

Clarification No. 03 to bidding document
Development of a Flood Forecasting System & its Integration with existing Automatic Flood Warning System for TVHEP (4x130MW)
Bid Document No.9900325428
GePNIC Tender ID: 2026_NTPC_108149_1

	Refer to Section / Clause / Point (with page no)	POINT	Query	Reply
1	SECTION -VI SCOPE OF WORK / Section 2 - Special Conditions of the Contract / 4.0	Land for sensors: Land for Sensor Stations and of FFS shall be arranged by the contractor. However, any assistance required to the Employer for obtaining permission / clearance for installation of Sensor Stations, by furnishing requisite details, documents, etc. shall be provided by the Contractor. The charges for rent/lease for land/house shall be in the scope of the contractor.	Clarification given in portal doesn't completely giving the clarity. Land demarcated / identified for the structure & erection had to be possessed by NTPC. Clarity of land acquisition and process with civil administration needed to be in NTPC. As vendor we can give land size and location (with scale) for project	Point is adequately explained in the tender.
2	SECTION -VI / SECTION 3 of Technical Specification of Instruments	3.5 General Technical Specification for VSAT a. Dedicated 128 kbps (upload) and 128 kbps (download) bandwidth b. Extended C band VSAT c. Antenna size: 1.2m d. Separate battery bank for VSAT to provide power backup for a minimum of 15 days. e. Other Standard IDU and ODU features. f. Smooth operation during rainy or cloudy conditions. g. Snow cover shall be provided.	Dedicated 128 kbps (upload) and 128 kbps (download) bandwidth to be mentioned as it is required for each station or for collective for required VSAT connection. Nothing is said to be "standard IDU and ODU features". Every OEM had own technical specification with norms of usage and power. Proper technical specification is required. Nothing is called better as it is an open statement and doesn't confirm technical requirement.	Point is adequately explained in the tender.
3	Section 2 (SCC): Scope of Work point no 2 & 3 (page 315)	2) Operation and warranty services for one year after the final acceptance of the full system. 3) Operation and extended warranty services for two years after the completion of a one-year warranty.	Contradicts with Section 2 (SCC) - Other Mandatory Conditions of The Contract / Point 10 - 10) Defect liability period (DLP) shall be 02 years Two (2) years from the date of successful commissioning of the complete system and taking over by the Employer. Further, there will be Onsite comprehensive AMC for 03 years after the expiry of 02 years of DLP for 3rd year, 4th year and 5th year.	Point is adequately explained in the tender.
4	Section 2 (SCC) - Other Mandatory Conditions of The Contract / Point 17	pre-tender discussion meeting with bidders will be scheduled 15 days prior to the last date for submission of the tender.	Asking for same but no confirmation yet. Given mails in this regard	Pre-bid discussions scheduled on 01.06.2026 at 16:00 HRS in virtual mode through Video Conference vide link https://teams.microsoft.com/meet/45769858229573?p=ebw8Eoby0f4Vetoh02
5	Section 2 (SCC) - Other Mandatory Conditions of The Contract / Point 9	The instruments/ equipment shall include a 1-year onsite warranty after successfully establishing a real-time inflow forecasting system. Additional charges for a 2-year onsite extended warranty shall be mentioned in the price proposal.	Real - Time Inflow Forecasting System (Flow Model) is to be provided by ICED/Roorkee as understood. No clarity extended in tender document. The Flow Model will be installed, commissioned by ICED/Roorkee or by whom not clarified. Is ICED/Roorkee will be taking configuration charges for the Flow Model with the station input data in SCADA ? No clarity given.	Point is adequately explained in the tender.
6	Section 2 (SCC) - Other Mandatory Conditions of The Contract / Point 5	The bidder should provide a complete list of spares, sensors and consumables required for (05) five years for trouble-free operation and maintenance of the instruments.	A contradict point. Clarity in terms of percentage or qty to be mentioned. No one can assume qty of spare required in 5 years in such terrain. A loose statement showing preference to some one in internal own concert.	
7	Section 2 (SCC) - Material And Equipment Required For The Work	The bidder shall provide/arrange the material and equipment required to establish a real-time inflow forecasting system for the TVHPP for bona fide use under the contract at their expense.	What material & equipment required ? No clarity of saying this point. To establish Inflow Forecasting System what equipments / material required is to be noted in clarity. This point needs to be clarified as it is completely establishing nothing	Point is adequately explained in the tender.
8	Section 2 (SCC): Scope of Work / Point no 7	In case the brand of the equipment is other than the preferred brands mentioned in section 3- Technical specifications, the interested firms who are participating in this tender will be required to demonstrate the functioning of their equipment with complete integration of one AWS/ one G&D equipment or both (as decided by EIC) in the remote station and server at Tapovan, Joshimath for two weeks.	The tender does intend to tell that listed MODELS of EQUIPMENTS as per page 341 are needed to be only installed ? NTPC mean to say that trial had be set up with installation at site and making data available at Tapovan if any equipment is out of noted brands ? Pls be noted its not possible by anyone unless internally liaison and understanding had been already done. It's not a clause of tender when the subject is for high himalayan terrain. Who so ever had made this point no 7 is required to furnish preferred make & model of equipments for "Conventional Meteorological Stations" (page no 336) as this should be also covering into Section 2 (SCC) / Point No.: 7	Point is adequately explained in the tender. As per IMD specifications. The point is adequately explained in the tender.

