X-88017/1/2016 NHP/ 1579-1634
Government of India
Ministry of Jal Shakti
Department of Water Resources, RD & GR
National Hydrology Project

2nd Floor, Rear Wing,
Mahanagar Doorsanchar Sadan
9, CGO Complex, Lodi Road,
New Delhi-110003.
Dated the 20th July, 2021

Dear Sirs,

As you are aware under National Hydrology Project (NHP), Survey of India (SoI) has developed two important tools for ascertaining positional accuracy in a precise manner with substantial reduction in time of observation and other related efforts. These tools are:-

1. Continuous Operating Reference Station (CORS) ie, active network of reference stations.
2. Geoid model

Whereas CORS system will provide the latitude and longitude of a station/point with accuracy in centimetres and height of station with respect to the ellipsoid datum, Geoid model will be used to convert the ellipsoidal heights into ortho-metric height (i.e. altitude above mean sea level.

CORS system has been established by the Survey of India in the States of Uttar Pradesh and Uttarakhand (under NHP) whereas the same has been established for Maharashtra, Karnataka and Haryana under non NHP. The system is nearing completion in Punjab, Rajasthan, and Madhya Pradesh.

Geoid model has completed by the Survey of India for Uttar Pradesh, West Bengal, Bihar, Jharkhand, Haryana and Uttarakhand (in the districts of Dehradun, Haridwar, Udham Singh Nagar, Pauri Garhwal and Tehri

Garhwal). Geoid model for Punjab, Goa, Kerala and Himachal Pradesh would be completed shortly. Considering the utility of these systems for survey works associated with Water Resources as well as other engineering applications. SoP has been prepared by the Survey of India and the same is attached herewith along with the relevant annexures.

Since CORS network is not completed throughout the country, the SoP also includes procedure for using SOI Ground Control Points (GCPs) as reference stations i.e. passive network of stations.

Annexures have been prepared assuming that the user is acquainted with the GPS data processing knowledge and having basic survey skills using DGPS. However, it is felt that most of the users may not be having clear knowledge as above physical training needs to require acquiring requisite skill. As such, you are requested to identify suitable officers who can be imparted training by SOI for utilising these tools. The training period is expected to be of at least 3 working days and training would be carried out in SOI Complex at Dehradun. Convenient dates for training may also be communicated to SOI for the proposed training program so that Survey of India can arrange such trainings on mutually convenient dates.

Yours sincerely,

Encl: As above

20/7/2021

(Rakesh Kashyap)
Senior Joint Commissioner (NHP)
Tel:- 011- 24367081

To:

Nodal Officers of All Implementing Agencies under NHP.

Copy for information:

1. PPS to JS (A, IC & GW), D/o WR, RD & GR, New Delhi
2. Project Director, Survey of India.
3. SJC I/SJC-II/ SJC-III/ DS , NHP, New Delhi
4. DC/ DD (NHP) New Delhi
5. DTL, TAMC, New Delhi