

	HYDRO PROJECT ENGINEERING DIVISION	SPECIFICATION NO.	REV 00
	TITLE : SPECIFICATION OF PORTABLE NOISE LEVEL MEASURING DEVICE	241504868	Page 1 of 3

PROJECT: PUNATSANGHHU-II HEP (6 x 170 MW – V. FRANCIS)

A. SCOPE OF SUPPLY:

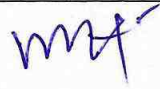
Supply of Six (06) numbers Portable Noise Level Measuring Device as per specifications detailed below.

B. TECHNICAL PARAMETERS:

1	Type	Portable Noise Level Meter (Type / Class 2 as per IEC 61672-1)
2	Quantity	06 Nos.
3	Range	35-130 dB
4	Display	Backlit LCD Display for Signal Level with a quasi Analog bar, Measuring Range, Menus for Displaying and editing settings, Stored Measurement Results, Selected parameters with Levels.
5	Microphone	Pre-polarized free field 1/2" (preferably) Microphone.
6	Power Supply	230 V AC with Back-up Chargeable Battery.
7	Memory for Previous Records	Required. The instrument shall have a removable data storage of 1 MB or better. (Alternately, the equipment shall have data logging capability of around 10000 records).
8	Internal Real Time clock for marking measurements with date & time	Required.
9	Data Storage and Processing	The instruments shall be capable of storing records of measured results.
10	Accessories	Microphone, Shoulder Bag, Protective Cover, batteries, Battery Charger.

C. OTHER REQUIREMENTS

1. The equipment must be suitable mainly to measure the noise level generated by the various equipment in the power house.
2. The equipment shall be portable type, one-hand operated, user friendly and operate able in ambient conditions of the Hydro Project. The instrument shall be covered with suitable portable weatherproof case for transportation to site of application and a container for its preservation in site store. The equipment shall be modular with enhanced features.

REV.NO.		DISTRIBUTION.	QTY.	APPROVED: 			
PREPARED				(MS)			
CHECKED				PREPARED	CHECKED	ISSUED	DATE
APPROVED							23.05.2020
DATE				(DB)	(VKN)	(VKN)	

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3. The instrument shall comprise of following provisions.

- Numerical live display of measurements.
- Instrument shall have feature of data storage.
- Transfer of data from instrument to Personal Computer (PC).
- Instrument shall be battery operated with charger suitable for power operation and charging of two batteries from 220V AC and 50 Hz (2 quick-charge batteries, simultaneous charging). The battery shall be of 2 x minimum three hours' period typically.
- Instrument shall have in-built self –test function.
- Averaging function for noise influence.

4. The equipment shall be supplied with all types of noise testing probes including 5-meter extension cable length along with all types of sensors and transducers required for proper functioning of instrument.

5. The equipment shall have provision for transfer of data to Personal Computer (PC) for taking print out. The bidder shall offer the monitoring software compatible to friendly user Windows. This software is required for documentation purpose as well.

6. Technical Requirements

The equipment shall comply with the following minimum specifications: -

1.	Sound Level Measurement Range Resolution Accuracy	35 dB to 130 dB 0.1 dB ±1.5 dB or better
2.	Display Preferable	LCD backlit with high brilliance up to 160x140 pixel.

D. DOCUMENTS TO BE FURNISHED:

Along with offer:

- (a) Catalogues giving all the technical particulars with model code
- (b) List of deviations, if any. Otherwise it shall be understood that the vendor is meeting all the requirements specified by us.

Vendor to note that if above documents are not furnished along with the offer; the offer shall be liable for outright rejection.

After placement of order:

- (a) Supplier has to submit the drawing showing over all dimensions, mounting details, sectional elevation and constructional details of portable noise level meter for our approval.

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At the time of supply:

- (a) 2 copies of test certificates / Calibration certificate and guarantee certificates to BHEL items. 1 copy of the above documents shall be put inside the case/ package.
- (b) Shipping / packing lists of the noise level measuring device.

E. GUARANTEE:

The item must be guaranteed for trouble free operation, good workmanship for a period of 18 months from the date of dispatch.

F. PACKING

Each Instrument shall be packed in a thermocol box, with silica gel packet and placed in a cartoon, or case adequate cushioning material and **water proof** cover in minimize the movement of internals and ensure that the instrument is capable of withstanding the transit condition without damage.

The vendor shall also supply 6 sets of Operation and Maintenance Manuals (hard copies) and one CD (soft copy of O&M Manuals) with the equipment.

Each box containing the equipments shall clearly mention **Puantsangchhu-II HEP** and other relevant details of the equipments inside the box including the Bill of Material (BOM).

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