



भारत सरकार

GOVERNMENT OF INDIA

केन्द्रीय जल आयोग

CENTRAL WATER COMMISSION

सिक्किम अन्वेषण मंडल

SIKKIM INVESTIGATION DIVISION

तादोंग, गान्तोक (सिक्किम)

TADONG, GANGTOK (SIKKIM)-737102

Phone : 03592-231887 / 271059 Fax : 231887

Email : eesid-cwc@gov.in



Date: 13.07.2021

To,

M/s Axis Nano Technologies Pvt. Ltd,
Noida (Uttar Pradesh)

Sub.:- Revised **Letter of Intent** for the work of "Supply, installation, testing and commissioning and maintenance of real time data acquisition network at 9 nos. of snow gauging & meteorological stations (SG & MS)" under Sikkim Investigation Division, CWC in the State of Sikkim-Reg.

- Ref.:**
1. Bid No.: SID/Gangtok/2020-21/03 Dated: 29.05.2020 floated on CPP Portal vide Tender ID no. 2020_CWC_561875_1 Dated 30.05.2020
 2. Letter of Intent issued by this office vide letter from File No.T-105/2/2019-SID-GANGTOK dated 02.07.2021
 3. E-mail received from your firm on 12.07.2021 01:04 PM

With reference to the subject matter, it is to apprise that this letter of intent will **supersede** the earlier Letter of Intent issued for the work mentioned above to your firm vide letter at **ref -2** from File No.T-105/2/2019-SID-GANGTOK dated 02.07.2021.

Hence, your offer for the work mentioned above has been accepted by the competent Authority for and on behalf of the President of India at the cost amounting to **Rs. 2,77,94,340.00/-** (Rupees Two Crore Seventy Seven Lakh Ninety Four Thousand Three Hundred and Forty Only) which is **exclusive of 18% of the GST/Tax** amount.

You are requested to deposit Performance Guarantee of 5% of the amount of Rs. 3,27,97,321.20/- (Rupees Three Crore Twenty Seven Lakh Ninety Seven Thousand Three Hundred & Twenty One Point Two Zero Only) inclusive of GST i.e. Rs. 16,39,866.06/- say **Rs. 16,40,000/-** (Rupees Sixteen Lakh Forty Thousand only), as per the procedure given in the tender document or online to this Division through "Bharat Kosh" portal (<https://bharatkosh.gov.in/>) of Govt. of India. This may be noted that the above accepted amount of Rs. 3,27,97,321.20/- will be considered for all purposes of this tender i.e. calculation of the performance guarantee, entering into a contract agreement, etc., however payment will be made as per the actual work done by your firm. On receipt of the performance guarantee, necessary order to commence the work shall be issued. You are requested to make all necessary arrangements for taking up the work immediately after issue of work order.

Kindly acknowledge this "Letter of Intent" within 7 days for this office's record.

Yours sincerely,

Digitally Signed by
Shashank Bhushan

Date: 13.07.2021 20:18:48
(Shashank Bhushan)
Reason: Approved

1. Water Level Recorder (Bubbler type or Radar type) :-

- Bubble Type Water Level Recorder is used to measure water level of river. It works on principle in which air is pumped by means of air probe dipped in water, the data is read when bubbling starts and is converted to equivalent water head and automatically records data in attached Data Logger and transfer data to modeling center. A Solar Panel is attached to charge the batteries for Unattended Continuous logging.

Area requirement : Approx. 2m X 2m (6.5 ft X 6.5 ft)

