Tender Notice

National Small Industries Corporation Limited NSIC Bhawan Okhla Industrial Estate New Delhi-110020

Tel: +91-11-26826941/26826847 Email: tech@nsic.co.in

Tender no.: SIC/HO/TID/AU/12-88 Date: 7th November, 2013

Subject: Supply of one set of Air Conditioners Repairing & Refrigeration (Machinery & Equipment).

NSIC is setting up India-Africa Vocational Training Centre / Incubation Centre for Small Enterprise Establishment at Kigali (Rwanda).

We are please to invite your offer in two parts viz. (a) Technical and (b) Financial, strictly as per enclosed terms and conditions and instructions to bidders, in sealed covers for the under mentioned plant and machinery / equipment required for supply and installation at Kigali (Rwanda) consisting of the following:

SI. No.	Description	Quantity
1.	Pressure Gauge, diameter 63mm recalibration set, screw, scale 0 to 35 kg/sq.cm	3 Nos.
2.	Compound gauge diameter 63mm recalibration set, screw, scale 0 to 35 kg/sq.cm	3 Nos.
3.	Serviceman thermometer in metal case -30 to +30 degree C.	3 Nos.
4.	Sling psychrometer mounter on aluminium back scale -50 to +50 degree portable in leather case	3 Nos.
5.	Electronic Gas leak detector for R22 and R134A	2 Nos.
6.	Refrigerant cylinder capacity 2.5kg	4 Nos.
7.	Refrigerant cylinder capacity 30kg (R-22, R-600)	2 Nos.
8.	Gas charging station complete with two stage vacuum pump, charging cylinder	1 No.
9.	Gauge manifold with valves and gauge -R-12 / R-12 for gas charging (TCE).	2 Nos.
10.	Dial thermometer remote control armoured capillary dial 75mm-50 deg. C to 50 deg. C	2 Nos.
11.	Comfort dial type hygrometer 0 to 100	2 Nos.

12.	Dial thermometer, remote control armoured capillary, dia 21/2" -40 deg. F = 120deg. F	2 Nos.
13.	Temperature & humidity meter	2 Nos.
14.	Vacuum thermo couple gauge 1 to 3000 microns	2 Nos.
15.	Velocity meter with extension handle air lock – Digital	2 Nos.
16.	Scriubing block, universal, spindle 200mm	1 No.
17.	Air compressor two stage for oil less dry air with rust proof tank assembling heater and controls max. pressure 10kg/sq.cm cap. 45lts, Motor 1HP	1 No.
18.	Scraper, triangular blade removable 60mm	1 No.
19.	Descaling pump set complete with stainless steel impeller and housing complete with motor 1HP-HV AC Unit	1 No.
20.	Spray outfit, V twin, with motor ½ HP deliver upto 4 CFT free air pressure upto 40 PSI with spray gun and fitting (For painting)	1 No.
21.	Oxy Acetylene welding set complete with cylinder, regulation welding torches with different nozzles	2 Nos.
22.	Gas cylinder trolley with two wheel tyre	1 No.
23.	Vacuum pump two stage self contained with motor portable final vac.0.1 micron with gas ballistic value 0.9 splash reducing non-return value cap1/2 HP	1 No.
24.	Charging cylinder stainless steel portable cc & mm scale compensation for vol. fluctuation with pressure release value gauge etc.	1 No.
25.	Charging manifold with values & gauges	2 Nos.
26.	Capillary plug gauge	2 Nos.
27.	 I. Evacuating & Refrigerant charging station comprising: a) Rotary two stage vacuum pump and motor (with gas ballast & anti suck back) Manifold with gauges & valves and capable of pulling vacuum upto 50 microns of Hg and with provision of connecting to a micron level vacuum gauge 	1 No.
	 b) Graduated charging cylinder with provisions for temperature correction and all necessary isolating calves. II. Evacuating & charging station as above but fitted with weighing scale (upto 2 kg. in lieu of (b) above and with accuracy of +/- 1gram, for 	1 No.
	charging hydrocarbons.	
28.	Anemometer (Vane type)	1 No.

