

# EISCAT3D\_PfP Project News

Welcome to the EISCAT3D\_PfP project quarterly newsletter.

## First tender for hardware procurement is published

The first tender for procuring the first stage receiver unit (FSRU) is published on EISCAT website<sup>1</sup>. This tender includes the development and production of the low noise amplifier (LNA), analogue to digital converter (ADC) and digital beamformer (DBF) for the construction of test sub-array in this project. The tender was opened on July 1 and closes on August 31. As a follow up to this tender, the questions and answers document was published for clarifying some issues in the published tender.

## EISCAT3D\_PfP project members visited Ramfjordmoen, Norway

The EISCAT3D\_PfP project members Dr. Sathyaveer Prasad, Mr. Lennart Löqvist, Mr. Harri Hellgren and Mr. Robert Juhlin visited and inspected the EISCAT3D\_PfP construction site in Ramfjordmoen, near Tromsø, Norway on June 15-16. During this visit a meeting was held with the EISCAT staff in Tromsø to discuss the site preparation for constructing the test sub-array and also, the availability of their staff during work package 6 of this project for integration and testing of test sub-array in June 2017.



EISCAT3D\_PfP project members in Ramfjordmoen



Meeting with EISCAT- Tromsø Staff

## Technical meeting on sub-array beamforming requirements

A technical meeting was held at EISCAT Headquarters in Kiruna on June 10. The main purpose of this meeting was to finalize the sub-array beamforming requirements. The meeting was attended by EISCAT3D\_PfP project staff, Dr. Craig Heinselman, Dr. Ingemar Häggström, Mr. Jussi Markkanen, Dr. Carl-Fredrik Enell and Dr. Anders Tjulin. The meeting discussed most of the unresolved technical issues related to the test sub-array beamforming and finally, a consensus was reached on the technical specifications of sub-array beamforming. The finalized requirements from this meeting were included in the published FSRU tender document<sup>2</sup>.



Technical meeting in Kiruna

<sup>1</sup> [https://www.eiscat.se/tenders/procurements-relating-to-the-eiscat3d\\_pfp-preparation-for-production-project](https://www.eiscat.se/tenders/procurements-relating-to-the-eiscat3d_pfp-preparation-for-production-project)

<sup>2</sup> <http://eiscat.se/tenders>

## Consoden-EISCAT project news

The Consoden-EISCAT project is progressing as per the plan and the summary of the project activities is as follows:

- Regular weekly meetings between the EISCAT3D\_PfP project members and the Consoden staff are held to update the project status.
- A final test sub-array physical workshop was organised at Consoden AB office in Uppsala, Sweden on August 16-17.



Final workshop at Consoden, Uppsala

The workshop focused on finalizing the Pulse and Steering Control Unit requirements and its interfaces. Further, this workshop discussed the commercial issues related to tendering and the standard documentation procedure for the project documents. This workshop was attended in person by EISCAT3D\_PfP project members from Kiruna, Sweden and Mr. Jussi Markkanen from EISCAT, Finland. Further, the workshop was remotely joined by Dr. Assar Westman.

## Meetings with Sub-System Suppliers

- Huber+Suhner<sup>3</sup> has supplied a time and frequency standard unit to EISCAT. This unit is evaluated and tested as per the requirements of this project. Huber+Suhner was informed about the suitability of this unit for this project.

## Other EISCAT3D\_PfP project news in brief

- An introduction meeting was held in Kiruna, on June 7, to welcome Mr. Harri Hellgren and Mr. Robert Juhlin to the PfP project. During this meeting Dr. Sathyaveer Prasad gave an introduction about the PfP project goals, milestones and deliverables.
- The enquiry for the antenna unit (AU) will be published on September 2 and the enquiry for the pulse and steering control unit (PSCU) will follow shortly thereafter. All tender related material can be found in the EISCAT webpage<sup>4</sup>.

<sup>3</sup> <http://www.hubersuhner.com/en/>

<sup>4</sup> <http://eiscat.se/tenders>