

**Institute for Defence Studies and Analyses
No. 1, Development Enclave
Rao Tula Ram Marg
New Delhi – 110 010**

TENDER NOTICE

Subject :- Bearings replacement & Other allied works in HVAC Plant Model 30HXC 310 A of “Carrier make” and Descaling of 2 Condensers & Evaporator Units .

IDS A invites sealed bids from Bidders who are Competent in this field and can undertake works as specified in this tender document .

Interested parties/ firms may submit their bid in a sealed cover super subscribing “Tender for Bearings replacement & Other allied works in HVAC plant and Descaling of 2 Condensers & Evaporator units , On or before 1500 Hrs , 27th November , 2017.

Tender document can either be obtained from IDS A or also be downloaded from the website www.idsa.in free of cost.

IDS A reserve the right to accept or reject any tender or part thereof or the whole tender without assigning any reason thereof at any point of time during the tendering process.

**(Hemant Kumar)
Estate Manager**

Bearings replacement & Other allied works in HVAC Plant Model
30HXC 310 A of "Carrier make" +
Descaling of 2 Condensers & Evaporator Units .

TENDER DOCUMENT

COST OF TENDER: - Free of Cost

Last date for submission of tender
up to 1500 Hrs - 27.11.2017

INSTITUTE FOR DEFENCE STUDIES AND ANALYSES,
NO.1, DEVELOPMENT ENCLAVE,
RAO TULA RAM MARG,
NEW DELHI - 110010

Institute for Defence Studies and Analyses

No. 1, Development Enclave, Rao Tula Ram Marg, New Delhi - 110 010

Notice inviting bid for Bearings replacement and Other allied works of HVAC Plant of “Carrier make” descaling of 2 condensers and Evaporating Units.

Sealed item rates/bids as under mentioned in the scope of work on behalf of Director General , IDSA , up to 1500 Hrs , 27th November 2017 from the Competent contractors ,specialized firms having adequate past experience of the works of similar nature . Bids received after the prescribed time and date shall not be considered. The details of the Air Conditioning Plant installed at IDSA are given in Annexure –A.

2. Scope of the work giving details about tender :-

- A) Replacement of Bearings sets replacement for 2 Compressors including dismantling & reassembling of Compressor
- B) Descaling of 2 condensers and 2evaporating units (chillers) of AC plant .
- C) Supply & replacement of filters
- D) Supply and charging of Refrigerant. (R-134)
- E) Supply and fitting of SCPM card
- F) Supply & top up of Compressor Oil
- G) Supply & replacement of contactor Kit

(i) Cost of tender - **Free of cost**

(ii) Earnest Money Deposit = Rs. 10,000/- (Rupees Ten Thousand only) in the form of bank draft/pay order in favor of IDSA, payable at New Delhi.

(iii) Last date of receipt of tender = On or before 1500 Hrs , 15.11.2017.

(iv) Validity Period of the tender: 3 Months from the last date for submission of tender.

(v) Security Deposit : 10 % of the Quoted Amount (EMD adjustable)

3. The earnest money as indicated above is to be deposited by the tenderers along with the bid. No interest will be paid on the EMD and security deposit .

4. The firms have to submit tender documents Signed along with earnest money and self attested copies of Registration, GST Registration , Sales Tax Certificate, PAN No , partnership deed, if any , experience certificate and EMD as prescribed .

5. IDSA reserve the right to accept or reject any tender or part thereof or all the tenders without assigning any reasons thereof.

