

INSTITUTE FOR DEFENCE STUDIES AND ANALYSES
No. 1, Development Enclave, Rao Tula Ram Marg,
NEW DELHI- 110 010
Terms & Conditions and Scope of work

Overhauling of Cooling Towers and Other allied works of HVAC Plant model 30 HXC 310A of Carrier make and descaling of 2 condensers of the Air Conditioning unit.

1. Name of the work as well as broad details about tender document are given below;

- (i) Dismantling of both cooling Towers
- (ii) Repair of base/replacement of worn out parts
- (iii) Refitting of cooling Towers with new fins etc .
- (iv) Descaling of 2 condensers and 2 evaporating units (chillers) of AC plant
- (v) Supply & replacement of filters as per scope of work

2. Online bids 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 worth 5.5 lakhs or above. Tenders should be in the specified form which may be obtained from the TCIL website before 1500 hrs. 27th November 2018. Tender document can also be downloaded from the website of IDSA.

3. Tenders should be submitted in following way:-

- (i) EMD alongwith Passphrase in Sealed Covers' super-scribed with the name of the work. These will be received on or before 1500 h, 27.11.2018.
- (ii) The required papers duly self-attested should also submitted before online opening date and time.
- (ii) Tenders received without earnest money shall be deemed invalid and will be out rightly rejected.
- (iii) The IDSA reserves the right to accept or reject any tender or part thereof or all tenders without assigning any reasons thereof.
- (iv) Canvassing in connection with the tenders is prohibited and the tender submitted by the contractor who resorts to canvassing is liable for rejection.
- (v) The tenderer shall quote rates both in figures and words. He shall also workout the amount for each item of work and write in both figures and words (In Annexure B and C). On check, if there are difference 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.
- (vi) 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.

4. 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

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(T&P) etc. conditions affecting accommodations and movement of labor etc. required for the satisfactory execution of the work contract. No claim whatsoever on such account shall be entertained by the IDSA in any circumstances.

5. IDSA reserves the right to forfeit the earnest money, if the contractor fails to commence the work within 10 working days from the date of award letter.

6. 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

7. Performance Security:

- (i) The Contractor shall furnish a performance security (in form of bank guarantee) to IDSA, New Delhi of an amount equaling 10% of the contract price valid up to 12 months from the date of 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.
- (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 to the next evaluated bidder or call for new bids.
- (iii) The proceeds of the performance security shall be payable to IDSA, New Delhi as compensation resulting from the Vendor's failures to complete its obligation under the contract.
- (iv) The earnest money can be adjusted against the performance security deposit, to be deposited by the successful tenderer.
- (v) The performance security deposit would be refunded after the successful completion of warranty period of 12 months after the Completion date without interest.
- (vi) Penalty Clause: The work should be completed within 45 days from the date of award failing to which a penalty of Rs 500/- (Rupees Five Hundred) per day will be imposed which will be deducted from the contractor's bill. However, decision of the Estate Manager will be final & Binding

8. Eligibility:

1. The firm should be registered under any Govt. department or should have executed similar type of work and amount, in Govt. Department/Autonomous bodies. Work order/Completion certificate should be attached to prove the credentials, IDSA reserve the right to check the credentials of the firm physically, where contractor has completed above type of work.
2. The firm should have at least 03 years relevant experience in cooling towers/HVAC plant
3. Attach a copy of self-attested GST , Pan, VAT No. and other relevant documents. GST is a mandatory requirement to participate in the bid.
4. The firm shall have proper workshop facility in Delhi-NCR; the same may be cross checked by IDSA before finalization of the contract.

9. 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.

10 Supervision & certificate of satisfaction of work done: Designated representative 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 immediately 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.

11. Payment Conditions

(a) The 80% payment will be released subject to the production of bills. 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)

(b) Payment in respect of repairs of items shall be made after receipt satisfaction Certificate from the concerned department of the IDSA after checking the operation.

12. 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 500/- per day. No excuse will be entertained from the contractor in this regard.

13. Scope of work: The approximate quantity is given as under:-

<u>SL</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	Part-A	
1	Dismantling of cooling towers, replacement of necessary spares and refitting, testing, etc.	01 Job
2	Supply & Replacement of following parts in the Cooling Towers :-	
	a) PVC Fills-(600x300x150)mm	800 Nos.
	b) PVC drift eliminator -(600x600x100) mm	100 No.
	c) PVC Branch pipe-4.2 metres long of 20 mm dia	80 Nos.
	D). GI support Rods-15mmx4200 mm	30 Nos
	E) GI supporting Cleat-(40x40x5) mm	60 Nos
	f) FRP Panels-1500x2400mm	04 Nos
	g) FRP Panel -1200x2400mm	04 Nos
	H) FRP Top sheet-4200x4200	01 No

	l) Cooling Tower base channel-C type -(100x50x50)mm	55 RM
	j) MS angle 50x50x6 mm	30RM
	k) Resin fibre Catalyst	120 Kg
	l)Not Bolt/washer as required	01 Lot
	m)MS Pipe -150mm with primer and water proof duco paint	06 metres
	n) MS pipe -200mm - c Class	12 metres
	o) MS Flange-150mm	04 Nos
	p) Cooling tower motor -12.5 HP/960 RPM,3 Phase	01 Nos
	q) Aluminum Fan set assembly	01 No

