



INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR – 721 302, INDIA

No. IIT/ME/ENQ/WSTr/SP/18-19/EQ-1

Date: 15.10.2018

Sub: Procurement of Oil-injected Rotary screw air compressor

Department of Mechanical Engineering, Indian Institute of Technology Kharagpur would like to procure an **Oil-injected Rotary screw air compressor** to be used in pneumatic applications. Detailed specifications are given below.


Sealed tender are invited in **two-bid System** from eligible Indian manufacturers/suppliers or foreign manufacturers through their Direct Indian Agents for the supply of the following equipment.

Interested parties may submit their sealed bids under Two-cover system as per **Technical Specifications** given at **Annexure I**, and **General Terms & Conditions** and **Instruction & Special condition** given at **Annexure II and Annexure III**. Bidders are required to submit their **Details** in the format given at **Annexure IV** along with their technical bids. A Checklist and Compliance **statement** against each item of Annexure I - III thereon severally & individually shall also be submitted. Kindly refer to the Institute website www.iitkgp.ac.in/topfiles/tenders.php. for complete tender details.

The tender be sent in a sealed packet, containing two separate sealed envelopes (one each for **Technical Bid and Price Bid**) duly superscripted with **Tender Notice No. IIT/ME/ENQ/WSTr/SP/18-19/EQ-1** Date: 15.10.2018 to the

Attention: Prof Soumitra Paul
Mechanical Engineering Department,
Indian Institute of Technology Kharagpur
Kharagpur – 721 302 (India),
Phone: +91- 3222 282954, +91-3222-281575
Email: spaul@mech.iitkgp.ernet.in

Last Date of Submission of Quotation: 12 November 2018, 1500 hrs
Validity: 120 days from the last date of submission


15/10/2018
विभागाध्यक्ष, Head
यांत्रिकी अभियंत्रिकी विभाग
Mechanical Engineering Department
भा.प्रौ.सं., खड़गपुर/I.I.T., Kharagpur



Earnest money of Rs. 5000/- is to be deposited in the form of Account Payee Demand Draft in favour of **Registrar, IIT Kharagpur, payable at Kharagpur, India**. Any bid which is not accompanied with an EMD shall be summarily rejected. Earnest money deposited will be forfeited if the tenderer withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender. No interest will be paid on the earnest money of the unsuccessful bidders.

The technical bid will be evaluated first and price bids will be opened only in respect of those OEMs/Vendors, who are found technically qualified after evaluation of Technical bids.

The **Technical bids will be opened on 13/11/2018 at 1600 hrs** in the Department of Mechanical Engineering, Indian Institute of Technology Kharagpur.

Please send offers, ALONG WITH DESCRIPTIVE CATALOGUE/BROCHURE. The validity of the bid should be at least 120 days from the last date of submission. Please ensure that your quotation reaches this office not later than 12/11/2018, **15:00** hrs at the following address:

Copy to:

1. Institute website
2. Notice Board
3. CPP Portal
3. Head, Department of Mechanical engineering
4. Registrar (Store & Purchase)
5. Chairman Purchase Committee
6. Head, Institute Information Cell

Dr. Soumitra Paul

Professor

Department of Mechanical Engineering
Indian Institute of Technology Kharagpur
West Bengal 721302, India

Chairman
Departmental Purchase Committee
Department of Mechanical Engineering
IIT Kharagpur

Annexure I

Technical Specifications of the Equipment

Technical specification of Oil-injected Rotary screw air compressors.

S. No.	Parameter	IIT's nominal specification	Your specification
1	Compressor type	Oil injected type air cooled rotary screw compressor with	
2	Air dryer	Inbuilt air dryer not required	
3	(MODEL NO)	to be mentioned by manufacturer	
4	Capacity(Free air delivery)	60 cfm or more (performance in accordance with ISO1217 1996 annex-C)	
5	Compressor discharge	10 bar	
6	Package air unit discharge Pressure	More than 9 bar	
7	Noise level	68 db at one meter or less as per ISO 2151:2004	
8	Installed MOTOR power	15 kW	
9	Electrical Motor	15 KW / 20 HP Dual shaft motor with cooling blower mounted on main shaft. TEFC, Squirrel cage induction motor suitable for 3 phase, 415 Volts 10 %, 50 Hz. Protection class IP 55 and Insulation class 'F' with class B temperature rise.	
10	Power transfer type	Belt driven / direct coupled	

