

संचार संवाद SANCHAR SAMVAAD



Director General Telecom, Sanchar Bhawan, New Delhi





Message from Secretary DOT and Chairman DCC

Dear Officers

Best Wishes for new year and the 73rd republic day.

I am glad to know that the Second Edition of **'Sanchar Samvaad'**, a quarterly magazine is being brought out by DG Telecom. On this occasion, I would like to wish, all of you a happy and healthy new year and extend my warm greeting.

I believe that the internet is a key growth accelerator and there are endless possibilities for innovation that can happen in the area of broadband. The data revolution in India has accelerated and the voracious appetite displayed by the Indian netizens for data consumption is about 14.73 Giga Bytes per subscriber per month quarter ending Sep 2021, as per the latest quarterly performance indicator and it keeps rising every month.

Affordable mobile broadband is a principal catalyst, of this remarkable transformation & upward of consumption of data across both, rural and urban markets.

Putting Bharat net to effective use by enabling licensees like ISPs, VNOs, etc., to access bandwidth. LSAs must use the State Broadband Committee and good offices of Chief Secretaries to encourage State Departments to connect all village and rural institutions like schools, hospitals, primary health centers, Krishi Vigyan Kendra's, Village Libraries, co-operative institutions, rural skill centers, etc., using Bharatnet.

The Hon Prime Minister's vision of PM-WANI is to provide quality, reliable and affordable data connectivity to the people across the nation especially in the rural areas where it is critical for education, healthcare, and livelihood, as the proliferation of Public Wi-Fi hotspots will lead to increase in employment for small and micro-entrepreneurs and provide them with an additional source of income. Therefore, I urge all of you, to work with and encourage micro-entrepreneurs and licensees in setting up more & more public Wifi hotspots in hospitals, bus stands, metro railway stations. Hon PM has given a target to set up 1 million hotspots by 2024.

Further, the rollout of 5G will necessitate the need for more towers & therefore it is important that we work in close coordination with State governments for getting cleared pending ROW permissions on war footing enabling erection of towers and installation of OFC links. Sugam Sanchar portal has been set up for this purpose. LSAs need to work on mission mode for enabling the integration of Sugam Sanchar with the state's portals. The state governments have been sensitized and we need to closely follow up.

With best wishes to all of you,

K. Rajaraman

Secretary DoT & Chairman DCC

मुख्य संपादक वरिष्ठ संपादक सह मुख्य संपादक संपादक रजनी तनेजा डॉ महेश शुक्ला नरेश खन्ना अमित सिंगल

वरिष्ठ उप महानिदेशक डीजी मुख्यालय वरिष्ठ उप महानिदेशक हरियाणा एलएसए उप महानिदेशक डीजी मुख्यालय उप महानिदेशक (सुरक्षा) हरियाणा एलएसए





DG Telecom

Message from DG Telecom

Dear All the officers of the Department of Telecom,

I am very happy that the second edition of **Sanchar Samvaad** for the quarter ending 31.12.2021 is being published. On this occasion and on 73rd republic day, I extend my best wishes to all of you.

In the unprecedented time of the Pandemic, the importance of the telecom sector has been witnessed by all. The Telecom sector has been successful in meeting the challenges with a huge surge in data consumption, online education, work from home, interpersonal connect through social media, virtual meetings, etc. With the active coordination with the State Governments, LSAs have also played a critical role in ensuring that Telecom services are kept operational during this difficult time.

Implementation of the National Digital Communication Policy (NDCP) and the National Broadband Mission will go a long way to fill the digital divide and enable the creation of a truly digital society. LSAs have to play a pivotal role to ensure that all programs of the Government are implemented successfully. I am sure that LSAs will leave no stone unturned in their efforts in the implementation of policies of the Government. The Sanchar Samvaad provides a platform for the LSAs to share their experiences and best practices adopted

by them. Yours

Nizamul Haq, DG Telecom

National Broadband Mission (NBM) - NBM envisages fast paced penetration of Broadband across the country, and in all the villages by 2022. In this connection a meeting was held on 15th December 2021, with the States and Field Units of DoT, to discuss the "Central online portal for monitoring RoW applications and its integration with state portal(s)". The meeting was chaired by Shri K. Rajaraman, Secretary (T). Shri Hariranjan Rao, AS (T), Shri Nizamul Haq, DG(T), DDG (Security, O/o DGT), DDG (Broadband Mission) and senior officers from state government were also present. Secretary (T) noted that the Broadband penetration is low in some LSAs which may be most likely due to the misalignment of ROW rules. The problem could be exacerbated in light of planned 5G rollout in near future, which will require much higher bandwidth. Therefore Secretary (T) insisted on making provision of Row rules alignment of each State with RoW Rule-2016 of centre.

