

**No. 18-3/2022-O&M**  
**Government of India**  
**Ministry of Communications**  
**Department of Telecommunications**

\*\*\*

Sanchar Bhavan,  
 20, Ashoka Road, New Delhi-110001  
 Dated: 21-04-2022

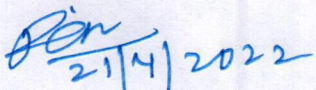
**Subject:- Monthly Summary for the Cabinet on important events of the Department of Telecommunications for the month of March, 2022.**

The undersigned is directed to circulate herewith a copy of the unclassified portion of the Monthly Summary for the Cabinet on the important events of the Department of Telecommunications for the month of March, 2022 for information.

2. This issues with the approval of Secretary (T).

Hindi version will follow.

Encl:-as above

  
 (Pravin Kumar Pandey)  
 Under Secretary to the Government of India  
 Tele. No. 23036073

To

PS to All Members of the Council of Ministers.

Copy to:

1. Secretary to the President ("Rashtrapati-Ke-Sachiv").
2. Secretary to the Vice- President ("Up-Rashtrapati-Ke- Sachiv").
3. CEO, NITI Ayog, New Delhi.
4. All Members of NITI Ayog (5 copies), New Delhi.
5. Chairman, U.P.S.C., New Delhi.
6. Shri Ashutosh Jindal, Joint Secretary, Cabinet Secretariat, Rashtrapati Bhawan, New Delhi.
7. copy also to :-
  - i. Secretary, Department of Education.
  - ii. Secretary, Department of Legislative.
  - iii. Secretary, Department of Statistics.
  - iv. Secretary, Department of Scientific & Industrial Research.



- v. Secretary, Department of Defence Production.
  - vi. Secretary, Ministry of New and Renewable Energy Sources.
  - vii. Secretary, Ministry of Urban Development.
  - viii. Secretary, Department of Science & Technology.
  - ix. Secretary, Railway Board.
  - x. Secretary, Department of Atomic Energy.
  - xi. Secretary, Department of Space.
  - xii. Secretary, Department of Electronics.
  - xiii. Secretary, Department of Posts.
8. Copy to :-
- i. P.S. to Hon'ble Minister for Communications/P.S. to Hon'ble MoSC
  - ii. PSO to Chairman, Digital Communications Commission & Secretary, DOT.
  - iii. Sr. PPS/PPS to Member (Finance)/Member (Services)/Member (Technology)/DG (Telecom) HQ/Administrator (USOF)/Sr. Eco. Adv. WA, WPC
9. Shri SN Choudhary, Director, PIB, Room No. 104, A Wing, Shastri Bhavan, New Delhi-110001.
10. Director General (Media & Communications), Ministry of Information & Broadcasting, Shastri Bhawan, New Delhi.
11. Policy-I Section w.r.t. their letter No. 6/6/2008-Policy-I dated 14.11.2008

*Pravin*  
21/4/2022  
(Pravin Kumar Pandey)  
Under Secretary to the Government of India  
Tele. No. 23036073



ANNEXURE**A. Important events in DoT HQ as incorporated in the Monthly DO to Cabinet Secretary for the Month of March, 2022 :****1. 5G Use Cases:****I. 5G/4G-Adv Use Cases in Ports, Shipping and Waterways:**

Focused interaction was organized on 15.03.2022 with Ministry of Ports, Shipping and waterways and its associated Institutions & Center of Excellences (CoEs) on the current problems and application in this area that Ministry are working on. Two-way interaction with solution providers will be facilitated to explore collaboration and pilot -trials opportunities.

**II. Smart Agri-Tech Stakeholders engagement on 5G/4G-Adv use-cases:**

Interactive session organized on 16.03.2022 to discuss Use Cases in Agriculture & Animal Husbandry. Participants included D/o Agriculture & Farmers welfare, CoEs, Use-case Industries (TCS, Infosys) and Telecom Service Providers (Airtel, VIL, R-Jio). As a way forward, a Smart Agri Tech Task Force has been constituted to continuously engage with relevant stakeholders (including start-ups/MSMEs) for implementing Use-case PoCs/Pilots with the State Governments under various digital initiatives of D/o Agri & FW.

**III. Virtual Demonstration of Matured & ready to deploy use- cases under Smart Health Engagement:**

Under Smart Health Engagement with M/o Health and Family Welfare (MoHFW) as part of 5G Inter-ministerial committee, Airtel+Capgemini, VIL, TCS, Infosys, TechM, C-DAC, CSIR Labs, Ambupod, Easiofy, Radysis (5G Hackathon), Artelus (5G Hackathon), Arficus (MedTech), Achala, CogniAble, Masth Life have virtually showcased their matured use-cases on 24.03.2022 to MoHFW. The user ministry will now take this forward by one-to-one interactions with solution providers to take it to next level.

