



ANNUAL REPORT

2023-2024



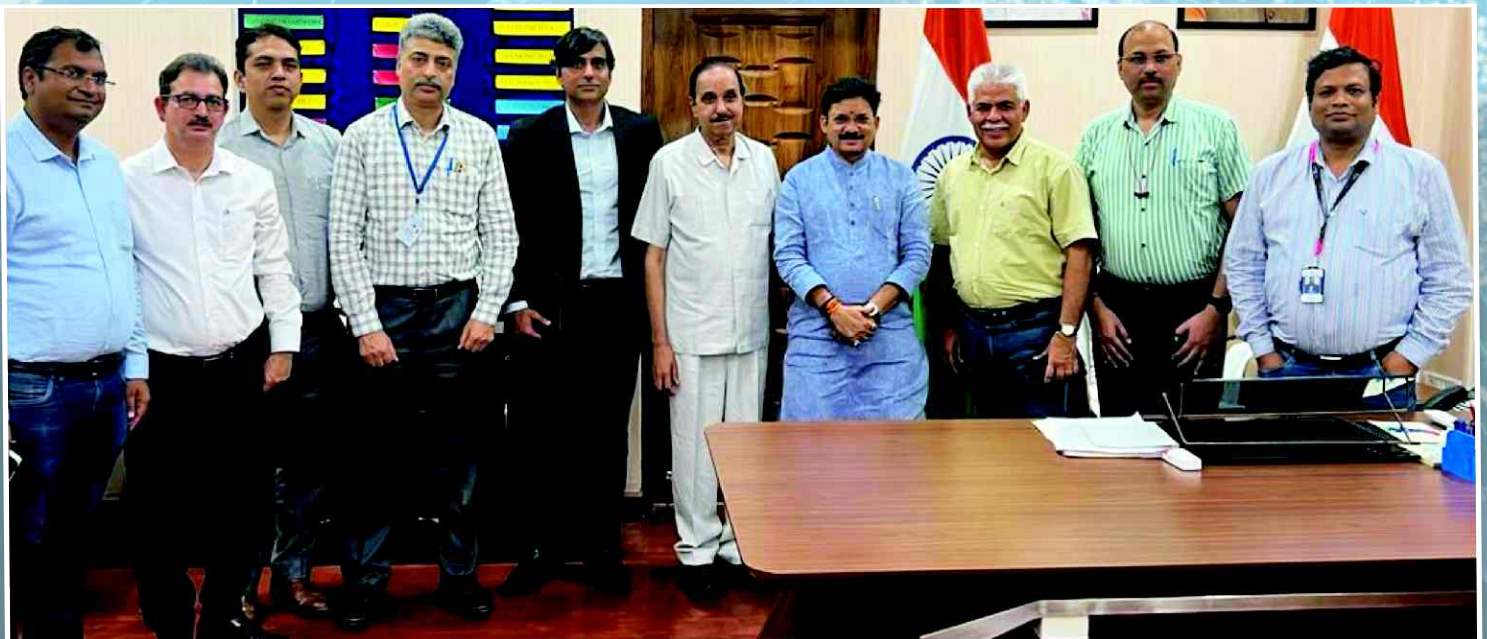
VOICE OF INDIAN COMMUNICATION TECHNOLOGY ENTERPRISES

Registration No. : 329 /2022

Registered Office : PLOT NO 128 1ST FLOOR BLK-C, MANSAROWAR GARDEN, DELHI 110015,

Website : www.voiceofindiancomm.com

Email : rkbhatnagar.dg.voice@gmail.com, Phone : +91 93508 36103



NOTICE OF ANNUAL GENERAL MEETING TO THE MEMBERS

NOTICE IS HEREBY GIVEN THAT THE 02ND ANNUAL GENERAL MEETING OF THE MEMBERS OF THE SOCIETY M/S VOICE OF INDIAN COMMUNICATION TECHNOLOGY ENTERPRISES WILL BE HELD ON TUESDAY, 24TH SEPTEMBER 2024 AT 11:30 A.M. AT E-2, SECTOR-63, NOIDA, UTTAR PRADESH-201301, INDIA TO TRANSACT THE FOLLOWING BUSINESS:

A G E N D A

1. INAUGURAL ADDRESS BY CHAIRMAN, VOICE
2. REPORT BY DIRECTOR-GENERAL, VOICE
3. PRESENTATION OF ACCOUNTS FOR F.Y: 2023-24
4. APPROVAL OF ACCOUNTS FOR THE F.Y: 2023-24
5. CONSIDER & APPROVE APPOINTMENT OF AUDITORS FOR THE YEAR 2024-25.
6. DISCUSSION ON GOVERNING COUNCIL FOR THE YEAR 2024-25
7. DISCUSSION ON EXPERT GROUP FOR THE YEAR 2024-25
8. DISCUSS ANY OTHER MATTER WITH THE PERMISSION OF THE CHAIR.
9. VOTE OF THANKS.

**BY ORDER OF THE MANAGING COMMITTEE
FOR VOICE OF INDIAN COMMUNICATION TECHNOLOGY ENTERPRISES**

**SD/-
(RAKESH KUMAR BHATNAGAR)**

**DATE: 03-SEP-2024
PLACE: DELHI**

NOTES:

1. APPOINTMENT OF PROXY: A MEMBER ENTITLED TO ATTEND AND VOTE AT THE ANNUAL GENERAL MEETING OF THE SOCIETY IS ENTITLED TO APPOINT A PROXY TO ATTEND AND VOTE INSTEAD OF HIMSELF/HERSELF.
2. THE ROUTE MAP SHOWING DIRECTION TO THE VENUE OF THE MEETING IS ANNEXED.
3. MEMBERS SEEKING ANY INFORMATION RELATING TO THE ACCOUNTS MAY SEND AN EMAIL AT RSROYCA@GMAIL.COM TO STATUTORY AUDITOR.

ATTENDANCE SLIP

FULL NAME OF MEMBER _____

FULL NAME OF PROXY / REPRESENTATIVE _____

I HEREBY RECORD MY PRESENCE AT 02ND ANNUAL GENERAL MEETING OF THE SOCIETY HELD ON TUESDAY, **24TH SEPTEMBER 2024 AT 11:30 A.M.** AT E-2, SECTOR-63, NOIDA, UTTAR PRADESH-201301 / OR AT ANY ADJOURNMENT THEREOF.

SIGNATURE OF MEMBER / PROXY / REPRESENTATIVE _____

NOTE: PLEASE FILL IN THIS ATTENDANCE SLIP AND HAND IT OVER AT THE VENUE.

* STRIKE OUT WHICHEVER IS NOT APPLICABLE.





Voice of Indian Communication Technology Enterprises

ANNUAL ACTIVITY REPORT

2023 - 2024

Voice of Indian Communication Technology Enterprises (VoICE) is working to support Government's Make in India through Domestic Design led stakeholders and has effectively used Consortium Based 5G end to end solution Model to lead Indian SMEs and Start-Up companies ready to compete with MNCs.

AIM of the Society

“Atma Nirbhar in Communication Technologies” Fostering the development of Indian Digital Communications Technology (DCT) ecosystem through consolidated efforts of homegrown enterprises with enhanced facilitation for Start-ups/ Small and Medium Enterprises (SMEs).

Objectives of the Society

- Foster R&D culture and encourage design ownership.
- Enable the development, commercialization, and deployment of Indian Digital Communications Technology (DCT) products.
- Facilitate creation, promotion, protection & monetization of Indian Intellectual Property (IP) / Standard Essential Patents (SEPs) with the support from Government, disclosing and licensing of of IPs/SEPs and on FRAND terms.
- Explore collaborative opportunities with the Government and its R&D institutions, laboratories for product development & commercialization including encouraging the co-creation and of joint development of IP.
- Pro-actively participate in various consultative processes (including PPP-MII) by concerned ministries/departments on policy decisions, regulations and also to assist all concerned authorities through provision of requisite industry information to enable formulation of suitable policies and regulations.

- Make policy interventions on various schemes/decisions/initiatives, as and when deemed necessary to take forward the spirit of Atmanirbhar Bharat.
- Flag the issues/grievances of membership to the concerned ministries/ departments/ forums.
- Share of information on Products/Solutions, R&D roadmaps amongst Members and with governments and further Exploring collaborative opportunities to develop end to end integrated solutions.
- Promote Design led local manufacturing and encourage procurement of locally designed & manufactured components/ subsystems.
- Enable Market access for Indian products/solutions and identification of commercial market and strategic market (critical infrastructure) requirements Eg: Tactical communication systems, PPDR network etc.
- Give special emphasis to Cyber Security in telecom products through enhanced security by indigenous design control where IPRs and design ownership reside within India.
- Seek Industry and Government support to facilitate the development of Local Testing & Certification Ecosystem for hardening of indigenous products/solutions and also to meet the National/ International standards through financial and infrastructure support.
- Support Field trials/ pilots for technology demonstrations especially through Universal Services Obligations Funds (USOF) and the USOF pilot project schemes.
- Organize and participate in seminars, conferences, fairs related to the objects of the Society and to compile, collate, edit and publish technical reports and papers related to the objects of the Society.
- Enter any arrangement with Government (s), international bodies or authorities to forward and strengthen the objects of the Society.
- Provide a platform for participation of all domestic market players, experts, financial market intermediaries and other stakeholders for identifying issues, potential failure risks and areas for development in the local DCT ecosystem.
- Proactively participate in Standardization activities in collaboration with TSDSI/ TEC / BIS/ DoT etc. and to continuously improve the competitiveness of the Member Ecosystem to develop world class telecom infrastructure and deliver the benefits of affordable digital services to national and international markets to achieve the SDGs.
- Identify and support the needs of skill development in the DCT ecosystem.
- Collaborate with academia, Centre of Excellences, test beds, State gov departments & institutions and certification labs etc. for the Member Ecosystem
- Create a hub for exchange of ideas and co-creation of technologies and solutions with Indian expertise, and act as a virtual system integrator for orchestrating end to end solutions
- Facilitate the mechanisms that assure market access for the members in certain key technology areas and critical infrastructure domains with the purpose to incubate local design, content and self-reliance.
- Actively pursue the use of Indian Digital Communication Technology/ Products/ Solutions by Indian Communications Service Providers
- Continuously strive towards improving the standards and competitiveness of the Member Ecosystem and to attain the status of the world class infrastructure and deliver the benefits of affordable services to national and international markets.

- Identify the needs of skill development in the Member Ecosystem including taking steps to prepare catalogue of types of skills, range, and depth of skills to facilitate choice to individuals.
- Determine and catalogue the existing IP, products, solutions, services, skills, competencies etc within member companies, establish standards compliance and qualifications by members as per national and international standards/ norms/ testing, endorse companies which have the requisite capabilities to ease and assist competent selection of companies and their products/ solutions/ services in government and non-government tenders and RFPs
- To facilitate in standardizing the affiliation and accreditation process for the Member Ecosystem, facilitate setting up a robust and stringent certification and accreditation process for the Member Ecosystem to ensure consistency and acceptability of standards.

VoICE has continued to play a very active role in line with the Aim and Objectives of the Society as defined above.

Quarterly VoICE Newsletters for April-June 2023, July-September 2023, October-December 2023, VoICE Booklet covering IMC2023 (October 27 to October 29 2023) at Delhi, VoICE Booklet covering G20 Event at Bengaluru, Bengaluru Tech Summit (November 29 to December 1 2023), Bharat Telecom 2024 at Delhi (29 January-30 January 2024) along with CNPN Spectrum White Paper and VoICE CNPN 5G Projects. These documents provide details on the support provided to its members including more than 100 letters to multiple Central Ministries, PSUs, State Governments and others on issues in support of its members, inputs to Government on policy formulation, recommendations, suggestions, participation in consultative process, participation in Conferences, Webinars, online and physical meetings with multiple authorities and the necessary details including Photographs from various Events in which VoICE members participated are all covered.

ACTIVITIES IN 2023-24

Newsletter, Participation in Events, Case Studies in support of AtmaNirbhar Bharat and Make in India

25 VoICE companies were part of India Technology Week 11 -14 May 2023



World Telecom Day 17 May 2023 VoICE Participation in DoT Event



Quarterly VoICE Newsletters for April-June 2023

https://voiceofindiancomm.com/assets/pdf/Voice-News-Letter-April-June_2023.pdf

5G SA Core

5G SA Core

VoICE
News-Letter
April-June 2023

VOICE OF INDIAN COMMUNICATION TECHNOLOGY ENTERPRISES (VOICE)
SUPPORTING INDIA'S ATMA NIRBHARTA IN TELECOM

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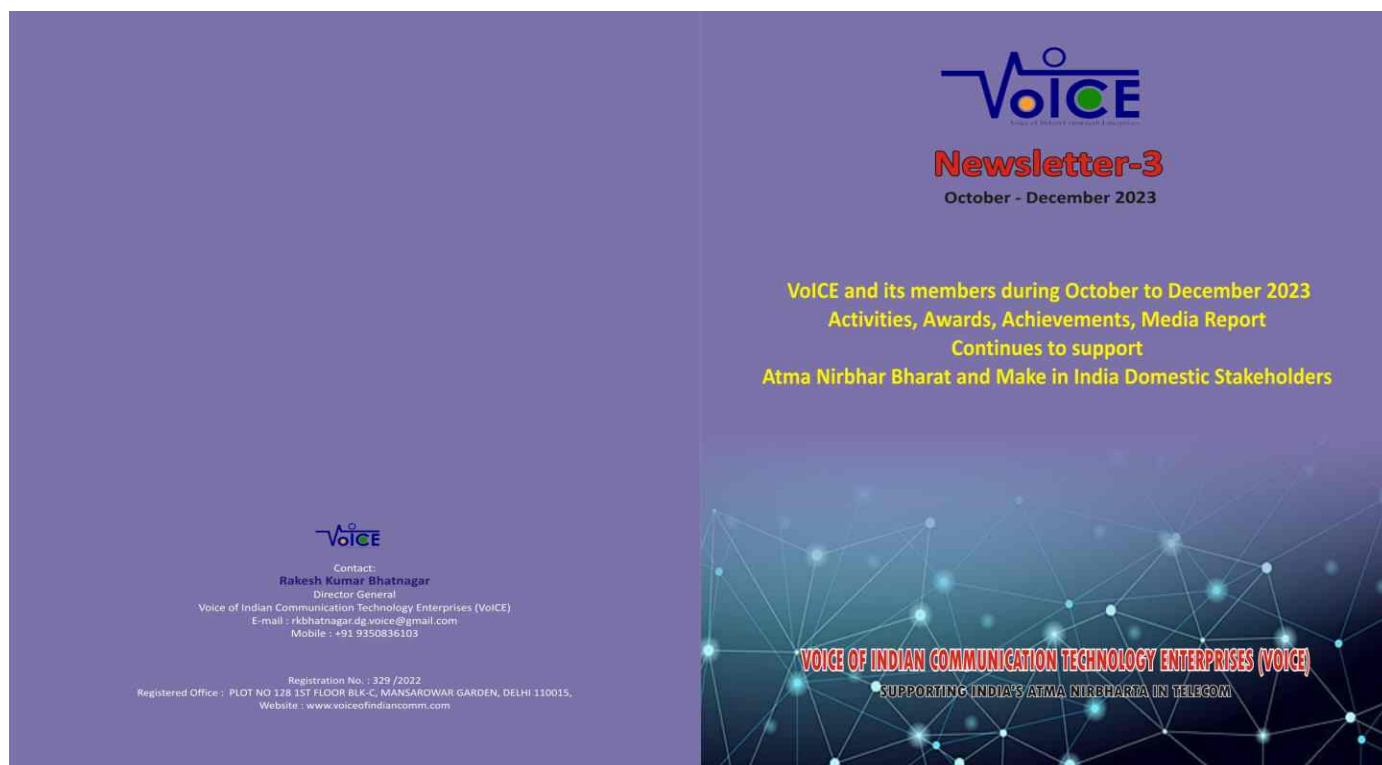
Quarterly VoICE Newsletters for July-September 2023