11	Air Filter	Two stage final filtration consisting of 1 Micron and 0.1 micron efficiency filter.	
12	Air receiver	Quote separate one 270 litre+(-)5 % Air and 500 liter capacity receiver(Horizontal mounted) ½” BSP outlet, manufactured as per BS 5169 / IS 2825 standard or ASME sec VIII Div. 1 Receiver Tank fitted with Safety Valves, pressure gauge, non-return valve, and pressure regulator valve & drain ball valve Test certificate required.	
13	Quantity	One Unit	
14	Oil	Oil should be filled when supplied.	
15	Low oil protection	The air compressor is equipped with technology to shut itself down in the event of low oil levels, preventing downtime and expensive repairs due to low fluid levels.	
16	warranty	1 year stander free of cost + additional two years cost in this format 1 year----- free of cost 2 nd year--- additional cost 3 rd year--- additional cost. Warranty should be applicable from the date of successful commissioning.	
17	Control panel	Digital display unit: 1 no. Feature- <ul style="list-style-type: none"> • Pressure indicator with min. and max. pressure • Pressure range 0 to 16 Bar • 230 VAC supply. • Ampere meter. • Option for total hr. counting. • Automatic pressure switch • Phase sequence protection relay • Phase failure protection relay, • Motor overload Trip, • High Air / Oil Discharge Temperature Trip. • Protection against starting on load, Suitable for controlling the compressor operation Locally, Remotely or via. Local Area Network 	

18	Document required	<ul style="list-style-type: none"> • Two sets of Operation and Maintenance Manuals documents are to be supplied along with the unit, without any additional charges. Detailed electrical circuit should also be supplied along with the air compressor. • List of spare parts required for maintenance 	
19	Technical brochure	Technical brochure should be submitted with quotation(mention page number of brochure in compliance statement)	
20	SPARES & CONSUMABLES.	Supplier should quote spares & consumables for 2 years continuous operation (@ 6 hr / day basis) of the Compressor Unit. Complete list of spares & consumables (inclusive of the following spares & consumables) is to be provided (along with the offer itself), giving individual item's part identification no, its application, life (in hrs of use), recommended quantity and unit cost.	
21	Service facility	Required locally with contact details	
22	Condition for installation the air compressor	All accessories for running the compressor at the time of installation should be provide by vender	
23	Vibration	Compressor will be check for vibration with vibration meter as per ISO Standard.	
24	Installation, training, trial & demo As per above data.	In the scope of vendor (free of cost).	
25	CIVIL WORK:	Requirement of civil work, if any for the erection of the unit, to be mentioned in the quotation.	

26	DELIVERY	max 6 weeks from the confirmed order	
27	SPACE REQUIREMENT	Requirement of space for installation of one compressor unit to be informed.	
28	QUALIFYING CONDITIONS	<p>a)The vendor should be a original Screw type Air Compressor manufacturer.</p> <p>b)The vendor should have experience of manufacturing Screw type air compressor system of minimum 60 CFM at 10 br</p> <p>c) The vendor should have supplied at least one Screw type air compressor system of minimum 60 CFM at 10 bar to any of the reputed company/Institute and which is working satisfactorily for last two years.</p> <p>d)The vendor has to provide the performance certificate in original from whom this air compressor is supplied by him (along with the contact person's name, address and phone number), broad specification of the supplied air compressor & year of supply.</p>	

Performance testing as per IS 6206

- Run compressor at “no load” for a period of one hour.
- Operate the compressor set at full load for a period of 6 Hours and check the following: Rated Pressure, Rated discharge, Temperature at discharge end, Function of safety valve and functional test of instrument and control system.

