



Trish I R&D Private Limited

(Trish-I™)

(Imagination – Exploration – Innovation)

Supported by



Project Proposal

Date – 1st May, 2022

Dear Dr. Pranali Choudhari,

Trish I R&D Private Limited (Trish-I™) is an R&D based startup with 6 patent applications (2 in Health Tech domain) that are under examination stages at Indian Patent Office (IPO). We were among 23 startups selected across India for 9th Startup Exploration program at IIT Mandi in August 2021. Further, we were selected for Phase 2 incubation support by IIT Mandi Catalyst. We are also recently selected under HCI-CPS Prayas Funding Scheme from Department of Science & Technology, Govt. of India.

We are sharing a project proposal to you with reference to a research paper published by you & your team with Title – '**Near Infrared Spectrometry for Assessment of Bone Mineral Density**', published on 8th International Conference on Advances in Computing and Communication (ICACC-2018).

This research paper presents a method of measuring Bone Mineral Density using near infrared waves through a quantification analysis. Trish-I is working on improving efficiency of Massaging devices using software applications. As a part of this project, we are working on identifying health of bone at a particular location using near infrared spectroscopy.

As you & your team have worked on identifying bone mineral density using near infrared spectroscopy, we are keen to test method adopted by you by testing the same on **models resembling human body or directly on patients**. As you have referred in the research paper about testing on calcium blocks, **we want to test the same method on different bone parts (like shoulder, lower back, etc.) of human body directly or indirectly**.

We propose following points:

- If any 1 student of your team, who had executed the same experiment joins our team as an intern for 3 months (S/He is supposed to work from IIT Mandi Campus). Further Dr. Pranali Choudhari joins us as Consultant for the same project.
- The duration of the project will be 3 months as per provided timelines to monitoring panel from HCI-CPS Prayas and Startup Himachal. As per mutual agreement, the duration can be extended.
- **Trish-I will bear the cost of this project**. Further, IIT Mandi Labs, accommodation to 1 student and Dr. Pranali Choudhari (if she wants to work from campus) at IIT Mandi will be provided by Trish-I.
- Outcomes of the experiment will be published in journals or any inventive step can be applied for a patent application. All the individuals working on the experiment including Dr. Pranali Choudhari and 1 student from her team will be co-authors or co-inventors of the outcome. Assignee of the research paper or IP generated will be Trish I R&D Private Limited.

Please have a look through this proposal and let us know if you have any questions. Further, as it's a time bound project being monitored by both Govt. of India and Govt. of Himachal Pradesh, we would like to reach any conclusion of this proposal before 10th May, 2022 so that project plan can be executed accordingly.

Looking forward to hearing from you.

Thanks & regards,

Lakshay Sharma

Founder & CEO, Trish I R&D Private Limited