

**EXPORT INSPECTION AGENCY-KOLKATA**  
**14/1B Ezra Street,**  
**Kolkata - 700001**

**Specification for Central Gas supply / distribution system (Gas pipelining)**

Central Gas Supply/ Distribution System for gases tailored to our requirement - N<sub>2</sub>, H<sub>2</sub>, N<sub>2</sub>O, He, Ar, Acetylene, Air - from central Gas storage area where gases are stored in Cylinders protected by Brackets( not less than 10), to points of use- LCMSMS Section (N<sub>2</sub>, Ar), GC/GCMS (Ar, N<sub>2</sub>, H<sub>2</sub>, Air) , AAS / ICPMS Section (Ar, N<sub>2</sub>O, Acetylene, Air)

(a) Pressure reduction unit with purging and change over system from cylinder to generator.

(b) Gas purification systems for 4- 6 gases, equipped with high capacity traps viz oxygen trap reducing oxygen to 15 ppb, moisture trap with indicating molecular sieve and hydrocarbon trap ( all Agilent or equivalent brand) capable to operate at a pressure rating of 10 Kg/cm<sup>2</sup> with on-off toggle valve, with pressure controlling gauge , wall mountable with poly carbonate shield.

(c) .Gas distribution panel for gases-N<sub>2</sub>, H<sub>2</sub>, N<sub>2</sub>O, He, Ar, Acetylene, Air - with on-off toggle valve with pressure controlling gauge and 1/8" ( as required) end fittings wall mountable with poly carbonate shield. Pressure reduction unit at point of use. Not less than 25 units.

(d) Gas monitoring systems for pressure , leakage connected with alarm system.

(e) 1/8" and 1/4" OD SS tubings with defined cleanliness and gauge specification suitable to corrosive gases and covered by Steel casings throughout the distribution net work. Not less than 100 M.

(f) Double stage pressure regulator( SS ) –specification Inlet pressure 0-16 kg/cm<sup>2</sup> Outlet pressure 0-2 kg/cm<sup>2</sup> , Inlet connection 5/8" BSP , Outlet connection 1/8" OD. 7 pieces.

(g) GAS Manifold 3 numbers (N<sub>2</sub>, H<sub>2</sub>, He).

(h) Commissioning with documentation for pressure test, leak test, functional test, system description, material certificate, safety data sheet, operating instructions, documentation of test, drawing and parts list and approval from relevant authorities

Note: All the fitting shall be of SS

Particulars and Terms and Conditions for Central Gas Distribution System at the new laboratory of Export Inspection Agency- Kolkata at Southend Conclave, Space 101, 1582, Rajdanga Main Road, Kolkata-700107

Title of work:	Central Gas Distribution System at the new laboratory premises of Export Inspection Agency -Kolkata
Place of Work	Southend Conclave Space 101, 1582, Rajdanga Main road, Kolkata-700107.
Approx. value of work:	Rs. 6.30 lakhs
Earnest Money:	Rs. 15,000/- (Rupees fifteen thousand only) in the form of Bank Draft payable at par drawn on any Bank in Kolkata in favour of Export Inspection Agency-Kolkata.
Last date for receipt of sealed bids/ quotations	1500 hrs of 23 September,2010
Scope of work:	<p>(a) Installation and Commissioning of a Central Gas Supply/ Distribution System for gases tailored to our requirement - N<sub>2</sub>, H<sub>2</sub>, N<sub>2</sub>O,He, Ar, Acetylene, Air - from central Gas storage area where gases are stored in Cylinders protected by Brackets, to points of use.</p> <p>(b) Pressure reduction unit with purging and change over system from cylinder to generator</p> <p>(c) Gas purification systems for 4- 6 gases, equipped with high capacity traps viz oxygen trap reducing oxygen to 15 ppb or less, moisture trap with indicating molecular sieve and hydrocarbon trap ( all Agilent or equivalent brand) capable to operate at a pressure rating of 10 Kg/cm<sup>2</sup> with on-off toggle valve, with pressure controlling gauge , wall mountable with poly carbonate shield</p> <p>(d) Gas distribution panel for gases-N<sub>2</sub>, H<sub>2</sub>, N<sub>2</sub>O,He, Ar, Acetylene, Air - with on-off toggle valve with pressure controlling gauge and 1/8" end fittings wall mountable with poly carbonate shield</p> <p>(e) Gas monitoring systems for pressure , leakage connected with alarm system</p> <p>(f) 1/8" and 1/4" OD SS tubings with defined cleanliness and gauge specification suitable to corrosive gases and covered by Steel casings throughout the distribution net work.</p> <p>(g) Double stage pressure regulator( SS ) –specification Inlet pressure 0-16 kg/cm<sup>2</sup> Outlet pressure 0-2 kg/cm<sup>2</sup>, Inlet connection 5/8" BSP, Outlet</p>

