was entirely dependent on fossil fuels for its energy needs but now we are learning how to replace them with the renewable ones. We would also like to congratulate India on emerging as a leader in global struggle under climate change and taking an inspiration from its initiatives.



GAURAV AGARWAL

Vice President, Product Cloud and Data Center Services, Sify Technologies Ltd

The next wave of innovation in the power sector is to be driven by business analytics, real-time monitoring, intelligence from the data, Artificial Intelligence, Internet of things (IoT) and a new set of IT structure would be required for it.



VINAY KUMAR P

Chief Operating Officer, Greenko Group

By having a balanced portfolio of clean energy of 3,500 MW, we own and operate wind, solar, biomass, hydro assets across the 10 states. For making India more energy efficient, we need tariffs which are time variable, location-based and cost-reflective. The Governments also need to be more transparent in handling subsidies.



A SUDHAKAR RAO

Vice Chairman & Managing Director, Telangana State Renewable Energy Development Corporation Ltd (TSREDCO)

Telangana has taken many innovative steps in power generation and distribution and has become a role model for other States. Our policies and missions have helped us to reach the target of 4,000 MW renewable energy and this will also help us to accelerate the promotion of renewable energy market.





Solar, Wind Energy Generation and Technologies




RAGHUNATH MAHAPATRA
Head Solar Grid Business, Hero future energies

As a manufacturer, we are trying to invest in technology to do forecasting based on the past trends, artificial intelligence, and some sort of algorithm to tap maximum PLF (Plant Load Factor).



PARAG SHARMA
Chief Operating Officer, Renew Power Ventures Pvt Ltd

All the State Governments should allow open access transaction in renewable energy space to invite Indian companies which want to buy renewable power. Our solar power needs some serious amendments, clarification, and implementation so that the credit worthiness of the sector gets increased.



RAJESH K MEDIRATTA
Business Development, Indian Energy Exchange

Power generation market needs some policy intervention in terms of power trading. Renewable energy surplus states should be allowed to sell their power in the market so that deficient states can buy from there. To push more growth in the renewable energy market, plants must be allowed to sell their energy during peak hours of demand.



Large, Medium - Capacity Renewable Energy (Solar, Wind, Small Hydro and others) Generation and Integration Challenges, PV Tariff Design and Way-forward



DR R K PANDEY
(Director General)
National Power
Training Institute

Hybrid power generation is quintessential for sustainable growth of India but it must be complemented with advanced control layers for coordinated power exchange. For more penetration of renewable energy, we must introduce intelligent power controllers with IoT for real-time monitoring.



G RAGHUMA REDDY
Chairman and Managing
Director, Telangana
State Southern Power
Distribution Company

The future of energy will belong to renewable power, primarily to solar power and it will have more opportunities than thermal power. But still, the State should advocate open market for renewable power, remove bottlenecks in land acquisition and allow open access transaction for this sector.



UPENDRANATH MADAN
Director, Meghalaya New
and Renewal Energy
Development Agency

For the integration of renewable energy into conventional power system, it is the workforce which needs to be empowered with the current energy trends and systems. To achieve this, we need to invest in our education system, otherwise integration would be a problem, despite having the latest technology.



DAANISH VERMA
Executive Vice
President, SIB, Yes
Securities,
Yes bank

Renewable energy has now become mainstream and India is now known for the most competitive solar tariffs in the world. As a committed financial organisation, we have cumulatively funded close to 7.5 GW of renewable energy capacity, primarily in wind and solar.



Demand vs Supply: Challenges and Opportunities for Future Energy Sector



RAJAT CHANDRA SARMAH
Executive Director, North Eastern Power Corporation Ltd

A support mechanism has to be implemented to promote the non-conventional energy sources, solar and wind in hill regions, especially in North-Eastern States. NSPC is the first PSU which has taken this initiative to harness the hydro and solar power in these states. Most importantly, India can't afford to discard conventional energy right away.



S G CHAWRE
Executive Director, Maharashtra State Power Generation Corporation Ltd.

Our current power generation has touched the high toll of 1,3602 MW due to our transparent and efficient State discom policy. Our Hydropower generation is 2,580 MW and 180 MW as solar power. We are making some sincere efforts in increasing our renewable power toll and even using sewage treatment water in our units in a bid to save fresh water.



