EXPRESSION OF INTEREST (EOI)

Inviting Industry Partner for Collaborative Production of RBSN Radomes CSIR–Central Glass & Ceramic Research Institute (CSIR-CGCRI), Kolkata

CSIR-Central Glass & Ceramic Research Institute (CSIR-CGCRI), Kolkata, a premier national laboratory under the Council of Scientific & Industrial Research, invites Expression of Interest (EOI) from competent and technically capable industrial partners for collaborative production of Reaction Bonded Silicon Nitride (RBSN) Radomes, to be supplied to RCI/DRDO and other strategic agencies.

This collaboration will utilise CGCRI-developed technology and CGCRI infrastructure, in line with forthcoming joint programmes with the Ministry of Defence.

1. **About the Technology/ Know-how**

   CGCRI has developed advanced Reaction Bonded Silicon Nitride (RBSN)–based Radome fabrication technology/ know-how suitable for aerospace and defence applications.

   CGCRI shall provide:

   - Technology know-how (remaining CGCRI's exclusive IP)
   - Infrastructure and process support
   - Training of industry personnel in Radome fabrication
   - Technical supervision during project execution

2. **Scope of Collaboration**

   The selected industrial partner will:

i. Produce RBSN Radomes using CGCRI-provided technology, know-how, and infrastructure.

ii. Supply the produced Radomes to RCI/DRDO and other identified users as per requirement.

iii. Deploy two qualified technical personnel (materials science/mechanical engineering) at CSIR-CGCRI for hands-on training and technology absorption.

iv. Provide all necessary support during collaborative project execution with the Ministry of Defence.

v. The collaborator shall possess and maintain independent facilities for radome machining and electromagnetic characterization in the Ku-band (12–18 GHz) for post-development validation.

vi. Use CGCRI technology and facilities strictly for project-specific activities with no right, claim, or ownership over the process, know-how, or data generated.

3. Financial Obligation Clause

The industry partner shall be required to:

i. Pay a mutually agreed financial consideration / technology usage fee / royalty to CSIR-CGCRI for every radome supplied by the industry partner against orders placed directly by DRDO or other agencies.
ii. The payment obligation will be executed each time the partner receives an order and supplies radomes, and will remain valid throughout the production lifecycle using CGCRI-developed technology.
iii. The exact fee structure, payment schedule, and modalities will be finalized in the Technology Transfer Agreement (TTA) or Collaboration Agreement, and shall be binding on the industry partner.

4. Future Infrastructure and Independent Production Commitment

The industry partner must formally commit to:

i. Establish dedicated infrastructure at their own facility for RBSN radome production, including shaping, sintering, machining, testing, and electromagnetic characterization.
ii. Transition from CGCRI-facilitated production to full independent production capability within a mutually agreed timeline.
iii. Continue regular supply of radomes to DRDO and other approved agencies directly from their facility while honouring all royalty/financial obligations to CGCRI.
iv. Maintain quality standards as specified by defence agencies and CGCRI.

5. Eligibility Criteria

Interested industry partners must demonstrate:

i. Proven capability in advanced ceramics, defence manufacturing, aerospace components, or precision engineering.
ii. Adequate financial standing and operational capacity to undertake production and supply commitments.
iii. Willingness to station qualified personnel at CGCRI for the duration of the project.
iv. Commitment to maintain required radome machining and EM testing infrastructure.
v. Compliance with all IP, confidentiality, and security protocols mandated by CSIR-CGCRI and Ministry of Defence.

6. Submission Requirements

The EOI must include:

i. Company Profile (ownership, registration, experience, domain expertise)
ii. Technical Capability Statement relevant to advanced ceramics/defence manufacturing
iii. 3Details of existing infrastructure and manpower
iv. Financial capability/turnover for last 3 years
v. Statement of Commitment to participate in collaborative MoD project with CGCRI
vi. Any prior work with DRDO, ISRO, DPSUs, or similar agencies (if applicable)

7. Evaluation Process

EOIs will be evaluated by a CSIR-CGCRI committee based on:

i. Technical competence
ii. Manufacturing readiness
iii. Prior experience in defence/aerospace
iv. Compliance with terms of collaboration
v. Overall suitability for technology absorption
vi. Shortlisted firms may be invited for further discussion, technical presentation, and facility verification.

8. Important Notes

i. The technical know-how shall remain the exclusive intellectual property of CSIR-CGCRI during and after the project.
ii. Use of CGCRI facilities, information, and results shall require explicit written approval and shall be restricted to project-specific purposes only.
iii. Presence of industry personnel at CGCRI does not confer any claim or rights over the developed technology.

Submission Details

Interested companies may submit their EOI in sealed form or via email to:

Director, CSIR-Central Glass & Ceramic Research Institute
196, Raja S. C. Mullick Road, Kolkata – 700032
Email: pmd.cgcri@csir.res.in
Website: www.cgcri.res.in

Disclaimer CSIR-CGCRI reserves the right to accept or reject any or all EOIs without assigning any reason and is not liable for any costs incurred by applicants during submission or evaluation.