

REPORT**Report on participation of the ICMR International Fellow (ICMR-IF) in Training/Research abroad.**

1. Name and designation of ICMR- IF : Prof. Ajish K. Abraham
2. Address : Department of Electronics,
All India Institute of Speech and Hearing,
Mysore- 570006
3. Frontline area of research in which training/research was carried out : Open Speech Platform (OSP)
4. Name & address of Professor and host institute : Dr. Harinath Garudadri,
Associate Research Scientist,
Qualcomm Institute of Calit2,
University of California, San Diego,
USA
5. Duration of fellowship with exact date : 3 Months from 18th November, 2019
to 17th February, 2020
6. Highlights of work conducted :
 - i) Technique/expertise acquired :

Expertise to use the Qualcomm Institute's Open Speech Platform to develop prescriptive formula for hearing aids.
 - ii) Research results, including any papers, prepared/submitted for publication :
 1. Formulated the following collaborative research projects:-
 - a) To develop an EEG based Objective test for assessing the efficacy of hearing aid fitment using OSP
 - b) To customize/refine the OSP based software designed for self-adjustment of amplification for Indian users with hearing impairment, utilizing the audiogram database of All India Institute of Speech and Hearing, Mysuru.
 - c) To estimate just noticeable and objectionable group delays in digital hearing aids with respect to number of compression bands across listeners of different languages.

2. Finalized the Memorandum of Understanding (MoU) between Qualcomm Institute at the University of California San Diego (host institute), and All India Institute of Speech and Hearing, Mysuru (AIISH) for research cooperation in the fields of hearing loss, hearing aids, and hearables, with the goal of discoveries and translation for improving hearing healthcare.

iii) Proposed utilization of the experience in India :

Will be able to use the Qualcomm Institute's Open Speech Platform in the five year project (funded by Ministry of Health, Govt. of India) to develop an Indian prescriptive formula for hearing aids at the Centre of Excellence at All India Institute of Speech and Hearing, Mysuru.



Signature of ICMR-IF

ICMR Sanction No. INDO/FRC/452/S-41/2019-20-IHD

dtd. 6th November 2019