Tender can also be downloaded from our website www.idsa.in

(Hemant Kumar)
Estate Manager

INSTITUTE FOR DEFENCE STUDIES AND ANALYSES
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NEW DELHI- 110 010

Notice Inviting Tender

1. Scope of work :

- A) Replacement bearings of 2 Nos Compressors from two circuits I/c dismantling & reassembling
- B) Descaling of 2 condensers/chillers of AC plant .
- C) Supply & replacement of filters
- D) Supply & Charging of Refrigerant. (R-134)
- E) Supply & Replacement of programmed SCPM card .
- F) Supply & top up of compressor oil
- G) Supply & replacement of Contactor kit

2. sealed Tenders on behalf of IDSA are invited from Contractors/firms who have successfully carried out at least one similar work as mentioned in the tender document with proof there of

3. Tenders should be in the specified form which may be obtained from the IDSA during office hours up to 1500 hrs. 27 November 2017. Tender document can also be downloaded from the website of IDSA.

4. Tenders should be submitted in 'Sealed Covers' super-scribed with the name of the work. These will be received on or before 1500 h, 15.11.2017. Tenders should be dropped in the tender box kept at the reception counter of IDSA, or by speed post before the closing date and time as indicated.

5. The earnest money amounting to Rs. 10,000/- (Rupees Ten Thousand only) by demand draft or pay order of a schedule bank , in favor of IDSA, payable at New Delhi , should accompany the tender document . Tenders received without earnest money shall be deemed invalid and will be out rightly rejected.

6. The IDSA reserves the right to accept or reject any tender or part thereof or all tenders without assigning any reasons thereof.

7. Canvassing in connection with the tenders is prohibited and the tender submitted by the contractor who resorts to canvassing is liable for rejection.

8. The tenderer shall quote rates both in figures and words. He shall also workout the amount for

each item of work and writes in both figures and words (In Annexure B and C). On check, if there are differences between the rates quoted by the tenderer in words and in figures or in the amount worked out by him, the higher rate of the two shall be considered.

9. The tenderer should visit and thoroughly inspect the AC Plant and its location at site, cooling towers and related machines and accessories at IDSA, New Delhi.
10. . Before tendering, the tenderer shall inspect the site to fully acquaint himself about the condition in regard to accessibility of the site, nature and extent of ground, working conditions of site and locality including stacking of materials, installations of tools and plants (T&P) etc. conditions affecting accommodations and movement of labor etc. required for the satisfactory execution of the work contract. No claim what so ever on such account shall be entertained in any circumstances.
11. IDSA reserves the right to forfeit the earnest money, if the contractor fails to commence the work within 7 working days from the date of award letter.
12. While quoting rates, the tenderer should not mention any conditions or make any changes, additions, alterations and modifications in the printed form of tender. Conditional tender shall not be accepted

13. Performance Security:

- (i) The Contractor shall furnish a performance security (in form of bank guarantee) or DD to IDSA, New Delhi of an amount equaling 10% of the contract amount valid up to 12 months from the date of Completion of work. The 80% payment will be released subject to the production of bills after completion of the work. The contractor has to give the functional guarantee of the unit repaired for minimum period of 12 months from the date of completion of work. The balance 20 % will be released after successfully running of the plant for one Month during the summer season.
- (ii) Failure of the successful bidder to comply with the above requirements shall constitute sufficient grounds for the annulment of the award and IDSA may award the work to the next evaluated bidder or call for new bids.
- (iii) The earnest money can be adjusted against the performance security deposit, to be deposited by the successful tenderer.
- (iv) The performance security deposit would be refunded after the successful completion of warranty period of 12 months after the Completion date without interest.
- (v) Penalty Clause: The work should be completed within 45 days from the date of award failing to which a penalty of Rs 1000/- (Rupees one thousand) per day will be imposed which will be deducted from the contractor's bill. However, decision of the Estate Manager will be final & Binding

14. Eligibility:

1. The firm should be registered under any Govt. department or should have executed

similar type of work in Govt. Department/Autonomous bodies. Work order/Completion certificate should be attached to prove the credentials, IDSA reserve the right to check credentials of the firm physically, where contractor has completed above type of work.

2. Attach a copy of self attested GST No , PAN No , VAT No. and other relevant documents. GST Registration is a mandatory requirement to participate in the bid.
3. The firm shall have proper workshop facility in Delhi-NCR; the same may be cross checked by IDSA before finalization of the contract.
4. Firm should have at least 3 years of Experience in same field.
5. Firm should have completed at least one work of Compressor Overhauling . Completion certificate in this regard must be attached in support of Claim .

