



Government of India  
Bhabha Atomic Research Centre  
Accelerator Control Division  
**Electromagnetic Applications Section**

Ref : ACnD/EMAS/JI/2018/478

Date : 31<sup>st</sup> July, 2018

Sub: Fabrication and supply of atmospheric Oxygen deficiency Monitor as per TSP/08

Dear Sir/Madam,

1. Quotations are invited for the *execution of subject work*
2. Taxes and Excise Duties shall be quoted separately. Form AF / H whichever is applicable shall be provided, if required.
3. The suppliers are shall submit the cost for Design(if any), fabrication, assembly and testing. All necessary tools, instruments have to be arranged by the supplier.
4. The quotation must reach the undersigned on or before **10<sup>th</sup> Aug, 2018** and must be sent in a sealed envelope super-scribed with the **reference number & the due date** given above.
5. The quotations must reach us on or before the aforesaid date by India post (by speed post or ordinary post) only.
6. The address on the envelop should read:  
**The Head,  
Electromagnetic Applications Section,  
Accelerator Control Division  
RCnD Bldg., North Site,  
B.A.R.C, Trombay,  
Mumbai - 400 085.  
(Attn: Shri. Janvin Itteera)  
Email: janvin@barc.gov.in**
7. The testing of the transmitter shall be conducted in the presence of the Purchaser representatives only, further details are laid down in the enclosed specification sheet.
8. The bidder is expected to deliver the finished components after the approval by our engineer within 01 months from the date of receipt of firm work order.
9. All electronic components such as precision resistors, Instrumentation amplifiers and other shall have the manufacturer's QC/QA certificates for ensuring the authenticity of the components. Further details are mentioned in the enclosed specification sheet.
10. The finished components with the test certificates as mentioned in the enclosures shall be delivered by the manufacturer after the award of the contract at **B.A.R.C**
11. Head, Electromagnetic Applications Section, Accelerator Control Division reserves the right to accept / reject any or all quotations after assigning reasons.
12. Delivery, packing & forwarding charges, if any, must be clearly mentioned in the offer.
13. Drawings / Sketches (if any) must be returned along with the offer
14. Quotation must indicate the VAT no / PAN no of the vendor & validity of offer. Minimum validity of 60 days is preferred.
15. The quotation has to be duly signed by *authorized person with company seal*.  
*Unsigned offers shall be treated as invalid.*

Encl.: TSP/08

(SD/-)  
**Head, Electromagnetic Applications  
Section  
B.A.R.C**  
For and on Behalf of the President of India  
(The Purchaser)

## Annexure-A: Technical Specification sheet - TSP/08

### **SPECIFICATIONS:**

- 1) Measurement Range : 0-30% O<sub>2</sub>
- 2) Resolution : 0.1% O<sub>2</sub>
- 3) Accuracy : 0.2% O<sub>2</sub>
- 4) Display indication : 16x2 LCD Display
- 5) Alarm indication : LEDs for Caution and Danger levels Audio beeper at danger level  
CAUTION : Below 19.5% O<sub>2</sub>  
DANGER : Below 18% O<sub>2</sub>
- 6) Sensor : Electrochemical sensor
- 7) Response time : T<sub>90</sub> in 15 seconds
- 8) Operating temperature : 0 to 50°C
- 9) Power Supply : 7.2V DC at 150 mA (unit supplied with 230V AC adapter with 3 metres of power cord)
  
- 10) Stand by power : In case of power failure, internal storage battery will provide power for 12 hours

Deliverables: 01 no of Oxygen deficiency monitor

Place of Delivery: Accelerator Control Division, BARC, Trombay