

Expression of Interest
On
India-Spain Joint Call For R&D&I Projects 2024
Under
INDIA – SPAIN PROGRAMME OF COOPERATION ON INDUSTRIAL RESEARCH AND DEVELOPMENT

1. Company Name: Nitha Aerospace Private Limited

2. Company Profile:

We are a Dynamic metallurgical start-up focused on manufacturing indigenous- fasteners, including ferrous, non-ferrous, and super alloy types, for the aerospace, energy, oil & gas and shipbuilding. Our commitment to quality is reflected in our rigorous R&D and testing processes, which ensure that our products meet the highest industry standards. We are dedicated to providing reliable, tailored solutions to meet the precise needs of our clients.

3. Country (India/Spain): INDIA

4. Sector and subsectors: Aerospace, Defence, Oil and gas - Fasteners

5. Year Established: May 2024

6. Contact Information:

Plot no. 140 SIDCO Women Industrial Estate, Government College of Engineering Backside, Karuppur, Salem - 636011

7. First Name : Mahendiran

8. Last Name: Periyasamy

9. Email Id rnd@nithaaerospace.com

10. Phone Number: 7092777038

11. Website: www.nithaaerospace.in

12. Proposed Area of Application:

Indigenization of raw materials for aerospace, defence and critical applications (Import substitute – Make in India)

13. Proposed Project Summary:

Materials such as alloy steel, copper alloys, aluminium alloys, titanium alloys, cupronickel, tungsten, composites, and ceramics are vital for aerospace and defence production. Despite the effort towards gaining self-sufficiency, our country still imports a significant amount of these raw material required for manufacturing. As a fastener manufacturing metallurgical start-up company for aerospace, defence, ship building, oil and gas industry, we face difficulty in getting certain grades of these alloys.

Hence, we have initiated activities on the indigenization (Make in India) of those raw materials, produce fasteners from our indigenized raw materials and provide end to end solutions (E2E) to the customer. In addition to the traditional manufacturing route (Melting, Casting, Forging, Thread rolling / thread machining, heat treatment, etc.), we want to go for advanced technologies such as "Rapid Prototyping / actual component production using 3D printing or Additive Manufacturing". In this regard, we are in discussion with Materials Science and Engineering department, IIT Delhi for a collaborative research activity, especially in the additive manufacturing of Titanium alloys and they have expressed interest for a joint collaborative work. Further, as we are start-up company, we are looking for the support from organization (within country or abroad) those who are actively involved in research activities in the areas of alloy development and advanced Manufacturing technologies. Also, seeking government organizations who support and provide grant in aid to Scientific Research in the country.

14. Main characteristics and specific technological expertise of potential partner you are looking for:
Advanced Materials processing and 3D printing / Additive Manufacturing

15. Are you interested to pitch your company & project at our upcoming India – Spain meets?
YES

Match Making Event 1: Online Mode

Match Making Event 2: Online Mode