



CIBA

भाकृअनुप - केन्द्रीय खारा जलजीव पालन अनुसंधान संस्थान

ICAR - CENTRAL INSTITUTE OF BRACKISHWATER AQUACULTURE

ISO 9001:2015 CERTIFIED

<https://ciba.icar.gov.in>



(Indian Council of Agricultural Research, Govt. of India) 75, Santhome High Road, RA Puram, MRC Nagar, Chennai - 600028, Tamil Nadu, India

CIBA GST: 33AAAI1830P1ZQ

आदेश/Order No: CIBA/24-25/1060

आपूर्ति आदेश / SUPPLY ORDER

फाइल संख्या / F.No: 5-55/24-25/ST

दिनांक / Dated: 31.01.2025

सेवा में / To,

M/s. BVN Instruments (Madras) Pvt Ltd

No. 28 (Old No.55A),

Balakrishnan (N) Street,

West Mambalam, Chennai- 600 033.

E-mail: bvnchennai@gmail.com

विषय / Sub: Purchase of Hydrogen Sulphide measuring meter at aqua climate lab CIBA- reg.

संदर्भ / Ref: BVN/GEN/3244/24, Date: 28-01-2025

महोदय/महोदया / Sir/Madam,

With reference to the above, please arrange to complete the work or supply the item/materials in accordance with the terms and conditions mentioned below:

- A Demand Draft for **Rs. 15,222/- (Rupees Fifteen Thousand Two Hundred and Twenty Two Only)** drawn in favour of ICAR Unit, CIBA payable at Chennai towards the Performance Security Deposit may be sent within 14 Days from the date of receipt of this supply order.
- The articles should strictly be as per specification indicated in your quotation/ catalogue/pamphlets sent along with the quotation.
- Your invoice duly pre-receipted made out in triplicate in favour of the Director, Central Institute of Brackishwater Aquaculture, Chennai – 600028 for the supply of stores together with the vouchers relating to the claims towards cost of packing materials, forwarding, Insurance, Postage charges etc. may be provided.
- GST is admissible only on the cost of the goods supplied and it will be disallowed if claimed on any other charges.
- **The standard deductions such as TDS on GST & IT and other statutory levies as per government norms from time to time will be deducted.**
- The work/supply should be completed at the earliest but not later than **03.03.2025 after which Liquidated damages will be imposed as per** GENERAL CONDITION OF CONTRACT (GCC). (A sum equivalent to 0.5% (half percent) of the delivered price of the delayed goods or unperformed services for each week of delay or part thereof until actual delivery or performance, up to a maximum deduction of 10% (ten percent) of the delayed goods or services contract price. Once the maximum is reached, the purchaser may consider termination of the contract, if the same have not been terminated already).
- The supply /work is **FOR ICAR-CIBA, No.75, Santhome High Road, R.A.Puram, Chennai – 600028.** The supply should be made only on working days.
- Transit insurance is at the risk of the suppliers. The receipt of the supply order may please be acknowledged within five days from the date of this order.
- The bills in triplicate duly pre-receipted drawn in favour of **“The Director, CIBA, Chennai-600 028”** may be sent to this office(Stores Section within 7 days of delivery/supply of stores) to arrange for payment.

The payment will be released from this Office only on receipt of bills from the concerned Officer/ Indenter/ End user **along with GST Registration, Warranty Certificate, Cancelled Cheque, etc.** to the effect that the items are received in good condition without any damages.

- The performance security deposit, if collected towards the supply of items as mentioned in the description of stores has to be claimed within two years after the completion of warranty period and 60 days. The claims after the due date will not be entertained under any circumstances.
- Payment Terms: Payment will be made through ECS after **satisfactory completion work / delivery of items / installation in good condition and working satisfactorily** at our site.
- Description of Stores:

| Sl. No | Product Description | Unit Price | Qty | Total Price |
|--------|---|-------------|-----|-------------|
| 1 | 2022-7130 Monitoring H2S MSO8-Base-multi-(en) - MSO8 multi-sensor basic housing for amperometric and galvanic micro-sensor for measurement : H2, H2S, H2O2, O2 and dissolved O3. Software integrating all of the compensation calculation formulas needed for the Various Measurements: - 1 compartment 6 rechargeable Mignon batteries inf 2700 mA -1 connection cable with connector for micro sensor probe H2, H2S, H2O2, O2 or O3. Power supply possible: 220 VAC, Delivered with external charger, 12 rechargeable batteries type AA and quick charger Interface: RS232, extracting .csv file to computer | 6,45,000.00 | 1no | 6,45,000.00 |
| 2 | MSO8-TpH-(en) - Combined pH / temperature sensor for determination of H2S and TDSA. Calculations made via the MS08 box. Plastic sensor body. Temperature measuring range: -5 ... 80 ° C Pt100, pt1000 (DIN IEC 751 Accuracy A) NTC 30 kΩ pH measuring range: :0 ... 14 pH Cylindrical membrane resistance inf 450MQ (25° C) Reference: Ag / AgCl Electrolyte: Gel filling approx. 3 mol / 1 KC1 Point 0: pH =7 +/- 0.3 Maximum operating pressure: 6 bars Connector: Coaxial with Variopin connector head with screw thread PG 13,5 | | 1no | |
| 3 | MSO8-Sonde H2S-(en) - Support probe with integrated electronics and micro amperometric sensor H2S Titanium probe body, titanium H2S amperometric micro sensor with glass membrane, silicone and epoxy resin Range of measurements: Type I : 0,05 ... 10 mg/1 H2S Type II:0,5 ... 50 mg/1 H2S | | 1no | |

