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C-DAC (T) TECHNOLGY TRANSFER LIST (EOI)

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The **Centre for Development of Advanced Computing (C-DAC)** is a premier research and development organisation under the Ministry of Electronics and Information Technology (MeitY), Government of India, engaged in advanced research, design and development in the areas of Information Technology, Electronics and allied domains. C-DAC works towards strengthening national technological capabilities by responding to global technological advancements and evolving market requirements in identified foundational and strategic areas. Functioning in close coordination with MeitY, C-DAC plays a critical role in translating national policies and strategic initiatives into practical, scalable and deployable technological solutions. As a high-end R&D institution, C-DAC has consistently built capabilities in emerging and enabling technologies and has designed, developed and deployed indigenous products and solutions across diverse sectors, including electronics, healthcare, cybersecurity, communications, transportation and agriculture. In alignment with national initiatives such as **Atmanirbhar Bharat**, **Make in India**, and the vision of **Viksit Bharat @2047**, C-DAC focuses on the transfer of mature and field-proven technologies to industry, MSMEs and startups, thereby enabling domestic manufacturing, technology scale-up and the widespread deployment of indigenous solutions that address critical national and societal needs.

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1. VEGA Processor, System and Peripheral Ips [VLSI]

VEGA Processor, System and Peripheral IPs are indigenously developed intellectual property blocks designed by C-DAC to support the design and development of System-on-Chips (SoCs) for strategic, industrial, and commercial applications. The portfolio includes RISC-V based processor cores, system IPs, and a wide range of peripheral IPs that are silicon-proven and ready for integration.

Why VEGA IPs are needed

India currently depends heavily on imported processor technologies and SoC building blocks, which increases cost, limits control and affects long-term self-reliance. VEGA IPs address this challenge by providing a fully indigenous processor and IP ecosystem, enabling Indian companies to design and manufacture SoCs using locally developed technologies.

How it works

The VEGA IP portfolio includes 32-bit and 64-bit RISC-V processor cores in single-core, dual-core, and quad-core configurations, along with system IPs such as interrupt controllers and DMA controllers, and a comprehensive set of peripheral IPs including USB, Ethernet, UART, SPI, I2C, GPIO, timers, and memory controllers.

Key benefits

- Enables fully indigenous SoC and product development
- Reduces SoC design time and development cost
- Silicon-proven and extensively verified IP blocks
- Based on open RISC-V architecture
- Supports strategic, industrial, and commercial applications

Target users

VEGA IPs are intended for:

- Semiconductor and VLSI design companies
- MSMEs and startups developing SoC-based products
- System integrators and electronics product companies
- R&D organisations and academic institutions

Technology Readiness Level, Licensing and Deliverables

TRL: 9 – Silicon-proven IPs ready for product development

Licensing Model: Non-exclusive IP Licensing

Deliverables: IP specifications, RTL source code, Test benches, User guides and integration guidelines, technical support during integration and licensing

Industry opportunity

The VEGA IP portfolio offers strong opportunities for companies involved in:

- SoC and ASIC design
- Semiconductor product development
- Embedded systems and electronics manufacturing
- Indigenous processor-based product innovation

2. eGlancer – Digital Forensic Kiosk [Cyber]

eGlancer is a stand-alone digital forensic kiosk designed to help law-enforcement agencies quickly examine digital devices for suspicious content. It allows officers to perform an immediate, preliminary check of devices such as mobile phones, SIM cards, pen drives, memory cards, and hard disks—right at the point of inspection.

Why eGlancer is needed

In many investigations, digital devices are seized and sent to forensic laboratories even when no relevant evidence is present. This leads to unnecessary seizure of personal devices, delays in investigations, and a heavy backlog at forensic labs. eGlancer addresses this problem by enabling **on-the-spot digital preview**, helping officers decide whether a device genuinely requires detailed forensic analysis.

How it works

eGlancer is built as a self-contained kiosk with an easy-to-use interface. Officers can connect a digital device to the system and quickly preview its contents in a controlled and secure manner. The system supports rapid acquisition of digital data where required, while maintaining proper handling procedures. The kiosk can be installed at **airports, seaports, railway stations, police stations, and border checkpoints**, making it ideal for use at transit and inspection points.