<https://voiceofindiancomm.com/assets/pdf/Voice-News-Letter-2-July-%20Sept.pdf>



Quarterly VoICE Newsletters for October-December 2023

<https://voiceofindiancomm.com/assets/pdf/VoICE-Newletter-3-2023.pdf>



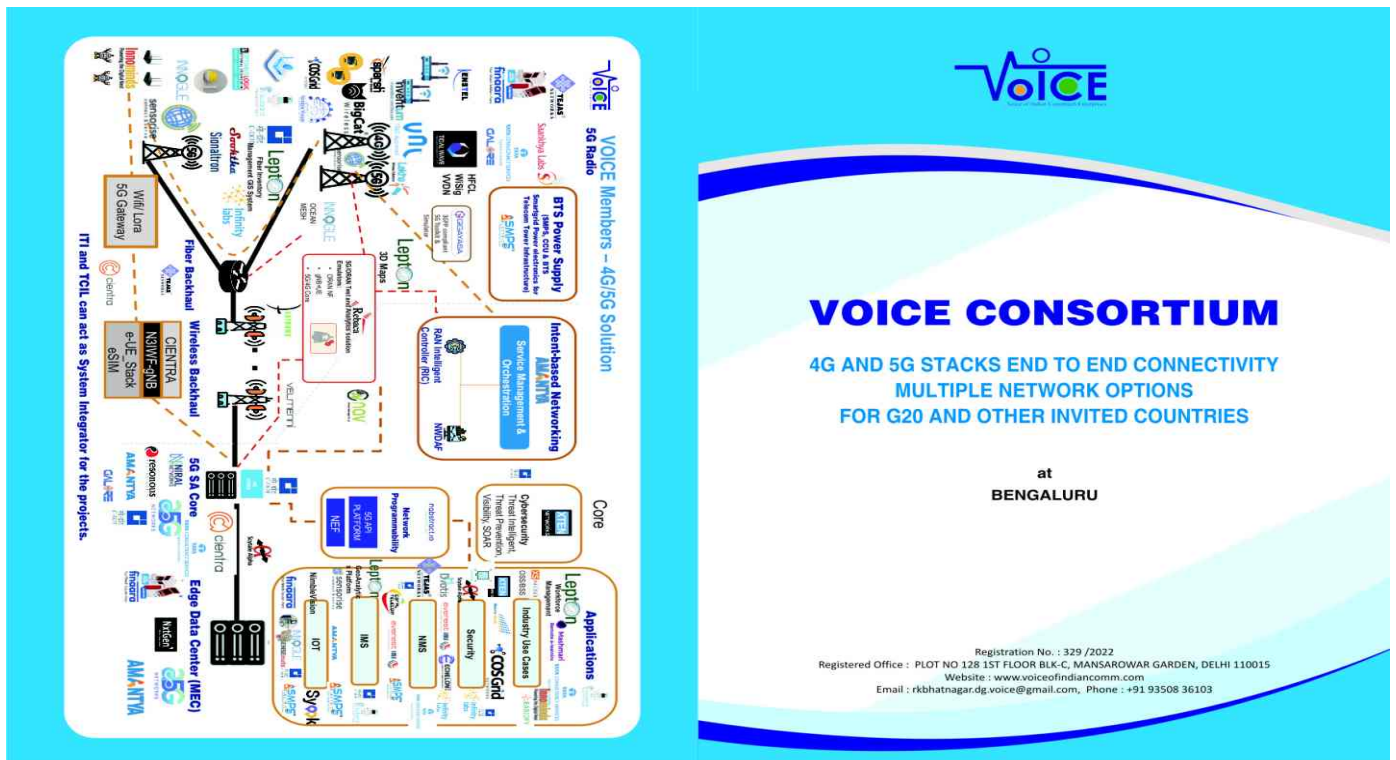
Annual Report (2022-23) cover AGM held at Bengaluru

<https://voiceofindiancomm.com/assets/pdf/Annual-Report-of-VoICE-2022-23.pdf>




VoICE at G20 event at Bengaluru (17-19 August 2023)

<https://voiceofindiancomm.com/assets/pdf/Voice-Consortium-Bengaluru.pdf>




VoICE at IMC 2023

<https://voiceofindiancomm.com/assets/pdf/Voice-at-IMC2023-IMC-2023.pdf>



IMC 2023



VOICE BOOKLET
Covering
EIGHT
Consortium Solutions

IMC 2023
27-29 October 2023

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VoICE at IMC2023 (October 27 to October 29 2023) at Delhi



INDIA MOBILE CONGRESS

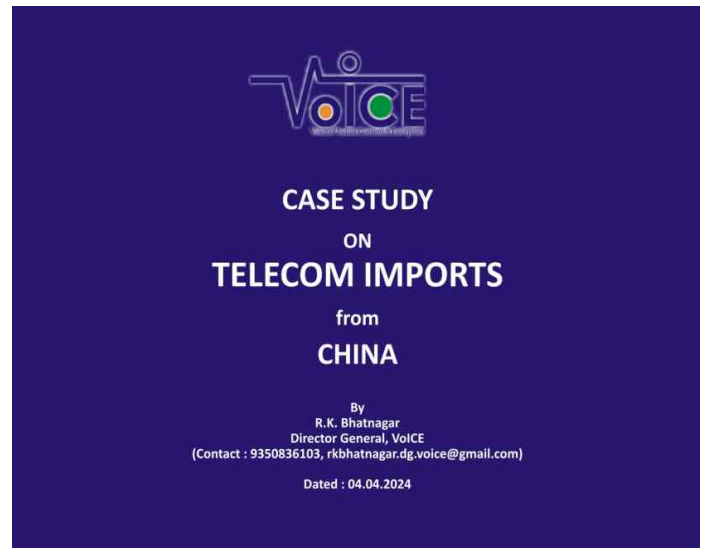
TM

Bengaluru Tech Summit
(November 29 to December 1 2023)



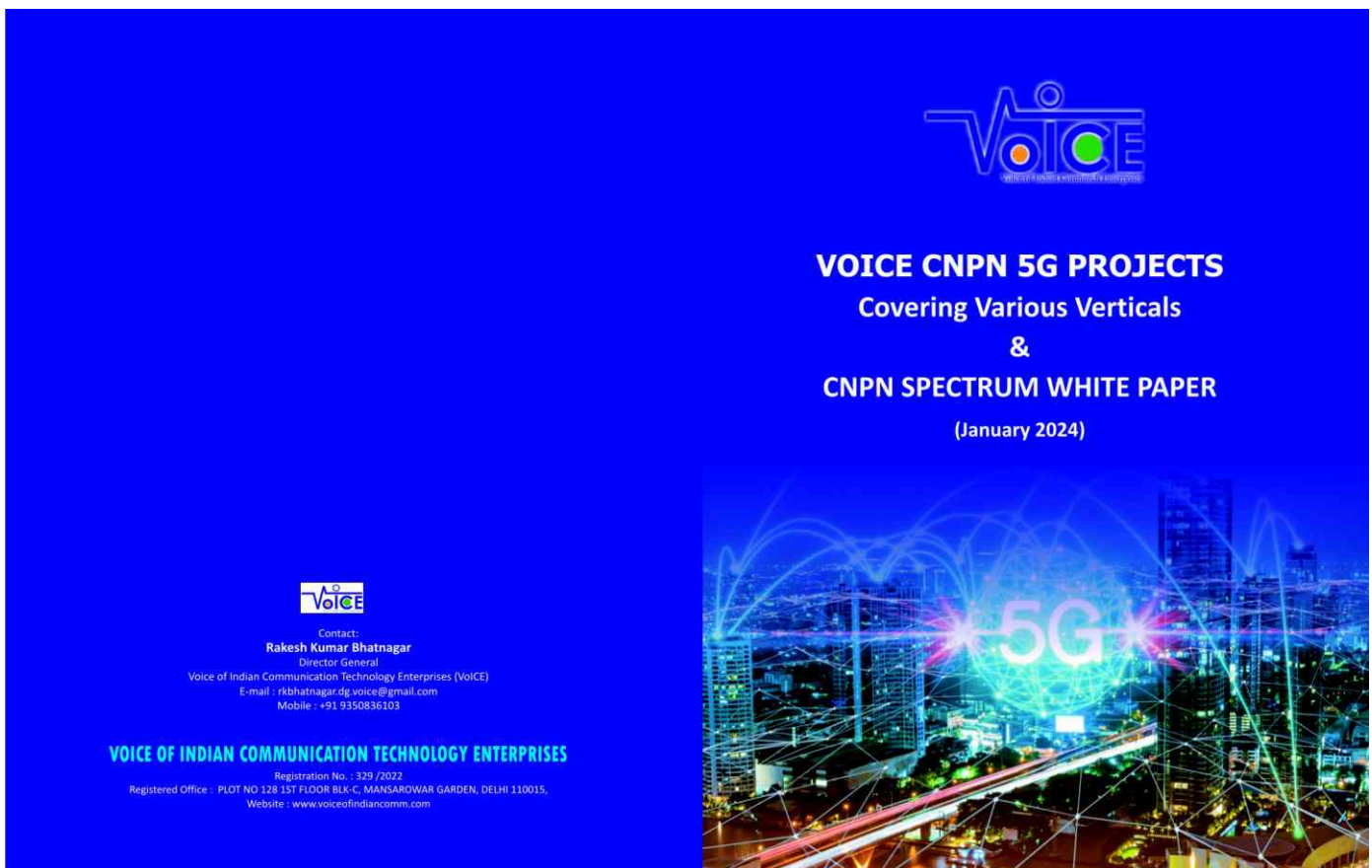
Case Study on Telecom Imports from China

<https://voiceofindiancomm.com/assets/pdf/case-study-on-telecom-imports-from-china.pdf>



Bharat Telecom 2024 Booklet at Delhi (29 January-30 January 2024) with CNPN Spectrum White Paper and VoICE CNPN 5G Projects.

<https://voiceofindiancomm.com/assets/pdf/VoICE-CNPN-5G-Projects.pdf>



Shri Sanjay Nayak is the Mentor and Advisory support for the VoICE.

Shri Rakesh Kumar Bhatnagar functioned as Director General of VoICE.

Report from four task forces from Voice Members

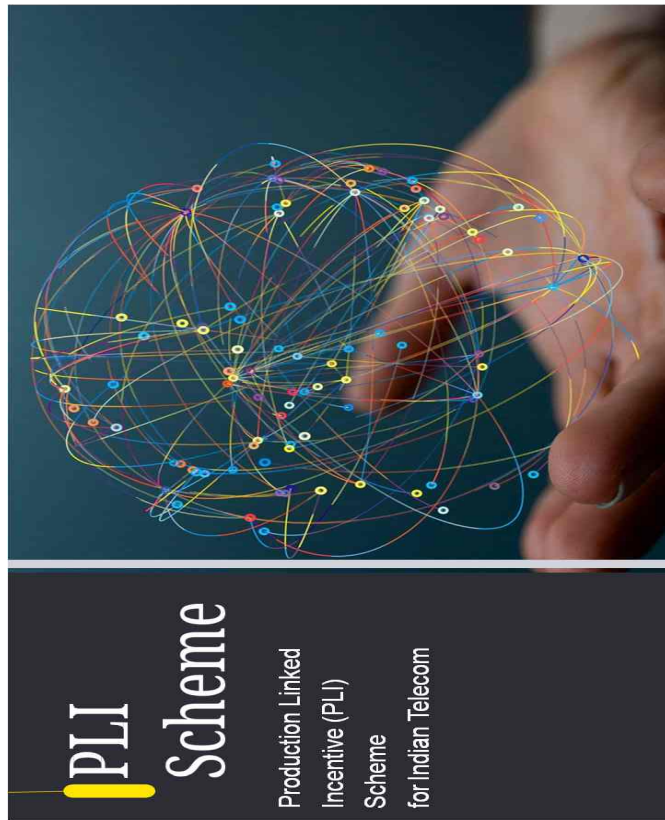
Hon'ble MOC after a review meeting with 42 CEOs of PLI awardees had constituted four task forces to after MOC identified the need for creating task forces to resolve issues that the companies raised before him and recommend to the government measures that will boost the domestic telecom manufacturing ecosystem and remove the bottlenecks.

Under the first task force, the DoT has sought recommendation for a phased manufacturing programme for telecom gear manufacturing to boost domestic component supply chain ecosystem as well as attract global players. This task force was chaired by state-run research arm C-DoT CEO Shri RK Upadhyay, GC member of VoICE.

The second task force under chairmanship of Tejas Networks CEO Sanjay Nayak (Chairman, VoICE at that time) was constituted to study the present ecosystem and recommend to the government potential 4-5 chip developments under scheme like Telecom Technology Development Fund, Semiconductor Policy and policy intervention required for reducing dependence on imports.

The third task force studied the time taken in custom clearance and air cargo movement, infrastructure available and suggest measures for improving lead time and reduce inventory in production and sales, setting up Free Trade Warehousing Zones at key airports etc to resolve logistics issues. This was headed by Shri Puneet Aggarwal, VVDN and Vice Chairman, VoICE.

The fourth task force was set up under chairmanship of telecom gear makers body VoICE Director General Rakesh Kumar Bhatnagar to identify new opportunities for development and manufacturing of 5G products in the country that will be required under Digital India, data centers, railway modernization etc.



Specified Telecom & Networking Products...

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Core Transmission Equipment <ul style="list-style-type: none"> DWDM, OTN, Multi Service Provisioning Platform, SDH, PTN, MPLS, GPON, NG-PON OLT, Digital Microwave Radio, Millimetre Radio, EV-Base Radio, Satellite Gateway (Hub/Earth station) Equipment, Free Space Optics Communication Equipment | |
| 4G/5G, Next Generation Radio Access Network and Wireless Equipment <ul style="list-style-type: none"> 4G/LTE RAN Base Station & Core Equipment, 5G RAN Base Station & Core Equipment, Edge and Enterprise Equipment, Wireless Telecommunication Equipment in Access and Backhaul, Telecom Antenna, O-RAN Equipment (Radio Unit, Distributed Unit, Centralised Unit, and Radio Intelligent Controller) | |
| Access & CPE, IoT Access Devices and Other Wireless Equipment <ul style="list-style-type: none"> Unified Communications Platforms, IP Multimedia Subsystem, Soft Switch, GPON OMT, WiFi Access Point and Controller, LTE CPE, 5G CPE, Short Range Devices and Associated Electronics in new technologies like 4G/5G/FTTH, etc., Internet Set Top Box, Satellite CPEs for accessing Internet, VSAT Equipment, NGPON OMT, Telecom modules of IoT/M2M Access Devices | |
| Enterprise equipment: Switches, Routers <ul style="list-style-type: none"> Switches, Routers, IP and Packet Switching and Routing Apparatus | |

Summary of the Presentation covering all 4 Task Forces is enclosed as below

| Production Linked Incentive (PLI) Scheme for Telecom & Networking Products | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Salient Features | Key Highlights |
| To promote designed manufacturing of Telecom and Networking Products | <input type="checkbox"/> Tenure – 5 years (Between FY 2021-22 to FY 2026-27) |
| To create Global Champions out of India | <input type="checkbox"/> Incentive Rates – 4% to 7% (additional 1% incentive for Designed Manufacturing) |
| 1st PLI Scheme to have dedicated corpus and higher incentives for MSMEs | |
| Introduced Designed Manufacturing with additional | |
| Incentive Provides a Bouquet of Products for availing | |
| Incentive | |
| Synergy with other PLI Schemes | |
| <input type="checkbox"/> Vendor Connect Portal to promote Domestic ecosystem | |
| <input type="checkbox"/> Semiconductor Policy | |
| <input type="checkbox"/> Telecom and Networking require Electronic components which are also covered under PLI Scheme for Large Scale Electronics Manufacturing | |
| <input type="checkbox"/> PLI Scheme for IT Hardware | |
| <input type="checkbox"/> Electronics and Telecom Products | |



Task Forces for Promoting Make in India for the World

A Roundtable Conference was held on 03.12.2022 under the Chairmanship of the Hon'ble

Minister of Communications with CEOs of PLI Beneficiaries to understand various issues being faced by them. DoT has constituted the following Task forces:-

- Indigenous Design of High Volume Telecom Chipsets,
- Resilient component ecosystem,
- Efficient Customs & Logistics System for Electronics & Telecom and
- New Opportunities in Telecom Equipment as a joint initiative of DoT, MeitY and