Haryana LSA: Successful PoC of ASTR (AI and Facial Recognition Powered Solution for SIM Subscriber Verification) which has been developed in house by Haryana LSA was done in the Mewat Region of Haryana & approx. 4.25 lakh suspected numbers were weeded out.

Security unit HR LSA arranged a training session on CMS on 22nd Dec 2021 in the office of LEA- Enforcement Directorate,

wherein the queries of LEAs regarding the operational difficulties while using CMS system were addressed. **Haryana LSA**: Azadi Ka Amrit Mahotsav & Vigilance Awareness Week was observed in Haryana LSA under the leadership of Sr. DDG Dr. Mahesh Shukla. Key activities which were done include taking Integrity Pledge by all staff members of Haryana LSA on 26th Oct 2021. Further a lecture was organized on 26th Oct 2021 on Vigilance and ethics in public life and Mrs Divya Bansal, Head Cyber Security Research Centre at Punjab Engineering College, Chandigarh was the key speaker.

A day long, Telecom Awareness Mela was also organized at Plaza, Sector 17, Chandigarh which is one of the most visited locations of Chandigarh. Pubic showed great interest in the event and got benefited through discussions with organizers. On 8 different issues such as cyber-crime, EMF radiations etc which are of importance, to the general public, pamphlets were got printed by Haryana LSA and distributed in the Mela.

On 31st Oct 2021 i.e., the birth anniversary of Late Sardar Vallabhbhai Patel, a 'Cycle Rally' was organized in Panchkula which was a grand success. Large number of Staff members from DoT, BSNL and Telecom Service providers participated in the cycle rally. Painting competitions were organized in 2 schools at Ambala on 28th Oct 2021 and 1 school at Panchkula on 29th Oct 2021. More than 40 students in each school (i.e. total 120 students) participated in this competition.







Tamil Nadu LSA: Shri Deepak Tayal, Sr. DDG, TN LSA met Dr Neeraj Mittal, Principal Secretary IT, Govt. of Tamil Nadu and discussed the proliferation of PM-WANI access points in public places. A "PDOA Meet" was conducted by TN LSA on 02.11.2021 chaired by Sr.DDG, TN LSA and attended by PDOAs registered by TN LSA to understand the deployment model and future plans for proliferation of APs by PDOAs. 4 PDOAs and 1 App Provide have registered by TN LSA during the period.





As a part of Azadi Ka Amrit Mahotsav celebrations the Compliance Vertical, TN LSA conducted essay and drawing competition open to school and college students of Coimbatore. Prize distribution ceremony was held in the O/o DDG(C), Coimbatore, TN LSA on 29.10.2021. **Odisha LSA**: PDO brochure in Odia and English was inaugurated on 12.01.2022 under the chairmanship of Shri B.K. Nayak, Sr. DDG, DOT, Odisha. From DOT side Shri Pandey Vijay Bhushan Prasad, DDG(S) and Shri Subrat Kumar Prusty, Director (Technology) were present. From Odisha's PDOA SOUL side Prof. Sasmita Samant, Chairperson SOUL and Vice Chancellor KIIT University were also present.



The SOUL limited launched its 1st Public Data Office on 14.01.2022 to the public in the Kalarabanka, Raghunathpur Area of Cuttack District. Shri B.K. Nayak, Sr. DDG, DOT, Odisha and Shri Pandey Vijay Bhushan Prasad, DDG(S) were present.



