



Government of India
Bhabha Atomic Research Centre
Accelerator and Pulse Power Division
Mumbai – 400 085, INDIA

REF. NO.: BARC/APPD/HK/2017/279

ENGG. HALL NO. 4

DATE: 3.10.17

Subject: Inviting quotation for “Fabrication & installation of digital water temperature sensor with transmitter & switch as per ANNEXURE A for ECRIS at LEHIPA ,BARC.”

Dear Sir,

On behalf of the President of India, quotations are invited for “Fabrication & installation of digital water temperature sensor with transmitter & switch as per ANNEXURE A for ECRIS at LEHIPA ,BARC.”

Terms & conditions are given below.

S. No.	Description of the Job	Quantity
1.	“Fabrication & installation of digital water temperature sensor with transmitter & switch as per ANNEXURE A for ECRIS at LEHIPA ,BARC.”	1 Set

Terms and Conditions:

1. The supplier should quote for fabrication of the items, including the cost of the materials.
2. The material will be inspected before the start of the fabrication.
3. The quotations should have the minimum validity period of two month.
4. BARC being a Government organization is exempted from payment of excise duty and Octroi duty. However, excise duty exemption certificates will be issued if required. GST will be applicable. Income tax @ 3% & surcharge as applicable on IT will be deducted from your bill.
5. Supplier should submit their offers **via SpeedPost** in their letterhead, placed in sealed envelope super scribed with the above mentioned Reference No., due date and “Fabrication & installation of digital water temperature sensor with transmitter & switch as per ANNEXURE A for ECRIS at LEHIPA ,BARC.”At Van De Graff Extension building, addressed to Head, APPD, BARC, Trombay, Mumbai-400085, **on or before 23/10/2017** (Before 14:00 hours). The quotation should contain the following details like (i) Period of validity, (ii) terms and conditions of offer, (iii) Approximate period of completion of job, (iv) Copies of registration and income tax clearance certificates.

6. The item shall be subjected to inspection by our Scientists / Engineers at the supplier's works. Necessary inspection facilities should be provided to them during fabrication at the supplier's premises. Additional charges will not be admissible for such minor modifications, if any. The item should be delivered to us at **Van De Graff Extension building, APPD, BARC** after approval by our Scientists / Engineers.
7. Please note that shorter delivery period will be preferred. For any clarifications you may contact, Kewlani Hitesh/ S. H. Gharat APPD, BARC on Tel. 25592070/25593742 .
8. Payment will be made only after delivery and installation of the item to the above-mentioned address and approval by our Scientists / Engineers as per BARC rules.



R. K. Rajawat

Head, APPD, BARC

श्री. आर. के. राजावत / Shri R. K. Rajawat
अध्यक्ष, त्वरक एवं स्पंद शक्ति प्रभाग
Head, Accelerator & Pulse Power Division
भारत सरकार / Government of India
भाभा परमाणु अनुसंधान केन्द्र, मुंबई - 400 085.
Bhabha Atomic Research Centre, Mumbai - 400 085.

Copy to: Accounts Officer,
GSS Section,
Central Complex, BARC.

Annexure – A

“Fabrication & installation of digital water temperature sensor with transmitter & switch as per ANNEXURE A for ECRIS at LEHIPA ,BARC.”

SR.NO.	TITLE	QUANTITY				
1	<p>Technical Data</p> <p>Housing cover: stainless steel 1.4305 Housing: st. steel 1.4404 (compact version)</p> <p>Sensor : stainless steel 1.4401/1.4404 Connection compact version: G ½</p> <p>Connection separately mounted version: Sensor: 6 mm Cable: 2.5 m PTFE with M12x1 plug Housing: M25 x 1.5 with counter nut</p> <p>Principle of measurement: semiconductor Display: 3-digit LED, digit-height: 7 mm Resolution: 0.5 (up to 99.9°C) 1 °C (from 100°C)</p> <p>Max. temperature of measured medium: -20 ... +120 °C</p> <p>Max. ambient temp.: -20 ... +50 °C Max. pressure: 80 bar Power supply: 24 V_{DC} ±20 % Power consumption: 40 mA</p> <p>Electrical connection: plug M12 x 1 Analogue output: 0 (4) - 20 mA adjustable, max. load 500 Ω Switching output: semiconductor; PNP or NPN (factory set), max. 300 mA, short-circuit proof Contact function: N/O / N/C, window, adjustable Switching point adjustment: adjustable via 2 keys Switching display: adjustable Switch. state display: 1 (2) LED Hysteresis: adjustable via 2 keys ON/OFF-switching delay: 0.5 ... 99.5 s (separately adjustable) Measuring cycle: 0.5 s Response time: t_{90%}: approx. 13/30 s Accuracy (sensor): ±0.5 °C (between -10 ... +85 °C) ±2 °C (between +85 ... 125 °C and -50 ... -10 °C) Protection: IP 65</p> <p>Dimension</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">A</td> <td style="text-align: center;">B</td> </tr> <tr> <td style="text-align: center;">G ½</td> <td style="text-align: center;">72.3</td> </tr> </table>	A	B	G ½	72.3	04
A	B					
G ½	72.3					
2	<p>Accessories</p> <p>½ inch Nozzle [20 Nos], 3/8 inch nozzle [20Nos] , ½ inch hose pipe [20 meter] , 3/8 inch hospe pipe [20 mete] , Hospe clip [50 Nos] requirement while installation.</p>	1 set				

NOTE:

- [1] Quote for the entire item, Individual quote will not be considered.**
- [2] Minor change in the order will be as per system requirement while installation.**
- [3] Warranty: Material Repair, replacement of 3 year.**