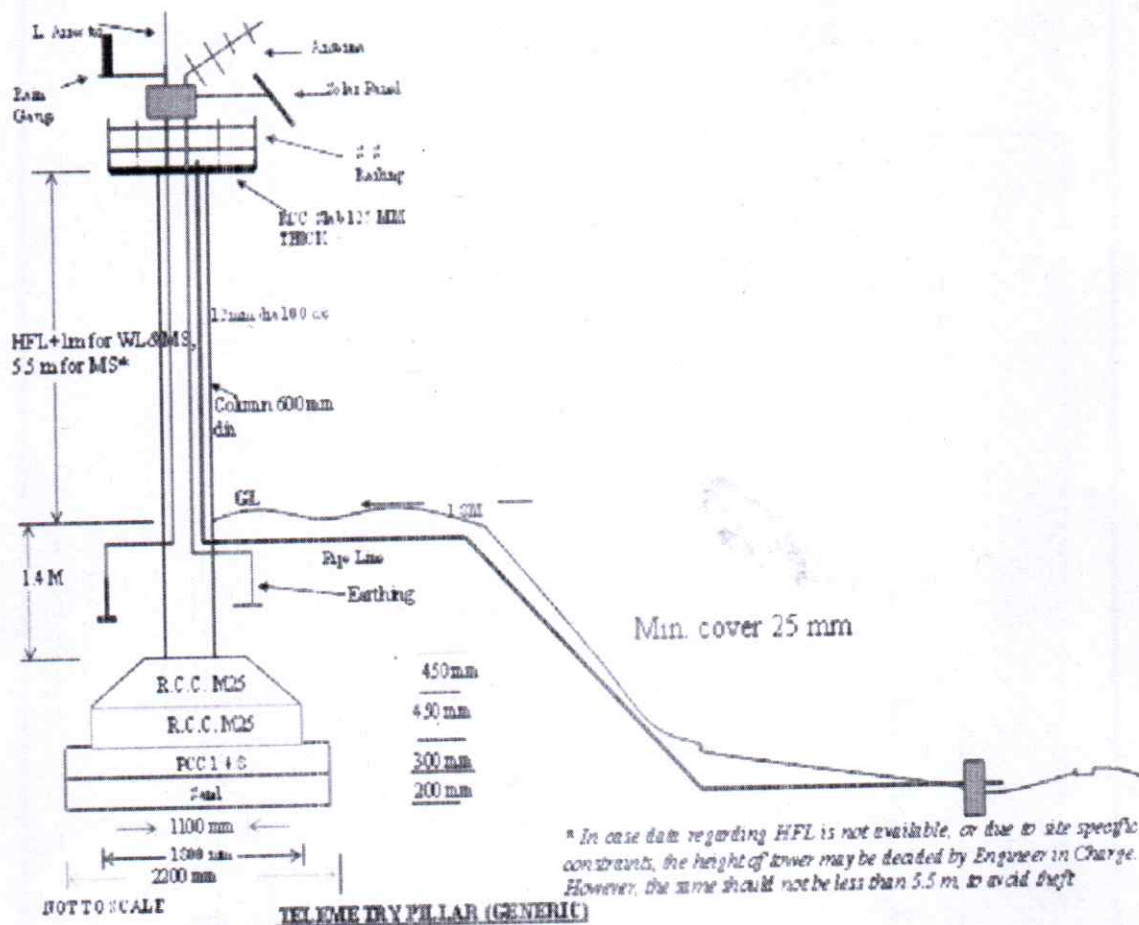


Figure 1 :- Structural details of Bubbler Type Water Level Recorder

- Radar level measurement is used to measure water level of river. It based on the principle of measuring the time required for the microwave pulse and its reflected echo to make a complete return trip between the non-contacting transducer and the senses water level. Then, the transceiver converts this signal electrically into level and presents it as an analogue and/or digital signal. It automatically records data in the attached Data Logger and transfer data to modeling center at Gangtok. A solar panel is used to charge the batteries for Unattended Continuous logging.