Railways

Steps to resolve logistics challenges for electronic sector

| SN | Issues | Justification | Recommendation |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Delay in clearance of shipments on account of CHIMS (Chip Import Monitoring System), SIMS (Steel import monitoring system) and PIMS (Paper Import Monitoring System) | <ol style="list-style-type: none"> 1. Payment of CHIMS / SIMS / PIMS is mandatory for clearance of goods from customs. For AEO T-2 and above certified importers although deferment of duty payment is allowed the payments of CHIMS / SIMS / PIMS has to be prior to clear of every shipment. This causes a lot of delays in clearance of shipment. 2. Requirement of Digital signature certificate for SIMS is an administrative hindrance. | <ol style="list-style-type: none"> 1. Option of deferment of payment of CHIMS, SIMS and PIMS should be allowed. 2. Requirement of using DSC for SIMS application should be done away with. 3. CHIMS, SIMS and PIMS etc. should be provided before BoE (Bill of Entry) filing. 4. Payment of CHIMS, SIMS and PIMS should be enabled through payment gateway and not required to be done on a shipment-to-shipment basis from user's Account. <p>As per Customs AEO Circular 33/2016 Dated 22/07/2016, we are looking similar payment deferment benefit in CHIMS, SIMS, PIMS, MIMS etc.</p> |
| 2 | Physical examination of shipments requiring temperature-controlled environment | Products like PCBs, ICs, Transistors etc. are moisture sensitive and require temperature-controlled environment. On examination of these products in non-temperature controlled environment, these products have to undergo additional process under manufacturing which might delay the production by 1-3 weeks. | <ol style="list-style-type: none"> 1. The Importers of such sensitive materials should get a different label/ category. 2. Custom authority should not open such sensitive components in non-controlled environment which attracts dust and moisture. 3. Customs can Examine the Goods under X-ray without Opening such Sensitive Materials. |

Taskforce for Efficient Customs & Logistics System for Electronics & Telecom

Steps to resolve logistics challenges for electronic sector

| SN | Issues | Justification | Recommendation |
|----|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3 | Import of defective finished goods exported earlier for repairs and re-export is very tedious time consuming process | The process for customs clearance of goods returned for repairs and re-export is very tedious and time consuming. The goods are lying at customs warehouse for long time and go through rounds of Clarifications/Justifications. | <p>Import of defective finished goods exported earlier for repairs and re-export should be allowed up-to a certain % percentage of revenue of the company with very minimal documentation and under a self declaration mechanism. For the same, one-time bond could be taken as against a shipment-wise bond which is provided.</p> <p>As per Customs Notif. 45/2017 & 158/1995- Importer can re-import the goods after the establishment of identity.</p> <p>Further, to have a better clearance system, identification of the returned equipment should be done through hard-burnt serial numbers, MAC ID or similar ID's of the products for return approval. Similar identification should be used for customs clearance during re-export.</p> |

Steps to resolve logistics challenges for electronic sector

| SN | Issues | Justification | Recommendation |
|----|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4 | Compliance with GR Waiver and NRC (No Remittance certificate) | GR (Guaranteed Remittance) waiver is required from Authorised Dealer (bank) for goods exported for which payments would not be received by the exporter. These shipments are on account of export of defective products after repair / maintenance, products sent for testing / calibration where goods are destroyed during testing, products sent as samples, etc. | Export of goods (RMA / Testing / Validation / replacement) without payment realization obligation up to a certain % percentage of revenue of the company should be allowed without the requirement of compliance with GR waiver. |
| | | Similarly, NRC (No Remittance certificate) is required from the Authorised Dealer (bank) when goods are received on consignment basis, free shipments towards faulty goods supplied by the vendors, rejected material to be sent back to overseas vendor, etc. | Import of goods (Samples/ Validation / replacement) without payment obligation up to a certain % percentage of revenue of the company should be allowed without the requirement of compliance of NRC. Beyond the said value, this compliance can be taken. |
| | | The process of getting GR waiver and NRC from banks is time consuming (around a week) and involves a lot of paperwork. | As per Sec. 4, exemption under notification no. FEMA 23/2000-RB dated 3rd may 2000 needs to be amended for this update. |

Steps to resolve logistics challenges for electronic sector

| SN | Issues | Justification | Recommendation |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5 | Integration of customs portal with GST still has issues wherein there is a delay in reflecting of GST credit from customs portal to GST portal. RBI. | Integration of customs portal with GST still has issues wherein there is a delay in reflecting of GST credit from customs portal to GST portal. Also, BOE filed in customs portal at times are not reflecting to AD under RBI portal, resulting in issues during payment to the vendor. | All the three portals should be seamlessly integrated. Till such time, credit for GST paid during imports should be allowed even if the said credit is not reflecting in GST portal and payments should be possible through manual refilling of BOE. |
| 6 | Certification requirements | While clearance, customs authorities require certification like BIS, WPC, etc. for components which may not be required. For instance, BIS for battery to be used in a final product to be exported is not required. This resulted in increase in no. of cases of examination and also delay the clearance process. | The certification requirements should be reassessed. There should be an Exemption from Indian Quality Standards for the Raw Material & parts which are meant for Export / Not for Re-Sale in India (E.g. – BIS / WPC / ETA / NOC form DoT should be waived off in case of Material is being used for an Export FG) (As per Respective Regulatory Authorities the Standards has made applicable so in their respective guideline these relaxation should be added. Likewise for BIS Products Under Compulsory Certification which falls Scheme – I, Scheme – II, Scheme – III & For WPC DGFT General Provisions Regarding Imports And Exports 2.01 (B), require to be amended. |

Steps to resolve logistics challenges for electronic sector

| SN | Issues | Justification | Recommendation |
|----|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7 | Procedural clarity | 1. Clarity on operations on Special Trading zones 2. Lesser queries are raised during clearance. 3. Simplification of documentation of CI/BoE/Shipping 4. Process of Advance Ruling and pre-assessment are available on the website as Guidelines and supported by step by step procedure to follow instead of dependency on third parties/CHA's. 5. Reduction in time for faceless assessment and payment of Duty Drawback / RoDTEP claims | 1. The Advance Ruling takes 90 days which is very Long Time line, this should not be more than 10-15 days and complete process should be Online instead of offline. Notification No. 55/2002 – Customs, we are seeking revision in the same. |
| 8 | Duty impact on export of leftover material / excess inventory | Most of the components are ordered in minimum order quantity of component manufacturer. Further there are cases of inventory obsolescence due to change in technology, design, etc. At present, for such cases there is duty impact in case the initial import is under EOU or any kind of duty exemption | Considering the nature of industry, export of leftover material / excess inventory should be allowed upto a certain percentage of revenue without any duties under a self declaration mechanism. Foreign Trade Policy (Para 6.15) to be revised for this update. |

Steps to resolve logistics challenges for electronic sector

| SN | Issues | Justification | Recommendation |
|----|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9 | Shorter timelines are permitted for the storage of goods imported under IGCR or under bonded warehouse | The maximum permissible limit for storage of components after import in the bonded warehouse or components cleared under IGCR is not commensurate with the component's lead times at the present time. This results in additional compliance and risk of duty / GST impact on imports | The timelines should be extended to 2 years without any compliance requirement As per IGCR Rule 2017 & Customs Circular 18/2022, the Imported Material should be consumed within 6 Months which is not possible in the current situation as there is Global crisis of components hence time line should be extended from 6 Months to 2 Years however a provision has been introduced wherein the Jurisdictional Commissioner can further extend such period of six months by another 3 months. However, it is clarified that such extension can be given provided the importer furnishes sufficient reason/s for not conforming to the time period so prescribed, which were beyond the importer's control, this provision doesn't help the Electronics Industries. |

Telecom Chipset Mission

Taskforce for
High Volume Telecom Chipset Development



✓ Telecom Equipment Companies (OEM)

- USA: Cisco, Alcatel-Lucent, Motorola, Juniper Networks, Ciena, Adtran, Calix
- Europe: Ericsson, Nokia
- Asia: Huawei, ZTE, Fiberhome, Samsung, NEC, Fujitsu, Tejas

Traditionally telecom OEMs used to make most of their own chips till ~1995.

With the advent of fabless industry, a new trend started and companies like Broadcom, Qualcomm started making chips that were commonly used across multiple OEM

✓ Semiconductor Companies (IDMs & Fabless)

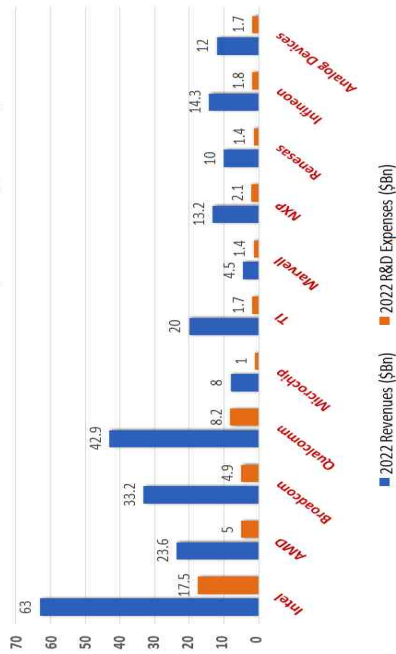
- USA: Qualcomm, Intel/Altera, Broadcom, Marvell, TI, Xilinx/AAMD, Analog Devices, Microchip
- Asia: MediaTek, Realtek, Huawei, ZTE, Renesas, UNISOC
- India: Saankhya Labs, SignalChip, Cirl
- Europe: NXP Semiconductors, Infineon Technologies, ST-Micro
- Some of the telecom OEM also make few of their own chipsets

✓ Semiconductor Fabs

- USA: Intel, Micron, TI, GlobalFoundries
- Asia: TSMC, UMC, Samsung, Huawei, SWIC, SK Hynix, Renesas
- Europe: NXP Nexperia, STMicroelectronics, Infineon

Telecom Chip Industry Dynamics

Annual Revenues and R&D Expenditure (\$Billions)



Dominated by few large global players
R&D Investments: Significant investments needed each year
Successful commercialization is important

✓ USA- Major global source

- Semiconductor industry started by private companies with generous funding from Government
- Defense, space, telecom and other strategic needs
- CHIPS and Science Act passed in August 2022
- Invest \$50B+ in semiconductor R&D, manufacturing and workforce development
- \$10B funding for creating regional technology hubs
- \$1B to support distressed communities
- 25% tax credit for capex investments in semiconductor manufacturing
- Beneficiaries cannot build facilities in China and other countries of concern
- should invest in human resource development
- \$150 billion additional private investments from companies.
- New fab: being established by Intel, Micron, Qualcomm

✓ China- Upcoming

- In 2015 announced "Made in China 2025" plan
- Semiconductors listed as the top industrial innovation priority
- \$140B+ national mission to further boost domestic chip manufacturing and R&D
- 20% subsidy on semiconductor equipment purchases; preferential tax rates
- Special incentives for investments in domestic chip design activities
- Manpower: Building new facilities and Expansion of existing fab
- Achieved mass production of 28 nm chipsets in Domestic Fabs; now targeting 14 nm
- Huawei/Hisilicon, Unisoc, ZTE have designed new 5G chipsets (57 nm technology Global Fabs)

✓ Israel

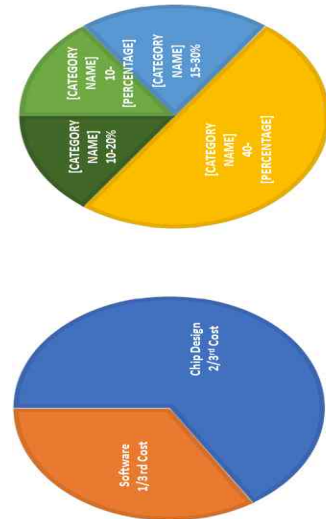
- Source of fabless chip design startups which typically get acquired by larger US chip companies
- Defense and Govt play an important supporting role (e.g. developing communications chips for internal use)

✓ South Korea

- Using their chips for captive consumption first and then exporting for others
- Gained economies of scale due to dominance in Mobile handset, Display and Memories
- Significant Long-term R&D Spending (e.g. Advance Fabs, 5G, Display, Handsets)



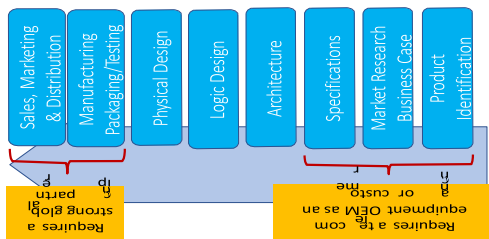
Chip Design Cost Break-up

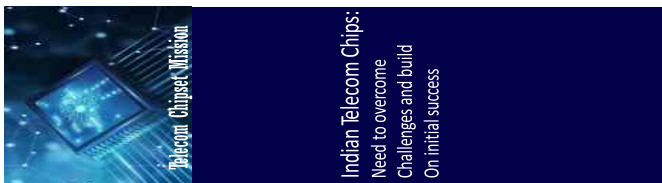


Chip development Costs for:

Low Complexity \$5M - \$20M; Medium Complexity: \$20M - \$75M; High Complexity: \$75M - \$250M

Chip Design Steps



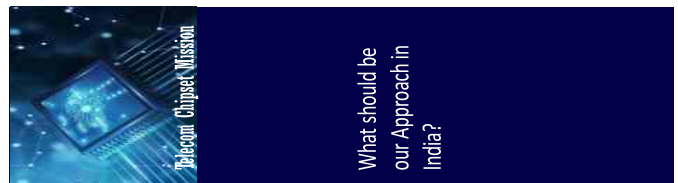


➤ Initial Success of Indian Chip companies- must leverage their 15+ years of experience

- ❑ Saankhya : SDR chipset for Broadcast, Satcom, 5G (shipped >50K; >1 Mn this year)
- ❑ Signalchip: LTE chipsets (initial shipments made), 5G RF, 5G BB under development
- ❑ Cirel: Power/Analog chips (shipped >1Mn chips)
- ❑ Wisig: NB-IOT chipsets (initial orders received)

➤ Challenges faced by Indian Telecom Chips companies

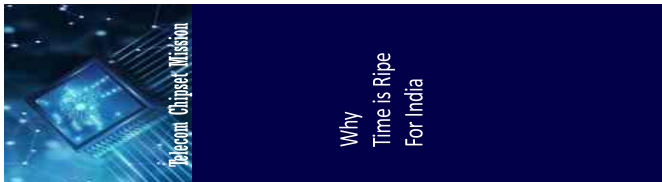
- ❑ Investment is too large to be do by entrepreneurs on their own, especially if there is no sales/business commitment, at least for initial procurement
- ❑ Government policies do not provide optimal funding. The viability funding gap is too much to bridge for a startup
- ❑ VCs unwilling to fund chip startups in India
 - ❑ Long gestation cycles, Lack of deep tech expertise in the VC industry
 - ❑ Aren't convinced that there is an opportunity to develop "me-too" chips that will compete with those already available in market from global chip suppliers
 - ❑ Lack of "role models" of success in India
- ❑ Lack of local OEMs in India, who would help define the specs and can be anchor customers
- ❑ "Chicken and egg" problem to break into international OEMs
- ❑ Did not have enough "India-specific" problems to solve. This is changing now (e.g., NAVIC, Broadcast as a service, D2M) but significant support needed for kick off
- ❑ Vendors (fabs and EDA) are 500 pound gorillas : Foundries don't give competitive wafer pricing, resulting in more expensive per unit component costs



What should be our Approach in India?

