

**Clarification No. 01 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

S.No.	Refer to Section / Clause / Point (with page no)	POINT	Query	Reply
1	SECTION -VI SCOPE OF WORK / Section -1 Bill of Quantities / Point -1	1. The vendor may suggest any other alternative cost-effective better technology in the technical proposal.	Its contradict and can't be analysed as any one can quote any other technical point which may be out of listed equipments in SOP of Central Electricity Authority / Hydro Engg. & Tech. Dev. and Renovation & Modernization Division This should be removed with strict compliance to the technical specification mentioned in tender without making way to some vendors who might be engaged in their available equipments.	Refer Amendment No. 1 to bidding document
2	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,	Being Army Controled border area the Employer need to get the permission from local & Army authorities. Border area authorities don't entertain permission application from vendors. Land demarcated for fixing / errecting equipments should be applied by Employee. Vendor will definately follow up and can provide the area of land required.	Provisions of bidding document shall prevail. In the army-controlled area, wherever a letter is required, the same shall be provided.

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		documents, etc. shall be provided by the Contractor. The charges for rent/lease for land/house shall be in the scope of the contractor.		
3	SECTION -VI SCOPE OF WORK	a Hybrid Solar Power Supply system with 14 days of Battery Backup was also decided upon in view of the absence of reliable power supply sources in the area.	Some where its written 15 days batter backup - then 14 days - copy paste error and need proper clafication.	Refer Amendment No. 1 to bidding document

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4	SECTION -VI SCOPE OF WORK / 5.2	<p>5.2 Details of the Required Instruments The hydro-meteorological stations are classified as follows:</p> <p>1) Category- I- Establishment of Automatic Weather Station - Consists of temperature, humidity, atmospheric pressure, wind speed & direction, rainfall and solar radiation sensors with data logger, Cellular modem for data communications, high gain antenna, solar power, intrusion alarm and cabling with waterproof enclosure and all other accessories required for data transmission as per the Specifications given in Section-3 or better specifications (Including 3 meters lattice mast and mounting accessories and installation at site) (7 Nos.) and</p> <p>Category- I- Establishment of Automatic Weather Station –</p>	<p>Clarity of AWS station with VSat location not specified. Clarity of AWS station with only GPRS service not specified.</p>	<p>Provisions of bidding document shall prevail. The vendor is advised to visit the site first. The number of VSAT and GPRS-based transmission stations may vary, and it shall be further fine-tuned after the project is awarded. The numbers 7 & 3 have been mentioned for cost comparison.</p>
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		<p>Consists of temperature, humidity, atmospheric pressure, wind speed & direction, rainfall and solar radiation sensors with data logger, Cellular and VSAT modem for data communications, high gain antenna, solar power, intrusion alarm and cabling with waterproof enclosure and all other accessories required for data transmission as per the Specifications given in Section-3 or better specifications (Including 3 meters lattice mast and mounting accessories, installation at the site) (3 Nos.)</p>		
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	<p>6) Radar Guns (4 nos.)The telemetry system should be based on a cellular-based modem at 7 locations and cellular- based along with VSAT technology at 3 locations where mobile signals are unavailable.</p>	<p>Clarity of detail technical specification missing and not found in SOP of CEA.</p>	<p>The technical specifications are provided in the tender document. The same are being provided for validating the observed data.</p>
<p align="center">5</p>	<p>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. i. Battery: Double 12 V chargeable SMF batteries with 50 AH capacity or better designed for extreme cold climatic conditions. ii. The switch with fuse is required for the power supply to 	<p>Two different sizing of batteries for same AWS. Why double 12 V 50 AH SMF whereas this configuration will increase the batter numbers and size of enclouser. Why not 48 V 100 AH LiFePO4 for sensor station which will withstand cold condition. Battery specification absolutely not at per of the area location.</p>	<p>Provisions of bidding document shall prevail.</p>

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	<p>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.		
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<p align="center">6</p>	<p align="center">SECTION -VI / SECTION 3 of Technical Speciofication of Instruments</p>	<p>3.2 Specifications for Weatherproof FRP Enclosure for AWS</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 	<p>Two different sizing of batteries for same AWS. Why double 12 V 50 AH SMF whereas this configuration will increase the batter numbers and size of enclouser. Why not 48 V 100 AH LiFePO4 for sensor stations which will withstand cold condition. Battery specification absolutely not at per of the area location. Silicon Gasket is this used in enclouser or inducted as on some vendor input.</p>	<p>Provisions of bidding document shall prevail.</p>
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		<p>AH SMF batteries</p> <ul style="list-style-type: none">• Silicone gasket is used for both Enclosures for harsh environments and extreme temperatures.		
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	SECTION -VI / SECTION 3 of Technical Speciofication of Instruments	<p>3.5 General Technical Specification for VSAT</p> <p>a. Dedicated 128 kbps (upload) and 128 kbps (download) bandwidth</p> <p>b. Extended C band VSAT</p> <p>c. Antenna size: 1.2m</p> <p>d. Separate battery bank for VSAT to provide power backup for a minimum of 15 days.</p> <p>e. Other Standard IDU and ODU features.</p> <p>f. Smooth operation during rainy or cloudy conditions.</p> <p>g. Snow cover shall be provided.</p>	<p>Specify 128kbps pool bandwidth for each station or complete scope of work with VSat communication.</p> <p>128 RX 128 TX - one station should be minimum. Specification not with clarity nor responsible enough to catter the data transmission.</p>	<p>Provisions of bidding document shall prevail.</p> <p>The vendor may provide the same or better specifications.</p>
7	A8 AWS Suraithota	<p>The grid reference mentioned in tender for AWS and G&D location do require service expert of mountaineer ? Or its just for reference given in tender as location identified by consultant which is something not scalable by normal technical staff</p> <p>Proper identification of spot with snap should be made available in</p>		<p>The location may be slightly changed to ensure the accessibility of the site as per mutual consultation with the Engineer in charge of the project.</p>

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	tender as many developers have already done in past.		
	Re validation of grid location and actual scope of work to be re-defined.		
	feasible in Suraithota location.		
	It requires trained mountaineer pls add scope of work for the cost. Pls verify location information from TVHPP staff. The slop is not a normal slop – its high steep elevation of mountain.		