Area requirement : None

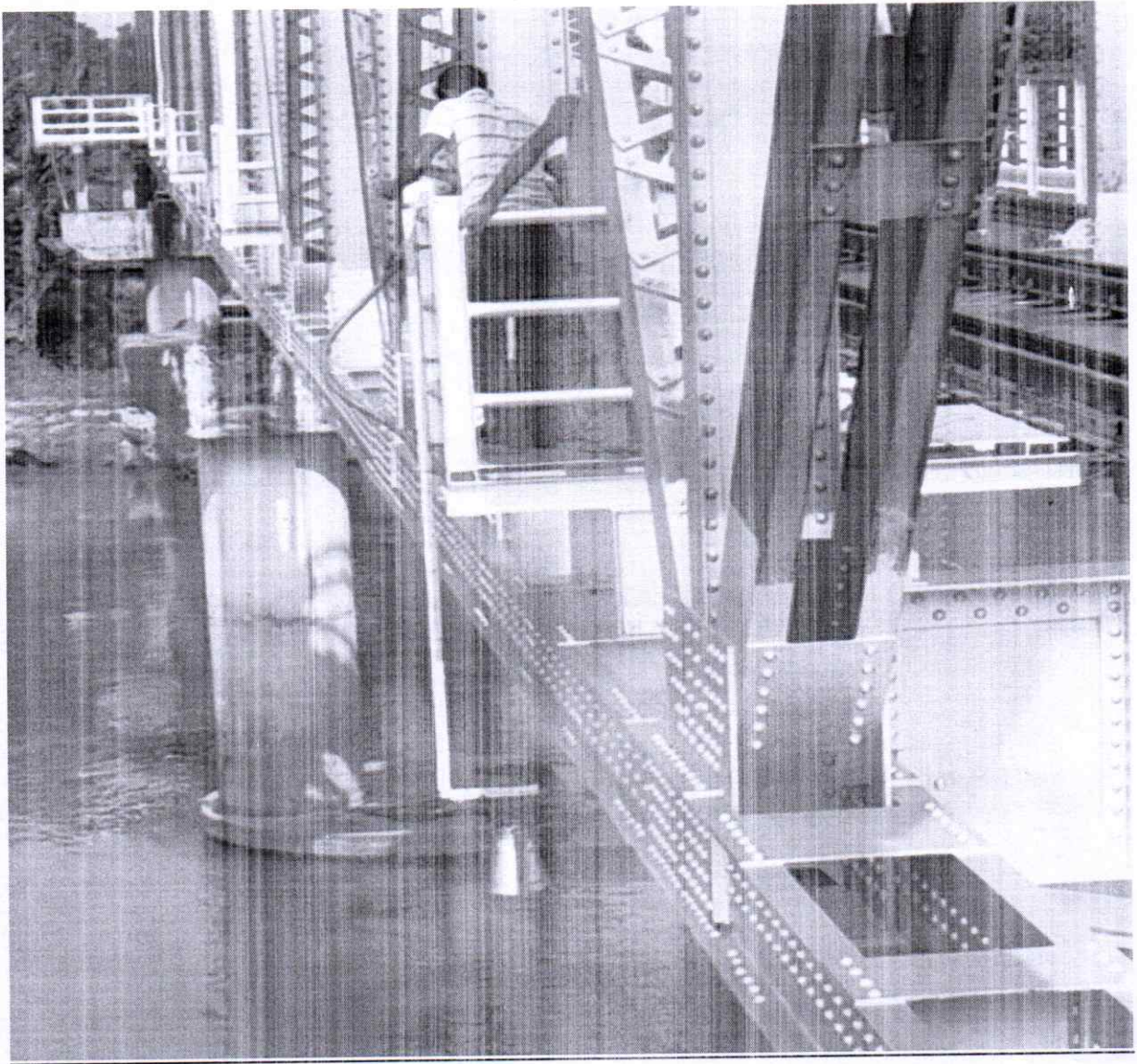


Figure 3:- Radar Type Water Level Recorder

2. Metrological Station (Rainfall) : -

Government of India has wide plan to install Metrological Station network throughout the country. It measures the rainfall in particular catchment that helps to real time monitoring in flood forecasting and also utilization of water for various purpose like irrigation, drinking, land sliding etc. It records hourly rainfall data and directly transfers to modeling center Gangtok. Each station covers 2 m X 2 m land in which a instruments setup on the top of a column of size 0.6 m dia. Since Digital rainfall recorder is contained fully automatic data recorder fitted with solar panel and SLA battery-based power system, so there is no requirement of any skilled man power as well as any external source of electricity.

Area requirement: approximately 2m X 2m (6.5 ft X 6.5 ft)



Figure 5:- Metrological (Rainfall) Station

3. Snow Gauge Station:-

A snow gauge is a type of instrument used by meteorologists and hydrologists to gather and measure the amount of solid precipitation (as opposed to liquid precipitation that is measured by a rain gauge) over a set period of time. The snow gauge consists of two parts, a copper catchment container and the funnel shaped gauge itself. The actual gauge is mounted on a pipe outdoors and is approximately 1.5 m (4 ft 11 in) high, while the container is 51.5 cm (4 ft 2.25 in) long. Remote station shall be equipped with all necessary equipment to measure Snow precipitation / rainfall, snow depth, snow density/snow water equivalent and Meteorological parameters consisting of Temperature, Humidity, Evaporation, sunshine and Wind Instruments (AWS), including tubing as well as all Peripherals including the following:

- Data Collection Unit (DCU) mounted inside an enclosure
- Mast (tripod) to mount DCU and solar panel & INSAT antenna at the site (alternatively, where walled enclosures available, the same can be mounted on the wall).
- Civil works for mast and Snow gauge
- Wire-mesh fencing and gate with lock
- Mounting stand for Snow gauge will be mounted at WMO Specification 0.8 to 1m above ground.