9	<p>Page 329 3. Technical Specifications for General/Common Items 3.1 Specifications for Power Supply</p>	<ul style="list-style-type: none"> The complete AWS station shall have the capability for unattended operation at remote places using a Sealed Maintenance Free (SMF) battery, Electrical charger, Solar charge controller and rechargeable through a Solar panel. <p>i. Battery: Double 12 V chargeable SMF batteries with 50 AH capacity or better designed for extreme cold climatic conditions.</p> <p>ii. The switch with fuse is required for the power supply to the Data logger.</p> <p>iii. Solar Charge Controller (MPPT): It should charge the double 12 V, 50 AH SMF battery through a 75 W Solar panel and also Overload protection, Short circuit protection, Protection from lightning strikes and Under-voltage protection. It should have a provision to control the power supply to the Datalogger.</p> <p>iv. Solar Panel (Mono Crystalline): Rated capacity 100 W or better,</p> <ul style="list-style-type: none"> AWS should run for 15 days on cloudy days or without charging the battery and this must be demonstrated. 	<p>Solar Sizing is completely inadequate and without solar panel specification now available with all reputed OEM's. The TS is inadequate.</p>	<p>Point is adequately explained in the tender.</p>
10	<p>Page 329 3. Technical Specifications for General/Common Items 3.2 Specifications for Power Supply</p>	<ul style="list-style-type: none"> Two separate enclosures are required for AWS. The Weatherproof Enclosure of AWS should be FRP Enclosure (IP 66) and for outdoor use to provide a degree of protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, and hose-directed water. FRP enclosure should be capable of retaining ambient temperature for battery operation, i.e. charging & discharging. One enclosure FRP Enclosure (IP 66) is suitable to keep the Data logger, solar charge Controller, Pressure sensors, and switch with a suitable fuse for power supply to the Data logger and GPRS modem. Another separate FRP Enclosure (IP 66) for 12 V, 65 AH SMF batteries Silicone gasket is used for both Enclosures for harsh environments and extreme temperatures. FRP Enclosure (IP 66) enclosures should be designed for outdoor applications that require corrosion protection against chemicals and water. From humble to harsh environments, it safeguards vital electrical and electronic components with enclosures, climate control and accessories to help keep operations up and running smoothly. Enclosure with a hinged door and locking facility. Data Pockets provide convenient storage for wiring diagrams, operation manuals and other documentation inside an enclosure. 	<p>Battery sizing is different and first time it's a contradict TS ever seen in Tender. Requirement not specified properly and ethically. Seams location had different power sizing. Completely non transparent technical requirement with Scope.</p>	<p>Point is adequately explained in the tender.</p>
11	<p>Page 315 / Scope of Work / Point 5</p>	<p>In addition to the warranty, the Bidder will provide manpower as one trained hardware engineer stationed at TVHPP, NTPC Limited, Tapovan, Joshimath (Uttarakhand) and report to concerned officials at NTPC Limited for troubleshooting/ Operation on a yearly basis. Hardware Engineer shall visit stations as per the requirement of work or as directed by the Engineer in Charge. The charges for such manpower will be included in the AMC charges. The problems that are not rectified by the hardware engineer shall be attended to by a next-level trained person by the company to minimize <u>the penalty charges for the downtime</u>.</p>	<p>Contradicting over each other. Please be specific and clear with non complication and clear understanding.</p>	<p>Point is adequately explained in the tender.</p>
12	<p>Page 315 / Scope of Work / Point 6</p>	<p>The bidder will also provide a trained software engineer to integrate the data collected from the stations with models (Interface development) under the supervision of the ICED, IIT Roorkee stationed at Roorkee. A software engineer may be asked to visit Tapovan or any station as per the work requirement or as directed by the Engineer in Charge.</p>		
13	<p>Page 319 / Scope of Work / WARRANTY / DEFECT LIABILITY (DL)</p>	<p>Periodic visit of expert manpower shall be done every three months during AMS period. However, there shall be no ceiling on the number of visits for attending any breakdown. In case of any problem / issue is reported, the Contractor shall respond within 24 hrs. and depute expert manpower to site within 48 hrs. of issue / problem reporting. The Contractor shall ensure upkeep of FWS during warranty & AMS in all aspects and shall supply any material / service required for the same without any financial implication on the Employer.</p>	<p>Please be specific and clear with non complication and clear understanding.</p>	<p>Point is adequately explained in the tender.</p>