Key benefits

- Reduces unnecessary seizure of digital devices
- Saves time for investigators and citizens
- Helps decongest forensic laboratories
- Enables faster and better-informed decisions
- Simple to operate, even for non-technical users

Target users

eGlancer is intended for:

- Police and law enforcement agencies
- Cybercrime units
- Security agencies at airports, ports, and railway stations
- Investigation and intelligence units

Technology Readiness Level, Licensing and Deliverables

TRL: 9 - System proven and ready for operational deployment

Licensing Model: **Non-exclusive Transfer of Technology (ToT)**

Deliverables: System design, software, documentation, training, and support to enable manufacturing, deployment, and commercialization by industry partners.

Industry opportunity

eGlancer offers a strong opportunity for companies involved in:

- Forensic and security equipment manufacturing
- Law-enforcement technology solutions
- System integration for public safety agencies

3. 7kW & 22kW AC EV Fast Chargers [Electrical]

7kW & 22kW AC EV Fast Chargers are indigenously developed electric vehicle charging systems designed to support safe and reliable charging of electric vehicles in residential, commercial, and public locations. The chargers enable efficient AC charging for a wide range of electric vehicles and are compliant with applicable standards.

Why these chargers are needed

The rapid adoption of electric vehicles has created a strong demand for reliable, affordable, and locally manufactured charging infrastructure. Dependence on imported chargers increases cost and limits scalability. These chargers address this gap by enabling indigenous manufacturing and large-scale deployment of EV charging solutions.

How it works

The solution includes single-phase 7kW and three-phase 22kW AC chargers that can operate as standalone units or as part of a networked charging system. The chargers support controlled power delivery, user interaction, energy monitoring, and remote management through a central management system and mobile application. They can be deployed in homes, offices, parking facilities, and public charging stations.

Key benefits

- Supports residential, workplace, and public EV charging
- Designed for safe and standards-compliant operation
- Enables standalone and networked charger deployment
- Supports remote monitoring and management
- Reduces dependence on imported charging equipment

Target users

The chargers are intended for:

- EV charging infrastructure operators
- Commercial and residential facility owners
- Public charging service providers
- Urban local bodies and transport authorities

Technology Readiness Level, Licensing and Deliverables

TRL: 8 – System completed and qualified for industrial production

Licensing Model: Non-exclusive Transfer of Technology (ToT)

Deliverables: Hardware and software design, system documentation, testing procedures, training, and deployment support.

Industry opportunity

This technology offers opportunities for companies involved in:

- EV charger manufacturing
- Power electronics and energy solutions
- Electric mobility startups and MSMEs

4. SMARTFARM – Agriculture Automation System [Agriculture]

SMARTFARM is an indigenously developed agriculture automation system that helps farmers monitor and manage irrigation and farm conditions based on real-time environmental and soil data.

Why SMARTFARM is needed

Traditional farming practices often lead to inefficient use of water, fertilizers, and energy. Lack of real-time information makes it difficult for farmers to optimise crop yield. SMARTFARM addresses this by enabling data-driven farm management and remote monitoring.

How it works

SMARTFARM uses sensors to monitor parameters such as soil moisture, temperature, humidity, and other environmental conditions. The system processes this data and helps control irrigation and farm operations. Farmers can monitor conditions and receive alerts through a display unit or mobile application, even from remote locations.

Key benefits

- Optimises water and fertilizer usage
- Improves crop yield and resource efficiency
- Enables remote monitoring and control
- Designed for Indian farming conditions
- Supports data-driven decision-making

Target users

SMARTFARM is intended for:

- Farmers and farmer groups
- Agri-tech companies
- Agriculture departments and institutions

Technology Readiness Level, Licensing and Deliverables

TRL: 8 – Fully developed and field deployable

Licensing Model: Non-exclusive Transfer of Technology (ToT)

Deliverables: Hardware and software design, mobile application, documentation, training, and deployment support.

