INTERNATIONAL PROJECT	Project under Management	
Summary Form: DST-TDB & CDTI Call 2024	**Agreement Reached**	
Input date: 04/04/2025	**Country of origin:** India **Country of Interest:** Spain	

✓ Information of the company requesting the partner search service

Name of the company	SSRAS Safety and Risk Services Private Limited
Contact Person (full name, position)	Dr. Deepti Ranjan Majhi, Director and CEO
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Last exercise Revenues M$		Number of employees	05	Year of Constitution	2024	Social Capital M$	

SSRAS Safety and Risk Services Private Limited is a research and development firm dedicated to solving complex challenges in reliability and safety analysis within structural engineering. The company specializes in **structural health assessment, safety audits, residual life estimation, design life expansion, structural retrofitting, corrosion maintenance, and seismic risk analysis**. By integrating cutting-edge methodologies and advanced analytical tools, SSRAS aims to enhance the resilience and longevity of infrastructure, ensuring safer and more sustainable built environments. The firm operates across multiple sectors and subsectors, including **engineering consultancies and firms, construction and infrastructure development firms, government agencies and regulatory bodies, the marine industry, and research institutions and academia**. In line with its commitment to infrastructure safety and sustainability, SSRAS has successfully completed two collaborative projects on the physical condition assessment of buildings, leveraging its expertise and strategic partnerships to deliver comprehensive and reliable structural evaluations.

✓ Information of the Technology Collaboration Project

Project Title: **Innovative Retrofitting Strategy for Infrastructure Resilience**

This study explores innovative retrofitting methods to enhance the safety and durability of buildings exposed to extreme conditions. It examines new materials and techniques that can improve structural protection in existing buildings, making them more resistant to environmental and mechanical stresses. The research also investigates how these retrofitting solutions perform under challenging conditions, ensuring they provide reliable protection over time. By analyzing materials at a microscopic level, the study aims to understand their durability and effectiveness in preventing structural failures. Additionally, it evaluates the overall performance of these techniques in real-world scenarios, considering factors like cost, sustainability, and ease of

implementation. The findings will help develop better safety strategies, ensuring stronger, more resilient buildings capable of withstanding various hazards effectively.

We are seeking expertise in either material science or structural engineering from both academic and industrial sectors to contribute to this study. Their knowledge will help refine the selection and application of retrofitting techniques, ensuring the development of effective and sustainable strategies. The findings of this research are expected to play a critical role in enhancing the resilience of buildings, ultimately contributing to safer and more sustainable infrastructure.

Estimated budget of the project : Tentatively INR 2.5 – 3 crores (combined India and Spain)

✓ Profile of the partner wanted: activities to do by the new partner

We are seeking international collaboration with academicians, researchers, and industry partners from Spain who are interested in contributing to structural retrofitting and strengthening solutions. Expertise in material sciences could be valuable in complementing the structural research conducted by our team. We may require professionals with a background in materials engineering and sciences or structural engineering to potentially analyze and interpret the outcomes of our experimental and numerical investigations in structural retrofitting. At this stage, we are still exploring possibilities, and any contributions or partnerships involving expertise in material science or a structural engineering background could play a key role in advancing our research objectives.

Note: We are open to further discussions to refine the project scope and align our research interests.

✓ Potential Partner Information

We have not yet identified a potential partner, but we are actively continuing our search. We kindly request CDTI that you also assist in exploring options from your end.