

POSTED UNDER POSTAL CERTIFICATE

BUREAU OF INDIAN STANDARDS

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BIS BANGALORE LABORATORY
Peenya Industrial Area
1st Stage, Tumkur Road
Bangalore – 560 058
Date : 29 01 2007

Ref : BNBL / 13:3 (SFPC)

Subject : Tender Notice for the supply of MAGNETIC FLOWMETER, PRIMARY SENSOR AND SIGNAL CONVERTOR

**M/s Yokogawa India Limited
Plot No. 96, Electronic City Complex
Hosur Road, Bangalore-560 100**

Dear Sir(s),

Quotation(s) is / are invited for the supply of the equipment commissioning, demonstration of satisfactory performance and in-house training in operation of the equipment.

1. The terms and conditions for submitting quotations and supply of the equipment are given in **Annexure – I**.
2. The details of the equipment(s) / item(s) required along with specification(s) are given in **Annexure – II**.
3. The quotation(s) should reach the undersigned latest by 1430 hours on **12 February** at the above address.
4. The quotation(s) shall be opened at 1500 hours on **13 February 2007** in the presence of such tenderers or their duly authorized representatives who may like to attend.
5. Unless stated otherwise, quotation(s) shall be deemed to be for delivery at BIS Bangalore Branch Office Laboratory.
6. The tender is also posted in BIS Website – www.bis.org.in

Thanking you,

Yours faithfully,

(B.R. Narayanappa)
Director & Head BNBOL

Encl. : 1) Annexure - I
2) Annexure – II

TERMS & CONDITIONS

1. The **BUREAU** gives **FIRST PREFERENCE** in its purchase in goods bearing **ISI CERTIFICATION MARK** and second preference to those which conform to the relevant Indian Standard Specifications.
2. The delivery of the stores is required to be made within 30 days of receipt of order. If it is not possible for you to affect delivery within the period you are required to specify the date by which you can guarantee delivery of the stores.
3. Your Bids shall remain valid for a period of 90 days from the date of opening.
4. Quotations/Bids, qualified by indefinite expressions as "Subject to immediate acceptance, Subject to prior sale" etc. and incomplete quotations are liable to be summarily rejected
5. The Bids should clearly give break-up of cost of each equipment. The rates quoted should separately indicate basic cost, Excise Duty, Sales Tax, P & F charges, Freight, Insurance, VAT etc. If rates quoted do not state Sales Tax, Excise Duty or any other taxes/charges, the same should be specifically stated. In absence of any such stipulation, it will be presumed that the prices include all such charges and no claim for the same shall be entertained.
6. BIS shall pay 90% of the cost after satisfactory installation & commissioning and the balance of 10% as contract performance security would be paid after expiry of warranty period. However other terms of payment for contract performance security can also be considered, if so stated clearly.
7. The warrant period of the equipments may be stated clearly in the Technical Bids. In case the same is not found stated, it will be presumed that warranty period as mentioned in their specifications (if specified) is applicable.
8. Please mentions clearly in the Technical Bids regarding address of arrangements for service/repair of the equipment are available. Suppliers having such arrangements in and around Bangalore shall be preferred.
9. All goods received would be subject to inspection before approval. The decision of BIS shall be binding. Rejected items/goods/stores shall be removed by the supplier at his own cost and risk, within 30 days of receipt of notice for removal of such goods and no liability, whatsoever, on the Bureau shall be attached for the rejected/disapproved goods/items/stores.
10. The Bureau reserves the right to accept or reject summarily and or all tenders in whole or part without assigning any reason whatsoever. All questions, disputes or difference arriving under, out of or in connection with tender enquiry shall be subject to the exclusive jurisdiction of Bangalore Courts.
11. The Bureau takes no responsibility for delay, loss or non-receipt of tenders after dispatch.
12. In case of non-compliance with the Terms & Conditions of the contract, the Bureau reserves its right to:
 - a) Cancel/rescind/revoke the order if supply is not made in time and is not conforming to the required specification.
 - b) Impose penalty up to 1 % of the total value of the for a delay of every seven days after the schedule date subject to the ceiling of maximum of 10 % of the total value of the order

EQUIPMENT SPEC. CODE		:	SFPC 017.1
NAME OF THE EQUIPMENT		:	MAGNETIC FLOWMETER, PRIMARY SENSOR AND SIGNAL CONVERTOR
PROPOSED FOR BIS LABS		:	BNBOL
TOTAL QUANTITY REQUIRED		:	One No.
1.0	Scope Prescribes the requirements for a electromagnetic flow meter and sensor for measuring flow of water during performance test of solar flat plate collector as per Cl. 6.4 of IS 12933 (Pt.5).		
2.0	Requirements Magnetic flow sensor: Primary head : DN 25 mm Electrical conductivity : >5 micro sec/cm Operating temperature: -60 to +90° C Insulation class of field coils : H class Electrode design: Flat elliptical electrodes, surface polished, self cleaning Grounding rings : Standard version Protection: IP 67/ equivalent to NEMA 4 and 4X Flow Range: 0 – 1.8 m ³ per hour Signal Converter Current output function: Galvanically isolated from all output and input circuits Current: 0 – 20 mA Active mode: max 500 ohms load Passive mode: external Voltage 15 – 20 V DC Load 0 – 500 ohms Error: 3.6 mA Time Constant: Cut off “on” value : 0.1 to 19% Cut off “off” value: 0.2 to 20% Display: 8 digit segment LED display for actual flow rate Power Supply: 230/240 V, 50 Hz Housing: Die cast Aluminium		
3.0	Calibration : Calibration certificate shall be furnished along with the equipment with traceability to National standards. .		
4.0	Guarantee The equipment shall be guaranteed for a minimum period of one year of satisfactory operation		
5.0	Accessories Nil		
	PREPARED BY	CHECKED BY	APPROVED BY
SIGNATURE			
NAME	U.SURENDRA	U.SURENDRA	B.R.NARYANAPPA
DESIGNATION	Director (Mech)	Director (Mech)	Head BNBOL
DATE	14 08 06	14 08 06	14 08 06