Industry opportunity

SMARTFARM offers opportunities for companies involved in:

- Agri-tech solution development
- Smart irrigation and sensor systems
- Rural technology deployment

5. CerviSCAN – Cervical Cancer Screening System [Medical]

CerviSCAN is an automated system designed to support early screening of cervical cancer by standardising and automating laboratory processes involved in cytology-based screening.

Why CerviSCAN is needed

Cervical cancer is preventable if detected early, yet screening coverage remains limited due to manual, time-consuming, and resource-intensive processes. CerviSCAN addresses this gap by improving efficiency, consistency, and accessibility of screening services.

How it works

CerviSCAN automates key laboratory steps such as slide preparation, staining, and digitisation. The system uses precision-controlled devices and digital imaging to support faster and more consistent screening workflows, including support for remote review where required.

Key benefits

- Enables early detection of cervical cancer
- Reduces manual workload in laboratories
- Improves consistency and throughput
- Supports large-scale screening programmes
- Suitable for public health deployments

Target users

CerviSCAN is intended for:

- Hospitals and diagnostic laboratories
- Cancer screening centres
- Public health programmes

Technology Readiness Level, Licensing and Deliverables

TRL: 8 – Validated through hospital deployments

Licensing Model: Non-exclusive Transfer of Technology (ToT)

Deliverables: Complete system design, fabrication details, manuals, training, and integration support.

Industry opportunity

CerviSCAN offers opportunities for companies involved in:

- Medical and diagnostic equipment manufacturing
- Healthcare technology startups
- Public health solution providers

6. MSBC-DAQ – Breast Cancer Screening Device [Medical]

MSBC-DAQ is a portable data acquisition device designed to support early screening of breast cancer using non-invasive temperature-based measurements.

Why MSBC-DAQ is needed

Early detection of breast cancer can significantly improve treatment outcomes, but access to screening facilities is limited, especially in remote areas. MSBC-DAQ enables low-cost, easy-to-use screening that can be conducted in camps and primary healthcare settings.

How it works

The system captures temperature data from sensors placed on the body and processes the data through a user interface for analysis and reporting. The device is portable, battery-powered, and can be operated with minimal training.

Key benefits

- Enables early and non-invasive screening
- Portable and easy to use
- Suitable for mass screening and remote locations
- Low operational complexity
- Supports quick reporting

Target users

MSBC-DAQ is intended for:

- Hospitals and healthcare providers
- Screening camps and NGOs
- Primary health centres

Technology Readiness Level, Licensing and Deliverables

TRL: 8 – Clinically tested and certified

Licensing Model: Non-exclusive Transfer of Technology (ToT)

Deliverables: Hardware and software design, source code, manuals, testing procedures, and training.

Industry opportunity

MSBC-DAQ offers opportunities for companies involved in:

- Medical device manufacturing
- Healthcare startups
- Community health solution providers

7. C-DAC TETRA Communication Network (CTN) [Communication]

C-DAC TETRA Communication Network (CTN) is an indigenously developed secure wireless communication system designed for mission-critical voice and data communication. It supports reliable and secure communication for organisations operating in demanding and safety-critical environments.

Why TETRA is needed

Conventional public communication networks may fail or become unreliable during emergencies, disasters, or security operations. Mission-critical organisations require secure, resilient, and dedicated communication systems. CTN addresses this need by providing a robust communication network that operates independently of public networks.

How it works

CTN consists of TETRA base stations, radios (handheld, vehicle-mounted, and desktop), and core network elements that work together to form a secure digital communication network. The system supports both standalone and networked operation modes and enables secure voice and data communication across wide geographic areas.

Key benefits

- Secure and reliable communication for critical operations
- Operates independently of public communication networks
- Supports voice and data services
- Scalable from small deployments to large networks
- Designed for continuous operation in demanding environments

Target users

CTN is intended for:

- Police and public safety organisations
- Defence and paramilitary forces
- Disaster management and emergency response agencies
- Transport and infrastructure authorities

Technology Readiness Level, Licensing and Deliverables

TRL: 9 – Operationally proven and deployment-ready

Licensing Model: Transfer of Technology and Licensing

Deliverables: Hardware and software designs, system documentation, training, and technical support for deployment and scaling.