➤ Suggested Approach

- ❑ We should focus on Fabless chip design
- ❑ Government support is a must to kickstart this effort
 - ❑ Other countries did get due support from their Government
- ❑ Leveraging India's current strength in Chip design talent
 - ❑ Leverage India's strength in Algorithms & Digital Signal Processing
 - ❑ Attract participation from Global Indians and enlist their support
- ❑ Develop chips that can be used in equipment for large Domestic market
 - ❑ \$4 Billion demand- substitute with Indian chips where possible
 - ❑ Target global customers as a "trusted" chip source, once we achieve success in India
- ❑ Lower commercialization risks by identifying anchor OEMs in India
 - ❑ Leverage eco-system of 30+ System companies which got approved under PLI, to increase their domestic value-addition
- ❑ Ensure optimal level of funding
 - ❑ Need to support all stage of development as well as well as successful commercialization
 - ❑ Investment needed for: design, testing, prototyping, software tools (SDK, Compilers)
- ❑ Support any Indian Company (startup, MSME or large company)
 - ❑ Select those who have the best chance of success due to their competency
 - ❑ Key is to ensure successfully development as well as commercialization of the chips



Why Time is Ripe For India

➤ Why Time is Ripe for India

- ❑ Government focus on Atma-nirbharita & Make in India
 - ❑ Geo-Political issues & realignment
 - ❑ Need to achieve self-reliance & Security in this critical sector
 - ❑ Opportunity to build a "India telecom stack" that creates new class of devices, chipsets and architectures
- ❑ Large pool of semiconductor chip design talent
 - ❑ 3000+ Leading edge chips Designed
 - ❑ 1.25 Lakh highly skilled Chip design engineers;
 - ❑ Every Semiconductor MNC has R&D center in India
 - ❑ Growing ecosystem of Indian Semiconductor Start-ups
- ❑ A few pioneering companies have shown that chips can be designed and owned by India
 - ❑ Saankhya Labs, SignalChip, Cirel, Wisig
- ❑ We have deep expertise in Digital Signal Processing (DSP)- a critical ingredient for telecom chips
 - ❑ Foundational DSP technology with very few companies in the world, one is Indian
 - ❑ Ahead of China and Israel in this critical foundational technology
- ❑ Large demand for Semiconductors chips for telecom in India and Globally
 - ❑ Communication Chips are 30% of global semiconductors chips
 - ❑ Global semiconductor market of ~600 Billion, Reaching to 1 Trillion by 2030
 - ❑ Potential to increase Domestic value addition in equipment- India uses approx. \$4 Billion of imported communication chips each year
- ❑ Growing ecosystem of system design & manufacturing companies
 - ❑ Design houses, ODMs, EMS



Key Criteria For Selecting Initial Focus Chips

➤ Key Criteria used for selecting which Telecom Chips to focus first

- ❑ Strategic importance for India
- ❑ Local and global demand in telecom systems
 - ❑ Also look at adjacent sector demand, where possible
- ❑ Availability of technical/development know-how within India (do-ability)
- ❑ Ensure development complexity such that we can deliver within targeted timelines of 24-36 months
- ❑ Availability of licensable IPR/libraries that will be required to complete the SoC
- ❑ Ability to develop a "competitive" chip against global competition
 - ❑ Strategically develop key chipsets without overt head-on competition against generic microprocessor or a large-scale smartphone handset chipsets
- ❑ Select few chips that go into the following 2 categories of products
 - ❑ CPE devices
 - ❑ Network infrastructure equipment
- ❑ Should help build strong capabilities/competencies in digital, analog and mixed-signal chip design



Products to Chipset Mapping: Chips Used in different Telecom Products

| Telecom Products | Types of Chips & IPs Used |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Wireless |
| Radios | RF Transceiver, Power Amplifiers, FPGA, LDMOS, Power Management, Drivers, Analog Front-End (mixed signal ASICs) |
| Baseband Unit | Digital Signal Processors, FPGA, Packet Switch, Multi-core CPUs, Timing Engines for Network/GPS synchronization |
| Handsets | 5G Modem, High-End Processor, Wi-Fi, Graphics, RF IC, GPU, AI/ML, Sensors |
| IoT/Dongle Devices | Microcontrollers, Wi-Fi, Baseband & RF for Multi-Radios (Zigbee, NB-IoT, LoRa) |
| | Wireline |
| Optical Transport | Packet Switch, Framer, FPGA, Optical Transceivers, Control Processor, Memories, Ethernet Switch, Line Interface Chip, High-speed Serializer/Deserializer (SERDES), Synchronizers, Clocks |
| Home Broadband – OLT Equipment | Packet Switch, FPGA, PON MAC, PON Optical Transceiver |
| Home Broadband – ONT (Fiber Modem) | WiFi SOC, PON SOC, PON Optical Transceiver |
| Packet Switches | Ethernet PHY/MACs, Processor, Switching ASICs, Traffic Manager |
| Routers | Switching/Routing Chip, DDR4/GDDR/HBM/TCAM Memory Chips, FPGA, High-speed SERDES, Control Processors, Optical transceivers, Synchronizers, Oscillators, GPS/RNSS receiver |
| | Common Modules |
| These are generic functionalities | Power Modules, Oscillators, PLL Clock Multipliers, Memories, P/D, FPGA, Control Processors |

➤ Customer Premises Equipment (CPE)



- Next-generation Broadband CPE chipset

- Key IPs: xPON-ONT & WiFi 6/6E/7
- Products: Home gateway for FTTH (Fiber to the home)



- 5G Modem + Radio chip for Dongles/IoTs/Mobile Edge/Satcom

- Key IPs : 5G Modem Baseband + RF Processor
- Products: Dongles / Edge devices /Satcom IOT



- Multi-radio chip Micro-controller for Gateways

- Key IPs: Microcontroller, Multi-Radio Baseband + RF, Analog
- Key Radio IPs: NB-IoT/ZigBee/LoRa/Wi-Fi (Baseband & RF)
- Products: IoT, Industry 4.0 and Edge Gateway

Recommended Chipsets for CPE



Recommended Chipsets for Network Equipment

➤ Network Infrastructure Equipment

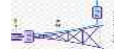
- xPON OLT chips for fiber broadband infra equipment

- Key IPs: Serdes, xPON MAC, Switch Fabric
- Products: Broadband Head-end Units



- Digital Signal Processor for Radio and Baseband Processing

- Key IPs : Architecture, Vector ALU/FPU, FFT, LDPC cores
- Products: Wireless infra 5G/6G RRH/BBU, RU/DU



- L2/L3 Packet Switch chipsets with Embedded Processor

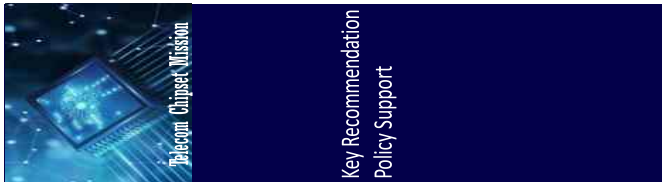
- Key IPs: Serdes/MACs, DPI engine, Lookup engine, Schedulers
- Products: Campus and Enterprise/Data Center Networks



Impact Analysis for the recommended Chip-Sets

| Chipset | Telecom Chips of National Importance | | | | | Selling Price \$ (range) | | Indian Biz |
|-------------------------------|--------------------------------------|-------------------|------------|-----------|-----------------|--------------------------|------------|--------------|
| | Product/Application | Volume M Units | Complexity | Tech Node | Dev Cost \$M | Low (75%) | High (25%) | |
| x-PON-ONT | Home | 150 | Medium-Low | 12 nm | 20 | 3 | 30 | 6% of Global |
| WiFi-6/6E/7 | Home/Outdoor CPE | 500 | Medium | 12 nm | 80 | 3 | 60 | 518 |
| 5G Modem + Radio | IoT/Auto/Meter for UE | 1000 | High | 7 nm | 80 | 5 | 25 | 600 |
| Microcontroller + Multi Radio | Edge/IoT | 500 | Medium-Low | 12 nm | 25 | 10 | 30 | 450 |
| x-PON-OLT | Exchange/CO | 10 | Medium | 12 nm | 25 | 50 | 80 | 35 |
| Configurable DSP | 5G/6G Baseband/SDR | 10 | High | 12 nm | 45 | 100 | 150 | 68 |
| L2-L3 Packet Processor | Switches/Routers | 20 | Medium | 12 nm | 25 | 20 | 150 | 63 |
| Total | | 2190 | | | 300 | | | 1820 |

- The proposed chipsets have an estimated annual demand of \$1.82 Billion in India
- Currently India imports around \$10 Bn of telecom equipment
- Semiconductor components would at least be 40% i.e., ~\$4 Billion. This number will only go up in future
- After success in India, we can sell the same chips internationally and the revenue potential will be very high
- The total development cost is estimated to be \$300 Million across all chipsets
- Average of \$50 Mn per chip, including development cost as well as commercialization incentives



➤ Key Recommendations (1 of 2)

- ❑ Initially focus on developing upto 6 chips
 - 3 chips to be used for CPE/Customer Devices
 - 3 chips to be used in Network Infrastructure equipment
 - Facilitate development and ownership of maximum IP content in the chips to make India really Atmanirbhar
- ❑ Overall approach should be to focus on development as well as successful commercialization and initial procurement.
 - Aggregate the government demand to offer the initial procurement commitment
- ❑ Allocate a budget of \$300 Million for the Telecom Chipset Mission
 - Covers development costs as well as commercialization incentives
- ❑ Augment MeitY's DLI scheme for semiconductor design and amplify it using TDDF from DoT
 - Govt should fund 75% or more of the total chip development expense, depending on track record and size of the company
 - We need to tweak existing DoT and MeitY's policies for smoother implementation, including milestone based funding with upto 20% advance and time-bound execution (committee-to-funds in <6 months)
 - Provide free access to EDA tool as part of National EDA grid

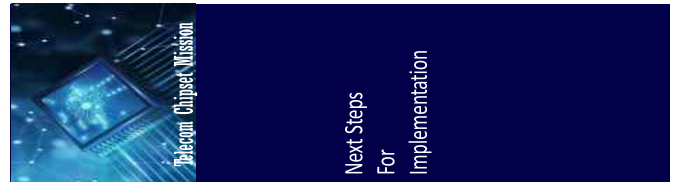


➤ Key Recommendations (2 of 2)

- ❑ Provide 20% Deployment Incentive (capped at Rs 200 crore per chipset) to offset initial cost handicap
 - Creates market pull against incumbents
 - No taxes of any kind (custom duties etc.) on Indian chips until a certain critical volume is reached
- This incentive may be given to any Indian telecom chip with Indian IPs, even the suo-moto designed ones
- Mandate/incentivize private operators to deploy Indian products that have high domestic content (preferably with Indian chips)
- ❑ Aggregate India-needs for chip manufacturing and common negotiation with Fabs
 - Establish dialog with global players to provide manufacturing support (wafers, MPW, Masks, ATMP)
 - Facilitate IP Licensing of common building blocks that go in a SoC
- ❑ All Indian companies, irrespective of size, should be eligible
 - Focus is on selecting the best candidate who can deliver results
 - Academia can be involved in providing their expertise in areas like algorithms and architectures
- ❑ After the initial handholding, industry can step-up on its own, once we have established a few successes

Task Force on Telecom Components

Building a resilient component ecosystem for telecom manufacturing



✓ GoI-DoT to issue an RFP inviting qualified bidders to submit Chip Development proposals for the focused chips

- ❑ DoT should only specify high-level requirements & use cases
 - The selection of process node and architecture should be left to the implementer
- ❑ Bidders to propose detailed proposal focusing on
 - Architecture and Detailed Technical specifications
 - Chip Development cost & Funding Requirement, in line with the functional complexities of chipset
 - Details of anchor customer as well as manufacturing partners, when possible
- ❑ Ensure time bound completion for the approval process
- ❑ Development-cum-Procurement RFP should be offered

✓ Enable Technical collaborations with systems companies who serve as anchor customers

- ❑ PLI beneficiaries could be prospective Indian OEM customers
- ❑ System OEM can either be domestic or a foreign telecom equipment/device OEMs

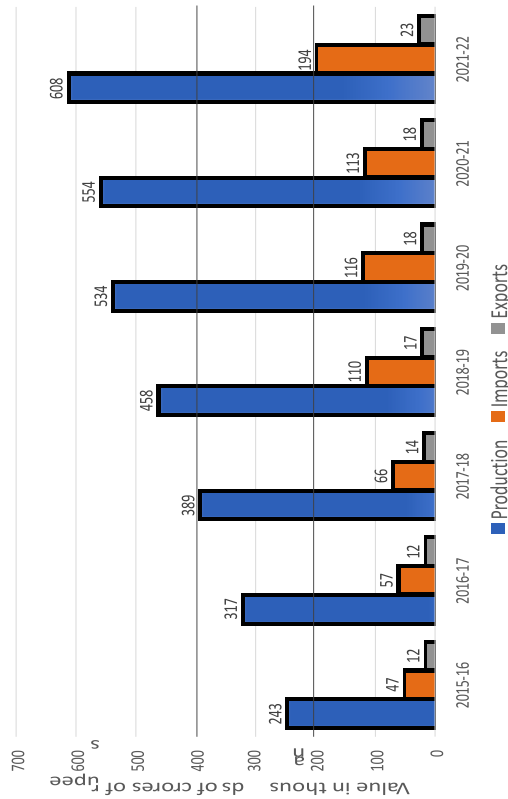
✓ Global business collaborations for faster development and marketing of the chips

- ❑ Licensing, Co-Creation of IPs and marketing agreement with strategic partners who are already making other parts of semiconductors for telecom equipment.
- ❑ IP Licensing in lieu of equity or royalty from the start-ups who have developed similar IPs for other product segments.

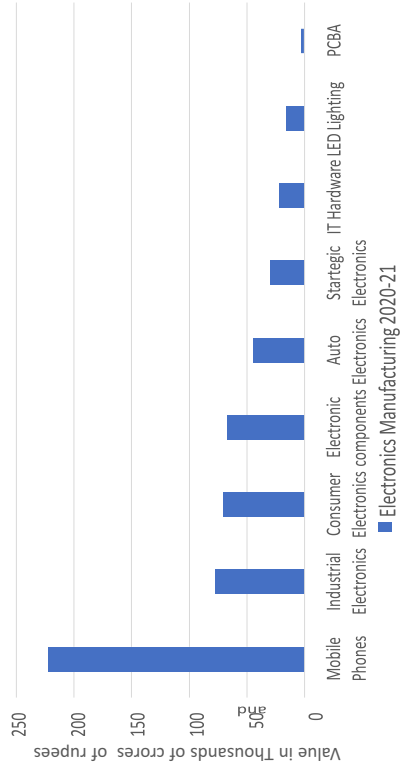
✓ Incremental augmentation of existing DoT and MeitY's policies

- ❑ Existing PMI policies should be augmented to promote use of domestic chipsets, where available
- ❑ Aggregate demand for commercialization (USOF, Defence, Power, Railways, Space, Broadcast etc.) and offer initial procurement commitment through current government projects; enable market access in strategic areas
- ❑ Incentivize private telcos to buy PMI products with high domestic value addition

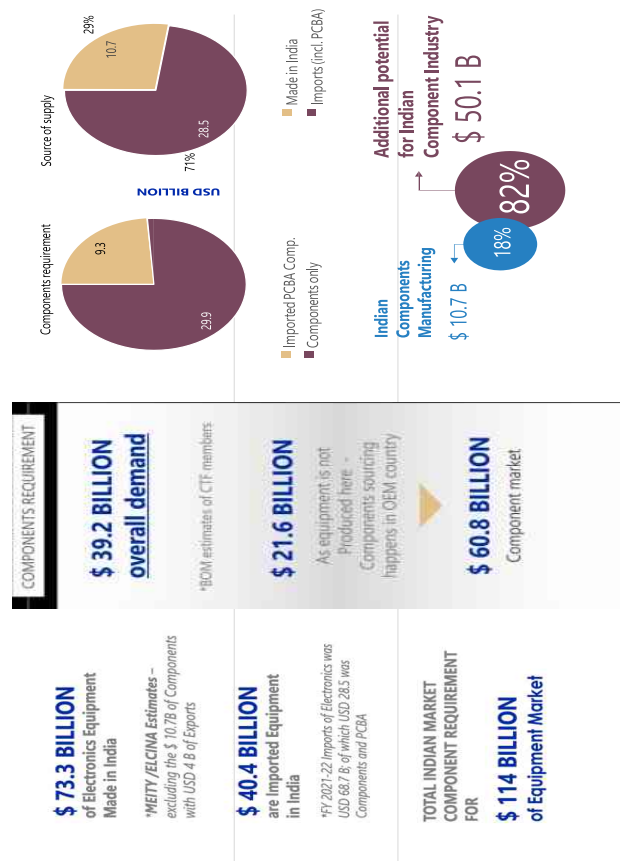
Electronics Production and Components Imports Versus Exports in India



Electronics Manufacturing in 2020-21



Indian Electronics component Industry in FY 2021-22



Key Pain Points

- Domestic telecom manufacturing/research sector facing heat due to component shortage thus disrupting manufacturing
- High lead time in import of critical telecom electronics components, (Post covid, lead time for procurement of many critical components have gone up to two years)
- Cost estimation, delivery forecasting etc. becomes unreliable due to dependency on imports and high lead time
- OEMs have to pay LD (late delivery) charges and the reputation of Indian market takes a hit.
- Differential pricing of these components compared to other global manufacturers
- Logistics issues like customs delay etc.
- No restriction on imports of unmarked components leading to imports at lower prices leading to cost disability.