GENERAL TERMS and CONDITIONS

- (1) Price may be quoted in foreign currency for imported items. Manufacturer/Indian Agents of OEM should submit *two-parts* bid, Technical and Commercial bid in separate sealed envelopes. The technical bid should have a copy of commercial bid with prices masked. Modules to be supplied by the Indian Agent from Indigenous sources must be with ISO 9001 or equivalent certification and unit prices of such modules must be given in Rupees. **The main equipment as well as the modules should have warranty of THREE years. However, please also quote for 1 year and two years of Warranty.**
- (2) Only those manufacturers/their Indian Agents are eligible to quote who have supplied and installed at least ten such equipment in India during the past two years. The bids must accompany copies of authentic users certificates on successful installations in India. IIT Kharagpur reserves the right to verify confidentially the information in this regard from the users) and
- Provide the name of the Indian Agent who will be responsible for maintaining the equipment during the entire period under warranty and CMC
 - Provide names of service engineer who are posted in India; the service engineers should have been trained at Original Equipment Manufacturer's (OEM's) own unit.
- (3) While submitting the technical bid, the company must undertake to ensure continued availability of adequate number of technically qualified Service Engineers for the Equipment during the period of supply, installation and throughout the warranty period.
- (4) Period of validity: Bids shall remain valid for acceptance for a period of *Four months*(120 days) from the date of opening of Price Bids.
- (5) Conditional offer will not be accepted.
- (6) Late Tenders:- Tender received after the due date and time of submission as mentioned below shall not be accepted.
- (7) Indian Agents of Bidders or Indian Agents who are bidding on behalf of their principals **or the Indian Manufacturers are to** enclose the following documents:
- Current Sales Tax clearance certificates and PAN No.
 - Banker's Solvency Certificate.
 - Summary of Audited statement of Accounts for the last three years to be enclosed and financial highlights and the key performance during the last three quarters to be enclosed as per format:

Company's Key Performance

Description.	April to June	July to Sept.	Oct. to Dec.	Jan to March
Gross Revenue				
Profit Before Tax				
Profit After Tax				
Return on Invested Capital (ROIC)				

- (8) (a) Name and Address, phone and e-mail address of minimum five clients, out of which at least One should be in India to whom such/similar equipment have been supplied during the past two years should be mentioned.
 (b) Customer satisfaction certificate from one such organization is to be attached with the technical bid.
- (9) All Tenders (unless otherwise specified) are to be submitted/handed over to *The Head, Department of Mechanical Engineering, IIT Kharagpur-721 302* and acknowledgement to be obtained.
- (10) The person attending the bid opening session should be delegated with appropriate Power of Attorney (duly endorsed by a Notary Public) by the Chief Executive Officer of the Company to sign such documents. Only two persons on behalf of each Company will be allowed to participate/attend the Bid opening session.

- (11) Bid once submitted shall be the property of IIT Kharagpur and shall not be returned to the vendor at any time.
- (12) A bid submitted with false information will not only be rejected but the vendor may also be debarred from participation in future tendering process.
- (13) Canvassing in any form not only invites disqualification in this tender but may also result in debarring the vendor from participation in the future tendering process.
- (14) The vendor may be required to give presentation. Demonstration on the systems offered where vendor has installed and integrated similar solution may need to be arranged by the vendor at their own cost.
- (15) Materials such as pipe, bricks, sand, stone-chips, cement, paint etc. if required for the installation of the above item and other fixation work will have to be supplied by vendor free of cost.
- (16) The installation must be completed within 15 days from the date of receipt by this institute. The presence of Service Engineer from the principal at the time of installation is essential.
- (17) The Company must ensure the Institute about the 95% uptime during the operational period at the Institute with suitable spares and consumable at IIT Kharagpur. However, IIT Kharagpur may allow maximum time of 48 hours for the consumable available in India and for other items maximum of 05 working days from the date of lodging of report. A penalty of Rs. 5000/- (five thousand rupees only) per day shall be imposed for delay beyond 5 days. Similar penalty will be applicable for installation delay beyond 15 days from the receipt of the instrument at site.
- (18) Change of Indian Agent: Prior intimation is required for this change. The new Agent should undertake to submit fresh performance guarantee first.
- (19) Documents to be furnished by the concerned Indian Agents:
 - (a) Foreign Principal's proforma invoice indicating the commission payable to the Indian agent and nature of after sales service to be rendered by the Indian agent.
 - (b) Copy of the agency agreement with the foreign principal and the precise relationship between them and their mutual interest in the business.
 - (c) The enlistment of the Indian agent with Director General of Supplies and Disposals under the Compulsory Registration Scheme of Ministry of Finance.

ANNEXURE – III

INSTRUCTIONS & SPECIAL CONDITIONS

(To be returned by Tenderer along with the Tender duly signed – a copy to be attached with technical bid)

1. GENERAL:

Tenderer(s), who are Indian Agents of OEMs should furnish a clear declaration as follows: We declare that I am/we are Accredited Agents of the suppliers aboard;

2. DEVIATION FROM SPECIFICATIONS:

It is in the interest of the tenderer to study the specifications in the tender schedule thoroughly before quoting so that, if the tenderer makes any deviations, the same are prominently brought out in the body of the tender. If you need to add any optional items to your system in order to meet our specifications, you are requested to quote for the total including the option required to suit our requirements; otherwise, your tender will not be considered at all.