Industry opportunity

CTN offers opportunities for companies involved in:

- Defence and secure communication system manufacturing
- System integration for public safety networks
- Communication infrastructure solutions

8. C-V2X Hardware Adapter for Traffic Signal Controllers [Transportation]

C-V2X Hardware Adapter is an indigenously developed device that upgrades conventional traffic signal controllers to enable vehicle-to-infrastructure communication for intelligent transport systems.

Why C-V2X Adapter is needed

Urban traffic systems lack real-time communication with vehicles, leading to congestion, accidents, and delayed emergency response. The C-V2X Adapter enables smarter, safer intersections.

How it works

The adapter connects traffic signal controllers to roadside units and enables real-time exchange of traffic signal information with connected vehicles. It supports applications such as signal phase alerts, emergency vehicle priority, and traffic optimisation.

Key benefits

- Improves road safety and traffic efficiency
- Enables smart and connected intersections
- Supports emergency vehicle prioritisation
- Works with existing traffic infrastructure
- Contributes to reduced congestion and emissions

Target users

The C-V2X Adapter is intended for:

- Urban local bodies and smart city projects
- Traffic management authorities
- Intelligent transportation system providers

Technology Readiness Level, Licensing and Deliverables

TRL: 8–9 – Validated and ready for deployment

Licensing Model: Non-exclusive Transfer of Technology (ToT)

Deliverables: Hardware design, software binaries, documentation, training, and implementation support.

Industry opportunity

The C-V2X Adapter offers opportunities for companies involved in:

- Traffic signal and ITS equipment manufacturing
- Smart city and mobility solutions
- System integration for urban infrastructure

9. Standard Procedure for Obtaining C-DAC Technologies in EoI Mode

C-DAC follows a transparent and well-defined process for transferring technologies to industry, MSMEs, startups, and other eligible organisations. All technology transfers and licensing are executed in compliance with C-DAC and Government of India (GoI) guidelines through a structured evaluation and approval process. The procedure typically involves the following steps:

Identification of Technology

Interested organisations review the list of technologies made available by C-DAC through:

- Invitation for Expressions of Interest (EoI) in
    - Newspapers / C-DAC website / Outreach material
- Technology Promotion Centre (TPC) communications

Submission of Expression of Interest (EoI)

The interested organisation submits an **Expression of Interest (EoI)** in the prescribed format, along with required supporting documents. The EoI generally includes:

- Company profile and credentials
- Relevant technical and manufacturing experience
- Intended application and deployment plan

Evaluation by C-DAC

C-DAC evaluates the submitted EoIs based on:

- Technical capability of the applicant
- Experience in manufacturing, integration, or deployment
- Compliance with eligibility criteria specified in the EoI

This evaluation ensures that the technology is transferred to capable and credible partners.

Finalisation of Licensing / ToT Terms

Based on the evaluation, C-DAC finalises:

- Mode of transfer (ToT, licensing, or reselling)
- Licensing conditions and validity period
- One-time license fee, royalties and other applicable charges

The final terms are communicated to the selected applicant(s).

Signing of Agreement

A formal Transfer of Technology / Licensing Agreement is signed between C-DAC and the selected organisation. The agreement defines:

- Scope of technology usage
- Rights and responsibilities of both parties
- Commercial, legal, and support terms

Transfer of Technology and Deliverables

After signing the agreement and completion of required payments, C-DAC transfers the agreed deliverables, which may include:

- Design documents and specifications

- Hardware and software deliverables
- Executables or binaries (as applicable)
- User manuals and integration guidelines

Training and Technical Support

C-DAC provides:

- Introductory and product-level training
- Technical support for integration and initial deployment
- Field or remote support, where applicable

Manufacturing, Deployment and Commercialisation

The technology partner:

- Manufactures, integrates, and deploys the technology
- Markets and commercialises the product as per agreement terms
- Provides customer support and maintenance

Renewal or Extension (if applicable)

For technologies with time-bound licenses, the partner may renew or extend the agreement based on:

- Continued compliance with terms
- Payment of renewal fees as applicable

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