Breakup of spends and requirements in the value chain

Passives, PCBs and RF devices are easier to start than ICs

| Commodity | % Spend |
|-------------------------------------------------------|-----------------------------|
| Integrated Circuits (ICs) & Memory modules | 40% to 50% & 6% to 8% |
| Passives (Resistors, Caps, Inductors, Magnetics) | 18% to 20% |
| PCB | 8% to 10% |
| RF Devices | 5% to 6% |

Key Recommendations

Medium Term:

- ☐ RF and Passive components can be manufactured in India. These type of components are easy to localize with limited investment.
- ☐ We have PLI scheme for Electronics component Manufacturers, very few suppliers only committed to invest till now (i.e. Walsin, TDK & Vishay)
- ☐ There are many Japanese supplier like Murata, Yageo, TaiyoYuden, Panasonic, NIC etc. We can work with friendly countries like Japan to establish local manufacturing for these passives/RF.
- ☐ Most of the chip manufacturers are using Indian talent to design Chips and have their design team already established in India. Encourage Fabless Design in India through specific schemes for specific chips
- ☐ Engage with chip companies like TI, Microchip, Infineon etc. to set up its ATMP in India . JVs for ATMP with the help of the government
- ☐ Normally Telecom products require more than 12 layers PCBs. Most of the current local supplier don't have technical capabilities & capacity to meet the quality requirement. Also they are not cost competitive to supply high complex boards.
- ☐ PCB domestic manufacturing capabilities to be strengthened to fabricate complex PCBs. Infrastructure requirements like heavy water plants, tightly controlled lab environments need to be built on large scale.
- ☐ Work with other global supplier like Muxlex, TTM to establish their PCB manufacturing in India

Key Recommendations

Short Term:

- ☐ Liberalised PLI for components and ATMP (assembly testing, marking, and packaging) units
- ☐ Focus with friendly countries to set up JVs for Passive manufacturing under PLI
- ☐ There is a need of distributor warehouses of components in India (on similar lines as Singapore, Hong Kong etc.).
- ☐ Distributors need to be promoted to open up warehouses (with facilities of testing, packaging, logistics etc.) through incentives, and /or Policy measures (liberalization of FTWZ), providing better logistics, reduction of custom delays etc.
- ☐ Revise our FTWZ trade policies and relax it to encourage Free trade from FTWZ.
- ☐ FTWZ also can support as distribution hub for local manufacturing and also can cater Global requirement from India.
- ☐ Eventually become electronics hub similar to Dubai, Singapore, Malaysia & Hong Kong .

Key Recommendations

Long Term:

- ☐ Set up Fabs in India with JV
- ☐ End to end manufacturing from wafer to ICs

PLI for Components

| Sl | Scheme | Dept./Ministry | Investment Threshold Range | Incentives to Investment Ratio |
|----|------------------------------------------------------------|----------------|----------------------------|--------------------------------|
| 1 | PLI 1 (Mobile Phones Global companies) | MeitY | INR 1000 Cr | 347% |
| 2 | PLI 1 (Mobile Phones Domestic companies) | MeitY | INR 200 Cr | 283% |
| 3 | PLI 1 (Specified Components) | MeitY | INR 100 Cr | 80% |
| 4 | PLI 2 (Specified Components) | MeitY | INR 25 Cr | 30% |
| 5 | PLI for WG & LED – 6 Categories of AC, 4 Categories of LED | DPIIT | INR 10-600 Cr | 64%-99% |
| 6 | PLI for Telecom and networking – Total 2 Categories | DoT | INR 10-100 Cr | 45%-48% |
| 7 | PLI for IT hardware – Total 2 Categories | MeitY | INR 20-500 Cr | 75%-83% |

Recommendations for Components

- **Flexible Investment threshold** so that Small, Medium and Large, all three categories of Investors/Manufacturers can participate. Investment threshold to be kept as low as Rs 15 Crore (instead of current 25) for SMEs and Rs 100 Crore for large companies
- **Realistic Capital Output Ratio of 1:2** (threshold level) instead of current 1:4 gives opportunity for those companies (especially the smaller ones) to get opportunity to benefit from PLI Scheme.
- **Longer gestation period of up to 2 years** (to start commercial operations), another 4 years for earning incentive post gestation period.
- **Higher Incentive** is recommended for the components to encourage investment. It is suggested that **PLI of 7-9 % should be considered** for attracting better investment
- In addition to PLI, **Special provision of ELI (Employment Linked Incentive)** for companies for adding new employees in their work force. Suggested ELI upto 50% (subject to ceiling of Rs 7500 per employee/month and an overall ceiling) of employee cost for first 3 years.

FTWZ (Free Trade and Warehousing Zone)

Background:

- SEZ is for manufacturing and FTWZ (from 2016) is for trading
- FTWZ Territory - As per Section 53 of SEZ Act, 2006. It is a deemed foreign territory within the geography of India for the purpose of tariff and trade
- Currently, there are only a few FTWZ (Free Trade and Warehousing Zone. 8 approved, 3 operational), which is a special category of Special Economic Zone (SEZ), set up to create infrastructure to facilitate Global warehousing and trading of goods and services with freedom to carry out trade transactions.
- SEZs are funded by the government. There is no investment made by the Government in these FTWZs.

- Investment limit and Capital to Output Ratio is high (1:4) for small SMEs in current PLI Policy (round 2)

Addition of components in PLI

| PLI Head | Recommended Components | Est Total Demand (Incl Exports) - INR Cr | Est Import % | Important Items for SPES & PLI | |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Passive Components | Ferrites | 1,697 | 70% | Max Investment Rs 500 Cr in 10 Units (Domestic manufacturing unit), Current Import Percentage is ~45% of Demand Max Investment Rs 1000 Cr in 10-15 Units. Current Import Percentage is 55-60% of Demand | |
| | Magnets | 691 | 70% | | |
| | Transformers (less than 1KVA) | 2485 | 60% | | |
| | Inductors | 3,616 | 60% | | |
| | Coils | 987 | 60% | | |
| Electromechanical components | Relays | 1194 | 70% | Max Investment Rs 1500 Cr in 8-10 Units. Current Import Percentage is ~80% of Demand. Sensors are very critical. Higher investment possible | |
| | Switches | 10987 | 70% | | |
| | Micro Motors | 2251 | 80% | | |
| | SSD & USB Storage | 16021 | 90% | | |
| DISCREET SEMICONDUCTORS & ATMP | | | | | |
| Raw Material | | End Component | | | |
| BOPP Film, Metallized Film, Lead Wire, Plastic Cans & Cases | | Capacitors | | | |
| Ferrite Powder and Raw Ferrites | | Ferrites & Magnets | | | |
| Lead Frame, Molding Components, Bonding Wire (Gold, Copper & Aluminium), Dice Adhesive, Etched and Formed Foil, Electrolytes, Tissue Paper | | SSD & USB Storage, IR LED (for CCTV and other applications), | | | |

- More Components/raw materials in PLI eligible List needs to be added (in addition to the existing components covered under PLI round 2). Raw material to be supplied to PLI holders for incentive.

FTWZ (Free Trade and Warehousing Zone)

Background:

- The objective of FTWZ in India should be to make India a logistics hub, like the free zones in Dubai, Singapore, China, and the Netherlands (Rotterdam).
- Currently, there is a Dual risk of 'Exchange rate' as well as 'variation in the price' at which the warehoused components have to be sold.
- This is due to market dynamics (eg. Goods becoming obsolete, less or high demand) and order quantity-based pricing. The final selling prices could often be considerably lower or higher compared to the import price.
- The importer or exporters warehouses the goods in FTWZ. However at the time of exit or clearance, the value of the goods changes as per market situation, demand, supply, urgency of material, etc.
- In such a situation the valuation method is not clearly described in the law thereby leading to inconsistent calculations of the Customs duty, which impacts the trade considerably.

Recommended Action:

- **Differentiation of FTWZ from SEZ is required.** SEZ is for manufacturing and FTWZ is for trading. There needs to be separate Rule set for FTWZ.
- **Instruction No 60** - Clarifies that FTWZ Unit can hold goods on account of Foreign Supplier and buyer and DTA Supplier and Buyer.
 - **It is proposed to insert as 2(ea) in the SEZ Rules:**
 - (ea) 'A client' means a person who utilizes the services of an FTWZ Unit as per its authorized operations and shall include an Indian Buyer, Indian Supplier, Foreign Buyer and Foreign Supplier.
 - This would help in trading activity (attract the global trader in Telecom Component)
- **Proposed Rule 18(5) (It is proposed to insert)**
 - The Units in Free Trade and Warehousing Zones in other Special Economic Zone, shall be allowed to hold the goods on its own account and, or on account of its Clients for dispatches as per the Client's instructions and shall be allowed for trading with or without labelling, packing or re-packing without any processing:
 - This would help in trading activity- foreign currency intra traction (transaction on sale with repacking)

Action Recommended:

- In the current Customs Notification - No. Notification No. 94/2007 - Customs (NT), 10th day of October, 2007. and Notification No. 95/2007-Customs (NT), 10th day of October, 2007. , These rules have to be simplified.
- The Customs Valuation (Determination of Value of Imported Goods) Rules, 2007 and Customs Valuation (Determination of Value of Exported Goods) Rules, 2007 may be revised for determination of under the **Section 14 of Customs Act, 1962** i.e. based on the transaction value.
- This is important for keeping costs competitive and the supply chain efficient. **Duty on transaction value rather than on historical/market values**

Recommended Action:

- **Proposed Proviso 22 (2) (It is proposed to insert)**
 - Provided that in case of a Unit in a Free Trade and Warehousing Zone, the Unit shall maintain proper accounts, financial year wise, separately, for goods received on its own account and on account of each of its Clients. (Breaking of consignment to sell to other countries - currently not allowed)
 - This would help in no separate bond (port to FTWZ)**
- **Proposed Proviso Rule 23 (It is proposed to insert)**
 - Provided that supplies from the Domestic Tariff Area to a Unit in a Free Trade Warehousing Zone on its own account or on account of its client shall be eligible for export benefits as admissible under the Foreign Trade Policy. (consignment from different sources - imported and domestic currently can not club the transaction currently)
 - **This would help in export benefit credit to unit(international trader)**

☐ **Recommended Action:**

☐ **Rule 29** Trans-shipment Procedure **(It is proposed to insert) – 29 (9).**

☐ *Direct delivery to a Unit in a Free Trade and Warehousing Zone receiving the Goods, on its own account or on account of its clients shall be permitted from ports or airports or land customs stations or inland container depots or container freight station or other Special Economic Zones including all imports by courier or by post under the transshipment procedure as prescribed under the Goods Imported (Conditions of Transshipment), Regulations, 1995 as amended.*

- I. Provided that the bond-cum - IUT executed under rule 22 by the unit will also be used for the purpose of transshipment of goods imported by Unit or its client.
- II. Provided that where the Goods are to be used by a Unit in a Free Trade and Warehousing Zone for its own use a Bill of Entry for Home Consumption shall be filed by the Unit with the Authorized Officer

- ☐ **This would help in procedure to bring the goods**
- ☐ **Current delivery is not allowed (letter undertaking is been given to custom)**

☐ **Recommended Action:**

☐ **Addition of 'ship and debit' agreements: Currently the duty is calculated on a value at import only and not on the sale value**

- ☐ **Ship and debit** is the term for an agreement where specific products are distributed (shipped) to customers at a lower price than usual. The difference claimed (debited) from the supplier to protect distributor margins.
- ☐ **Ship and debit agreement** enables suppliers to sell their goods at a uniform price
- ☐ Distributors can react to local market conditions and lower the price without the risk of losing their profit margin.
- ☐ Once the sale is made, distributors can debit the supplier who usually credits the amount back as a rebate.

☐ **Recommended Action :**

☐ Rule 48 Procedure for Sale in Domestic Tariff Area — **(It is proposed to insert)**

- *Provided where goods procured from Domestic Tariff Area by a Unit in a Free Trade and Warehousing Zone on its own account or on account of its client, are returned back to the Domestic Tariff Area supplier who originally supplied the goods, the said goods will be treated as back to town after recovery/ repayment of all export benefits availed by the Unit or Client.*
- **This would help in ease of doing business in FTWZ (DTA unit and international traders)**
- **DTA is getting export benefit, but if any shipment has to be send back , returning of the good is not allowed currently , and the**

*DTA unit Supplier - No IGS/export back to DTA

Subsidy under SPECS Scheme for Components

Background:

- ☐ SPECS (Scheme for Promotion of Manufacturing of Electronic Components and Semiconductors (SPECS)) to strengthen value chain for the manufacturing of electronic products has been very successful and has attracted several investments.
- ☐ The tenure of SPECS is concluding in March 2023.
- ☐ Proposed investment threshold of Rs. 75 Crores for "Mechanics" (including not only TELECOM EQUIPMENT but other high-volume areas such as Mobiles, consumer products, IT products etc.) is too high for component industry.

Recommendations:

☐ **Extension and Expansion of SPECS Scheme**

- a. The current SPECS Scheme should be extended for receiving applications by **minimum One Year up to March 2024 and further provision for extension up to March 2025**
- b. To achieve the target of US\$ 24 bn for components, investment of US\$ 8Bn is required. To incentivize this investment, we need **additional allocation of US\$ 2 Bn (25% of \$8Bn) or about INR 16,000 Crores under SPECS Scheme.** This amount may be budgeted over a period of next 4 years.

Specific recommendations for ATMP Units under SPECS

Recommended Action:

- ☐ **Category D under SPECS- Mechanics**
 - a. The proposed investment threshold of Rs. 75 Crores for “Mechanics” is too high and will preclude domestic investments and perpetuate import dependence
 - b. Category D, which covers Mechanics (Plastics & Metal Parts) for Electronic Applications can be changed to Rs 10 Crores which is realistic
- ☐ **Eligibility of specific, single use and critical inputs /raw materials for manufacture**
 - a. Critical raw material by way of its quality and technology requirements which is specific to manufacturing a component (or component type) to be included in the list of eligible items covered under SPECS.
 - b. The threshold for the raw material may be kept same as that for the component.
 - c. Some good examples of such raw materials which can be added are:
 - Capacitor Grade BOPP Film and Metalized Film for Capacitors
 - Lead wire with electroplating, chemical deposition etc.

Background:

- ☐ PLI approvals for ATMP units were given by MEITY in October 2020 with first year threshold as follows:
 - ☐ Investment threshold as Rs. 25Cr; in the first year going up to Rs. 100 Cr; in 4 years
 - ☐ Revenue threshold at Rs. 100 Cr; going up to Rs. 600 Cr; in 5th years

Recommended Action:

- ☐ These should be modified considering gestation period to set up ATMP plant as 24 to 30 months.
- ☐ Need to be allowed longer gestation period of minimum 24 months for commencing production and the threshold for revenue for 1st year
- ☐ Output – Revenue threshold - INR 100 Cr; threshold in the first year be reduced to INR 25 Cr; going up to INR 50 Cr; INR 100 Cr; INR 200 Cr and INR 300 Cr in 2nd, 3rd, 4th and 5th yr respectively.

Incentivization of use of domestic components in Telecom Equipment

Background:

- ☐ Global companies do not include local components in their BoM even if these are available locally and they continue to list the foreign components only.
- ☐ This eliminates the opportunity for local component manufacturers to become suppliers.

Recommended Action:

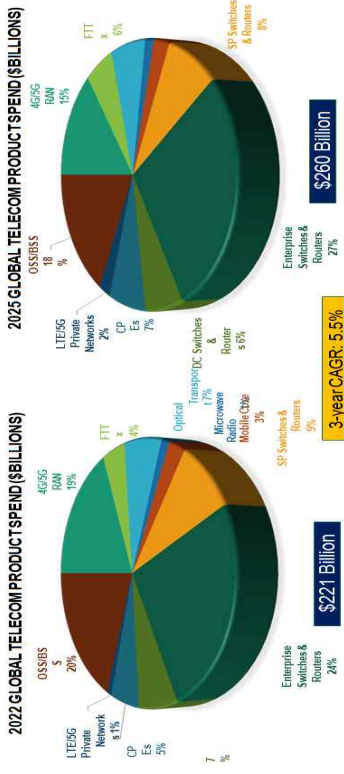
- ☐ Preference to those equipment manufacturers who are using **at least 15-20% of local components** (locally manufactured and not those which are sourced from distribution companies) under Make in India. A separate class of supplier under MII.
- ☐ DCLJ (Domestic components led incentive) scheme to provide additional incentive to PLI holders similar to DLI scheme.