	Descaling of Condensers & supply of Internal filters part (B)		
1	Descaling of 2 Condensers & 2 chillers to obtain suitable discharge/head pressure , the work involves cost of material& labor, etc .	1	Job
2.	Supply of Internal filters	02	Nos

The contractor is advised to visit and inspect the unit installed at IDSA to assess the requirement of repair of the AC Plant. Internal filters will only accepted " carrier make" . Contractor has to submit invoice in support of the claim .

14. 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.

15. Terms of repair of Air Conditioning Unit :-

- (i) The firm shall first Overhaul the Cooling Towers 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.

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

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

18. Special Terms & Condition

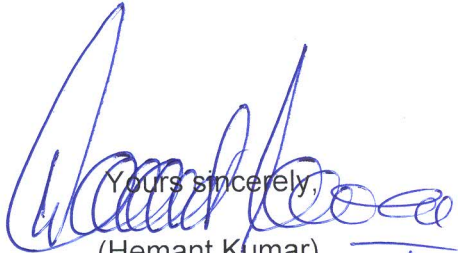
1. The contractor shall take up the repairs/Ovehaul Cooling Towers including base repair of both the towers in all respects and will be responsible for its safety/ working & maintenance for a year.
2. The contractor shall be responsible for any damage caused to the chiller plants, compressor, boiler, 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.
5. In case of any dispute, the decision of the IDSA will be final . Decision of the Director General IDSA will be final and binding .
6. **Garbage Disposal : Contractor has to make his own arrangement to lift the garbage (including old fills) and dispose it at suitable place . Bill of the contractor will not proceed until the site cleared from debris in all respect .**

Additional Conditions

1. All the T& P is to be arranged by Contractor and nothing extra shall be paid on this account
2. All the labour bye laws & regulations are to be followed by the contractor .
3. The contractor shall make his own arrangement electric connections to equipment like drill machine etc.
4. The Contractor shall be bound to follow the restrictions on the movement of labour , material imposed by IDSA or any other authority connected with site due to security or any other reason(s) . No Claim shall be entertained on this account .
5. The Contractor shall take all precautions to a accidents by exhibiting necessary cautions boards, lights flags etc . He shall be responsible for all the damages , accidents , caused due to negligence.
6. The contractor shall personally responsible for violation of any guidelines and shall have to pay the fine /penalty imposed by appropriate authority . No claim on this account shall be entertained .
7. The rate quoted by the contractor shall be include with all lead lift and height and nothing extra shall be paid .
8. TDS and WCT will be deducted as per applicable rules .
9. The contractor shall be fully responsible for safe custody of the material even if the material are under double lock system.
10. Quantity can be increased or decreased depending upon site conditions but will be paid as per actual measurement .
11. Standard force-majeure conditions would be apply.
12. Contractors are advised to Visit the site before quoting . After opening the bids no excuse will be entertained with regards to site conditions , security restrictions etc.

Director General, IDSA reserves the right to accept or reject the lowest or any offer or all offers without assigning any reasons thereto.

Please acknowledge.


Yours sincerely,
(Hemant Kumar)
Estate Manager. 25/10/18

Form of Tender

(Note: the appendix forms part of the tender)

To,
IDSA
No 1, Development Enclave
Rao Tularam Marg, New Delhi-110010.

Sir,

Name of work : Overhauling of Cooling Towers and Other allied works of HVAC Plant model 30 HXC 310A of Carrier make and descaling of 2 condensers of the Air Conditioning unit,

- a. Having visited the site and examined the conditions of contract, specifications and schedule of quantities for the above named work, we offer to undertake and complete the whole of subject work in conformity with the said conditions of the contract, specifications and schedule of quantities of this tender documents or such other sum as may be ascertained in accordance with the said condition of contract.
- b. We undertake to complete and deliver the whole of the works comprised in the contract within the time started in appendix hereto.
- c. We have independently considered the amount of liquidated damages shown in the appendix hereto and agree that it represents a fair estimates of loss likely to be suffered by you in the event of the works not being completed properly.
- d. We agree to abide by this tender for the period of one year from the date fixed for receiving the same or agreed extended period and it shall remain binding upon us may be accepted at any time before the expiry of the period.
- e. Unless and until a formal agreement is prepared and executed, this tender together with your written acceptance thereof shall constitute a binding contract between us.
- f. We understand that if our tender is accepted, we are to be jointly and severally responsible for the due performance of the contract.
- g. We understand that you are not bound to accept the lowest or any tender you may receive.

.....

Dated Day of

Signature..... In the capacity of

Duly authorized to sign for and on behalf of.....

Name and address of the tenderer.

(IN BLACK CAPITALS).

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