29.	Pressure testing tank with lighting arrangement,	1 No.
20	pressure gauge (0 to 35 kg/sq.cm) double stage	4 81
30.	Heating kit infra red bulb (200 watt. Capacity)	1 No.
31.	Air conditioning plant, direct and indirect water	1 No.
	chiller, complete with all controls including	
	humidity control etc. capacity 15000k.Cal/hr/ or	
	working trainer model/ simulator. Alternatively a	
	packaged Air-conditioner of similar capacity.	
32.	Reciprocating compressor with provision of	1 No.
	capacity control etc. capacity 3000k.Cal/hr. semi	
	Hermetic/open type	
33.	Micron vacuum gauge capable of reading upto 20	2 Nos.
	microns	
34.	Sensor thermometer (digital)	2 Nos.
35.	Fin straightener/Fin comb	4 Nos.
36.	HC refrigerant in cyclers/disposable containers	2 Nos.
37.	134 A refrigerant in cylinders- 10kg & 2.5kg	2 Nos.
38.	Recovery unit one each for CFC & 134 A	2 Nos.
	refrigerants with recovering of cylinders	
39.	Reverse cycle AC/Heat pump 3000kcal/hr of	1 No.
	4500kcal/hr	
40.	Split type AC 4500kcal/hr with Indoor unit &	1 No.
	outdoor unit and electronic remote control	
41.	No frost refrigerant 300 litre capacity using HC	1 No.
	refrigerant	
42.	N2 in cylinder drier unit and 2 stage regular	1 No.
43.	Trichloroethylene bottle	1 No.
44.	Two way manifold with gauges	1 No.
45.	Four way manifold with gauges	1 No.
46.	Filter driers for CFC-22 & HFC-134a for repairs	4 set
	retrofits	
47.	Sealed ex-proof components for use in HC	4 Nos.
	appliances: Thermostats, Sealed PLPS, Solid State	
	PTCs, Door Switches, Lamp Holders	
48.	Shell and tube, DX chillers (small)	1 No.
49.	Circulating water pump (small)	2 Nos.
50.	Schraeder valve core removal tool	2 Nos.
51.	Acid test kit	2 Nos.
52.	Refractometer	1 No.
53.	Hand formers & 20g capacity lock former	1 No.
54.	Pop rivet gun	1 No.
55.	Brazing alloy rods for ¼" to 7/8" tubes-Cu to Cu,	2 kg
	Cu to steel, Cu to brass and appropriate fluxes	each
	(in Kg.)	Cucii
56.	Pitot tube & inclined tube manmeter	1 No.
50.	There eads a mannea tabe manneer	1 1401

57.	Ball valves, service valve, hand shut off valves of	4 Nos.
	1/4" to 3/8", 1/2", 5/8", 3/4", 7/8"	each
58.	Quick couplers, process tube adaptors for ¼",	4 Nos.
	3/8" tubes	each
59.	Compressor tester for small hermetic compressors	1 No.
60.	Hermetic compressors 1.5 (AC)	1 No.
61.	Evaporator of direct cooled refrigerator with	1 No.
	capillary, heat exchanger	
62.	Evaporator of frost free refrigerator	1 No.
63.	Accessories: thermostatic expansion valve,	3 set
	distributors dries (pencil solid core type etc.)	
	accumulators, receivers, bellows type	
	thermostats, H.P stat, L.P. stat, humidity stat,	
	solenoid valves (in Set)	
64.	Full knock down kit for split & window AC on	1 No.
	display board	each
65.	Spares to maintain the normal operations of	One set
	machine for two years. Ensure the spares list	
	include all the items/ parts those are required to	
	be replaced during the course of normal running	
	of machine, due to their wear & tear.	
66.	Raw material & consumables required for	One lot
	conducting training programme for one year after	
	the installation & commissioning of machines at	
	site.	
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Note:

The aspects mentioned below must be noted while submitting bids for the above mentioned plant and machinery / equipments:

- a) All machines / equipment should be compatible with 220 V Single Phase, 380 V Three Phase - 50 cycle per second supply. Electrical wiring for interconnection of the machines upto main supply wherever necessary should be supplied along with machines.
- b) In case foundation of the machine is required for installation, necessary foundation bolts, pads, washers etc. should be supplied along with foundation drawing.
- c) All machines should be supplied with electricals, raw material handling alongwith working tools.
- d) List out the technical specification, additional equipment required, if any, for smooth running of the project.

e) All machines should be complete and ready for production of stated capacity and should be supplied with operation and maintenance manual.

The detailed tender document can be obtained free of cost from Chief Manager (TID) at the above address. The tender document can also be downloaded from NSIC website www.nsic.co.in. Any clarification on technical specifications can be obtained in writing from NSIC before tender opening. Manufacturers are welcome to have pre-bid meeting with NSIC for better understanding our requirements.

Please submit your lowest quotation / offer for the above requirement subject to our terms and conditions. Your offer should be submitted to General Manager (TID), National Small Industries Corporation Limited, NSIC Bhawan, Okhla Industrial Estate, New Delhi-110020 latest by 25th November, 2013 till 5:00 P.M. Offers received after the last date and scheduled time shall not be considered.

The format for technical bid and financial bid shall be as per Annexure-I and Annexure-II respectively. The offer should be submitted with a covering letter as per format at Annexure-III in a sealed envelope clearly mentioning the above tender number on top of the envelope.

The technical bid shall be opened on 26th November, 2013 at 2:30 P.M. in the presence of authorized representatives of the bidders who may like to be present. The authorized representative should bring authority letter from their principals for attending the bid opening.

Note: The vendor should submit their best price while submitting their bids itself and they will not be allowed to revise the price any time thereafter.

NSIC reserves the right to reject one or all of the bids without assigning any reasons.

KINDLY READ ALL TERMS AND CONDITIONS OF "TENDER DOCUMENT" THOROUGHLY. QUOTATION NOT IN ACCORDANCE WITH THE TERMS AND CONDITIONS IS LIABLE TO BE DISQUALIFIED AND IGNORED.

General Manager (TID)

Important Instructions to bidders for submission of tender

1) Preparation of Bids:

The bids should be prepared in the following manner:-

- a. The Bid shall be neatly arranged, plain and intelligible.
- b. Each page of the bid should be signed by the authorised person. Letter regarding the authorisation of such person should be obtained from the Principal / Manufacturer and enclosed with the bid.
- c. Insertions, postscripts, additions and alterations shall not be recognized, unless confirmed by bidder's signature.
- d. Bids should not contain any terms and conditions, printed or otherwise, which are not applicable to the Bid.
- e. Any conditional bid not adhering to the terms & conditions of the tender or part bid shall be rejected.
- f. The bidder should be the Principal / Original manufacturers / Authorised dealers (who carry Authorisation certificate from Principal Manufacturer) of plant & machinery/ equipment, failing which the quotation shall not be considered.
- g. The bidders should have executed at least three purchase orders / contracts of equivalent value in the last five years. The bidder is required to submit catalogue of the plant & machinery/ equipment, complete reference of the past supply of equipment for the same or similar specification giving details of customer with name of the contact person, Fax no, phone no, E-mail.
- h. The bidders will have to submit ink-signed offer / bid in original to NSIC. **Bids not complying with this condition shall not be considered**.
- i. In the Financial Bid, prices are to be indicated in both figures and words. In case of any discrepancy of value the prices quoted in words shall be considered for evaluation and establishing L1 status.
- j. No price variation clause will be entertained.