Recommended Action:

- ☐ **Differences in SPECS scheme vs ISM**
 - ☐ SPECS scheme allowed 25% subsidy on equipment & Utilities, While ISM scheme allows 50% subsidy on equipment, utilities & building.
 - ☐ Similar subsidy be extended to ATMP applicants who applied in the SPECS scheme.
 - ☐ Else, they will be at a disadvantage compared to new entrants and higher incentives being offered in other countries.

New Opportunities in Telecom Equipment

Global Telecom Product Demand & Forecast



Majority of India's domestic requirements being met using imported equipment

Global ICT Market Forecast 2026

| Type of Market | GLOBAL ICT MARKET forecasts FOR 2026 | | | Indian Forecast | |
|------------------------------------------------|--------------------------------------|------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------|--|
| | Compo und Annual Growth Rate % CAGR | Forecast Value in US \$ Billion for 2026 | Indian Forecast Pessimistic side 5% of Global and in Rs. Crores | Indian Forecast Pessimistic side 10% of Global in Rs. Crores | |
| 5G Industrial IOT Market | 79.1 | 15.7 | 6492 | 12984 | |
| 5G IOT Market | 73.0 | 40.2 | 16623 | 33245 | |
| 5G Security Market | 44.3 | 5.2 | 2161 | 4322 | |
| 5G Services Market | 25.3 | 264.2 | 109266 | 218531 | |
| A2P (Application to Person) Messaging Market | 3.2 | 75.1 | 31066 | 62132 | |
| Agriculture Analytics Market | 12.2 | 1.6 | 650 | 1299 | |
| Artificial Intelligence (AI) Governance Market | 65.5 | 1.0 | 420 | 840 | |
| Artificial Intelligence (AI) Market | 39.7 | 309.6 | 128020 | 256039 | |
| Automotive Ethernet Market | 20.9 | 5.6 | 2316 | 4631 | |
| Big Data Security Market | 11 | 35.3 | 14597 | 29193 | |
| Blockchain IOT Market | 45.1 | 2.4 | 996 | 1992 | |
| Blockchain Market | 67.3 | 66.4 | 27464 | 54928 | |
| Blockchain supply market | 53.2 | 3.3 | 1353 | 2706 | |
| Business Process Automation Market | 12.2 | 19.6 | 8105 | 16209 | |
| Chatbot Market | 23.5 | 10.5 | 4342 | 8684 | |
| Cloud (Bare Metal) Market | 24.1 | 16.4 | 6781 | 13563 | |
| Cloud Computing Market | 17.5 | 977.7 | 404286 | 808572 | |
| Cloud Professional Services | 17.2 | 37.0 | 15300 | 30599 | |
| Cloud Security Management Market | 14.4 | 9.0 | 3722 | 7443 | |
| Cloud TV Market | 21.9 | 4.2 | 1737 | 3473 | |

Global ICT Market Forecast 2026

| Types of Market | Indian Forecast | | | Indian Forecast | |
|----------------------------------------------|---------------------------|------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------|--|
| | Annual Growth Rate % CAGR | Forecast Value in US \$ Billion for 2026 | Indian Forecast Pessimistic side 5% of Global and in Rs. Crores | Indian Forecast Pessimistic side 10% of Global in Rs. Crores | |
| Customer Communications Market | 11.2 | 2.2 | 910 | 1819 | |
| Customer Journey Analytics Market | 20.3 | 25.1 | 10379 | 20758 | |
| Customer Success Platforms Market | 20.4 | 2.5 | 1034 | 2068 | |
| Data Center (Green) Market | 19.1 | 140.3 | 58014 | 116028 | |
| Data Center Security Market | 23.1 | 9.8 | 4052 | 8105 | |
| Data Fabric Market | 26.3 | 4.2 | 1737 | 3473 | |
| Data Visualization Tools Market | 11.6 | 10.2 | 4218 | 8435 | |
| DDI Market | 15.9 | 0.8 | 346 | 691 | |
| Digital Identity Solutions Market | 17.3 | 35.8 | 14794 | 29587 | |
| Digital Workplace Market | 21.3 | 72.2 | 29855 | 59709 | |
| Edge AI Software Market | 20.8 | 1.8 | 759 | 1518 | |
| Email Encryption Market | 23.1 | 11.8 | 4879 | 9759 | |
| Emotion Detection and Recognition Market | 11.3 | 37.1 | 15341 | 30682 | |
| Enterprise Architecture Tools Market | 4.4 | 1.3 | 531 | 1061 | |
| Enterprise Asset Management Market | 8.7 | 5.5 | 2274 | 4549 | |
| Enterprise Collaboration Market | 9.2 | 57.4 | 23717 | 47435 | |
| Enterprise Mobility management Market | 25.1 | 63.6 | 26299 | 52597 | |
| Environment, Health, and Safety (EHS) Market | 10.2 | 10.4 | 4319 | 8637 | |
| Event Management Software Market | 10.0 | 6.4 | 2646 | 5293 | |
| GNSS Simulator Market | 9.3 | 0.2 | 75 | 149 | |
| IoT Platform Market | 14.8 | 13.7 | 5665 | 11330 | |

Based on the requirement of different Telecom equipment product in various sectors, these products may be divided in two categories:

Product areas where India already has good domestic base and this needs to be encouraged and scaled-up using policies such as PMI, Export promotion etc.

- o 4G Equipment: Core and eNodeB
- o Optical Equipment: DWDM, OTN, SDH
- o Switching Equipment: L2 & L3 Switches
- o Access Products FTTX: OLT & ONT
- o Radio Equipment: WiFi & other SDR
- o Satellite based communication systems: Modems
- o Routing Equipment: IP-MPLS, SDWAN or MPLS-TP
- o Enterprise Equipment: PBX and IP Phones
- o Surveillance Equipment: Cameras & Software
- o Fiber Optical Cable

New product areas that we should encourage product development, via funding, grants etc.

- o 5G & 6G Equipment: Core and gNodeB
- o Switching Equipment: L2 & L3 Switches for DC
- o Routing Equipment: IP-MPLS or MPLS-TP beyond 4 Tb

- International accreditation:

India should have reciprocal arrangement with other nations in accepting certificates of conformance issued by other countries. This will help the Indian OEMs to save hefty costs of retesting, time and effort.

- Trusted products :

Enhance the scope to include all telecom products including those used in enterprise networks where domestic control exists and call them trusted sources. All public procurement to happen from trusted sources.

- Consortium

Consortium based development and approach can be game changer for Indian Global branding

1. Market Access

Government Support is required to ensure Market Access at domestic turf

- DOT to notify the PMI order with Class – I list of products having sufficient capacity and competition
- Guidelines in PMI order to take care of false declaration in tenders and GEM by bidders
- DOT/ TEC must come up with SOP to investigate VA complaints and action against defaulters
- To make ministries aware about MII policy, DPIIT may be asked to publish domestic and foreign procurement for each FY in consultation with each line ministry
- DPIIT may be requested to publish SOP to handle Exemptions by other line ministry without consulting Nodal Ministry
- PSU who are doing a SI job must also ensure compliance to PMI Order
- Telcos should be motivated to buy Domestic in line with National Digital Communication Policy
- Mega projects including those funded by multilateral agencies to be Included in PMI framework
- Class – I products must be made mandatory in LOC and other grand in aid projects funded by Indian Govt.

Recommendations New Telecom Equipment Opportunities

Recommendations for enabling significant opportunities of domestic product required for India requirements and exports as well are broadly categorized under following headings:

- ☐ Market Access,
- ☐ Open New Opportunities
- ☐ Testing & Standardization
- ☐ Build Champions

2. Open New Opportunities

- Identify Low hanging fruits & reserve them for domestic designs only
 - Simple communication subsystems like L2, L3 switches, IP-MPLS Routers, Wi-Fi routers, DWD/MOTN products, VoIP based communication systems, IP Phones, NMS, GIS based fibre inventory work force management tools, Billing solutions accounting solutions, Smart Meters, Smart poles, Smart city applications Smart parking, Surveillance, Camera systems, Video Conferencing, and all essentially software intensive where India has strength are low hanging fruits. These products must be reserved for only domestic designed equipment manufacturers.
- Mission critical and security sensitive projects should be implemented using only domestic Products:
- Bharatnet Phase 3 should be reserved for domestic products:
 - DOT must reserve the Bharatnet Phase 3 for domestic Class – I manufacturers for both state-led and central-led implementation
 - DOT must communicate the specs for all the equipment well in advance so that domestic OEM can align the design and availability of product as per specs
 - Confirmation to Standard Technical Specification defined in TEC GR
 - Compliance to PMI is very important
- Reserve issue of spectrum for specific CNPN for domestic designed products

3. Testing & Standardization

- Common National Telecom Standard:
 - TEC GR must be a common national standard to be followed for all Telecom products across different ministry may need specialized or secure communication. For the same TEC must involve other ministries and PSU in Sub-DCC and DCC meeting of GR.
- Handling Standard Essential Patents
 - DOT must set up a cell at DOT in consultation with Ministry of Commerce, MEA, DPIIT, Finance, Law to make guidelines, negotiate globally, take up the disputes for Indian design led domestic companies rather than leaving it to individual companies. Sovereign Patent Fund may also be created to support that
- International accreditation:
 - India should have reciprocal arrangement with other nations in accepting certificates of conformance issued by other countries. This will help the Indian OEMs to save hefty costs of retesting, time and effort
- Trusted products :
 - Enhance the scope to include all telecom products including those used in enterprise networks where domestic control exists and call them trusted sources. All public procurement to happen from trusted sources.

4. Build Champions

- Consolidate Technology
 - Select two or maximum three companies per technology, focus on them and help them become product champions (ODM) rather than extending sub optimal support to many companies.
 - Encourage other design companies to adopt those technologies and produce.
 - Product champions should be adequately and regularly funded rather than intermittently so that they build complete ecosystem of products for their given market.
- Monetize technologies developed on public money.
 - Technologies developed in Govt labs should be opened like “open source” at least for Indian design companies for adoption.
 - A mechanism can be set up to pay some for a royalty on sales that goes to inventors as a motivation for them to help successful commercialization.
 - There are technologies developed by CDOT, CDAC, Sameer, IITs and IISc that need to be monetized.

Thank You



GOVERNING COUNCIL 2023-24

| VoICE GC 2023-24 | | | |
|------------------|---------------------------|-------------------------|-------------------|
| S. No. | Name | Company | Status |
| 1 | T S Ramu | Lekha Wireless | Chairman |
| 2 | Rajesh Tuli | Coral Telecom | Co-Chairman |
| 3 | Puneet Aggarwal | VVDN | Vice Chairman |
| 4 | Kumaran Venkatesh (Venki) | Astrome | Co Vice Chairman |
| 5 | Jitendra Chaudhury | HFCL | Secretary |
| 6 | Anjan Das | STL | Co Secretary |
| 7 | Prashant Jain | Tejas | Treasurer |
| 8 | Ravi Burman | Sensorise | Media PR & Member |
| 9 | Kannan Gaddam | Big Cat Wireless | Member |
| 10 | B K Raghu | Nivetti | Member |
| 11 | Raj Kumar Upadhyaya | CDOT | Member |
| 12 | Himamshu Khasnis | Signalchip & Signaltron | Member |
| 13 | Arnob Roy | Tejas (Saankya) | Member |
| 14 | Rahil | SSTPL | Member |
| 15 | Vimal Kumar' | TCS | Member |

| VoICE Expert Group 2023-24 | | |
|----------------------------|---------------------------|-------------------------|
| S. No. | Name | Company |
| 1 | Kumaran Venkatesh (Venki) | Astrome |
| 2 | Kannan Gaddam | Big Cat Wireless |
| 3 | Raj Kumar Upadhyaya | CDOT |
| 4 | Kushal Sakthivel | Chipspirit |
| 5 | Rajesh Tuli | Coral Telecom |
| 6 | Maloy Pancholi | DM Vista Electronics |
| 7 | Jitendra Chaudhury | HFCL |
| 8 | Rishi Ghare | India Networks |
| 9 | Yogesh Behl | Infinity Labs |
| 10 | Shobana U | Innogle |
| 11 | Rajesh Rai | ITI |
| 12 | Dhruv Kansal | Kenstel |
| 13 | TS Ramu | Lekha Wireless |
| 14 | Hardik Soni | Nav Tech Wireless |
| 15 | Abhijit Chaudhury | Niral Networks |
| 16 | BK Raghu | Nivetti |
| 17 | Chandra Kumar Chettiar | Optimus Logic |
| 18 | Manish | Resonous |
| 19 | Ravi Burman | Sensorise |
| 20 | Himamshu Khasnis | Signalchip & Signaltron |
| 21 | Sanjeev Sehgal | Sparsh |
| 22 | Rahil | SSTPL |
| 23 | Anjan Das | STL |
| 24 | T Sekaran | TCIL |
| 25 | Vimal Kumar' | TCS |
| 26 | Prashant Jain | Tejas |
| 27 | Arnob Roy | Tejas (Saankya) |
| 28 | Puneet Aggarwal | VVDN |

Membership 2023-24:

There were 87 paid VoICE members as on 31.03.2024.

| VoICE Paid Member for 2023_24 | |
|-------------------------------|----------------------------------------------------------------------|
| 1. | IACUITY TELCO SOLUTIONS PRIVATE LIMITED (XALTED INFORMATION SYSTEMS) |
| 2. | A5G NETWORKS PRIVATE LIMITED |
| 3. | AMANTYA TECHNOLOGIES PRIVATE LIMITE D |
| 4. | ASTROME TECHNOLOGIES PRIVATE LIMITED |
| 5. | ASTROMEDA SPACE PRIVATE LIMITED |
| 6. | AVALON TECHNOLOGY AND SERVICES PRIVATE LIMITED |
| 7. | BIGCAT WIRELESS PRIVATE LIMITED |
| 8. | CENTRE FOR DEVELOPMENT of TELEMATICS (CDOT) |
| 9. | CHIPSPIRIT TECHNOLOGIES PRIVATE LIMITED |
| 10. | CIENTRA TECHSOLUTION PRIVATE LIMITED |
| 11. | CLOUDPHOTONIX (INDIA) PRIVATE LIMITED |
| 12. | CORAL TELECOM LIMITED |
| 13. | COSGRID SYSTEMS PRIVATE LIMITED |
| 14. | DESIGN AND MANUFACTURING VISTA ELEC |
| 15. | DI3 INFOTECH LLP |
| 16. | DYOTIS TECHNOLOGIES PRIVATE LIMITED |
| 17. | EASIOFY SOLUTIONS PRIVATE LIMITED |
| 18. | ECHELON EDGE PRIVATE LIMITED |
| 19. | EVERESTIMS TECHNOLOGIES PRIVATE LIMITED |
| 20. | FINAARA TECHNOLOGIES |
| 21. | FOLLOWG GLOBAL PRIVATE LIMITED |
| 22. | GALORE NETWORKS PRIVATE LIMITED |
| 23. | GIGAYASA WIRELESS PRIVATE LIMITED |
| 24. | HFCL LIMITED |
| 25. | I D R B T |
| 26. | INDIO NETWORKS PRIVATE LIMITED |
| 27. | INFINITY LABS LIMITED |
| 28. | INNOGLE TECHNOLOGIES PRIVATE LIMITED |
| 29. | INNOMINDS SOFTWARE PRIVATE LIMITED |
| 30. | ITI LIMITED |
| 31. | KENSTEL NETWORKS PRIVATE LIMITED |
| 32. | LAVELLE NETWORKS PRIVATE LIMITED |
| 33. | LEKHA WIRELESS SOLUTIONS PVT LTD |
| 34. | LEPTON SOFTWARE EXPORT RESEARCH PRIVATE LIMITED |
| 35. | LINKEZ TECHNOLOGIES PRIVATE LIMITED |
| 36. | LIVNSENSE TECHNOLOGIES PRIVATE LIMITED |
| 37. | LYNK AMBUPOD PRIVATE LIMITED |
| 38. | MASHMARI CONSULTANTS PRIVATE LIMITED |
| 39. | MATRE COMSEC TECHNOLOGIES PRIVATE LIMITED |
| 40. | MATRIX SHELL TECHNOLOGIES PRIVATE LIMITED |
| 41. | MCLABS PRIVATE LIMITED |