15.. Acceptance Certificate

The contractor will test all the systems offered to him by IDSA for repair & descaling and give his acceptance to provide services under warranty based on their proper functioning.

16.Supervision & certificate of satisfaction of work done

Designated authority of IDSA will supervise the work provided under the contract.

- i) If at any stage, while executing the contract , is not found satisfactory, the Estate Manager reserves the right to terminate the contract with IMMEDIATE effect without assigning any reasons.
- ii) In case contractor fails to execute the work as per required standards for AC unit and also fail to maintain the adequate and required temperature during the summer seasons, security deposit shall be forfeited .

17.. Payment Conditions

The 80% payment will be released subject to the production of bills after completion of work . The contractor has to give the functional warranty of the unit repaired for minimum period of 12 months from the date of completion of work. The balance 20 % will be released after successfully running of the plant for one Month during the summer season. Security deposit will be released after completion of warranty period (12 months from the date of completion) with out interest

18. Period of completion : The work should be completed within 45 days from the date of placing the work order, any delay with part of contractor would attract a penalty of Rs 1000/- per day. No excuse will be entertained from the contractor in this regard .

19..Scope of work :

<u>SL</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	Part-A	
1	Replacement of Bearing of sets of 02 Compressors of two circuits , pressure testing , vacuum of circuits, refrigerant charging , oil top up	01 Job
2	Supply & Replacement of following parts in the plant :-	
	a) Internal Filters-part No 2001972 & 06NA660 028 carrier	02 Nos.
	b) External Filters-part No 2000144 carrier	01 No.
	c) SCPM card with programming-Screw compressor protection module part No 2006399 32 Gb500402ee carrier	01 No.
	D) Contactor Kit 100 amp , Simens make ,415 Volt	03 sets
3	Supply and charging of R-134 Gas for the plant (TetraFluro Ethane) part No 2019857 carrier	62 Kgs.

	<u>Descaling of Condensers part (B)</u>		
1	Descaling of 2 Condensers & 2 chillers to obtain suitable discharge/head pressure , the work involves cost of material& labor, etc .		01 Job
2.	Dismantling and reassembling of Compressors		01 Job

The contractor is advised to visit and inspect the unit installed at IDSA to assess the requirement of repair of the AC Plant.

20..Descaling operation for AC Plant

- a) The contractor shall employ only competent, skilled, qualified and trained staff with adequate experience (3 yrs or more) for descaling .
- b) The contractor will be strictly responsible to the true intent of the descaling Operation (using proper quality (as recommended by OEM) of antiscalent and the head pressure should not be higher than (approx. 800-850 psi) prescribed Carrier recommendation) of system in regard to workmanship and the diligent execution of the work.
- c) The contract must strictly ensure the proper quality of work as specified , by deploying suitable technically qualified persons.
- d) The contractor shall give or provide all necessary constant and whole time

superintendence during the execution of the work.

- e) No claim shall be entertained on account of increasing price of labor due to any cause whatsoever, if therein is any loss to the Institute with regard to property or material due to negligence of the contractor or his workmen, the same will be recovered from him.
- f) In case of any accident to his worker, he will be solely responsible for the loss and medical cost and other liability.
- k) The contractor will be responsible for the safe storage of the material. Any pilferage by him or his worker will be recovered from him and will also be debarred carrying out any work in the Authority in future.

21. Terms of repair of Air Conditioning Unit

- (i) The firm shall first repair the compressor of HVAC plant and thereafter Descaling work will be permitted..
- (ii) All the components required for replacement will be of OEM make as specified in the scope of work
(Branded) or of equivalent quality. Contractor will not be allowed to use any sub-standard parts and components. The same are to be shown to the concerned officer of IDSA before replacement.

