

**Pre-bid clarifications No. 3 against NIB No. 237 dtd. 18/04/17**

**Tender for Dam Safety Monitoring System of all commissioned dams of NEEPCO**

Sl. No.	Tender Specification	Bidder's query	NEEPCO's reply
1.	<p>Page 2 &amp; 3 /Section IV</p> <p><b>4.2.1 GNSS Receivers:</b> The High End Geodetic GNSS receivers (for multi-constellation) shall have the following specifications: <b>General Feature Requirements:</b> Channels: 220 or more, very low noise GNSS carrier phase measurements with &lt;1mm precision in a 1 Hz bandwidth, memory (internal and/or flash card) 1 GB or more (Internal/Controller), Data tracking/ storage rate: 10 Hz minimum; <b>Signals tracked:</b> Channels: 220 or more, very low noise GNSS carrier phase measurements with &lt;1mm precision in a 1 Hz bandwidth, memory (internal and/or flash card) 1 GB or more (Internal/Controller), Data tracking/ storage rate: 10 Hz minimum; <b>Signals tracked:</b> GPS: L1, L2, L2C, L5; GLONASS; Galileo: E1, E5a, E5b; BeiDou (Compass) B1, B2; IRNSS; SBAS: WAAS, EGNOS, GAGAN; QZSS; CMR, RTCM, NMEA, Bluetooth, USB, Serial, RTK Position Monitoring.</p>	<p>To either remove the IRNSS requirement or you can put a clause for an upgrade to the system to comply the IRNSS (once it fully functional to meet the tender requirement).</p>	<p>The clause is modified as below: <b>4.2.1 GNSS Receivers:</b> The High End Geodetic GNSS receivers (for multi-constellation) shall have the following specifications: <b>General Feature Requirements:</b> Channels: 220 or more, very low noise GNSS carrier phase measurements with &lt;1mm precision in a 1 Hz bandwidth, memory (internal and/or flash card) 1 GB or more (Internal/Controller), Data tracking/ storage rate: 10 Hz minimum; <b>Signals tracked:</b> Channels: 220 or more, very low noise GNSS carrier phase measurements with &lt;1mm precision in a 1 Hz bandwidth, memory (internal and/or flash card) 1 GB or more (Internal/Controller), Data tracking/ storage rate: 10 Hz minimum; <b>Signals tracked:</b> GPS: L1, L2, L2C, L5; GLONASS; Galileo: E1, E5a, E5b; BeiDou (Compass) B1, B2; SBAS: WAAS, EGNOS, GAGAN; QZSS; upgradable to track IRNSS without changing any hardware; CMR, RTCM, NMEA, Bluetooth, USB, Serial, RTK Position Monitoring.</p>
2.	<p>Page 5 / Section IV</p> <p>4.2.3/Geodetic Total Station: Distance Measurement: Without Prism: Range: 1000 m or better. Reflector less mode: 2mm + 2ppm up to 500 meters.</p>	<p>Without Prism: Range: 150 m or better. Reflector less mode: 3mm + 2ppm.</p>	<p>The clause is modified as below: <u>Distance Measurement:</u> <b>With Prism:</b> Range: 3500 m or better. Accuracy: 1mm + 2 ppm or higher accuracy Least Count: 0.1mm <b>Without Prism:</b> Range: 1000 m or better. Reflector less mode: 2mm + 2ppm up to 500 meters.</p>