	<p>connection 1/8" OD.</p> <p>(h) Pressure reduction unit at point of use</p> <p>(i) Automatic/ Remote Emergency shutdown mechanism</p> <p>(j) GAS Manifold 3 numbers</p> <p>(k) Commissioning with documentation for pressure test, leak test, functional test, system description, material certificate, safety data sheet, operating instructions, documentation of test, drawing and parts list and approval from relevant authorities if any.</p>
<p>Terms and Conditions</p>	<ol style="list-style-type: none"> <li>1. Interested bidders may inspect the site on any working day between 1000 hrs and 1600 hrs after prior telephonic intimation to Shri P.K.Moitra, on Telephone No.033-2235-2651/2652,Extn.313 or on Telephone No.2235 4606.</li> <li>2. Sealed Quotations/Bids, complete in all respects and enclosing a Draft for the Earnest Money Deposit, in an Envelope superscribed – <b>‘Quotation/Bid for Central Gas Distribution System’</b> at the new laboratory of Export Inspection Agency- Kolkata, Government of India, Ministry of Commerce and Industry, should reach the Joint Director, Export Inspection Agency-Kolkata, World Trade Centre (7<sup>th</sup> Floor), 14/1B, Ezra Street, Kolkata-700001 should reach EIA-Kolkata by 1500 hours of 23.09.2010. This office shall not be responsible for any delay in submission of the bid for any reason.</li> <li>3. The quotation shall be inclusive of all taxes/levies etc.</li> <li>4. The quotations would be opened on 23 Sept 2010 at 1600 Hrs interested bidders may be present themselves on the bid opening.</li> <li>5. Award of work will follow examination of all bids and rejection of incomplete and/or unacceptable bids as may be determined at the sole discretion of EIA-Kolkata.</li> <li>6. Earnest Money Deposit will be refunded to unsuccessful bidders within 7 working days after opening of the bids and decision thereon.</li> <li>7. Final order for the work may vary from the above-detailed work description, based on proposals received from the bidders and/or on mutual agreement after discussions.</li> <li>8. Successful bidder will have to deposit a sum of Rs.50,000/- as Performance Surety within 7 days of</li> </ol>

	<p>award of the work in the form of Bank fixed deposit payable at par and drawn on any Bank in Kolkata in favour of Export Inspection Agency-Kolkata, or bank guarantee from a commercial bank, which will be liable to be forfeited in the event of the bidder not being able to complete the work within a period of 15 days after award of work or any further period of time as may be granted by EIA-Kolkata. Performance security should remain valid for a period of sixty days beyond the date of completion of all contractual obligation of the supplier warranty obligation. Further, in the event of such 'non-performance', the bidder shall have no claim over any item and/or material supplied and/or installed in connection with the work. The bidder would also have to refund immediately with interest any advance payments received from EIA-Kolkata for the work.</p> <p>9. All works done and fittings, fixtures, equipment etc supplied shall carry minimum warranties as provided by the manufacturers or 1 year after completion of the work, whichever is longer, during which period any defective or substandard item will be replaced by the executor of the work free of cost.</p> <p>10. EIA-Kolkata reserves the right to cancel the work at any time prior to commencement of the work without assigning any reason whatsoever.</p> <p>11. Bidders would have to submit a signed copy of these Particulars and Terms and Conditions as a token of acceptance of the same, failing which their bids would be liable to be rejected.</p> <p>12. After completion of warranty period the bidder shall provide an Annual maintenance contract (AMC) with EIA-Kolkata, for which bidder should indicate the price while submitting the bid. Successful bidder shall responsible for maintaining the Gas distribution system minimum for 3 years after completion of warranty period.</p>