AP LSA : Graphical visualization of mobile coverage (shortly referred as RF coverage) portal:



For ascertaining the RF coverage at village level, presently DoT is depending on data provided by TSPs. The GIS RF coverage portal is developed for the graphical visualisation of mobile signal coverage across the country. The project takes inputs from TSPs, crowdsourcing apps, mathematical modeling, inputs from telecom robots etc in predicting the RF coverage across the country. Finally, an Artificial intelligence tool will be built-in to predict the coverage across the country through development of a Golden Model. The portal provides percentage coverage of villages; districts & States-TSP and technology wise. The percentage coverage TSP wise, overall percentage coverage – technology wise and overall percentage coverage (combination of coverage available across all TSPs and technologies) of any village boundary is available (over the village and as downloadable



sheet)

AP LSA: Cycle Rally on 01.11.2021: On the occasion of VAW2021, to create awareness among the public on Vigilance and prevention of corruption, a cycle rally was conducted at Hyderabad. Cell on Baloon Project: The Proof of Concept (PoC) is being implemented in Nurmathi village of G.Madugula mandal in Visakhapatnam district, with balloon floating at a height of 100 mtrs in the 1st phase covering 6 villages using Wi-Fi hotspots.



Rajasthan LSA: A webinar/seminar under the chairmanship of Sr. Deputy Director General, DoT, Rajasthan LSA with PM-WANI entrepreneurs (PDOAs/APP Providers/PDO) was conducted on 01.11.2021. In this webinar/seminar PDOAs/PDOs and other stake holders i.e. TSPs/ISPs/BBNL & CDOT participated actively. CDOT briefed the PM-WANI frame work and answered the quarries raised by PDOAs related to certification by Central registry.

UP(East) LSA: DOT, UP(East) LSA, Lucknow and UP State Government jointly organised a North Region Zonal Conference on PM Gati Shakti at Lucknow, Uttar Pradesh on 3rd December 2021. The event witnessed the presence of Hon'ble Chief Minister Shri Yogi Adityanath, Hon'ble Minister of Communications, Electronics & Information Technology and Railways Shri Ashwini Vaishnaw, Hon'ble Minister of State for Communications Shri Devusinh Chauhan, Hon'ble Infrastructure and Industrial Development Minister Shri Satish Mahana and Hon'ble Minister of State Industrial Development Department Shri Dharamveer Prajapati.

The conference was also attended by Chief Secretary Uttar Pradesh Shri Rajendra Kumar Tiwari, Member (Services), Digital Communications Commission, Department of Telecom Shri Ashok Kumar Mittal, Additional Chief Secretary- Industrial Development Shri Arvind Kumar and Director General- BISAG-N Shri Tejpal Singh and senior officers of 15 Central Government Ministries and 8 Northern State Governments of Delhi, Uttarakhand, Himachal Pradesh, Punjab, Chandigarh, Haryana, J&K & Ladakh and host State Uttar Pradesh.





Maharashtra LSA: On 25.11.2021, the steering committee of MH LSA, DoT for 5G, comprising of Shri Vishwanath Kendurkar DDG, Shri Jaykumar N Thorat Director, Shri Vinay Jambhali Director, Shri Avinash Khatri ADG and Shri Badawath Naresh ADET, visited the demonstration of 5G use cases site at Ramee Grand Hotel, Pune.



Second state level webinar headed by LSA head Shri R.K. Choudhary was held on 23.12.2021



Punjab LSA: Punjab Unit of DOT, headed by Senior Deputy Director General Shri. Naresh Sharma, celebrated the Government of India's Programme Azadi Ka Amrit Mahotsav by conducting an Inter College Quiz Competition in collaboration with the Chandigarh University at their Gharuan Campus, PB on 27th OCT 2021.A total of 6 teams from different colleges participated in the competition. The team of Punjab Engineering College emerged as the Winner and team of CCET stood runners up in the competition.





Punjab Licensed Service Area (LSA) organized an Entrepreneur's meet on Prime Minister Wi-Fi Access network Interface (PM-WANI) on 11th November 2021 under the chairmanship of Sr DDG Shri Naresh Sharma, Punjab LSA. Large number of Entrepreneurs and prospective PDOA/PDO/Application providers from all corners of Punjab attended the meet. Smt. Rekha Singh DDG (T), Shri Jagraj Singh Director (T) and Shri Japjit Singh ADET (T) were also present. Various elements of PM-WANI framework i.e. Central Registry, PDO, PDOA and App Providers were explained to all the participants and all the queries raised by the entrepreneur and PDOs were clarified by DoT team.