- k. Specifications are the basic essence of the "Product". Mere copying of the tender specifications by the Bidder into their bids shall not make them eligible for consideration. Appropriate and sufficient evidence of conformity by way of data (catalogues etc.) shall be furnished. There should be an item-by-item commentary on the Specifications demonstrating responsiveness of the offered equipment to the specifications.
- I. Bid with any pre-conditions (like conditional discounts) for price are liable to be "Not considered/Rejected".

2) Submission of Bids:

- a. Bids must be received by NSIC on or before the due date and time at the address specified in the tender document. In the event of the specified date for the submission of bids being declared a holiday for NSIC, the bid-closing deadline will stand extended to the next working day up to the same time.
- b. Any bid received by NSIC after the deadline for submission of bids, will not be accepted and returned unopened to the bidder.
- c. NSIC at its discretion may extend the deadline for the submission of bids if the bid document undergoes changes during the bidding period, in order to give prospective bidders time to take into consideration the amendments while preparing their bids.
- d. In case of receipt of inadequate numbers of bids, NSIC may extend the deadline for submission of bids giving opportunity to other bidders to participate in the bidding process to make it competitive.
- e. If the Supplier submits only one envelop / cover containing all the bids or combined bids e.g. techno-commercial bid & price bid together, the bid is liable for rejection.
- **NOTE:** The manufacturers should submit their best price at this stage itself and they will not be allowed to revise the price. Any revision / discount given by manufacturers subsequently will be ignored.

3) Amendment of Bidding Documents:

- a. At any time prior to the deadline for submission of bids, NSIC may, for any reason, whether on its own initiative or in response to the clarification request by a prospective bidder, modify the bid document.
- b. All prospective bidders who have requested for the bidding document will be notified of the amendment in writing, and such amendments/ modifications will be binding on them.

4) Bid opening and evaluation of Bids:

- a. The technical bids shall be opened on 26th November, 2013 at 2:30 P.M.
- b. Bidder whose technical bid is qualified based on the eligibility criteria as specified in this tender document will be considered for financial bid evaluation. The date and time of opening of the financial bid will be informed to such bidders.
- c. NSIC will open financial bids of only the technically qualified, in the presence of the bidders or their authorised representative who choose to attend the bid opening.
- d. The bidder's authorised representative who attends the bid opening shall sign an attendance register as a proof of having attended the bid opening.
- e. The bidder's name, bid prices, discounts and such other details will be announced at the time of opening of the financial bids.

5) Award of Contract

- a. The financial bids of the technically qualified bidders shall be opened by the constituted committee. Thereafter the committee shall prepare the comparative statement (CST) based on the FOR, ICD, Tughlakabad, New Delhi price quoted by the bidders. This will facilitate to shortlist the L-1 bidder quoting the lowest price.
- b. L-1 will be decided on the basis of total value of the bid.

- c. NSIC shall award the contract to the eligible bidder whose financial bid has been accepted and determined as the lowest evaluated financial bid.
- d. If more than one bidder happens to quote the same lowest price, NSIC reserves the right to award the contract to any one bidder.
- e. Supply order shall be placed for supply of machinery and equipment required at Kigali. The bidder shall deposit 'Security Deposit' for Rs. 16,000/- (Rupees Sixteen Thousand only) for supply orders placed.
- f. The successful bidder, on award of contract/order, must send the contract/order acceptance in writing, within 7 days of award of contract/order, failing which the EMD will be forfeited.

6) <u>Interpretation of the clauses in the Tender Document / Contract Document</u>

In case of any ambiguity / dispute in the interpretation of any of the clauses in this Tender Document, NSIC's interpretation of the clauses shall be final and binding on all parties.

