

ILRS SLR MISSION SUPPORT REQUEST FORM

GENERAL INFORMATION

Satellite Name: Indian Regional Navigation Satellite System

Satellite Host Organization: Indian Space Research Organization

Primary Technical Contact: G.Jagannath Das, Project Director, GSN-SNP,ISTRAC

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MISSION SPECIFICS:

Scientific or Engineering Objectives of Mission: To provide Position and Timing information to users

Satellite Laser Ranging (SLR) Role of Mission: To obtain the orbit of IRNSS satellites and to use it for calibration of the orbit determined from other sources

Anticipated Launch Date: Second Quarter of 2012

Expected Mission Duration: 10 years

ANTICIPATED ORBITAL PARAMETERS:

Altitude: 42164 Km

Inclination: 29 Degrees

Eccentricity: 0.002

TRACKING REQUIREMENTS:

Tracking Schedule: 4 hours each day for a total of 30 days

Spatial Coverage: _____

Temporal Coverage: 4 one hour ranging slots totalling 4 hours each day

Data Accuracy: 5 mm or better

OPERATIONS REQUIREMENTS:

Mission Coordinator (ILRS, Subnetwork, etc.): T.Subramanya Ganesh

Priority of SLR for POD: High

Other Sources of POD (GPS, PRARE, Doppler, etc.): ISRO Tracking Data

Primary Analysis Center: IRNSS Navigation Center, Bangalore

Normal Point Time Span (sec): 10

Subnetworks/Stations Requested to Track: Kunming, Harbeesthoek, Riyadh, Matera, Wuhan

Data Delivery Time Requirements: 1 Day

RETROREFLECTOR ARRAY INFORMATION:

Description of Array and Location: Array of 40 cubes each of 38 mm diameter

Technical Contact for Array Correction/Center of Mass: M.Nageshwara,Rao,Project Director,
IRNSS Space Segment, ISRO Satellite Center, Bangalore

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Other Comments: _____

This is a reminder that it is critical that you acknowledge the ILRS and include SLR as a "key word" in your papers and presentations that rely on SLR data and results. The SLR community relies on these citations and references to strengthen its requests for continued support from its funding organizations.

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