

Compact Transhorizon Communication System (CTCS)

The Compact Transhorizon Communication System (CTCS) is a large hop terrestrial backhaul communication system developed by Defence Electronics Applications Laboratory (DEAL), Dehradun for ensuring high data rate connectivity to user station and remote locations. This system can be used in the remote locations where civil communication grid is not present. It is very useful for rapid establishment of low latency high data rate wireless communication backbone in beyond line of control. CTCS is useful for establishing transhorizon connectivity between tactical locations. CTCS system consists of 3 major subsystems, i.e. CTCS Radio Unit, CTCS Antenna



assembly and alignment & pointing mechanism with light weight tripod. It can support ranges up to 60 kms path lengths in Troposcatter mode and 100 km path length in Line of sight (LoS) mode. CTCS link prediction software with integrated GIS data is included in the system for link planning and link feasibility in offline mode.

1. Interested companies/industries are requested to apply against this EoI to following address:-

**To,
The Director
Defence Electronics Applications Laboratory (DEAL)
Raipur Road, Dehradun – 248001
Phone No: 01352787224
Fax: 01352787265
Email ID: director.deal@gov.in**

2. A copy of interest may be sent to the following address without any attachment:-

Copy to:-

**The Director
Directorate Industry Interface and Technology Management (DIITM)
Room No 447, DRDO Bhawan, DRDO HQrs, Rajaji Marg, New Delhi – 110011
Phone No: 01123013209/23015291
Fax No: 011-23793008
Email ID: diitm.hqr@gov.in**

List of Support documents to be attached with EoI

- (a) Memorandum and Articles of Association (Should be incorporated as per Indian Companies Act, as amended time to time)
- (b) Certificates of registration as a manufacturing unit, if any.
- (c) Audited Balance Sheet for the preceding three years.
- (d) Income Tax returns for the preceding three year period
- (e) Details of shareholding/ownership pattern especially foreign partners/ shareholders, foreign employees, directors, etc. The company must adhere to the prevailing Govt of India policies and regulations on Foreign Direct Investment (FDI)/DIPP norms as applicable.
- (f) Annual budget for R&D during last three years.
- (g) Numbers and details of IPR or patents, etc., held by the company.
- (h) Number of technically or professionally qualified personnel.
- (i) Record of past performance (e.g., Supply orders executed against of Ministry of Defence orders, Public Sectors and Paramilitary Forces, if any).
- (j) Availability of adequate infrastructure (List of machines and their production capacities) and technical expertise.
- (k) List of Testing and Support equipment's
- (l) ISO/ ISI certification or any other certification
- (m) Relevant clearances form the authorities/ ministries (if any)
- (n) Capacity and capability to undertake developmental work and to accept attendant financial and commercial risks.
- (o) Capacity/capability to market the product through the marketing network, sales and service network, reliability to maintain confidentiality.
- (p) PESO and DPIIT license for explosive handling if ToT is for high energy Material, explosives, propellants, and component/ system dealing with it etc.
- (q) Under taking form company seeking ToT that none of its Directors, Independent Directors, non-executive Directors, Key management personnel are involved in any corrupt practices, unfair means and illegal activities.
- (r) Details of the industrials license for defence manufacturing be provided by the industry seeking ToTs.