

NTPC LTD

Vendor Development Cell (VDC), Raipur

Sub: Qualifying Requirement for Vendor Enlistment for supply of Ultrasonic Flow Meter

A)	MEG DETAILS		
	1.0	MEG NO.	94 MEG-07
	2.0	MEG DESCRIPTION	Ultrasonic Flow Meter
	3.0	RESPONSIBILITY CENTRE	VDC
B)	Technical Criteria of QR: <ol style="list-style-type: none">1. The Applicant should be a Manufacturer or subsidiary company of Manufacturer of Ultrasonic Flow Meter.2. The Applicant should have successfully executed the supply of Ultrasonic Flow Meter during the last five (5) years as on the date of application. The Ultrasonic Flow Meter supplied should have been in satisfactory operation for at least one (1) year prior to the date of application. Documents to be submitted in support of meeting Technical QR: <ol style="list-style-type: none">1. Latest annual report OR NSIC / SSI / MSME registration certificate / BIS license / ISO certificate / certificate of registration from the concerned excise department / any other statutory document as a proof of being manufacturer of Ultrasonic Flow Meter. Brief details of manufacturing facilities or Standard published catalogue for Ultrasonic Flow Meter also to be given.2. The PO in support of award and completion certificate/copies of invoice to establish successful execution of the supply of Ultrasonic Flow Meter as per QR.		
C)	Documents to be submitted to find executed value of orders: <p>In addition to the documents required in support of meeting technical requirements as stated above, following documents are required to be submitted by the Applicants applying for enlistment: -</p> <ol style="list-style-type: none">1. Three (3) POs of the highest executed values of similar work (see definition at point E: Note-1 below) during previous five (5) years from the date of application. Copy of Invoice / Completion certificate from the concerned buyer/s in support of successful execution of supply against the POs to be submitted. These will be required for calculation of execution capability.2. Audited balance sheet including Profit & Loss statement for the previous three (3) completed financial year's reckoned from the date of application. In case where the audited results for the last financial years as on the date of application are not available, the financial result certified by a practicing Chartered accountant shall be considered acceptable.3. GSTIN certificate ,PAN ,Power of attorney, Letter of undertaking ,works information etc. as mentioned in enlistment application pages of website www.vendor.ntpc.co.in4. NTPC can request for other documents as necessary during the course of evaluation.		

Similar works means:

NOTE-2:- Supply of Ultrasonic Flow / Ultrasonic Level Meter to any Power Plants / Petroleum Refinery / Fertilizer Plants / Steel / Aluminum Industry within last five (5) years from the date of application for enlistment.

NOTE-2:-The executed value means Basic value of quantity of similar works executed/supplied against the reference PO (also applicable to partly executed POs as on date of application). Where PO value is composite (i.e. including Taxes etc.), the applicant to give item-wise break-up of Composite PO value mentioning Basic Value, Taxes etc.

DUAL PATH TRANSIT TIME CLAMP-ON ULTRASONIC FLOW METER

TECHNICAL REQUIREMENTS:

Type	Transit time Clamp On Ultrasonic meter
Mounting Style	Dual path with two sets of transducers on the same pipe
Flow measurement	Instantaneous Flow rate as well as totalized flow
Power supply	230 V AC from UPS.
Outputs: Analog Current Binary	Isolated 4-20mA linear outputs for each path Contact relay outputs, 2 NO + 2 NC for alarm
Communication ports	RS 232 C digital Hand held terminal port
Display/Indication	Flow meter with LCD screen backlight based local display and keypad If required, transmitter shall be suitably located away from the sensor for better access and visibility.
Recording / Totalizing/Logging Facilities	Yes. Should be able to compute cumulative flow over intervals selectable by owner i.e., daily, weekly, monthly etc. The data shall be stored in the memory of flow computer for access in future
Software features	Compensation for any cross path errors. Programming, configuration, shall be possible from front panel.
Diagnostics	False signal tolerance , power supply failure etc
Protection class	IP-65 'or better, Weather protection against direct sunlight, rain etc for Flow . ' meter and suitable for Cooling water for Transducer
Accuracy	+/- 1%
Electrical connection	Plug and socket
Accessories	All mounting hardware required like clamping fixtures, mechanism to remove the transducers online, interconnecting cables etc. All weather canopy for protection from direct sunlight and direct rain. Material of all fittings shall be SS 316.