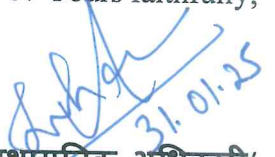
| | | | | |
|---|---|--|-----|--|
| | <p>Type III:0,01 ... 3 mg/1 H2S Type SL:0,003 ... 1,5 mg/1 H2S Type L :0 ... 100 mg/1 H2S Measurement accuracy: inf 2% of the measured value Operating temperature range: 0 ... 30 °C (40 °C on request) PH range of use: 0 ... 8.5 pH Response time: t90% inf 0.2s Maximum operating pressure: 10 bars Lifetime of amperometric micro sensor: 6 to 9 months (depending on pH variations) No interference in the presence of: carbon dioxide (up to 25.38 vol.%), Methane (up to 5.78 vol.%), Hydrogen (up to 0.544 vol.%), Ammonia (up to 1000 Ppm (v)), carbon monoxide (up to 92 ppm (v)), CS2 (up to 5 vol%), organic solvents (up to 20% vol.), acetic acid (up to 1 mol / l), dimethyl sulfide, HCN. No interference in salt water up to 40 g/l of salt Supplied with micro calibrated sensor with protective cap.</p> | | | |
| 4 | <p>Specific calibration range 30 - 40 °C - Measurement accuracy is guaranteed for a range of 0 to 30 °C. For using the sensor up to 40 °C without an exponential loss of precision the micro-sensor can be specifically calibrated for this temperature range of use. The compensation calculations are then re-evaluated.</p> | | 1no | |
| 5 | <p>Micro capteur H2S-(en)- For indication only - spare part Amperometric Micro Sensor H2S AMT(Support Probe MS08 - CTD48 - Shallow water) Titanium body with glass, silicone and epoxy resin membrane. Range of measurements: Type I: 0.05 ... 10 mg /1 H2S Type II: 0.5 ... 50 mg / 1H2S Type III: 0.01 ... 3 mg / 1 H2S Type SL: 0.003 ... 1.5 mg /1 H2S Type L: 0 ... 100 mg / 1 H2s Measurement accuracy: inf 2% of the measured value Operating temperature range: 0 ... 30 °C (40 °C possible on request) PH range of use: 0 ... 8.5 pH Response time: t90% inf0.2s Maximum operating pressure: 10 bars Lifetime of amperometric micro sensor: 6 to 9 months (depending on pH variations) No interference in the presence of: carbon dioxide (up to 25.38 vol.%), Methane (up to 5.78 vol.%), Hydrogen (up to 0.544 vol.%), Ammonia (up to at 1000 ppm (v)), carbon monoxide (up to 92 ppm (v)), CS2 (up to 5 vol%), organic solvents (up to 20% vol.),</p> | | 1no | |

| | | | | |
|---|--|--|-----|-------------|
| | acetic acid (up to to 1 mol / 1), dimethyl sulfide, HCN. No interference in salt water up to 40 g/l salt Delivered calibrated with protective cap | | | |
| 6 | Kit maintenance pH-(en) - For indication only - 1x storage solution for water & pH analysis electrode - 500 mL 1x pH 7.01 buffer solution, qty 25 sachets of 20 mL 1x pH 4.01 buffer solution, qty 25 sachets of 20 mL Manufacturer : Hanna Instruments | | 1no | |
| Total | | | | 6,45,000.00 |
| GST 18% | | | | 1,16,100.00 |
| Grand Total (R/O) | | | | 7,61,100.00 |
| (Rupees Seven Lakh Sixty One Thousand One Hundred Only) | | | | |

Note: AMC may be obtained as per quoted price (Ref: BVN/GEN/3244/24) after standard warranty Period.

Warranty: Two years for Meter and 6 Months for sensor from the date of supply.

भवदीय / Yours faithfully,


प्रशासनिक अधिकारी/
Administrative Officer

प्रतिलिपि / Copy to:

1. The Chief Finance & Accounts Officer, CIBA, Chennai.
2. The DDO, CIBA, Chennai
3. Dr. P Kumararaja, Senior Scientists, CIBA, Chennai.
(C.No. 348103, Note #25, dt: 31.01.2025, Pg: 8, Fund: DBT -562 (Equipment))

केन्द्रीय खारा जलजीव पालन अनुसंधान संस्थान (भारतीय कृषि अनुसंधान परिषद)
#75, संथोम हाई रोड, एम. आर. सी. नगर, चेन्नई - 600028, तमिलनाडु, भारत