RAJEEV SINGH
General Manager, Central Coalfields Limited

Energy sufficiency is a prerequisite if India wants to retain its position as a fastest growing economy and in which Coal will continue to occupy the centerstage in India's energy needs by considering the limited reserves of petroleum and natural gas and realise its aim to power for all by 2020.



VENKATESAN NARASIMHALU
Rural Electrification Corporation Ltd

Committed to the cause of rural electrification of the nation, we are funding various projects and working as a nodal agency for the government projects working in the electrification of villages. We have also partnered with 30 engineering colleges for the inclusion of new concepts in smart energy.

Global Collaborations for Joint R&D and Deployment Projects



K N HEMANTH KUMAR
Manager, Energy Efficiency Service Ltd

EESL vision is to become a world leader in technology, clean energy, innovation, and in energy efficiency and we are going to invest Rs 5 billion next year to achieve this. We have also identified new areas like MSME and industries which is where energy efficiency has to be implemented.



RAHUL JAIN
General Manager, International Business and Technology, Renew Power Ventures Pvt Ltd

Taking all the R & D initiatives along with us, we are among the first renewable energy companies which took industrial academy partnership very seriously and launched the Centre of Excellence at IIT, Delhi. This research is about clean energy and how the grid will affect both transmission and distribution level.



JVSD PRASADA RAJU
Senior Vice President, Greenko Group

Peeping into the future, we have to look for new technologies to promote non-conventional energy resources and keep our struggle against this climate change. On its part, Greenko is doing a lot of work in automation, artificial intelligence, and actively working on analytics-based management, including operation, maintenance and trading.



GAJJALA SURYAPRAKASH
Chief Executive Officer, Archimedes Green Energies Pvt Ltd

Human population growth and the rising demands of costly conventional energy are truly a cause for concern. So to support the shift to the non-conventional source of energy, Archimedes Green Energies has launched a wind mill which can operate efficiently at low speeds, low cost and is fit for both urban and rural areas.



DR G RAJESH GANGAKHEDKAR
Head, Center for Energy Economics, Institute of Public Enterprise

Through our Centre of Excellence, we have reviewed various research papers on energy efficiency in residential electrical consumption and set future research directions for India. IPE has taken the subject of residential electrical consumption because it increased 10 times since 1971 and constitutes 1 quarter of Indian electrical consumption.



RAM KRISHNA RAO
Telangana State Renewable Energy Department Corporation Ltd (TSREDCO)

From a power deficit to self-sustainable energy State, Telangana is generating 3,200 MW solar energy to meet agriculture, domestic and industrial loads. We are also planning to make it to 5,000 MW and promoting wind policy and solar wind hybrid policy. Our ambition is to reach 8,000 MW in the near future.



SREENIVASA
Joint MD, TSTRANSCO & TSGENCO

With the support of the State Government, we have formulated short, medium, and long term policies to make state self-sustainable in energy needs. TSTRANSCO and TSGENCO has the ambition to achieve 25,000 MW by 2022 and we are investing Rs 2,000 crore per year to root out the loopholes in both transmission and distribution.



Dignitaries visiting the expo

Greenko



Greenko is a leading Renewable Energy company, replacing fossil fuels with integrated decarbonized energy and grid assets enabling sustainable and affordable energy, with a net installed capacity of **3.2 GW** across 13 States in India and over 2 GW in pipeline.



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www.greenkogroup.com



Headquartered in Hyderabad, Greenko is leading the digitisation, decarbonisation and decentralisation of the Indian energy market by providing utility-scale, clean and affordable energy to meet the country's long-term energy security needs. The group is committed towards transforming renewable energy from real-time energy to a dispatchable and controlled medium through digitisation and storage solutions to support the economy-wide shift towards a carbon-neutral electricity mix in the country.





GAURAV AGRAWAL

Vice President

Product Cloud & Data Centre Services
Sify Technologies Ltd

The next wave of innovation in power sector is going to be driven by business analytics, real time monitoring, intelligence from the data, artificial intelligence, Internet of Things etc. This require a new set of IT infrastructure. We build data centres. We are India's leading MPLS service providers. Our job has been to connect BFSI segment cutomers., DOP, power sector companies etc. We have done a project with the department of posts which is one of the largest projects in the world. We have delivered IT infrastructure in power data centres and have also delivered it as a platform. We cover security end-to-end as well.