3. PRICE:

For imported items both F.O.B. & C.I.F. Kolkata price by Air to be quoted. The price should be without Customs Duty and Excise Duty since IIT Kharagpur is exempted from the payment of Customs & Excise Duties. The Institute if required will provide certificates for Import Items: The order acknowledgement should be issued by Fax within 3 days, and the item should be airlifted within 30 days from the date of receipt of the Letter of Credit copy / copy of DD, as the case may be.

- (i) Agency Commission, if any will be paid to the Indian agents in Rupees on receipt of the equipment and after satisfactory installation. Agency Commission will not be paid in foreign currency under any circumstances.
- (ii) The unit prices should be for the same unit as indicated in the Schedule to tender enquiry and not for any other unit.
- (iii) Prices quoted should be for supply, installation and commissioning at I.I.T. Kharagpur.
- (iv) Discount, if any, should be indicated separately / prominently.
- (v) Offers should normally be on fixed and firm price basis. Any clause making price variation will not be acceptable.
- (vi) Where tenderer intends to quote in Indian Rupees, for imported items, the price should be quoted "FOR Destination" basis. Offer should be on "High Sea Sales" basis. No sales tax can be charged. Customs Duty applicable against **Declaration in Terms of Government of India Notification No.51/96-Customs dated 23.07.96 will be paid. Vendor will arrange payment of customs duty during clearance and the same will be reimbursed at actual against proper documents. Way Bill will be issued on request.** Seller has to undertake the responsibilities of customs clearance. All necessary supporting documents will be provided by the IIT Kharagpur. An agreement can be made in this regard, if the seller wishes, before customs clearance.
- (vii) **Indian Institute of Technology Kharagpur is a Public Funded Academic & Research Institute under the Minister of Human Resource Development and is eligible for GST @ 5% vide Notification No: 47/2017 dated 14/11/2017 by the Ministry of Finance, Department of Revenue.**

4. TRANSIT NSURANCE:

The Purchaser will not pay separately for Transit Insurance.

5. PAYMENT:

- i) Payment for indigenous items quoted in Indian Rupees will be made only after completion of supply, installation and commissioning of the Systems to the entire satisfaction of the Purchaser. **No Advance Payment will be made for Indigenous Purchase.**
- ii) Where items are imported and the payment is desired to be made to their foreign Principals directly, the same will be made against Irrevocable Letter of Credit only.

6. TENDERERS SHALL SUBMIT ALONG WITH THEIR TENDER:

- i) Complete address and tele links for contact persons in principals and Indian agent offices dealing with this purchase.
- ii) Name and full address of the OEM's Banker and their swift code.
- iii) Proof of having ISO 9001 or other equivalent certification given by appropriate authorities.

7. TENDER FEE: Nil.

8. PERFORMANCE BANK GUARANTEE:

No PBG required

9. GUARANTEE:

The tenderer has to declare that the goods sold to the buyer under this contract shall be of the best quality and workmanship and shall be strictly in accordance with the specifications.

11. JURISDICTION:

All questions, disputes, or differences arising under, out of or in connection with the contract, if concluded, shall be subject to the exclusive jurisdiction at the place from which the acceptance of Tender is issued i.e. Jurisdiction of KOLKATA HIGH COURT. Acceptance to this effect is also necessary at the time of opening of Technical Bid.

12. ACKNOWLEDGMENT:

It is hereby acknowledged that we have gone through all the points listed under "Instructions & Special Conditions" outlined above, and those in the accompanying note on "Important Conditions", and we agree to abide by them under the penalty of permanent disqualification for Tender participation and for related penal actions for non-abidance of the conditions.

13. Interested vendors must be able to supply adequate spares and consumable during three years warranty. Vendor should also ensure trouble free service and performance for another two years beyond three years Comprehensive Warranty Period with adequate spares and accessories.

