



News-Letter

April- June 2023

VOICE OF INDIAN COMMUNICATION TECHNOLOGY ENTERPRISES (VOICE)

SUPPORTING INDIA'S ATMA NIRBHARTA IN TELECOM

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AWARDS AND ACHIEVEMENTS REPORTED BY SOME VoICE Members

1. NIMBLE VISION

Nimble Vision wins ASME ISHOW 2023 award. It is their first international recognition. This the greatest honour for a hardware start-up and ASME is going to mentor Nimble Vision to scale in USA



2. GIGAYASA

GIGAYASA has successfully completed the trials and our flagship product, 5G-Toolkit, is now ready- for-use. This Toolkit is highly advanced and outperforms 5G-Toolbox by MathWorks, while also being compliant with Release-17 (3GPP).

<https://21692997.fs1.hubspotusercontent-na1.net/hubfs/21692997/Product%20Brochure/5G-Toolkit%20Product%20Brochure.pdf>

3. SENSORISE

SENSORISE gets CAEV EXPO 2023 AWARD for best in IoT Services and Best in Connectivity Solutions.



4. Lavelle Networks

Lavelle Networks has won the Canara Bank expansion order. Additional 4500 locations, on top of existing (deployed) 3000 locations. This will make it the world's largest SD-WAN deployment in the Banking industry once complete. This is on top of the recent RFP wins at Indian Bank (2300 bank branches) and Kerala One (conglomerate of Cooperative Banks in Kerala with 1000 branch offices). This is a huge testament to success of Make in India, competing against much larger MNCs.

5. TCIL

TCIL MoU on 5G with SAIL and Bokaro Steel Plants

<https://currentbokaro.com/sail-bokaro-steel-plant-and-tcil-sign-mou-to-explore-5g-technology- potential/>

6. ASTROME TECHNOLOGIES

Astrome Technologies for the Indian Army by deploying E-Band Solution, GigaMesh

Astrome Technologies has signed a contract with the Indian Army. The Indian Army requires communication backhaul radios that are bandwidth and throughput efficient, point to point and suitable for extension of network connectivity in the field. The backhaul wireless equipment would provide reliable and failsafe communication augmenting the existing fiber links. Astrome is uniquely positioned to fulfill this requirement through its state-of-the-art GigaMesh radio solution. GigaMesh is the World's First Electronically controlled E-band radio with automatic link alignment capability. Astrome technology will establish a robust communication backhaul infrastructure in areas where traditional fiber optic networks are unfeasible i.e. rugged and mountainous terrains. The radio is indigenously developed and manufactured in India and is based on their patented millimeter wave technology. During rigorous testing, GigaMesh has successfully demonstrated a remarkable range of

10.8 kilometers between two devices. Astrome's accomplishments have earned widespread recognition in the defense sector. as Astrome was shortlisted among the 14 companies selected by the esteemed Defense Acquisition Council (DAC) in 2022, solidifying its position as a trusted partner for the defense ministry.



Signed on 6th June 2023



GigaMesh TAC LAN Radio

7.OPTIMUSLOGIC

OptimusLogic has entered into an agreement with ITI Limited in Bengaluru to manufacture PCBs, industrial designs and the entire mobile phones at the end for Optimus Rhino 5G Global Mobile phone and the Vaman PCB ecosystem. Vaman is TiHAN-IIT Hyderabad's Affordable Global Semiconductor Skilling Kit made by OptimusLogic.

8. TEJAS NETWORKS, TCS & CDoT Consortium

GoM clears deployment of 1,00,000 BSNL sites from VoICE members TCS-Tejas-CDoT Consortium

https://m.economictimes.com/industry/telecom/telecom-policy/gom-okays-tcs-led-deployment-of-one-lakh-bsnl-4g-sites/amp_articleshow/100082047.cms

9.MATRECOMM

6WIND/Intel & Matrecomm Technologies announce their strategic partnership in CommunicAsia Singapore 2023. They will deliver Network as a Service (NaaS) Products/Solutions.