**IV. Field visit to Airtel Manesar 5G Trial Site:**

Officers from DoT, Department of Science and Technology (DST), Ministry of Home Affairs (MHA), NSCS visited the Airtel 5G Trials site at Manesar, Gurugram on 25.03.2022. During the visit, Airtel team demonstrated - i) Enhanced performance of 5G Networks ii) Use-cases & applications running on 5G Trials Network iii) Enhanced Security aspects of 5G. Indian specific Use-cases witnessed by the officials include Cloud Gaming (high BW & low latency), Connected Ambulance (with high reliability & Low latency), Warehouse automation using drones (Massive connectivity), Realtime Video analytics etc. utilizing eMBB, uRLLC, mMTC aspects of 5G.

**V. 5G/4G-Adv use-cases in Smart cities & communities:**



As a part of 5G Inter-ministerial committee on 5G Use case Lab and applications, DoT facilitated a sector specific interaction with Smart city stakeholders i.e. M/o Housing & Urban Affairs (MoUHA), IISc Team (a CoE to be established at IISc for smart city related applications), TSPs, Use-case industries/solution providers etc. on 28.03.2022. It has been decided that DoT \* MoHUA will frame a Roadmap for establishing 5G lab at IISc with the support from IITM.

## **2. International Relation Issues**

### **I. World Telecommunication Standardization Assembly (WTSA)-20:**

A DoT delegation participated in Global Standards Symposium (GSS) held on 28 February 2022 and WTSA-20 held during 1-9 March 2022 in Geneva, Switzerland. WTSA defines the next period of study for ITU-T (International Telecommunication Union- Standardisation sector). During the event, Chairs and Vice-Chairs of Study Groups of ITU-T were selected. Out of eleven Study Groups, India secured positions in eight Study Groups.

### **II. Signing of Host Country Agreement (HCA) for establishment of ITU Area Office and Innovation Centre in New Delhi:**

The HCA for the establishment of an Area Office & Innovation Centre of ITU in New Delhi was signed by H.E. Shri Ashwini Vaishnaw, Union Minister of Communications and H.E. Houlin Zhao, Secretary General of International Telecommunication Union (ITU) on 3<sup>rd</sup> March 2022 in a virtual ceremony. The Host Country Agreement provides the legal and financial framework for establishment and operations of the Area Office. The Area Office and Innovation Centre of ITU at New Delhi is expected to serve South Asian countries namely Afghanistan, Bangladesh, Bhutan, Iran, Maldives, Nepal, Sri Lanka, apart from India.

### **III. Workshop on Vehicle to Everything (V2X):**

DoT officers participated in workshop on V2X (Vehicle to Everything) technology held by Ministry of Internal Affairs and Communications (MIC), Japan on 09.03.22 under the framework of Memorandum of Cooperation signed between India and Japan in January 2021. The workshop deliberated on learning from survey research deployment and its effectiveness in creating safer roads and driving conditions through the installation of V2X based priority devices on public transportation systems.

### **IV. ITU Council Session 2022:**

A DoT delegation participated in the 2022 Session of ITU Council at ITU Headquarters, Geneva, Switzerland during 21-31 March 2022. India secured a vice-chairperson position in Council Standing Committee on Administration and Management of International Telecommunication Union (ITU). The Indian delegation actively participated in the deliberations and discussions held during the council meeting.



### **3. Issue of guidelines on (i) UL/UL VNO (M2M) licenses and (ii) Registration of M2MSP Service Providers and WPAN/WLAN Connectivity Providers**

DoT has recently issued guidelines on (i) UL/UL VNO (M2M) licenses and (ii) Registration of M2MSP Service Providers and WPAN/WLAN Connectivity Providers, to strengthen the M2M ecosystem. To reduce manual interface and facilitate ease of doing business, applications can apply on the Saral Sachar Portal, to obtain registration/license.

### **4. License fee and Overall Revenue collection in the month of March, 2022**

The License fee collection as per SARAS (System for Assessment of License Fee Revenue & Spectrum Usage Charges) software for the month of March, 2022 is Rs. 4073.24 Crore. The total Revenue receipts of DOT for the year 2021-22 is Rs 85,640 cr. (BE Rs 54,886 cr) as against Rs 45,401 crores collected in 2020-21, representing an 89% annual increase. This has been possible due to prepayments of spectrum auction installments made by two of the telecom service providers.

### **5. Activities of Telecom Engineering Centre (TEC)**

I. TEC has released the following reports during the month:

- a. Technical Report on IoT/ ICT Standards for Smart Cities- This covers national and international guidelines and standards related to the development of IoT/ ICT based smart infrastructure in various verticals of Smart Cities.
- b. Revised Standard on Energy Consumption Rating and Energy Passport (TEC 74046:2022)- This includes new items such as Virtualized network function, data-centres and telecom infrastructures.
- c. Framework of National Trust Centre for M2M/ IoT Devices and Applications (TEC 31188:2022)

II. TEC issued Essential Requirements (Ers) for following 5G technology systems/ equipment during the month:

- a. 5G Core Network
- b. 5G Base Station; and
- c. 5G Mobile User Equipment

### **6. Activities by National Telecommunications Institute for Policy Research, Innovation and Training (NTIPRIT)**

NTIPRIT inaugurated their Big Data Lab & ICT Lab on 30.03.2022. The former is an initiative towards improvement of Quality of Service (QoS) and Call Drop scenario utilizing Big Data Analysis. ICT Lab hosts high-end managed switches and routing equipment. The lab will cater best to the needs data-communications domain including router configurations, packet analysis, protocol



analyzer, LAN & WAN setups and system hardening.