22.. The bidders are required to give details about their maintenance infrastructure facilities including address of local servicing workshop address in the bid document.

23..The statement of technical service offered by the bidder are to be given on separate page .

24..Special Terms & Condition

1. The contractor shall take up the repairs of compressor of AC Plant in all respects from the IDSA and will be responsible for its safety/ working & maintenance for a year.
2. The contractor shall be responsible for any damage caused to the chiller plants, compressor, boiler, cooling towers, pump, motors electrical/control panels and contractors etc. wring etc. due to mishandling or due to negligence during the work .
3. The contractor has to arrange all Tools & Parts required for the successful completion of the work.
4. The Contractor will not use any type of acid for descaling purpose which can harm the tubes of Condenser/chiller.
5. The work shall be carried out in accordance with specifications required to be maintained in Carrier AC Plant and to the entire satisfaction of the IDSA.
6. In case of any dispute, the decision of the IDSA will be final . Decision of the Director General IDSA will be final and binding

Annexure – A

Details of the air conditioning plant		
1.	Make	Carrier
2.	Machine model	30 HXC 310A
3.	Type of cooling	Water Cooled
4.	Air handling units	36 Nos.
5.	Boiler	02 Nos.
6.	Pump & motors	12 Nos.
7.	Cooling towers	02 Nos.
8.	Electrical panel	As available
9.	Control panels	As available

Annexure-B

Details of financial Bid

Part of Financial Bid				
Itemwise Rate List (Part A) (Supply of Spares)				
SrNo	Description	Qty	Rate(Rs)	Amount(Rs)
1	Supply of Internal filters part No 2001972 & 06 NA660 028 carrier make	2 Nos.		
2	Supply of External filter-part No 2000144 "carrier make"	1 No.		
3	Supply of SCPM card(programmed)-screw compressor protection module part No 2006399 32 GB 500402ee	1 No.		
4	Supply of Compressor Oil for screw Compressor part No -2021438 Sw 220 Synthetic Oil	18.9 Litres		
5	Supply of R-134 Gas for the plant (tetraFluro Ethane) part No 2019857	62 Kg		
6.	Supply of Bearing set for Compressor Comprising following bearings (I) Bearing No JL69349/JL310-2 Set (II) Bearing JLM 506849*10-01 set (III) Bearing M 84249/10- 3 set (IV) Bearing NKIS 35-3 Set (V) Bearing NKIS 40-3 set If any other bearing required, It will deemed as part of bearing set	02 Sets		
7.	Contactor Kit for 100 amp, Simens make 415 V	03 Sets		
	Total Spares cost			
	Part B (Job work)			
1	Descaling Operation of 2 condensers and Two Evaporators for both HVAC plants (material+labor)	1 Job		
2.	Dismantling the Compressor, Replacement of Bearings & Other spares , Pressure testing , Reassembling, charging the Refrigerant , Oil top up etc	01 Job		
	Total Labour Cost			

Grand Total- Part (A+B)	
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Annexure-C

Financial Bid

Name of work: Bearing Replacement & other allied works Descaling Operation of 2 Condensers & Evaporator Units

S. NO.	Description of item	Amount in words in INR
1.	Supply of Spares as per part A of annexure B	
2.	Descaling Operation of Two Evaporators Units chillers and 2 Condensers (2+2)- Including material and Labour Cost for replacement of spares part B of Annexure B	
	Total amount (Exclusive of GST) in Figure	
	Total amount (Exclusive of GST) in words	

Signature of bidder

Address and seal of firm if any

Place & Date:

Company seal:

Note:

1. Prices to be quoted in Indian Rupees only in both figures & words.
2. Any cutting etc. shall be duly circled & signed by the bidder failing which Financial bid shall be rejected.
3. Vendor should quote price all inclusive, including all taxes and duties etc except the GST .
4. Payment will be released after deducting TDS and penalty, if any.
5. If the price Quoted in figures & words differs higher of the two, would be considered for bidding purpose .