Special edition of eGov magazine being launched by the dignitaries at the National Power Summit.



Gaurav Agrawal, Vice President, Product Cloud & Data Centre Services, Sify Technologies Ltd being welcomed by Dr Ravi Gupta, CEO, Elets Technomedia Private Limited.



- Pioneer in providing DC Hosting and Cloud Services in India with 250+ man-years of experience
- Designed and built 6 Tier III DC's with 2 lakhs + sq. ft. and 6 more DC's to be completed by 2020.
- Proven experience of large integrated project delivery
- Extensive experience in delivering to Govt. and PSU Organizations

Location	Capacity	Power	Status
Noida Delhi	2,85,000	10 MW	Existing
Bangalore	32,000	4 MW	Existing
Chennai	32,000	60 MW	Existing
Hyderabad	10 MW	-	NEW
Rabale Mumbai	-	-	NEW
Vashi Mumbai	-	-	NEW
Airoli Mumbai	-	-	NEW
Total (New)	3,10,000	100 MW	

10 lac sq. ft. of server farm | 180 MW Power in 2020



elets
NATIONAL POWER SUMMIT
 TELANGANA, HYDERABAD
 9th FEBRUARY 2018

The Department of Energy, Government of Telangana, and Telangana State Renewable Energy Development Corporation Limited, in association with Elets Technomedia Private Limited organised National Power Summit on 9 February. The summit facilitated knowledge-sharing and collaboration platform to the private and public sectors.



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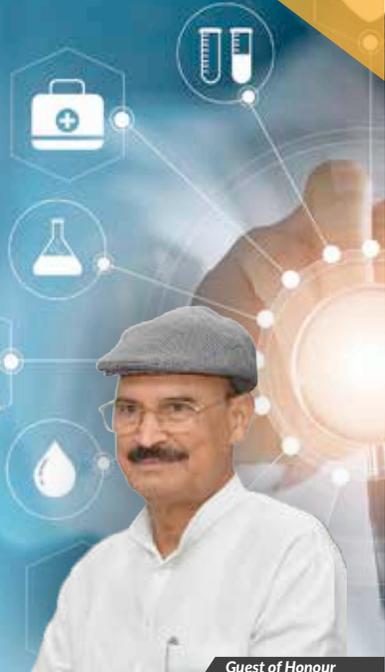
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Bhopal, 14th September 2018

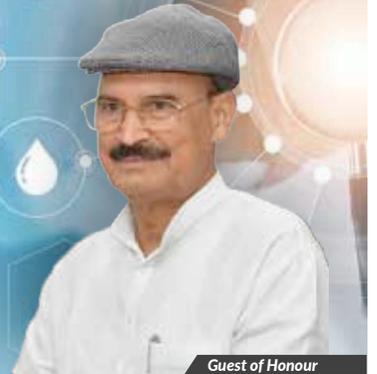
Ensuring Healthcare
Transformation Through

TECHNOLOGY & INNOVATION



Shivraj Singh Chouhan

Hon'ble Chief Minister of Madhya Pradesh



Guest of Honour
Rustam Singh

Hon'ble Minister of Public Health & Family Welfare
Government of Madhya Pradesh

Public Health and Family Welfare Department, Government of Madhya Pradesh along with *Elets Technomedia* are organising *Healthcare Summit, Madhya Pradesh* on *14th September* in *Bhopal*.

The objective of the summit is to deliberate the best minds & discuss innovation in Healthcare delivery system.

PROGRAMME MENTOR



Gauri Singh

Principal Secretary
Public Health & Family Welfare Department,
Government of Madhya Pradesh

PROGRAMME CHAIR



Dr Pallavi Jain Govil

Commissioner-Health Services
Public Health & Family Welfare Department,
Government of Madhya Pradesh

CO-PROGRAMME CHAIR



Dhanaraju S

Director-Health Services
Mission Director-NHM
Public Health & Family Welfare Department,
Government of Madhya Pradesh

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FOR MORE INFO VISIT:

healthsummit.eletsonline.com/madhyapradesh/2018/



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Aparna Constructions has been building some of the most iconic gated communities for the past 21 years. And through these years, we have embraced the concept of green and sustainable building to give back to the community with every brick we lay.

It is our sincere effort to use our resources efficiently, maintain our projects smartly and build a future that is worthy of the generations to come.

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