

	HYDRO PROJECTS ENGINEERING DIVISION	SPECIFICATION NO.	REV 00
	TITLE : PORTABLE SILT / SUSPENDED SOLID CONTENT MEASURING EQUIPMENTS	241506350-1	Page 1 of 2

PROJECT: MANGDECHHU HEP BHUTAN

1. DESCRIPTION:

One (1) set of Portable Silt / Suspended solid content measuring Instrument shall be supplied to indicate and record the Silt / suspended solid content of the Water passing through Hydro Turbine.

2 FEATURES:

2.1) FEATURES OF PORTABLE TYPE SILT / SUSPENDED SOLID CONTENT MEASURING EQUIPMENT:

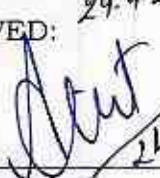
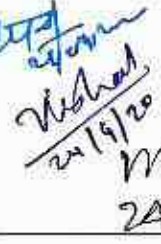
1. The equipment shall be based on Optical Technology (Laser/Infrared).
2. The equipment shall measure silt / suspended solids in mg/l.
3. The silt / suspended solid contents in the water at site, that instrument will have to measure, shall be up to 10,000 mg/l. However, if the instrument can measure contents above 10,000 mg/l, the same shall be acceptable subject to maximum value of 60,000 mg/l.
4. The equipment shall have an accuracy of +/- 5% of reading or +/- 300 mg/l (whichever is greater).
5. The equipment shall have RS 232/RS485/Modbus/ Equivalent interface with Memory Back up and data logging provision.
6. The equipment shall have backlit Graphical Display for indicating silt / suspended solid content measurement.
7. The equipment shall have a working temperature range of 0 to 55 Degree Celsius.

3. DOCUMENTATION:-

Vendor to furnish complete catalogue/manual of the instrument for the model code offered along with the offer, failing to which the offer shall be liable for rejection.

4. GUARANTEE:

Instrument should bear supplier's guarantee/warranty for trouble free operation & good Workmanship for a period of 12 month from the date of dispatch. Supplier should undertake to replace free of cost any material / Components found defective in operation during guarantee period.

REV.NO.		DISTRIBUTION.	QTY.	APPROVED:  24.4.20  24.4.20
PREPARED				
CHECKED		HPE	01	
APPROVED				
DATE		MM(H)	01	

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5. PACKAGING, HANDLING, STORAGE

Prior to shipping, the equipment's shall be properly packed to avoid damage during transit, handling and storage. Any special storage/ handling instructions of the instrument may be clearly marked on the outside packing.

In addition to above shipping list of items should be pasted on the box. A copy of above shipping list to be send to HPE (Gov.) for their reference.

	HYDRO PROJECTS ENGINEERING DIVISION	SPECIFICATION NO.	REV 00
	TITLE : PORTABLE SILT / SUSPENDED SOLID CONTENT MEASURING EQUIPMENTS	241506350-2	Page 1 of 2

PROJECT: BAIRASIUL HEP

1. DESCRIPTION:

One (1) set of Portable Silt / Suspended solid content measuring Instrument shall be supplied to indicate and record the Silt / suspended solid content of the Water passing through Hydro Turbine.

2 FEATURES:

2.1 FEATURES OF PORTABLE TYPE SILT / SUSPENDED SOLID CONTENT MEASURING EQUIPMENT:

1. The equipment shall be based on Optical Technology (Laser/Infrared).
2. The equipment shall measure silt / suspended solids in mg/l.
3. The silt / suspended solid contents in the water at site, that instrument will have to measure, shall be up to 10,000 mg/l. However, if the instrument can measure contents above 10,000 mg/l, the same shall be acceptable subject to maximum value of 60,000 mg/l.
4. The equipment shall have an accuracy of $\pm 5\%$ of reading or ± 300 mg/l (whichever is greater).
5. The equipment shall have RS 232/RS485/Modbus/ Equivalent interface with Memory Back up and data logging provision.
6. The equipment shall have backlit Graphical Display for indicating silt / suspended solid content measurement.
7. The equipment shall have a working temperature range of 0 to 55 Degree Celsius.

3. DOCUMENTATION:-

Vendor to furnish complete catalogue/manual of the instrument for the model code offered along with the offer, failing to which the offer shall be liable for rejection.

4. GUARANTEE:

Instrument should bear supplier's guarantee/warranty for trouble free operation & good Workmanship for a period of 12 month from the date of dispatch. Supplier should undertake to replace free of cost any material / Components found defective in operation during guarantee period.

REV.NO.		DISTRIBUTION.	QTY.	APPROVED: <i>24.04.20</i> <i>24/4/20</i> <i>24/4/20</i> <i>24.4.20</i>
PREPARED				
CHECKED		HPE	01	
APPROVED				
DATE		MM(H)	01	

	HYDRO PROJECTS ENGINEERING DIVISION	SPECIFICATION NO.	REV 00
	TITLE : PORTABLE SILT / SUSPENDED SOLID CONTENT MEASURING EQUIPMENTS	241506350-2	Page 2 of 2

5. PACKAGING, HANDLING, STORAGE

Prior to shipping, the equipment's shall be properly packed to avoid damage during transit, handling and storage. Any special storage/ handling instructions of the instrument may be clearly marked on the outside packing.

In addition to above shipping list of items should be pasted on the box. A copy of above shipping list to be send to HPE (Gov.) for their reference.