## **B. PERFORMANCE OF PSUs OF DOT**

### **1. BHARAT SANCHAR NIGAM LTD. (BSNL)**

- a. Gross SIM sale for the month: 19,38,009.
- b. Gross Bharat Fiber (FTTH) Achievement: 1,11,816 connections.
- c. Gross new leased Circuits: 3,833 and upgradation: 1,319. Total provisioning including upgradation: 5,152.
- d. Gross Bharat Air Fiber Achievement (Data): 3,015.
- e. Gross Landline Achievement: 18,131 connections.
- f. Gross ADSL Broadband Achievement: 4,527 connections.
- g. 100 GB of Caching links and 60 GB of peering links have been added (cumulatively 1877 GB links in current FY 2021-22) making the cumulative capacity of 3210 GB Caching and 2544.05 GB Peering link capacity.
- h. MNP Ratio (Po/Pi): 1.05 {Port In = 434371, Port out = 455311}
- i. The data traffic from wire line broadband has increased from 118.2 PB (Apr-2019), 155 PB (April-2020) and 278.6 PB (April 2021) to 394 PB in the month of March, 2022
- j. Number of online transactions on portal are 39,05,655 in this month.
- k. For upgrading of Old legacy wireline exchange, out of planned 4.76 M capacity NGN Port migration, 0.0302 M capacity is migrated in March, 2022 (cumulative 3.96 M migrated).

### **2. TELECOMMUNICATIONS CONSULTANTS INDIA LIMITED (TCIL)**

- Provisional Operating Turnover upto February 2022 for the Financial Year 2021-22 is **Rs. 1386.91 Crores**.
- TCIL have secured orders for a total of approximately **Rs. 735.73 Crores** from foreign & inland clients in the month of March 2022.

### **3. INDIAN TELEPHONE INDUSTRY (ITI):**

The performance of the Company in the month of March 2022 is ₹ 1203 Crore (provisional). The turnover is mainly constituted from HDPE manufacturing, OFC manufacturing, SMPS, Solar Panel Manufacturing, Solar street lights, Mini PC, Mini PDO, telephones, Smart cards, 3D Printing, Airtel FTTH Rollout, Execution of ASCON PH-IV, Gujnet, NFS projects, AMC for ASCON, Defence Equipment, NGN equipment, OCB, GSM-SZ & MLLN, 3D Printing, Business from Data Centre, Upgradation of Data Centre for Indian Air Force, Upgradation of 3G network to 4G/LTE for Indian Air Force, Services from Test labs, Reliability lab, Start-up Hub, VSSC Business, SaaS, skill development, Third Party Audit Services (TPA) for implementation of Bharatnet Phase II project in the states of Odisha, Jharkhand and various other states, business generated by Corporate, MSP, etc.

## **C. BharatNet:**



(i) BharatNet project is being implemented in a phased manner to provide broadband connectivity to all the Gram Panchayats (approx. 2,50,000) in the country. The cumulative status of the BharatNet project, as on 28.03.2022 is as follows:

Optical Fiber Cable laid	:	5,70,400 KMs
GPs connected by Optical Fibre Cable (OFC)	:	1,79,906 GPs
Total GPs Service Ready (OFC + Satellite)	:	1,73,507 GPs

As part of this flagship project, the Last Mile connectivity, through Wi-Fi or any other suitable broadband technology to access broadband /internet services is to be provided at all the GPs in the country. Wi-Fi hotspots have been installed at 1,04,301 GPs and out of them, services are being provided at 53,353 GPs and 2,14,274 FTTH connection are installed by BSNL, CSC-SPV & other ISPs. Overall data usage on BharatNet is about 3,939 (TB) for the month of February, 2022.

(ii) The scope of BharatNet has now been extended upto all inhabited villages beyond GPs. On 30.06.2021, Union Cabinet accorded approval for a revised strategy for implementation of BharatNet through Public-Private Partnership (PPP) model in 16 States of the country covering about 3.61 lakh villages (including 1.37 lakh GPs). The estimated maximum Viability Gap Funding (VGF) approved for the above PPP model is Rs. 19,041 crores and the targeted date for completion of the project is August, 2023. The Cabinet has also accorded in-principle approval for extending broadband to all inhabited villages of the remaining States and Union Territories (UTs).

For implementation of the PPP model in 16 States, the Request for Proposal (RFP) was floated on 20.07.2021 through global bidding for selection of the Private Sector Partner(s) and bid was opened on 27.01.2022, with last date of bid submission on 27.01.2022. No bid was received to PPP Model on 27.01.2022. Revised RFP and timelines being worked out with alternative models. Project is likely to be completed by 2025.

#### D. TELECOM SECTOR KPIS:

The details regarding number of telephones and tele-density in the country at the end of February, 2021 are as under-

Total no. of wireline telephones	24.50 million
Total no. of wireless telephones	1141.55 million
Total no. of telephone connections	1166.05 million
Overall tele-density	84.88%

\*\*\*