7) <u>Earnest Money Deposit:</u>

- a. The units registered with Central Purchase Organization (DGS&D), National Small Industries Corporation (NSIC) or the concerned Ministry or Department shall be exempted from the payment of Earnest Money as defined under Rule 157 of General Financial Rules (GFR), 2005.
 - In such case, copy of the certificate showing registration with the above mentioned institutions to be enclosed alongwith the Technical Bid.
- b. In case, the unit is not covered under a. above, it should submit the offer along with Earnest Money Deposit (EMD) for Rs. 16,000/- (in words Rupees Sixteen thousand only) by way of Demand Draft (DD) drawn in favour of "National Small Industries Corporation Limited" payable at New Delhi for one set of goods only (even in case the bidder is quoting for more than one set). No cash / cheque towards EMD shall be accepted. The DD for EMD should be placed inside the envelope containing technical bid. The offers without EMD shall be rejected.

- c. The EMD of unsuccessful bidder shall be refunded within 30 days from the award of contract.
- d. No interest will be allowed for earnest money deposited with the Company.
- e. The EMD shall be forfeited:
- 1. If the bidder withdraws the bid during the period of bid validity specified in the tender.
- 2. If the successful bidder fails to furnish the acceptance in writing, within 7 days of award of contract/order.

8) <u>Security Deposit</u>

- a. The EMD of successful bidder shall be kept as 'Security Deposit' for supply of goods against each supply order and shall be released at the time of final payment after successful completion of work.
- b. In case of bidder exempted from payment of EMD (as mentioned in Para 7 a. above), 'Security Deposit' for Rs. 16,000/- by way of demand draft in favour of "National Small Industries Corporation Limited" payable at New Delhi should be submitted alongwith order acceptance against each supply order. However, the successful bidder can furnish a Bank Guarantee of Nationalized Bank of equivalent amount in lieu of 'Security Deposit' valid for one year from the date of supply order.

9) Prices:

All items are to be quoted in INR only in the format as per Annexure-II. The price quoted should be inclusive of sea worthy packing, insurance and freight on FOR, ICD, Tughlakabad, New Delhi basis. **The prices should also be inclusive of all taxes and duties as applicable**. The price quoted shall be considered firm and no price escalation shall be permitted.

10) Validity of the Quote:

The validity of quote should be at least six months (180 days) from the closing date of tender. A bid valid for a shorter period shall stand rejected.

NSIC may ask for the bidder's consent to extend the period of validity. Such request and the response shall be made in writing only. A bidder agreeing to the request for extension will not be permitted to modify his bid.

11) Delivery period:

The goods shall be delivered to NSIC's C&F agent at Delhi (or any other place as specified by NSIC) within 60 days from the date of award of contract. Part delivery shall not be permitted. Separate dispatch instruction shall be issued after inspection of goods and acceptance thereof by NSIC. No other delivery terms shall be acceptable.

12) Taxes / Duties:

- a. The bidders should be registered with sales tax / income tax department of Govt. of India and should hold a valid VAT registration certificate, as applicable.
- b. Sales tax, excise duty, VAT, octroi or any other tax shall be paid on actual as per rule applicable and on production of documentary proof. No tax concession form or proof of shipment of goods shall be issued.

13) Payment terms:

- a. 100% of order value to be released on submission of following documents:
 - i. Signed commercial Invoice-two copies certifying that the goods are exactly as per the purchase order and the specification quoted.
- ii. One copy of NSIC supply order.
- iii. Proof of delivery of the consignment to our C&F agent.
- iv. Clean report of findings issued by NSIC.
- v. Packing list two copies duly signed.

14) Packing & Marking:

Consignment must be packed in Sea Worthy in strong packing cases, taking all precaution against damage during handling and sea weather corrosion.

Proper marking on the packing cases should be made for smooth handling of consignment. The supplier will be held

responsible for the plant and machinery / equipments not being sufficiently and properly packed and in such eventuality the supplier shall have to transport them by rail, road at their destination, at his expense free from loss or damage.

Every package delivered under our order shall at the expense of the supplier be distinctly marked with description and quantity or contents with the consignee name and address (which shall be notified subsequently) with gross weight and net weight, with the distinctive number and mark which is also to be shown for the purpose of identification on the suppliers packing account.

