

M. S. E. TRANSMISSION CO. LTD. (CIN No. U40109MH2005SGC153646)

Office of the Superintending Engineer EHV O&M Circle, 3rd Floor, Vidyut Bhawan , Ratanlal Plot , Akola - 444 005 Ph: 0724- 2434474 FAX: 0724- 2433299 e-mail: se1200@mahatransco.in

No.: SE/EHV/(O&M)/CRL/AKL/TECH/No. 0759

Date: 18/06/2019

E-Enquiry

Sub:- E-Enquiry towards work of supply of SF6 gas cylinder for R&M/Emergency work under EHV O&M Circle, Akola.

Dear Sir,

Sealed and super scribed quotations are invited towards work of supply of SF6 gas cylinder for R&M/Emergency work under EHV O&M Circle Akola so as to reach this office on or before <u>26/06/2019 at 16.00 hrs</u> positively as per **Schedule "A"** enclosed herewith. The terms and conditions are as follows: -

Terms & conditions: -

- 1. The rates shall be offered as per Schedule "A".
- 2. Validity period of offer should be not less than 90 days from the date of opening of offer.
- **3.** Time limit: The total time limit allowed for supply of SF6 gas cylinder is within 90 days from the date of receipt of work order.
- 4. Penalty: If the material is not supplied within prescribed time limit, penalty at the rate ½ % percent per week delayed or part thereof subject to max. upto 10% of work order values will be levied from your bill.
- **5. Delivery:** The SF6 gas cylinder will be delivered at Sub-Station Maintenance Unit Akola. Time being the essence of this order, the delivery period shall be strictly adhered to. The Packing/ Handling & Transportation shall be to your account. The contractor shall be held responsible for all damages / losses during transportation of material.

6. Qualifying Conditions –

- Proof of Pan Card & GST
- > Proof of valid registration of firm under Bombay shop & Establishment Act/SSI/ NSIC if applicable
- > Work Order copy of successfully completed work of supply of SF6 gas.
- **7.** Scope of work Supply of SF6 gas cylinder as per enclosed Schedule A & technical specifications. This specification governs the technical & statutory requirements of SF6 gas filled & stored in cylinders.
- 8. Compliance with standards: -
 - ➤ SF6 Gas: SF6 (Sulphur Hexafluoride) gas shall conform to IEC: 376 and IS -13072.
 - ➢ Gas Cylinders: SF6 gas cylinders shall conform to the relevant standard.
 - Cylinder Valves: The valves fitted to the cylinders shall conform to ANSI: B57.1 or BS: 341 Part I or IS: 3224.

9. Statutory requirements:

- The Chief Controller of Explosives, Department of Explosives, and Government of India are the statuary authority regulating the importation and use of SF6 gas cylinders. A license has to be obtained by the users from this Authority for importation.
- ➢ Filler's certificate indicating filling ratio at which each cylinder has been filled.
- **10.** Conformity to Specifications: The goods should be of the best quality and shall be conforming to Specification given as per scope of work.
- 11. Submission of Bill: Bills in triplicate should be submitted to the office of the undersigned along with advance stamped receipt.
- **12.** Taxes The taxes such as TDS, Labour cess & all other taxes as applicable will be deducted from your bills.
- **13. Payment:** 100% payment will be made against successfully supply of material. Payment will be made by EHV O&M Circle, Akola against receipt of supply in good conditions & against Good receipt, quality inspection of material in SAP.
- 14. Termination of order: Failure to execute the order in time/ as per specification or any breach of the condition of contract, will result in termination of the contract.
- **15.** Jurisdiction: The disputes if any against this contract, will be subject to the jurisdiction of Akola District Court only.
- 16. GUARANTEE: Goods offered shall be guaranteed for a period of 12 months from the date of receipt at site in good conditions. The stores/materials found defective within the above guarantee period shall be replaced/repaired by the supplier free of cost, within one month from receipt of intimation. If the defective stores/materials are not replaced / repaired within the specified period as above, the M.S.E.T.C.L. shall recover an equivalent amount from any of your bills.
- 17. Agreement An agreement is required to be executed by bidder with the company on stamp paper of Rs. 500/- as per enclosed format. The cost of the stamp paper should be borne by you.
- **18. Security Deposit** The contractor will have to paid security deposit @ 10 % of value of the work order amount before commencement of contract in terms of DD/Check/BG/FDR and the DD/Check/ should be drawn in favour of The Superintending Engineer, EHV (O&M) Circle, Akola. The amount of SD will be refunded after satisfactory completion of contract period otherwise it will be forfeited without entertaining any objection/request thereof.
- **19.** While submitting the offer, the documents such as PAN card copy, GST registration certificate, work order copy & experience certificate towards supply of SF6 gas must be submitted.
- **20.** The Company's general terms and conditions of contract shall be applicable to this contract and will be bind on you.
- 21. Right to reject any or all quotations without assigning any reasons is reserved by the undersigned.