Delhi LSA conducted first PM-WANI Entrepreneur Meet on 28.10.2021 at MTNL Exchange building, New Delhi. The event was chaired by Shri A.K. Mittal, Advisor (Delhi LSA) and was attended by various stakeholders namely PDOs, PDOAs, App Providers, ISPs, TSPs, C-DOT, TAIPA, COAI and officers from East Delhi, North Delhi, South Delhi MCD & New Delhi MC.



Delhi LSA: Security wing busted an illegal telecom activity on 17.11.2021 in Noida sector 63 along with UP Anti-Terror Squad and Noida Police. The accused were arrested for violation of section 20, 21 and 25 of Indian Telegraph Act 1885 read with Section 420, section 120B of IPC 1860.





Officers of DoT Bihar LSA had a meeting on 17.12.2021 with the DGP and other senior officers of Jharkhand Police to discuss matters in which LSA can provide help such as services of CMS and other issues related to telecom Security.

Bihar LSA organised an offline training by inviting CDoT experts team to RMC Patna and conducted one Day workshop on 7.12.2021 at RMC Patna. All the LEAs along with the officers from DoT participated. Many of the issues faced by the LEAs were deliberated in detail and the solution/ suggestions were given by CDoT and DoT.



Gujarat LSA: On 11.11.2021, the steering committee of Gujarat LSA, DoT for 5G, visited the testing sites at Gandhinagar, along with the technical team of Vodafone Idea Limited and Nokia. The speed test was done on non-standalone 5G mode. Four cases namely 360 degrees virtual reality content playback, Virtual reality connected classroom, 5G immersive gaming, Artificial intelligence assisted 360 degrees camera were tested. On 22.12.2021, a team of senior officials of Gujarat LSA, with the technical team of Vodafone Idea Limited (VIL) and Nokia, visited the 5G testing sites in the rural area of Gandhinagar.



The 5G innovative solution, which is first of its kind to be tested by DoT team in India for the rural broadband coverage, comprised of the 5G BTS installed at the Unava town of Mansa taluka in Gandhinagar district and the 5G outdoor customer premise equipment (CPE) installed in the Ajol village of Mansa taluka in Gandhinagar district. The aerial distance between the two locations was 17.1 KM and the peak data download speed of more than 105 Mbps was observed.

Gujarat LSA officers along with the network teams of all the four TSPs i.e. Airtel, BSNL, Jio and Vodafone Idea, conducted a mobile drive test in the capital city of Gandhinagar on 14.10.2021 covering approximately 125 km distance for 7 networks i.e. Airtel – 2G & 4G, BSNL – 2G & 3G, Jio 4G and Vodafone Idea 2G & 4G.



Kolkata LSA organized the Essay Competition on "Unsung Heroes of India's Freedom Struggle" on 27.10.21, during Jan-utsav Week under Azadi Ka Amrit Mahotsav.



An Awareness program on Electromagnetic Exposure from Telecom Towers was organized by Kolkata LSA on 11.10.2021 at the residential complex of Rashmi Apartment, Dr. Sarat Baneriee Road, Kolkata.



Kerala LSA did a survey of USOF funded project for providing submarine optical fibre cable connectivity between Kochi and Lakshadweep Islands, which entails provision of a direct communication link through a dedicated submarine Optical Fibre Cable (OFC) between Kochi and 11 islands of Lakshadweep.



Mumbai LSA: An EMF Awareness Seminar was organized by Mumbai LSA.



Mumbai LSA: M/s R. Iio commenced 5G trials in Mumbai LSA at Vashi & Ghansoli in Navi Mumbai area. Download speed upto 1.5 Gbps and upload speed upto 123 Mbps was achieved in the mid-band spectrum. Enhanced mobile broadband use-cases of Cloud Gaming, 8K video, Immersive Virtual Reality, Smart home and FWA (Fixed wireless access) were demonstrated. M/s RJio has developed indigenous 5G Core & RAN for its 5G network. M/s Bharti Airtel commenced 5G

trials in Mumbai LSA at Malad & Lower Parel area. Download speed upto 4.25 Gbps and upload speed upto 161 Mbps were achieved in the mm wave spectrum.