Each packet shall contain a packing note quoting a number and date of our order and showing its contents in detail.

15) Pre-Shipment Inspection:

The plant and machinery / equipment to be supplied and packing thereof shall be subject to inspection by NSIC or third party (name shall be conveyed to the successful bidder) at manufacturer's premises prior to dispatch thereof. Approval and clean report of findings shall be submitted at the time of claiming 100% payment. Machinery & equipment including packing boxes shall be offered by the awarded unit for inspection at least 10 days before the stipulated date of delivery. Deviations, if any pointed out by the visiting inspection team, as mentioned above, shall be corrected and the machinery and equipment as per specification shall be dispatched on or before the contract delivery date.

The quality of machinery / equipments / tools / spares / raw materials shall be of good quality suitable for export. In case quality of goods found to be inferior during inspection, the whole consignment or part thereof shall be rejected without assigning any reasons. Accordingly, the supply order shall be treated as cancelled without any liability on NSIC.

16) <u>Insurance:</u>

All goods are to be insured for 110% of the FOR value of the goods by successful bidder from the works to warehouse of our C&F agent at Delhi.

17) <u>Technical Documents:</u>

The awarded unit shall provide technical documents like operation and maintenance manual etc. in English language in three copies for each items of equipment. Two copies to go with the consignment, one copy to be forwarded to NSIC office.

18) Risk Purchase:

In case of delays in supplies / defective supplies or nonfulfillment of any other terms and conditions given in the Supply Order, NSIC may cancel the supply order in full or part thereof, and may also make the purchase of such material from elsewhere / alternative source at the risk and cost of the supplier.

In case vendor does not agree to above risk purchase clause, their offer is liable to be rejected. In case any vendor accepts risk purchase clause initially and subsequently declines to honour the term in the eventuality of RISK PURCHASE, they may be banned for business with NSIC.

19) <u>Cancellation of Bids</u>

- a. NSIC reserves the rights to cancel any bid without assigning any reasons.
- b. NSIC reserves the rights to cancel bids and refloat a fresh tender, at any time after opening of the bids, in case it finds the response to its bid are not meeting its requirement. This shall be at the sole discretion of NSIC.

20) Blacklisting / Debarring of Firm

- a. Units blacklisted by any Government Departments / PSUs are not eligible to participate in the tender.
- If the unit(s) commits breach of contract, it shall be black listed / debarred for further business with NSIC for a declared period.

21) Post Tender Negotiations

- a. NSIC reserves the right to conduct negotiations on the `Price' and 'other commercial terms' with the lowest ranked offerer, and
- b. If so required by NSIC, supplier may have to share their cost data / costing sheet with NSIC.

22) Force Majeure

If at any time during the currency of this contract, the performance in whole or in part, by either party of any obligations under this contract shall be prevented or delayed by reason, of any war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, explosions, quarantine, restrictions or acts of GOD (hereinafter referred to as events), then provided notice of happening of any such events is given by either party to other within ten days from the date of occurrence thereof, neither party shall reason of such events be entitled to terminate this contract nor shall either party have any such non performance and delay is resumed as soon as practicable after such events has come to an end or ceased to exist. If the performance in whole or part of any obligation under this contract is prevented or delayed by reason or any such event claims for extension of time shall be granted for period considered reasonable by the purchaser subject to prompt notification by the seller to the purchaser of the particulars of the events and supply to the purchaser if required of any supporting evidence. Any waiver of time in respect of partial installment shall not be deemed to be a waiver of time in respect of remaining deliveries.