| |
|---------------------------------------------------------|
| 42. MEDAARA HEALTHCARE TECHNOLOGIES PRIVATE LIMITED |
| 43. MERITECH SOFTWARE PRIVATE LIMITED |
| 44. MENTHOSA SOLUTIONS PRIVATE LIMITED |
| 45. NABSTRACT TECHNOLOGIES PRIVATE LIMITED |
| 46. NAV WIRELESS TECHNOLOGIES PRIVATE LIMITED |
| 47. NIMBLE VISION PRIVATE LIMITED |
| 48. NIRAL NETWORKS PRIVATE LIMITED |
| 49. NIVETTI SYSTEMS PRIVATE LIMITED |
| 50. NMSWORKS SOFTWARE PRIVATE LIMITED |
| 51. NUBEWELL NETWORKS PRIVATE LIMITED |
| 52. OPTIMUSLOGIC SYSTEMS INDIA PRIVATE LIMITED |
| 53. OPTM MEDIA SOLUTIONS PRIVATE LIMITED |
| 54. PRECISION ELECTRONICS LIMITED |
| 55. PRIYARAJA ELECTRONICS LIMITED |
| 56. PROPHAZE TECHNOLOGIES PRIVATE LIMITED |
| 57. QUNU LABS PRIVATE LIMITED |
| 58. RESONOUS TECHNOLOGIES PRIVATE LIMITED |
| 59. ROSMERTA TECHNOLOGIES LIMITED |
| 60. SAANKHYA LABS PRIVATE LIMITED |
| 61. SAMRIDDHI AUTOMATIONS PRIVATE LIMITED |
| 62. SANCHAR TELESYSTEMS LIMITED |
| 63. SCYTALE ALPHA PRIVATE LIMITED |
| 64. SENSEGIZ TECHNOLOGIES PRIVATE LIMITED |
| 65. SENSORISE SMART SOLUTIONS PRIVATE LIMITED |
| 66. SHAURRYA TELESERVICES PRIVATE LIMITED |
| 67. SIGNALCHIP INNOVATIONS PRIVATE LIMITED |
| 68. SIGNALTRON SYSTEMS PRIVATE LIMITED |
| 69. SMPS ELECTRIC CONTROL PRIVATE LIMITED |
| 70. SNS SOFT TECH PRIVATE LIMITED |
| 71. SOOKTHA CONSULTING PRIVATE LIMITED |
| 72. SPARKYO TECHNOLOGY PRIVATE LIMITED (SYOOK) |
| 73. STERLITE TECHNOLOGIES LIMITED |
| 74. SUSAN FUTURE TECHNOLOGIES |
| 75. TATA CONSULTANCY SERVICES LIMITED |
| 76. TELCOLEARN SERVICES PRIVATE LIMITED |
| 77. Telecommunications Consultants India Limited (TCIL) |
| 78. TEJAS NETWORKS LIMITED |
| 79. TIDAL WAVE TECHNOLOGIES PVT LTD |
| 80. VELMENNI RESEARCH & DEVELOPMENT PRIVATE LIMITED |
| 81. VVDN TECHNOLOGIES PRIVATE LIMITED |
| 82. WISIG NETWORKS PRIVATE LIMITED |
| 83. WIRELESS 4 SCALE LABORATORY PRIVATE LIMITED |
| 84. XS INFOSOL PRIVATE LIMITED |
| 85. XTEN NETWORKS INDIA PRIVATE LIMITED |
| 86. WATERBOT ONLINE SOLUTIONS PRIVATE LIMITED |
| 87. REBACA TECHNOLOGIES PRIVATE LIMITED |



**CERTIFICATE OF REGISTRATION
UNDER SOCIETIES REGISTRATION ACT XXI OF 1860**

Registration No # 329 / 2022

I hereby certify ""**VOICE OF INDIAN COMMUNICATION TECHNOLOGY ENTERPRISES** " located at:- 1005 10/F Indraprakash Building 21 Barakhamba Road, **NEW DELHI** been registered UNDER SOCIETIES REGISTRATION ACT XXI OF 1860.

Given under my hand at Delhi on this 6th day of May 2022.

Working Area: DELHI

Fee of Rs. 50/- Paid



(Registrar New Delhi)

**REGISTRAR OF SOCIETIES
DISTRICT New Delhi
GOVT. OF NCT OF DELHI**

1. This document certifies registration under the Society Registration Act, 1860. However, any Govt. Department or any other Association/person may kindly make necessary verification (on their own) of the assets and liabilities of the society before entering into any contract/assignment with them.
2. The Society is not allowed to use translated and abbreviated/acronym version of its names.
3. The Society will use their name with prefixes, etc. as has been mentioned in this letter.
4. The Society will show its name along with the caption below that it is governed by private Body/Society where used.
5. The name may not be used for any commercial purpose or trade or business or profession, certification/affiliation/recognition to other organization etc.

CERTIFIED COPY



आयकर विभाग
INCOME TAX DEPARTMENT



भारत सरकार
GOVT. OF INDIA

Oct 17, 2022



Ref.No.:883039306111751171/TAN/NEW

TO,
VOICE OF INDIAN COMMUNICATION TECHNOLOGY ENTERPRISES
1005 10/F
INDRAPRAKASH BUILDING
21 BARAKHAMBA ROAD
NEW DELHI
NEW DELHI-110001
DELHI
TEL. NO.:-0

Sir/Madam,
Sub : Allotment of Tax Deduction Account Number (TAN)
as per the Income Tax Act, 1961.

Kindly refer to your application (Form 49B) dated Oct 07, 2022 for the allotment of Tax Deduction Account Number. In this connection, the following TAN has been issued to you/your organisation:

DELV25601C

Please quote the same in all TDS challans, TDS Certificates, TDS returns, Tax Collection at Source (TCS) returns as well as other documents pertaining to such transactions.

Quoting of TAN on all TDS returns and challans for payment of TDS is necessary to ensure credit of TDS paid by you and faster processing of TDS returns.

The above TAN should also be used as Tax Collections at Source Account Number under section 206CA.

Kindly note that it is mandatory to quote TAN while furnishing TDS returns, including e-TDS returns. e-TDS returns will not be accepted if TAN is not quoted.

This supersedes all the Tax Deduction / Collection Account Number, allotted to you earlier.

Income Tax Department

This is a computer-generated letter. Hence, signature is not required.

Caution : Income Tax Department does not send e-mails regarding refunds and does not seek any taxpayer information like user name, password, details of ATM, bank accounts, credit cards, etc. Taxpayers are advised not to part with such information on the basis of emails.





(Amended)


Government of India

Form GST REG-06

[See Rule 10(1)]

Registration Certificate

Registration Number :09AADTV7611F1ZC

| | | | | | |
|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----|----------------|
| 1. | Legal Name | VOICE OF INDIAN COMMUNICATION TECHNOLOGY ENTERPRISES | | | |
| 2. | Trade Name, if any | VOICE OF INDIAN COMMUNICATION TECHNOLOGY ENTERPRISES | | | |
| 3. | Additional trade names, if any | | | | |
| 4. | Constitution of Business | Society/ Club/ Trust/ AOP | | | |
| 5. | Address of Principal Place of Business | Building No./Flat No.: E-2 Name Of Premises/Building: VNK MERCHANDISE PVT LTD Road/Street: BLOCK E Locality/Sub Locality: Sector 63 City/Town/Village: Noida District: Gautambuddha Nagar State: Uttar Pradesh PIN Code: 201301 | | | |
| 6. | Date of Liability | | | | |
| 7. | Date of Validity | From | 24/08/2022 | To | Not Applicable |
| 8. | Type of Registration | Regular  | | | |
| 9. | Particulars of Approving | | | | |
| Signature | | | | | |
| Name | | | | | |
| Designation | | | | | |
| Jurisdictional Office | | | | | |
| Date of issue of Certificate | | 08/05/2024 | | | |
| Note: The registration certificate is required to be prominently displayed at all places of Business/Office(s) in the State. | | | | | |

This is a system generated digitally signed Registration Certificate issued based on the deemed approval of application on 08/05/2024 .

FORM NO. 10AC

(See rule 17A/11AA/2C)

Order for provisional approval

| | | |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1 | PAN | AADTV7611F |
| 2 | Name | VOICE OF INDIAN COMMUNICATION TECHNOLOGY ENTERPRISES |
| 2a | Address | |
| | Flat/Door/Building | C-128 |
| | Name of premises/Building/Village | MANSAROVAR GARDEN |
| | Road/Street/Post Office | Mansarover Garden S.O |
| | Area/Locality | Mansarover Garden |
| | Town/City/District | WEST DELHI |
| | State | Delhi |
| | Country | INDIA |
| | Pin Code/Zip Code | 110015 |
| 3 | Document Identification Number | AADTV7611FF2023101 |
| 4 | Application Number | 103960700310323 |
| 5 | Unique Registration Number | AADTV7611FF20231 |
| 6 | Section/sub-section/clause/sub-clause/proviso in which provisional approval is being granted | 12-Clause (iv) of first proviso to sub-section (5) of section 80G |
| 7 | Date of provisional approval | 07-04-2023 |
| 8 | Assessment year or years for which the trust or institution is provisionally approved | From 07-04-2023 to AY 2025-2026 |
| 9 | Order for provisional approval: | |
| | a. After considering the application of the applicant and the material available on record, the applicant is hereby granted provisional approval with effect from the assessment year mentioned at serial no 8 above subject to the conditions mentioned in row number 10. | |
| | b. The taxability, or otherwise, of the income of the applicant would be separately considered as per the provisions of the Income Tax Act, 1961. | |
| | c. This order is liable to be withdrawn by the prescribed authority if it is subsequently found that the activities of the applicant are not genuine or if they are not carried out in accordance with all or any of the conditions subject to which it is granted, if it is found that the applicant has obtained the provisional approval by fraud or misrepresentation of facts or it is found that the assessee has violated any condition prescribed in the Income Tax Act, 1961. | |
| 10 | The approval is granted subject to the following conditions:- | |
| | a. The registration granted under section 12AB or approval granted under clause (23C) of section 10 has not been cancelled by the Principal Commissioner or Commissioner for specified violations as mentioned in sub-section (4) of section 12AB or under fifteenth proviso to clause (23C) of section 10. | |
| | b. The form for approval in Form No. 10A has been duly filled in by providing all the information or document and no false or incorrect information or documents have been provided. | |
| | c. The institution or fund shall apply for approval within 6 months of commencement of the activities or at least 6 months prior to the expiry of period of provisional approval, whichever is earlier. | |
| | d. The registration granted under section 12AB or approval granted under clause (23C) of section 10 has not been cancelled by the Principal Commissioner or Commissioner as authorised by the Board for non-compliance of conditions mentioned in rule 2C or rule 17A of the Income- tax Rules, 1962. | |
| | Name and Designation of the Approving Authority | Principal Commissioner of Income Tax/ Commissioner of Income Tax (Digitally signed) |

FORM NO. 10AC

(See rule 17A/11AA/2C)

Order for provisional registration

| | | |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1 | PAN | AADTV7611F |
| 2 | Name | VOICE OF INDIAN COMMUNICATION TECHNOLOGY ENTERPRISES |
| 2a | Address | |
| | Flat/Door/Building | C-128 |
| | Name of premises/Building/Village | MANSAROVAR GARDEN |
| | Road/Street/Post Office | Mansarover Garden S.O |
| | Area/Locality | Mansarover Garden |
| | Town/City/District | WEST DELHI |
| | State | Delhi |
| | Country | INDIA |
| | Pin Code/Zip Code | 110015 |
| 3 | Document Identification Number | AADTV7611FE2022101 |
| 4 | Application Number | 103774870310323 |
| 5 | Unique Registration Number | AADTV7611FE20221 |
| 6 | Section/sub-section/clause/sub-clause/proviso in which provisional registration is being granted | 02-Sub clause (vi) of clause (ac) of sub-section (1) of section 12A |
| 7 | Date of provisional registration | 07-04-2023 |
| 8 | Assessment year or years for which the trust or institution is provisionally registered | From AY 2023-24 to AY 2025-2026 |
| 9 | Order for provisional registration: | |
| | a. After considering the application of the applicant and the material available on record, the applicant is hereby granted provisional registration with effect from the assessment year mentioned at serial no 8 above subject to the conditions mentioned in row number 10. | |
| | b. The taxability, or otherwise, of the income of the applicant would be separately considered as per the provisions of the Income Tax Act, 1961. | |
| | c. This order is liable to be withdrawn by the prescribed authority if it is subsequently found that the activities of the applicant are not genuine or if they are not carried out in accordance with all or any of the conditions subject to which it is granted, if it is found that the applicant has obtained the provisional registration by fraud or misrepresentation of facts or it is found that the assessee has violated any condition prescribed in the Income Tax Act, 1961. | |
| 10 | The registration is granted subject to the following conditions:- | |
| | a. Any income derived from property held under trust, wholly or in part for charitable or religious purposes, shall not be applied, other than for the objects of the trust or institution. | |
| | b. The trust or institution shall not have income from profits and gains of business which is not incidental to the attainment of its objectives. | |
| | c. Separate books of account shall be maintained by such trust or institution in respect of the business which is incidental to the attainment of its objectives. | |
| | d. The trust or institution shall not apply any part of its income from the property held under a trust for private religious purposes, which does not enure for the benefit of the public. | |
| | e. The trust or institution established for charitable purpose created or established after the commencement of this Act, shall not apply any part of its income for the benefit of any particular religious community or caste. | |
| | f. No non-genuine activity shall be carried out by the trust or institution. | |
| | g. No such activity shall be carried on by the trust or institution which is not in accordance with all or any of the conditions subject to which it was registered. | |
| | h. The trust or institution shall comply with the requirement of any other law, as referred to in item (B) of sub-clause (i) of clause (b) of sub-section (1) of section 12AB. | |
| | i. The form for registration in Form No 10A has been duly filled in by providing all the information or documents and no false or incorrect information or documents have been provided. | |
| | j. The trust or institution shall apply for registration within 6 months of commencement of the activities or at least 6 months prior to the expiry of period of provisional registration, whichever is earlier. | |
| | k. Where the trust or institution has adopted or undertaken modifications of the objects which do not conform to the conditions of registration, the trust or institution shall make an application in the prescribed form and manner to the Principal Commissioner or Commissioner, for registration of the trust or institution, within a period of thirty days from the date of the said adoption or modification. | |
| | Name and Designation of the Registration Granting Authority | Principal Commissioner of Income Tax/ Commissioner of Income Tax (Digitally signed) |



R S ROY & ASSOCIATES

CHARTERED ACCOUNTANTS

N-92, Kirti Nagar, New Delhi-110015

Call on : +91 9811029129, +91 9818476277

E-mail : rsroyca@gmail.com • rsroyassociates@rediffmail.com

UDIN: 24096368BKCJEZ9451

Independent Auditor's Report

To,
The Members
Voice Of Indian Communication
Technology Enterprises (VOICE)
Plot No 128 1st Floor HLK-C
Mansarowar Garden, Delhi 110015

Report on the Financial Statements

We have audited the accompanying financial statements of Voice Of Indian Communication Technology Enterprises ("the society"), which comprise the Balance Sheet as at 31 March 2024, the Statement of Income and Expenditure and the Receipt and Payment Account for the period then ended.