10. PATH Breaker Award to Tejas Networks

Tejas Networks get Path breaker Award of the Year from DATAQUEsT Award. SANJAY NAYAK, Chairman VoICE being FELICITATED



NIRAL NETWORKS

During the esteemed 13th Aegis Graham Bell Awards 2023, Niral Networks received the distinguished honor of being the winner in the category of "Innovations in Telecom" on the auspicious occasion of 24th February 2023, held at the prestigious NDMC Convention Center in New Delhi.



SIGNALCHIP

Signalchip, alongwith Signaltron and ITI is installing its RAN equipment in remote sites for providing connectivity to rural areas under USOF pilot deployment project. These are the first ever RAN equipment running on Indian

Semiconductor chipset "Agumbe". A committee from DoT, TEC and BSNL visited live sites and the deployment was demonstrated to them.



SIGNALTRON

Signaltron's Network In a Box went through rigorous field trials in harsh outdoor environment. Signaltron successfully demonstrated long range cellular communication solution with satellite backhaul for defence and disaster management requirements on its NIB (Network In a Box) solution to Defence and Railways teams, proving the readiness of Indian systems with Indian silicon for strategic requirements. Also, Signaltron's compact eNodeB Sahyadri STENB2214 was deployed at BSNL site.



PARTICIPATION BY VoICE TEAM IN GOVERNMENT EVENTS

a) NATIONAL TECHNOLOGY WEEK at Pragati Maidan 11-14 May 2023

20+ VoICE companies participated.

- b) World Telecom Day Celebration is on 17 May 2023 at Ambedkar Hall in New Delhi
25+ VoICE companies participated.

Consortium based showcasing was also done by some from VoICE team.

VoICE organised two Presentations in VC mode.

- a) Infinity Labs covered SDVAN and Firewall solutions.
- b) Indio Networks covered Wireless Networking, WiFi technology, 4G 5G Routers, PM Vani, public WiFi, Managed Switched and Managed Networks.

Submission of the Report of the Task Force

Report of the Task Force with Director General, VoICE being Chairman on 'New Opportunities in Telecom Manufacturing' submitted to the Government. The Task Force was constituted after a hour interaction of MOC with CEOs of all PLI awardees at Hotel Shangri-la.

Presentations to Government

- a) Presentation of Task Force on New Opportunities in Telecom Manufacturing including Recommendations shared with Hon'ble MOC, Hon'ble MOSC, Secretary (Telecom) and senior DoT officials.
- b) DG, VoICE made a Presentation to Secretary Telecom and other senior officials at Sanchar Bhavan on issues relating to boosting local manufacturing of OLT and ONT and shared data as to how China is taking advantage and manipulating our system.
- c) Presentation in a DoT Industry session on AtmaNirbharta at Sanchar Bhavan
- d) Submission of VoICE presentation for Secretary Telecom's meeting with Secretary DPIIT on Public Procurement Make in India policy along with Case Studies. DG VoICE and some VoICE members were included as part of DoT team.

VoICE submissions in support of Hon'ble Prime Minister's USA visit

- a) VoICE responds to Government with Consortium based proposals on RIP and REPLACEMENT program for USA on 5G taking note of press reports before PM's USA visit

<https://gadget.com/en/243859-us-needs-5bn-to-completely-divest-telecoms-equipment-from-huawei-and-zte/>

- b) Shared inputs with DoT on possible support from USA on 5G & other new technology areas
- c) Participation in India USA High level VC meeting on 1st June 2023.
- d) VoICE inputs submitted for certified Telecom Equipment for Pilot projects in US or other countries 4G/ 5G, backhaul, NMS, IMS, Security/ Encryption Backhaul, IOT and other Access Equipment.

