

PRESTIGIOUS INDO–JAPANESE COLLABORATIVE RESEARCH GRANT

UNDER THE CIRCULATION OF TALENTED YOUTHS IN SCIENCE (LOTUS) PROGRAMME

INTERNATIONAL JOINT RESEARCH PROJECT

PROJECT TITLE

“Quantifying the Impact of Medium-Scale Traveling Ionospheric Disturbances on GNSS Real-Time Kinematic Positioning and Development of a Physics-Informed Transformer Model for Network RTK Virtual Reference Station Corrections”

Approved Funding: ₹3.29 Million (approx. ₹19–20 Lakh)



Prof. D. Venkata Ratnam
Principal Investigator –
Indian Side

Dept. of ECE, KLEF Deemed to
be University, Guntur, India



Prof. Yuichi Otsuka
Principal Investigator –
Japan Side

ISEE, Nagoya University, Japan



**Ms. Siri Chandana
Vutukuru**
Fellowship Awardee

M.Tech Embedded Systems
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be University, Guntur, India

Ms. Siri Chandana Vutukuru will undertake a **fully funded research visit of up to one year** to the Institute for Space–Earth Environmental Research (ISEE), Nagoya University, Japan, supported by the JST LOTUS Programme. Her work will focus on **AI-driven modelling for GNSS and satellite navigation systems**, including high-precision positioning techniques.

WITH SINCERE THANKS TO

KL Deemed to be University • Nagoya University • LOTUS Programme • JST