14. Spares for the equipment would be available for ten years from the date of installation.

SIGNATURE OF TENDERER
ALONG WITH SEAL OF THE
COMPANY WITH DATE

NOTE: ONE AGENT CANNOT REPRESENT TWO SUPPLIERS OR QUOTE ON THEIR BEHALF AT ONE TIME. In case of import all the particulars required for opening Letter of Credit (L/C) should be furnished in clear terms. After opening of L/C, based on our tender, no more request for amendment of L/C will be entertained. Total price including supply, installation and commissioning at I.I.T., Kharagpur, should be quoted. The cost of items that may be supplied from indigenous resources and also installation part if installation is done by Indian Agents should be stated in Indian Rupees.

1. In case of Import, bidders are requested to quote FOB price mentioning Freight & Insurance charges separately. No Ex-Works pricing is considered.
2. Warranty should be valid for one year for all items including third party items.
3. Quotations should be submitted in Separate Sealed Cover (with Sealing Wax). The quotation should be in typed format. No manual entries are allowed and any manual entry will entail rejection at the opening stage itself.
4. Before submitting vendor should ensure that they have submitted the following in the technical bid the documents as mentioned hereunder: Technical Literature, Specification documents, **Point-by-point Compliance Statement**, General Terms & Conditions, Acceptance of Kolkata High Court Jurisdiction, Name and address of 5 organizations of which 1 must be India where the OEM has installed 1 such equipment in the last 2 years and a copy of Price bid with prices masked.

The Commercial bid shall have all the commercial documents, agreements and Price bid. Prices should be given component wise to enable the Institute to decide the final configuration.

Important :

1. The institute may accept or reject any or all the bids in part or in full without assigning any reason and does not bind him to accept the lowest bid. The Institute at its discretion may change the quantity/upgrade the criteria/drop any item or part thereof at any time before placing the Purchase Order.
2. In case of any dispute, the decision of the Registrar of this Institute shall be final and binding on the Bidders.
3. For any query pertaining to this Bid document correspondence may be addressed to :-

Professor Soumitra Paul
Mechanical Engineering Department,
Indian Institute of Technology Kharagpur
Kharagpur – 721 302 (India),
Phone: +91- 3222 282954, +91-3222-281575 (Attention: Amit Choudhary)
Email: spaul@mech.iitkgp.ernet.in

N.B.: In case the due date for opening tender happens to be a holiday, the same will be opened on the next working day. The timings will however remain unchanged. Please Note that the Institute remains closed on Saturday & Sunday.

TECHNICAL BID DOCUMENT

ANNEXURE – IV

**FORMAT TO BE FILLED BY THE MANUFACTURERS / INDIAN AGENTS
(ON BEHALF OF THEIR FOREIGN PRINCIPLES) OR THEIR
AUTHORIZED COUNTRY DISTRIBUTORS/ REPRESENTING
DEALERS/ REGIONAL AGENCIES**

1. Name of the Tenderer :
2. Status of the Tenderer
: (attach documents, if registered
company/partnership/proprietorship)
3. Whether OEM/representing foreign principle :
(attach copy of certificate/authorization)
4. Details of key top official/authorized official :
(attach details)
5. Details of tie-ups for supply/services, if any :
(Attach details, agreements, escalation matrix)
6. Income Tax and Service Tax returns of
previous three assessment year (copy)
:
7. Financial status of bidder and/or his
associates including Annual Report &
Balance Sheet/Statement of Account of past
three years with Registration of Companies
(ROC) receipts duly authenticated by
Chartered Accountant :
8. Current list/address of clients where similar material
has been supplied and successfully working :
9. Name of the vendor's three largest clients, to
whom similar products and services were
extended & amount
of transaction/annual bills to such clients :
10. Name and address of Vendor's bankers
and attach a Solvency Certificate from
the Bank for a
minimum amount of Rs. :
11. Income Tax Permanent A/c No. (attach copy) :

Certified that all above information are correct to the best of my/our information,
knowledge and belief.

----- Dated signature & seal
of the Authorized person of
OEM/Vendor

NOTE: This is to be submitted in a separate sealed envelope super scribing "TECHNICAL BID", Notice inviting Tender No. **IIT/ME/ENQ/ WSTr /SP/18-19/EQ-1** Date: **15.10.2018** and name of the bidder. All technical documents like literature, catalogues etc., are to be put in the same envelope. Price bid of that company/firm only will be opened which do technically qualify, for further consideration. **Attach all relevant documents in the same serial order as above, properly indexed, duly signed and sealed.**