Communications to DoT, DPITT, MEITY, Ministry of Finance, Commerce, Railways, Urban Development, Power, GeM, PSUs

- a) Compliance Issues on Public Procurement Make in India Policy
- b) UP Gram Panchayat WiFi deployments with Finance Ministry (Central Govt) funding
- c) Cases to Government as to how Chinese registered company are getting orders from Home Ministry in violation of Land Border Policy of Govt
- d) Similar case of HP Government with Central funding
- e) Multiple cases of serious violations of exemptions relaxing Public Procurement Policy by Ministries and PSUs.
- f) Indian Railways had announced Expression of Interest for 4G covering 500 KM but allows all foreign vendors to participate.

https://rdso.indianrailways.gov.in/view_section.jsp?lang=0&id=0,5,5462

Turnover, experience, and expertise weightage was going against domestic players. VoICE has sent a communication to Indian Railways.

- g) Suggestions given to DoT on additional Products that can be included in next update of PLI Scheme.
- h) ASEAN Line of Credit

ASEAN Line of Credit of US Dollar 1 Billion for Digital Connectivity infrastructure lying unutilised from 2015 was proposed to be revived and DG, VoICE made a detailed submission to Government. Due to Sovereign Guarantee issue, no project could take place. VoICE's white paper and note was for revival of LOC as not only industry is now better prepared on 4G and 5G but ITU's better support can be assured due to their new office in Delhi and ex-DoT official being part of ITU regional office covering ASEAN.

ASEAN draft Project inputs received from TCIL, CDoT, VNL, Astrome, Tidal wave, Indio Networks, Signaltron, Tejas Networks, Lekha Wireless, XTEN Networks, Nirala Networks, VVDN and Rebaca are just been received for submission to Government,

- i) MTCTE Implementation

VoICE sent a submission on timely implementation of Phase IV of MTCTE

- j) Communication on fine tuning of PPMII Policy

- k) Strongly suggesting that no more relaxations on GPON imports be provided.
- l) VoICE submitted some Consortium based 5G POC projects covering some European countries like Denmark, Poland after the one on USA.
- m) Paper on MTCTE Cyber Security Certification Cost for 4G 5G products
- n) Formal proposal submitted by VoICE to DoT on setting up a Consortium based Centre of excellence in Denmark and Poland.
- o) Suggestions on anti-dumping duties on certain products including OFC from China
- p) Inputs top Government on HS Codes and Custom duties
- q) A letter has been sent across to full and part time members of Digital Communication Commission on Review of Government decision on Spectrum for Private Enterprise Networks.
- r) VoICE submission on DCIS to DoT

Many positive responses have been received including from DPIIT, GeM and others and at least in many cases various Ministries and PSUs will be on alert while doing procurement action under PPP MII Policy.

VoICE farewell to Shri Kishore Babu, DDG, SRI, DOT

VoICE farewell to Shri Kishore Babu, DDG, SRI, DOT as he relinquishes the charge for taking over at ITU for their Regional Office at Jakarta. He is credited for the support provided along with his team along with Hon'ble MOSC on the need of an industry Association supporting AtmaNirbharta in Telecom Sector through Start-Ups, SMEs and other Design led players.



VoICE farewell mementos to Shri Kishore Babu as he joins at ITU for regional Office covering ASEAN

VoICE Submissions on Government Awards

VoICE submission on Pandit Deendayal Upadhyaya Telecom Excellence Award 2023 was made. Some other VoICE members have also applied.

Railways' 5G POC on Mathura Palwal Section

VoICE team consisting of DG, VoICE, TCIL, Signaltron, Tidal Wave participated in a site survey on Mathura Palwal Section of Indian Railways. Report along with functional spec for the project were shared with RDSO for further action. JIO Platforms also was in the Site Survey and later showed

interest to be part of VoICE Consortium based implementation on 5G POC Mathura Palwal Section through their domestic designed 5G solutions.