Kerala LSA: On 11.10.2021, as part of celebrating, Azadi Ka Amrit Mahotsav, Dr. P.T. Mathew, Senior Deputy Director General, Kerala LSA, along with DDGs Ms. V Sobhana, Mr. T R Shaji, Mr. S. Gopalan, Mr. N S Deepu, released the brochure – "Telecommunications Powering Digital Transformation" brought out by Kerala LSA, in the Press Club, Ernakulam,

followed by press conference. Dr. P.T. Mathew, Senior Deputy Director General, Kerala LSA briefed the press on the current Developments in Telecom Sector in India and Kerala, the pivotal role played by Telecom Sector during Covid19 Pandemic facilitating Work from Home, Online Entertainments, Online Education, Online Shopping etc.



MP LSA: Public Data Office (PDO) under PM-WANI framework in Madhya Pradesh was inaugurated by DG(T) 85 Member(S) on 17.11.21 at District Session court Bhopal premises. The PDO was powered by PDOA M/s Omnia Information Pvt. Ltd.

As part of Azadi Ka Amrit Mahotsav celebrations, Shilanyas ceremony of 4G Mobile Tower was performed in Sadrabodenar village of Bastar district. Shilanyas was done by Shri R.K. Garhwal, DDG(C), Chhattisgarh. It was attended by Shri Ashish Kumar Das, DDG(R) and other senior officers of DOT and RJIL.





NE LSA : Cyclothon was organized by NE LSA in Agartala on 11.10.2021 with a theme of "Reaching Out" to commence the Azadi ka Amrit Mahotsav.



MP LSA: An Awareness Gram Sabha was organized by Chhattisgarh unit of MP LSA in Nagargaon Gram Panchayat under Dharsiva block of Raipur district on 27.10.2021. This was attended by DDG (Rural), DOT CG, other senior officers of DOT CG, CSC representatives, Panchayat Sarpanch, School teacher, Students etc.



NE LSA: 5 km Vigilance awareness City Run was organized by NE LSA in Shillong on 26/10/21. Around 75 persons participated in the run. Tshirts, Caps, Hand Towels and hydration was provided to all the participants. All the participants got certificate and facilitation was done to lead runner Ms Rephica Becky, a renowned Ultra Marathon Runner and others runners.



J&K LSA: Opening of PDO at Gram Panchayat Haripur, Block R S Pura in Jammu District on 8.10.2021.





UP(West) LSA: Awareness generation sessions on PM-WANI, Cyber frauds, EMF radiation on 23.12.2021 at Bareilly.



Second SBC Meeting in Uttarakhand was held on 6th Jan 2022 in the chairmanship of Chief Secretary Uttarakhand with Sr DDG UP(W) LSA as convenor.





WB LSA: Two illegal telecom exchanges (both SIP-trunk based setup, one with 1263 voice channels and another with 726 voice channels) one each in Bankura & Asansol district of West Bengal were busted through a joint raid carried out by Security wing WB LSA, thSTF WB Police and SIB Kolkata on 17.11.2021.

Karnataka LSA: Shri. R K Dubey Advisor Karnataka LSA, Shri K Madhu Mohan Kumar DDG (T) & Shri V Venkateshwarlu Director (T) had a meeting with Shri. Rajendra Cholan IAS, Managing Director Smart City Bengaluru & MD BESCOM on 21.12.2021 to discuss telecom Requirements and enabling telecom infrastructure roll out.





A State Telecom Disaster Co-Ordination Committee (STDCC) meeting was conducted under the Chairmanship of Shri. K Madhu Mohan Kumar DDG (R2 &T) on 08.12.2021. It was attended by all TSPs of Karnataka LSA, representatives from State Govt & NDRF Officials. **UP(West) LSA:** Management of Telecom Services During Disaster in Kumaon Region of Uttarakhand-

Telecom Infrastructure was badly affected and damaged due to natural disaster caused by very heavy rainfall and speedy winds Kumaon Region in of Uttarakhand State on 18 & 19 Oct 2021. On 20th Oct 2021, 3012 BTSs were reported by all TSPs as non-functional & 52 OFC Links were damaged / adversely affected in the districts of Kumaon Region. Control Room was activated on 19th Oct 2021 in the O/o DDG(State Coordination) Uttarakhand and close coordination was done with all TSPs the and the State authorities Government for restoration of telecom services affected due to the disaster. By 25th Oct 2021 morning, 96.44 % BTSs were restored. Also, Intra-Circle Roaming (ICR) was implemented during 24th Oct 2021 to 26th Oct 2021 amongst all TSPs in Pithoragarh and Bageshwar. districts.