Management's Responsibility for the Financial Statements

The Management of society is responsible for the preparation of these financial statements that give a true and fair view of the financial position, financial performance in accordance with the accounting principles generally accepted in India. This responsibility also includes the maintenance of adequate accounting records in accordance with the provision of the Act for safeguarding of the assets of the society and for preventing and detecting the frauds and other irregularities • selection and application of appropriate accounting policies • making judgments and estimates that are reasonable and prudent • and design, implementation and maintenance of adequate internal financial controls, that were operating effectively for ensuring the accuracy and completeness of the accounting records, relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error

In preparing the financial statements, management is responsible for assessing the entity's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the entity or to cease operations, or has no realistic alternative but to do so.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We have taken into account the provisions of the Society Act, the accounting and auditing standards issued by ICAI and matters which are required to be included in the audit report under the provisions of the above Act and the Rules made thereunder. Those Standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal financial control relevant to the society preparation of the financial statements that give true and fair view



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in order to design audit procedures that are appropriate in the circumstances. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of the accounting estimates made by management as well as evaluating the overall presentation of the financial statements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion on the financial statements.

Opinion

In our opinion and to the best of our information and according to the explanations given to us, the aforesaid financial statements, give the information required by the Act in the manner so required and give a true and fair view in conformity with the accounting principles generally accepted in India•

- a) in the case of the Balance Sheet, of the state of affairs of the Society as at March 31, 2024•
- b) in the case of the Income and Expenditure Accountsof the Excess of Income Over Expenditurefor the year ended on that date• and
- c) in the case of the Receipt and Payment Accountsof the Receipt and paymentfor the year ended on that date.

we report that:

- a) We have sought and obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purposes of our audit.
- b) In our opinion proper books of account as required by law have been kept by the Society so far as it appears from our examination of those books.
- c) The Balance Sheet, the Statement of Income and Expenditure Accountand Receipt and Payment Accountdealt with by this Reportare in agreement with the books of account.

For R S Roy & Associates
Chartered Accountants
(Firm Reg. No. 015770N)

(CA. Ram Savera Roy)
F.C.A
Partner
Membership No. 096368

Place: New Delhi
Dated: 08.08.2024

VOICE OF INDIAN COMMUNICATION TECHNOLOGY ENTERPRISES

Registration No # 329 /2022

Registered Office : PLOT NO 128 1ST FLOOR BLK-C, MANSAROWAR GARDEN, DELHI 110015, <https://www.voiceofindiancomm.com>

Email :- rkbhatnagar.dg.voice@gmail.com, Phone :-+91 93508 36103

Balance Sheet as on 31.03.2024

| LIABILITIES | AMOUNTS (Rs) | | ASSETS | AMOUNTS (Rs) | |
|---------------------------------------------|--------------|---------------------|-------------------------|--------------|---------------------|
| Society Fund | | | Due From Members | | 2,98,772.40 |
| Opening Balance | 35,67,951.11 | | | | |
| Addition During the Year | 10,68,558.23 | 46,36,509.34 | Loan & Advances | | |
| | | | Advance to Supplier | 6,234.00 | |
| Sundry Creditors | | | Goods & Service Tax | 11,09,085.00 | |
| TEPC | | 1,57,986.00 | Tax Deducted at Sources | 10,76,210.00 | 21,91,529.00 |
| Advance From Members (As per Annexure I) | | 2,16,519.00 | Cash in Hand | 12,960.00 | |
| Provisions | | | Cash with Bank | 28,33,393.94 | 28,46,353.94 |
| Provision for Audit Fees (Net of TDS) | 2,70,000.00 | | | | |
| TDS Payable | 55,641.00 | 3,25,641.00 | | | |
| Total | | 53,36,655.34 | Total | | 53,36,655.34 |

See accompanying notes to the financial statements

As per our report of even date attached

For R S Roy and Associates

Chartered Accountants

FRN:-015770N

For VOICE OF INDIAN COMMUNICATION TECHNOLOGY ENTERPRISES

| | | | | |
|--------------------------|------------------|-----------|-----------|---------------|
| -Sd- | -Sd- | -Sd- | -Sd- | -Sd- |
| Ram Savera Roy | Rakesh Kumar | T.S RAMU | JITENDER | Prashant Jain |
| Partner | Bhatnagar | Chairman | CHOUDHARY | Treasurer |
| Membership No 096368 | Director General | Secretary | | |
| UDIN:-24096368BKCJEZ9451 | | | | |
| Place : Delhi | | | | |
| Date : 08-AUGUST-2024 | | | | |

VOICE OF INDIAN COMMUNICATION TECHNOLOGY ENTERPRISES

Registration No # 329 /2022

Registered Office : PLOT NO 128 1ST FLOOR BLK-C, MANSAROWAR GARDEN, DELHI 110015, <https://www.voiceofindiancomm.com>

Email :- rkbhatnagar.dg.voice@gmail.com, Phone :-+91 93508 36103

Income and Expenditure Account for the Year ending on 31.03.2024

| EXPENDITURE | AMOUNTS (Rs) | INCOME | AMOUNTS (Rs) |
|-----------------------------------|---------------------|----------------------|---------------------|
| Seminar & Conference Expenses | 42,65,933.45 | Receipt from Members | 95,05,344.92 |
| Honorarium Expenses | 30,00,000.00 | | |
| Salary Expenses | 3,76,000.00 | Bank Interest | 2,84,043.00 |
| Activity Report Printing Expenses | 3,19,450.00 | Misc Receipts | 3,146.10 |
| Audit Fees | 3,00,000.00 | | |
| Photography Expenses | 49,000.00 | | |
| Printing & Stationery | 15,540.00 | | |
| Software Expenses | 20,000.00 | | |
| Bank Charges | 99.59 | | |
| Computer Expenses | 3,450.00 | | |
| Courier Expenses | 7,867.00 | | |
| Conveyance Expenses | 1,98,545.10 | | |
| Travelling Expenses | 1,66,030.10 | | |
| Interest on TDS | 8.00 | | |
| Meeting Expenses | 906.00 | | |
| Misc Expenses | 1,146.24 | | |
| Round off | 0.31 | | |
| Excess of Income over Expenditure | 10,68,558.23 | | |
| Total | 97,92,534.02 | Total | 97,92,534.02 |

See accompanying notes to the financial statements

As per our report of even date attached

For R S Roy and Associates

Chartered Accountants

FRN:-015770N

For VOICE OF INDIAN COMMUNICATION TECHNOLOGY ENTERPRISES

| | | | | |
|--------------------------|------------------|-----------|-----------|---------------|
| -Sd- | -Sd- | -Sd- | -Sd- | -Sd- |
| Ram Savera Roy | Rakesh Kumar | T.S RAMU | JITENDER | Prashant Jain |
| Partner | Bhatnagar | Chairman | CHOUDHARY | Treasurer |
| Membership No 096368 | Director General | Secretary | | |
| UDIN:-24096368BKCJEZ9451 | | | | |
| Place : Delhi | | | | |
| Date : 08-AUGUST-2024 | | | | |

| VOICE OF INDIAN COMMUNICATION TECHNOLOGY ENTERPRISES | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------------------------------------------------|----------------|---------------|
| Registration No # 329 /2022 | | | | |
| Registered Office : PLOT NO 128 1ST FLOOR BLK-C, MANSAROWAR GARDEN, DELHI 110015, https://www.voiceofindiancomm.com | | | | |
| Email :- rkbhatnagar.dg.voice@gmail.com, Phone :-+91 93508 36103 | | | | |
| Receipt and Payment Account for the year ending on 31.03.2024 | | | | |
| RECEIPT | AMOUNTS (Rs) | PAYMENT | AMOUNTS (Rs) | |
| Opening Cash | 1,891.14 | Seminar & Conference Expenses | 42,62,179.45 | |
| Opening Bank | 29,52,491.89 | Honorarium Expenses | 29,80,000.00 | |
| Receipt from Members | 94,85,906.08 | Salary Expenses | 4,26,000.00 | |
| | | Activity Report Printing Expenses | 3,18,809.00 | |
| | | Audit Fees | 2,40,000.00 | |
| | | Photography Expenses | 49,000.00 | |
| Bank Interest | 2,84,043.00 | Printing & Stationery | 15,540.00 | |
| Misc Receipts | 3,146.10 | Software Expenses | 26,210.00 | |
| | | Bank Charges | 99.59 | |
| | | Computer Expenses | 3,450.00 | |
| | | Courier Expenses | 7,867.00 | |
| | | Conveyance Expenses | 2,04,165.10 | |
| | | Travelling Expenses | 1,66,030.10 | |
| | | Interest on TDS | 8.00 | |
| | | Meeting Expenses | 906.00 | |
| | | Misc Expenses | 1,146.24 | |
| | | Round off | 0.31 | |
| | | Goods & Service Tax | 7,76,359.48 | |
| | | Tax Deducted at Source | 4,03,354.00 | |
| | | Closing Cash | 12,960.00 | |
| | | Closing Bank | 28,33,393.94 | |
| Total | 1,27,27,478.21 | Total | 1,27,27,478.21 | |
| As per our report of even date attached | | | | |
| For R S Roy and Associates | | For VOICE OF INDIAN COMMUNICATION TECHNOLOGY ENTERPRISES | | |
| Chartered Accountants | | | | |
| FRN:-015770N | | | | |
| -Sd- | -Sd- | -Sd- | -Sd- | -Sd- |
| Ram Savera Roy | Rakesh Kumar | | JITENDER | Prashant Jain |
| Partner | Bhatnagar | T.S RAMU | CHOUDHARY | |
| Membership No 096368 | Director General | Chairman | Secretary | Treasurer |
| UDIN:-24096368BKJIEZ9451 | | | | |
| Place : Delhi | | | | |
| Date : 08-AUGUST-2024 | | | | |

| VOICE OF INDIAN COMMUNICATION TECHNOLOGY ENTERPRISES | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------|-----------|---------------|
| Registration No # 329 /2022 Registered Office : PLOT NO 128 1ST FLOOR BLK-C, MANSAROWAR GARDEN, DELHI 110015, https://www.voiceofindiancomm.com Email :- rkbhatnagar.dg.voice@gmail.com, Phone :-+91 93508 36103 | | | | |
| Notes to the financial statements for the year ending on 31.03.2024 | | | | |
| Notes to the financial statements | | | | |
| 1. Society Registration :- The "VOICE OF INDIAN COMMUNICATION TECHNOLOGY ENTERPRISES" is Non profit Society registered with Registrar of Society District New Delhi (Govt. of NCT of Delhi) vide Registration No # 329/2022 on 6th Day of May 2022 under Society Registration Act XXI of 1860. The Society is Registered with Income tax Department vide Unique Registration Number AADTV7611FE20221 Dated 07th Day of April 2023 under Section/sub-section/clause/sub-clause/proviso 02-Sub clause (vi) of clause (ac) of sub-section (1) of section 12A in which provisional registration is being granted for the period From AY 2023-24 to AY 2025-2026. The Society is also Registered with Income tax Department vide Unique Registration Number AADTV7611FF20231 Dated 07th Day of April 2023 under Section/sub-section/clause/sub-clause/proviso 12-Clause (iv) of first proviso to sub-section (5) of section 80G in which provisional registration is being granted for the period From 07-04-2023 to AY 2025-2026. | | | | |
| 2. Basis of accounting and preparation of financial statements :-The financial statements have been prepared on accrual basis under the historical cost convention. | | | | |
| 3. Revenue Recognition: -Income are recognised on issue of invoice by the society and confirmation of receipts thereof by the Members. All income and expenses are accounted for on accrual basis. Interest income is accounted for on gross basis. | | | | |
| See accompanying notes to the financial statements As per our report of even date attached For R S Roy and Associates Chartered Accountants FRN:-015770N | | | | |
| For VOICE OF INDIAN COMMUNICATION TECHNOLOGY ENTERPRISES | | | | |
| -Sd- | -Sd- | -Sd- | -Sd- | -Sd- |
| Ram Savera Roy | Rakesh Kumar | T.S RAMU | JITENDER | Prashant Jain |
| Partner | Bhatnagar | | CHOUDHARY | |
| Membership No 096368 | Director General | Chairman | Secretary | Treasurer |
| UDIN:- | | | | |
| Place : Delhi | | | | |
| Date : | | | | |

| S. No. 5G Use Cases that Multiple VOICE members can support independently or in Consortium Mode | |
|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1 | AI & AUTOMATION TOOLS |
| 2 | ARMED FORCES |
| 3 | AUTOMATED VEHICLES |
| 4 | BANKING and FINANCIAL SERVICES |
| 5 | Bharatnet End to End Solutions |
| 6 | BORDER AREA COMMUNICATION |
| 7 | BROADCAST NETWORKS |
| 8 | CAMPUS Cellular Blanket Coverage |
| 9 | CCTV Systems |
| 10 | Construction Sites |
| 11 | Controlled internet access for students |
| 12 | CROWD MANAGEMENT |
| 13 | DIGITAL TWIN |
| 14 | DISASTER MANAGEMENT |
| 15 | DRONE COMMUNICATION |
| 16 | DRONE Communication, MONITORING & INSPECTIONS |
| 17 | EDGE COMPUTING |
| 18 | EDUCATION FACILITIES & 5G LABS |
| 19 | Encryption, Secured Networks |
| 20 | ENTERTAINMENT |
| 21 | Fleet tracking |
| 22 | Healthcare |
| 23 | INDOOR & Outdoor FARM MONITORING |
| 24 | Indoor and Outdoor High-Speed Network Access EDUCATION/ TOWNSHIPS/ SOCIETIES/ FACTORIES |
| 25 | Infrastructure Monitoring with IoT sensors |
| 26 | Intelligent Villages |
| 27 | Internet connectivity to legacy machines |
| 28 | Inventory management and capacity planning |
| 29 | IoT sensors to track classroom attendance, study room availability |
| 30 | LIVE VIEWS & BROADCASTING |
| 31 | Location tracking of life-saving Missions & equipment |
| 32 | Management of Hospital machines, drugs, supplies, and medical waste |
| 33 | MINING |
| 34 | NANO SATELLITES 5G IOT |
| 35 | NETWORK IN A 5G BOX |
| 36 | OCEAN & Water Ways communication |
| 37 | OIL AND GAS sector |
| 38 | POLICE COMMUNICATION NETWORKS |
| 39 | POWER Sector |
| 40 | Proactive & Preventive maintenance through IoT sensors |
| 41 | POWER Sector |
| 42 | Proactive & Preventive maintenance through IoT sensors |
| 43 | PUBLIC TRANSPORT |
| 44 | Quantum Communication |

| | |
|----|---------------------------------------------------------------------|
| 45 | RAILWAYS 4G |
| 46 | RAILWAYS 5G |
| 47 | Real-time weather, traffic, and safety updates to vehicles in route |
| 48 | Research 6G |
| 49 | ROBOT Remote Controlling |
| 50 | Safe retrieval of stolen vehicles |
| 51 | Secure and controlled internet access for residents |
| 52 | Secure and reliable guest access |
| 53 | Secure cross-campus service for both staff and patients |
| 54 | Securely segment staff and students networks |
| 55 | SMART AGRICULTURE |
| 56 | Smart Aquaculture |
| 57 | Smart Animal Husbandary |
| 58 | Smart Battery & Power |
| 59 | SMART EDUCATION |
| 60 | SMART ENERGY |
| 61 | SMART FACTORIES |
| 62 | SMART HOMES |
| 63 | SMART LIGHTING |
| 64 | SMART HOMES |
| 65 | SMART METRO NETWORK |
| 66 | SMART RAILWAY NETWORK |
| 67 | SMART REFINERY |
| 68 | SMART STEEL PLANTS |
| 69 | SMART TOURISM |
| 70 | SMART TRAFFIC MANAGEMENT |
| 71 | SMART TRANSPORTATION |
| 72 | Standardisation, Test Facilities |
| 73 | Time-stamping : Shipped Received Products |
| 74 | VEHICLE MOUNTED 5G COMMUNICATION NETWORK |
| 75 | Vehicle-to-vehicle communication |
| 76 | Video surveillance and traffic cameras |
| 77 | WiFi Cloud based |

List of VoICE players in each of above 77 5G use cases can be obtained if follwing link is used.

https://docs.google.com/presentation/d/1hjH2FpMGiYoV-n_zgl_fflAcPEtSQ6VH5PYf6aOIZ6Y/edit?pli=1#slide=id.p1

Last Page of Annual Report will get updated dynamically if one uses following Link on 4G 5G End to End Consortium based solution Provider

https://docs.google.com/presentation/d/1hjH2FpMGiYoV-n_zgl_fflAcPEtSQ6VH5PYf6aOIZ6Y/edit?pli=1#slide=id.p1

VOICE MEMBERS IN 4G 5G SOLUTIONS

[illegible]

Core