<https://acrobat.adobe.com/link/review?uri=urn:aaid:scds:US:0dd8eb9c-d88e-318d-b947-3db7a808a1a8>

Visit of DG to some of VoICE members' in Bangaluru

a) Visit to Priyaraj Electronics



b) With Niral 5G team



c) With Chairman TEJAS Networks at Tejas Office in Bangalore



d) With Start-UP Chipspirit



Award given by Home Minister to ChipSpirit is on left side bottom of picture.

Some Links with Media Coverage regarding VoICE

- i. <https://www.financialexpress.com/industry/higher-incentives-for-chip-firms-likely/3113322/>
- ii. <https://telecom.economictimes.indiatimes.com/news/industry/govt-should-allot-spectrum- directly-to-enterprises-for-private-networks-voice/100769622>
- iii. <https://telecom.economictimes.indiatimes.com/news/telecom-equipment/in-depth-indias- atmanirbhar-pursuit-from-rhetoric-to-reality/100780242>
- iv. https://www.communicationstoday.co.in/current-lab-infrastructure-inadequate-mtcte- regime-from-july-1-not-possible-say- telcos/?utm_source=newsletter&utm_medium=email&utm_campaign=06June2023
- v. <https://www.financialexpress.com/industry/tech-firms-ask-dot-for-direct-allocation-of- spectrum-for-private-networks/3114839/>
- vi. https://www.communicationstoday.co.in/to-extend-or-not-to-extend-deadline-for- mandatory-certification-of-mtcte- products/?utm_source=newsletter&utm_medium=email&utm_campaign=09June2023
- vii. <https://www.financialexpress.com/industry/dot-panel-against-telcos-demand-for-extension- of-mandatory-equipment-testing-deadline/3118887/>

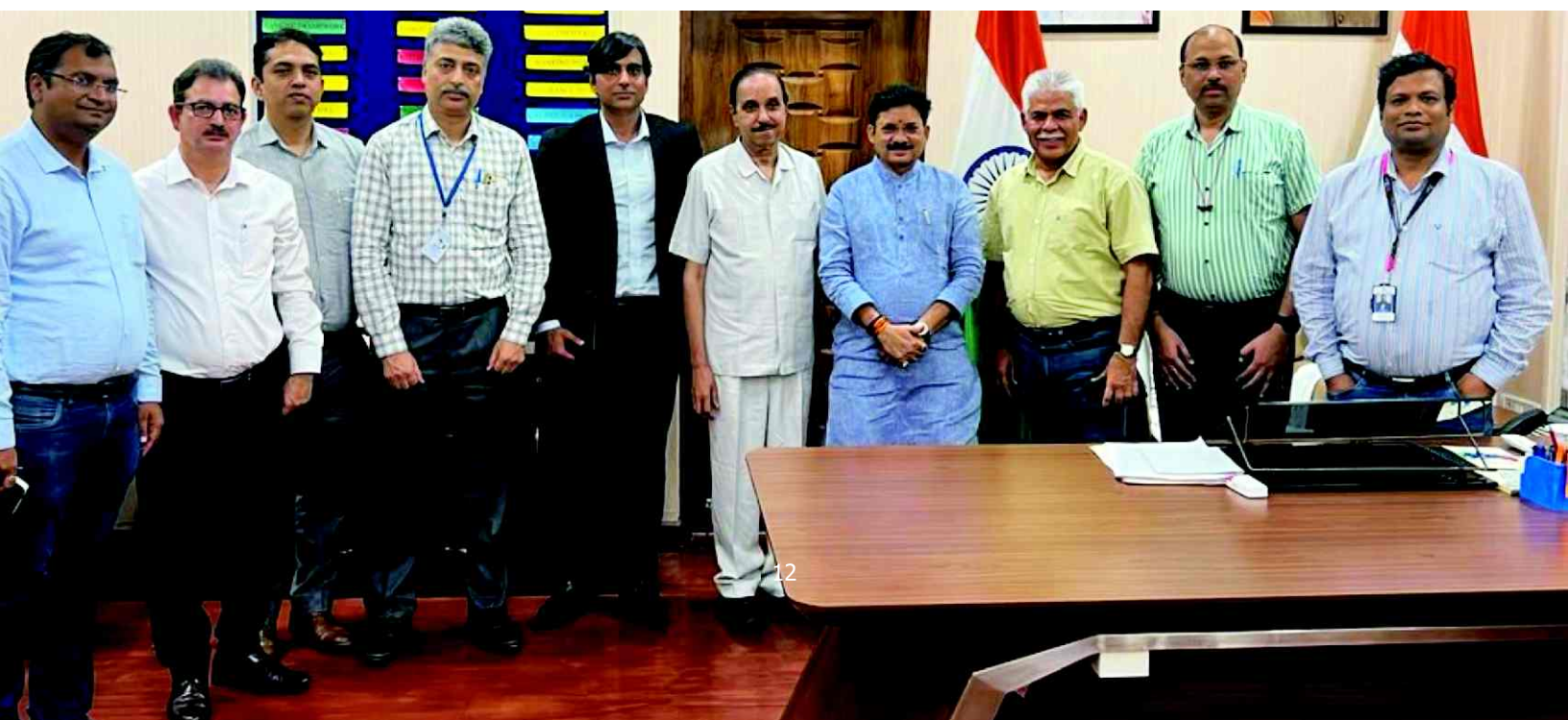
- viii. <https://twitter.com/adgpi/status/1667072471651225600?t=Ts6Rm9Hs0AKIDhacmnhC9A&s= 08>
- ix. https://telecom.economictimes.indiatimes.com/news/industry/bsnl-issues-purchase-order- to-tcs-iti-for-1-lakh-4g-sites- report/100888636?action=profile_completion&utm_source=Mailer&utm_medium=newsletter&utm_campaign=ettelecom_news_2023-06-10&dt=2023-06-10&em=a2RuYXlhazUyQGdtYWlsLmNvbQ==
- x. <https://m.timesofindia.com/business/india-business/govt-to-pitch-desi-tele-gear-cos-in-us/articleshow/101147656.cms>