Encl: 1. Schedule "A" 2. Technical Specification

SUPERINTENDING ENGINEER

Copy to:-

- 1. The Manager (F&A), EHV O&M Circle, Akola.
- 2. Mahatransco Website/Notice Board

Scope of Work Scope of supply and Technical Specification

- 1. The scope includes supply of SF6 gas as per IEC-376 in cylinder having a capacity of 25KG.
- 2. Supply of SF6 gas includes the cost of cylinder, Packing, Forwarding, Loading & unloading.
- **3.** The requisite clearances & License, if any from the component Govt. Authority in the name of MAHATRANSCO will be in the scope of contractor.
- 4. Gas Cylinders & Valves: SF6 gas shall be supplied in NEW cylinders. The valves fitted to the cylinder shall be NEW.
- 5. Filling Ratio: The filling ratio (The ratio of weight of liquefiable gas introduced in the cylinder to the weight of the water the cylinder will hold at 15oC) shall not exceed 1.20.
- 6. Design & Test Pressures:
 - > The cylinders shall have a minimum designed working pressure of 130 kgf/cm2 (gauge).
 - > The test pressure for hydraulic stretch test shall be at least 210 kgf/cm2 (gauge).

7. MARKING :

Identification Marking: Each cylinder shall be durably and legibly marked by stamping, engraving or similar process with the following, preferably at the valve end and off the cylindrical part.

Other Markings: Each cylinder shall be marked by stamping, engraving or similar process with the following details:

a) Manufacturer's mark.

b) Inspection agency's mark

c) Rotation No. (Serial No.)

Other specification details as prescribed in the relevant standard.

Technical Data Sheet for SF6 gas Cylinder as per IEC-376

- a. Physical properties: Colorless, odorless, nontoxic and non-Flammable
- **b.** Density at 20° C :- 6.16 g/l
- **c.** Electric Strength: 2 & 1/2 times that of nitrogen.
- **d.** Compatibility: Upto temperature of about 180° C its compatibility with material used in electrical construction shall be similar to that of nitrogen.
- e. Toxic Impurities: SF6 gas shall comply with the requirements of the test as per clause 22 of IEC 487 1971.
- **f.** Impurities: SF6 gas shall not contain more than the maximum allowable quantities of impurities given below.

Impurity or group of impurities & Maximum permitted concentration by mass CF4-0.05%

Oxygen (Air) + Nitrogen – 0.05% Water – 15 ppm Acidity expressed as ppm – 0.3 ppm Hydrolysable fluorides expressed as ppm – 1.0 ppm Oil Content - Substantially free from oil Purity – 99.9% Dew Point - -50oC

- g. Standard size of cylinder: 25 Kg.
- **h.** Preferred size of cylinder: 25 Kg.
- i. Test pressure of cylinder: According to gas cylinder rules 1981 and company.
- j. Maximum filling ratio:- With IS7285/1974 tropical country.
- k. Tests:-
- ➤ Toxicity test clause no.22 of IEC 376 1971
- Water content and condensation Temperature B-1971:- Clause nos. 23,24,25 7 26 of IEC:376 Saturn
- Carbon tetra fluoride oxygen and nitrogen Content 1971:- Clause Nos. 27,28,29,30 & 31 IEC 376
- ▶ Hydrolysable Fluoride: Clause Nos. 32, 33,34,35,36 & 42 IEC-Content 376 1971.
- ➤ Acidity: Clause Nos.:- 38,39,40,41 and 42 of IEC 376 1971.
- ➢ Oil content: Section 13 of IEC 376 A-1971.

Contractors Letter Head

Ref: -

Date:-

To, The Superintending Engineer, EHV O&M Circle, Akola

Sub: - Submission of quotation towards work of supply of SF6 gas cylinder for R&M/Emergency work under EHV O&M Circle, Akola.

Ref : - Your office E-enquiry No..... Date.....

Respected Sir,

I am ready to supply of SF6 gas cylinder for R&M/Emergency work under EHV O&M Circle, Akola as per terms and condition of E-enquiry cited u/r and same are binding on me. I offered following rates for supply of SF6 gas as per Schedule "A".

SCHEDULE "A"

Sr. No.	Particulars	Units	Total Qty to be supplied	Ex-works rates/ unit	Total Amount in Rs.
1	Supply of 25 kg SF6 Gas Cylinder	No.	2		
	Add Taxes				
				Grand Total	

Thanking You.

Encl: Copy of PAN, GST & relevant Work order.

Yours faithfully

Contractor's seal & Signature