

PROCUREMENT PROCEDURE OF CPRI (NON WORKS)

Revision No. : 03
Dt of Revision : 25.07.2017

Issue No : 2
Issue Dt. : 30.06.2003

Section : Formats
Topic : e-Tender Technical Specification Document

Issued by : P A
Documents : PPM
FORMAT NO.:CPRI/PUR/eTBID/GTP

Section II -Technical Specification

CENTRAL POWER RESEARCH INSTITUTE, BANGALORE Web: www.cpri.in, www.tenderwizard.com/CPRI, Telefax: 080-2207 2010

Tender Enquiry No.: CPRIblr19MTD578S570

Description of the Equipment/Goods/Services: Portable Ultrasonic Flow Meter

Note : 1) The Offers should be submitted only in this format otherwise the offer will be liable to be rejected.

2) All blue fields are mandatorily to be filled in.

3) Pre-despatch Inspection & Training expenses shall be borne by CPRI. Information regarding the readiness of the equipment/machinery for the Pre-despatch Inspection should be communicated in writing by the supplier at least 70 (Seventy) days in advance, to obtain clearance from the Ministry, Government of India for deputation of nominated CPRI officers.

Name of the Vendor

Quotation Number and Date

Sl.No.	Parameters	CPRI Specification / Requirements	Qty	To be completed by the Bidder	
				Guaranteed Technical Particulars (GTP)	Specify deviations/Remarks if any
1	Place of supply	Bangalore			
2	Scope	Supply and installation of the Portable digital Ultrasonic flow meter system at CPRI			
3	Application	To measure the water flow at the discharge side of pumps having diameter in the range of 75 to 3000 mm with monitoring of the flow through data acquisition for a period of 3 to 4 hrs. The discharge rate is upto 500 liters per second and the velocity of the flow shall be in the range of 2 to 25 m/s depending on the pipe diameter.			
4	Details of flow meter	Type : Portable digital Ultrasonic based	1 set		
		Total Discharge : upto 500 liters per second (LPS)			
		Velocity of flow : 2 to 25 m/s			

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		Flow measurement accuracy : +/- 1%			
		Range of pipe diameter : 75 mm to 3000 mm			
		Protection : IP 65 Class for transmitter and IP67 for transducers protection			
		Thickness gauging : In-built to measure upto 200 mm thickness should be possible			
		No. of channels 2 (one for Transmitter and one for thickness gage)			
5	Transducers	Shall be able to measure flow of pure liquids and slurries having particle size in the range of 50 microns with concentration upto 30%. Should be of stainless steel protected.			

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		Two types of transducers for different pipe diameter ranges should be provided with clamp and cables			
		Pipe diameter 75 to 2000 mm	1 no.		
		Pipe diameter : >2000 and less than 3000 mm	1 no.		
		Temperature compensated Paired Transducers should be provided that enables No ZERO Flow calibration			
6	Power supply :	Battery operated with five or more hours of continuous operation. The charges supplied should be compatible with $230 \pm 10\%$ V AC, 50 ± 2 Hz supply. Minimum cable length should be 5 meters			

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				Guaranteed Technical Particulars (GTP)	Specify deviations/Remarks if any
7	Data logging	Data logging with diagnostic software with associated cables and hardware (PC/recorder) for display of flow rate spectrum on continuous basis and online averaging of results should be possible. The software should have the exporting feature to MS excel format.			
8	Calibration report	Calibration certificate with traceability to National / International standard shall be provided			
9	Cost break up	Break up of cost of all accessories shall be indicated.			
10	Pipe material	Galvanized iron, carbon steel, mild steel, Stainless steel, PVC, and pipes with internal lining etc..			
11	Performance Guarantee/ Warranty	2 years			
12	Installation & commissioning	The demonstration of the system should be done in the existing pipe-flow set up with capabilities to acquire the flow rate with time.			

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13	Optional Spare probes	Separate transducers for flows temp. up to 200 °C or more . Necessary high temperature block shall be supplied. Shall be scratch proof & minimum 5 metre cable length shall be provided			

PN: 1) Bidder shall indicate complete details/information how the CPRI GTP are complied with against each and every specification parameters & mere statement of 'complied' do not suffice the requirement.

2) A detailed technical/catalogue/literature/phamplet and any other details shall be submitted in hard copy in a sealed cover superscribing enquiry number and due date so as to reach the following address within the due date and time.

3) The Indian representative of the foreign/overseas firms shall submit the Letter of Authorization issued by their principals.

4) The bidder shall submit the quotation / offer in the above prescribed format of Section IA, IB and II only. Informations any other forms shall be rejected.

Address : Joint Director (Purchase), Purchase Authority , Central Power Research Institute, Sadashiva Nagar P.O., P.Box.No.8066, Bengaluru-560 80.

Telefax: 080-2207 2010., email: purchase@cpri.in , web: www.cpri.in