VoICE active Spread Sheets on VoICE Consortium members and Certification Status

- i. https://docs.google.com/presentation/d/1hjH2FpMGiYoV-n_zgI_ffIAcPEtSQ6VH5PYf6aOIZ6Y/edit?usp=sharing
- ii. https://docs.google.com/spreadsheets/d/1NlsxPLQO8SwsYTxCAd6bDa3uqUVhaW_RfQAbkibX6KI/edit#gid=1391177718

VoICE team MEETING with Hon'ble MOSC at his office on 30th June 2023

VoICE delegation comprising self (DG VoICE), VVDN, CDoT, TCIL, TCS, Lekha Wireless, Coral Telecom and HFCL had an hour long meeting with Hon'ble MOSC on 30th June 2023. We shared details on the support coming to the Govt from domestic design led players of VoICE and how both as a team can try to help achieving the vision of Hon'ble PM for Indian Global lead in 5G and 6G. Promised to share some projects from VoICE for ASEAN, G20, developing world in next few days in addition to some proposals for US, UK, Poland, Denmark, and Netherlands already. A workshop in the second half of July 2023/ beginning August 2023 in coordination with DoT with invitees being MEA, Finance Min, EXIM Bank and even some foreign missions was also suggested.





VOICE Members – 4G/5G Solution



BTS Power Supply
(SMPs, CCU & BTS Smartgrid Power electronics for Telecom Tower Infrastructure)

Intent-based Networking
Service Management & Orchestration

RAN Intelligent Controller (RIC)

Core
Cybersecurity
Threat Intelligent, Threat Prevention, Visibility, SOAR

Applications

Lepton
Workforce Management

Industry Use Cases

Security

NMS

IMS

IOT

Syook

Edge Data Center (MEC)

5G SA Core

Wireless Backhaul

Fiber Backhaul

Wifi/ Lora 5G Gateway



ITI and TCIL can act as System Integrator for the projects.