WB LSA: : ITS Officer Trainees of 2019 batch met Principal Secretary (Home) Shri R. Telang on 17.12.2021. Shri R. Telang advised the probationers to understand the ground reality of the state like Sikkim where tourism and power were key sectors. The officer trainees also met Shri Y. Sharma, IT secretary, Govt. of Sikkim. The probationary officers met Chief General Manager Shri S.K Samanta, BSNL and General Manager Shri Edwinson Swer, BSNL, Sikkim and got familiarized with the BSNL existing network and constraints.







Assam LSA:On the occasion of the commemoration of "Azadi Ka Amrit Mahotsav" while celebrating the 75th year of India's Independence, Assam LSA organized an interactive webinar on "The Telecom Journey and Myths about mobile radiation" on dated 28.10.2021. The webinar was attended by the general public, Government officials, college faculty & students, official from telecom service providers. An eminent speaker like Shri J.B. Prasad, Head of LSA, Shri Mithilesh Kumar, DDG, Shri T Mag, Director from DoT Assam LSA, and Dr. Vivek Tandon, Additional Professor, Department of Neurosurgery, AIIMS, New Delhi, delivered a lecture on the topic. Dr. Tandon mentioned the outcome of little scientific research on the effect of electromagnetic radiation being emanated from different electrical and electronic gadgets, medical equipment, mobile handsets and mobile towers. Shri Mag elaborated different emission standards and limits fixed by DoT vis-à-vis rest of world.

HP LSA: The USOF tower located at Komic village was launched on 11.10.2021 by DoT HP LSA team comprising of Shri Mohan Lal DDG (Rural), Shri Anil Bhatia, Director (Rural), Shri Sanjay Bansal Director (Technology) and Shri Robin Kumar Lakhanpal, ADG (C). Smt. Chhering Paldon, Pradhan of Gram Panchayat



thanked everyone on behalf of the Gram Panchayat Langcha and Lamas for providing the 4G services in the village. **HP LSA**: Himachal Pradesh License Service Area a field unit of DOT, organised a webinar on awareness about Mobile network emission, Myths and Reality, on 13.10.21. The Telecom Expert board comprised of



Shri Subhash Chand Sr DDG HP LSA, Shri Ranveer Singh DDG (A), Shri J. Premraj, DDG(C), Shri Sanjay Bansal Director (T) and Shri Robin Kumar Lakhanpal, ADG(C).

From the desk of Sr. Editor Dear Officers

Greetings

I extend my greetings and best wishes for the New Year, Makar Sankranti, Bihu, Pongal and the 73rd republic day. I am also very happy to present the second edition of "Sanchar Samvaad" for the quarter ending 31.12.2021. I feel elated that Haryana LSA has been given this responsibility by the DG Telecom and we are happy to present this second edition. During the last Quarter all the LSAs celebrated Azadi Ka Amrit Mahotsav and also celebrated Vigilance Awareness week. It is noteworthy and very encouraging that the public data offices are being opened across the county under PM- WANI initiative which reminds us of PCOs of yesteryears. On the

technical front, PoC of ASTR (Artificial Intelligence and Facial recognition solution for SIM Subscriber verification) has been conducted and the results are fantastic. Secretary Telecom has taken initiative for getting cleared pending ROW permissions



Dr. Mahesh Shukla Sr. DDG, Haryana LSA

and he spoke to the Chief Secretaries of the States, so as to expand the reach and coverage since the 5G rollout is around and expected soon. Now the LSAs have to continue and maintain the momentum. For that, I wish them success and hope for all the Best.

With Best Wishes and Regards Dr. Mahesh Shukla Sr. DDG, DOT Haryana LSA

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