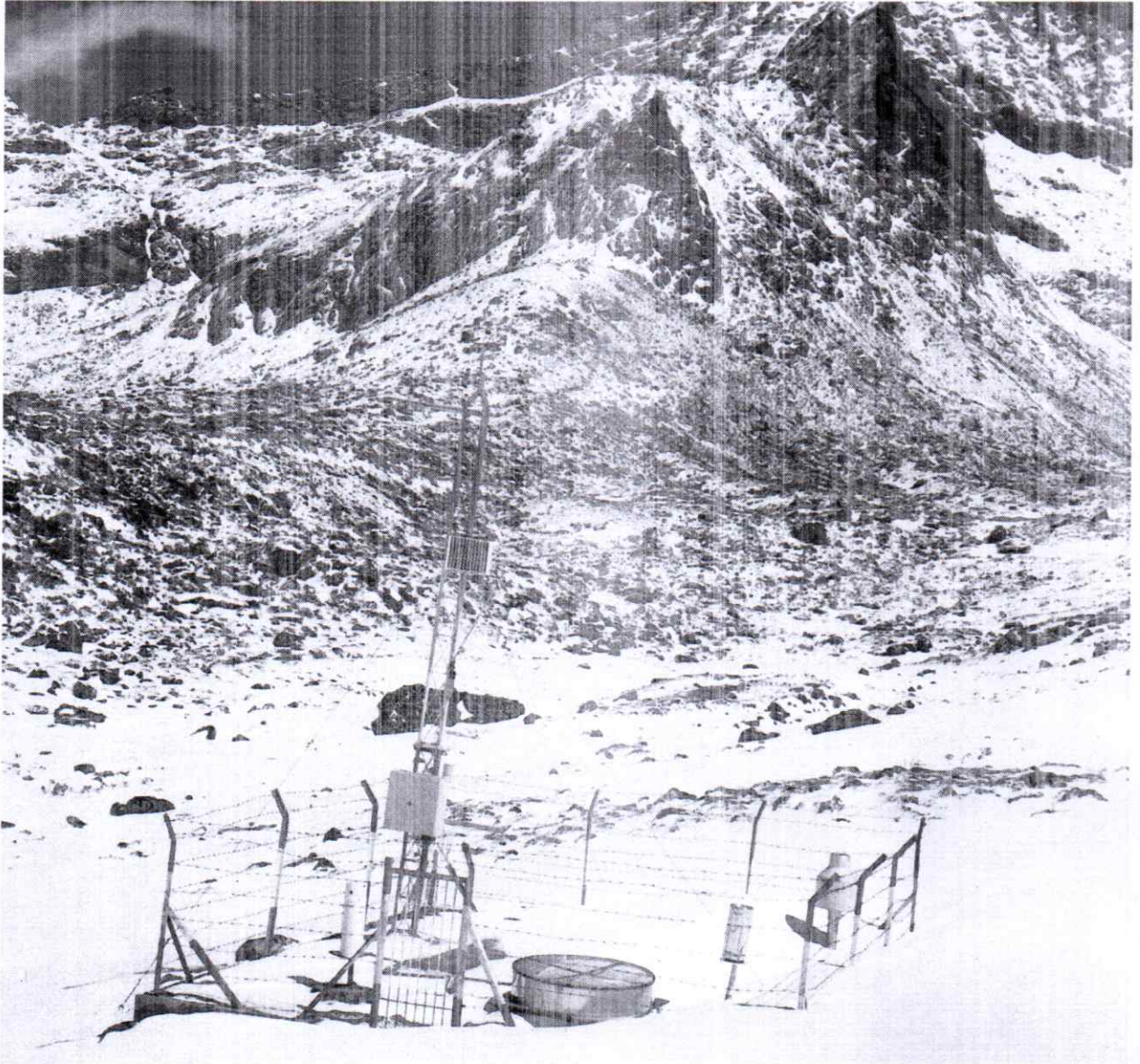


Figure 7:- Snow Gauge Station at CWC site

Estimate: Letter of Intent given to the firm enclosed


 (SHRI SHASHANK BHUSHAN)
 Designation: Executive Engineer
 Sikkim Investigation Division,
 Central Water Commission, Gangtok
 Phone/Fax: 03592-231887
 Date: 09 Aug 2024
 Place: Gangtok


 अधिशासी अभियन्ता
 Executive Engineer
 सिक्किम अन्वेषण मण्डल
 Sikkim Investigation Division
 के.ज.आ. तादोंग, गान्तोक, सिक्किम
 CWC, Tadong, Gangtok, Sikkim