Annexure-I

Format for technical bid

SI. No.	Tender requirements	Quantity	Compliance (Yes/No)		
One	set of Air Conditioners Repairing & Ref	rigeration			
(Mad	(Machinery & Equipment) for Supply at Kigali (Rwanda)				
cons	isting of the following:				
1.	Pressure Gauge, diameter 63mm recalibration	3 Nos.			
	set, screw, scale 0 to 35 kg/sq.cm				
2.	Compound gauge diameter 63mm recalibration set, screw, scale 0 to 35 kg/sq.cm	3 Nos.			
3.	Serviceman thermometer in metal case -30 to +30 degree C.				
4.	Sling psychrometer mounter on aluminium back scale -50 to +50 degree portable in leather case	3 Nos.			
5.	Electronic Gas leak detector for R22 and R134A	2 Nos.			
6.	Refrigerant cylinder capacity 2.5kg	4 Nos.			
7.	Refrigerant cylinder capacity 30kg (R-22, R-600)				
8.	Gas charging station complete with two stage vacuum pump, charging cylinder	1 No.			
9.	Gauge manifold with valves and gauge -R-12 / R-12 for gas charging (TCE).	2 Nos.			
10.	Dial thermometer remote control armoured 2 Nos.				
	capillary dial 75mm-50 deg. C to 50 deg. C				
11.	Comfort dial type hygrometer 0 to 100	2 Nos.			
12.	Dial thermometer, remote control armoured capillary, dia 21/2" -40 deg. F = 120deg. F	2 Nos.			
13.	Temperature & humidity meter	2 Nos.			
14.	Vacuum thermo couple gauge 1 to 3000 microns	2 Nos.			
15.	Velocity meter with extension handle air lock – Digital	2 Nos.			
16.	Scriubing block, universal, spindle 200mm	1 No.			
17.	Air compressor two stage for oil less dry air with rust proof tank assembling heater and controls max. pressure 10kg/sq.cm cap. 45lts, Motor 1HP	1 No.			
18.	Scraper, triangular blade removable 60mm	1 No.			
19.	Descaling pump set complete with stainless steel impeller and housing complete with motor 1HP-HV AC Unit	1 No.			

20.	Spray outfit, V twin, with motor ½ HP deliver	1 No.	
	upto 4 CFT free air pressure upto 40 PSI with		
	spray gun and fitting (For painting)		
21.	Oxy Acetylene welding set complete with	2 Nos.	
	cylinder, regulation welding torches with		
22	different nozzles	4 81	
22.	Gas cylinder trolley with two wheel tyre	1 No.	
23.	Vacuum pump two stage self contained with	1 No.	
	motor portable final vac.0.1 micron with gas		
	ballistic value 0.9 splash reducing non-return		
24	value cap1/2 HP	1 N	
24.	Charging cylinder stainless steel portable cc &	1 No.	
	mm scale compensation for vol. fluctuation with		
25	pressure release value gauge etc.	2 Naa	
25.	Charging manifold with values & gauges	2 Nos.	
26.	Capillary plug gauge	2 Nos.	
27.	I. Evacuating & Refrigerant charging station		
	comprising:	1 No.	
	a) Rotary two stage vacuum pump and motor	I NO.	
	(with gas ballast & anti suck back) Manifold		
	with gauges & valves and capable of pulling		
	vacuum upto 50 microns of Hg and with		
	provision of connecting to a micron level vacuum gauge		
	b) Graduated charging cylinder with provisions	1 No.	
	for temperature correction and all	I NO.	
	necessary isolating calves.		
	fiecessary isolating carves.		
	II. Evacuating & charging station as above but		
	fitted with weighing scale (upto 2 kg. in lieu		
	of (b) above and with accuracy of +/-		
	1gram, for charging hydrocarbons.		
28.	Anemometer (Vane type)	1 No.	
29.	Pressure testing tank with lighting	1 No.	
	arrangement, pressure gauge (0 to 35		
	kg/sq.cm) double stage		
30.	Heating kit infra red bulb (200 watt. Capacity)	1 No.	
31.	Air conditioning plant, direct and indirect water	1 No.	
	chiller, complete with all controls including		
	humidity control etc. capacity 15000k.Cal/hr/		
	or working trainer model/ simulator.		
	Alternatively a packaged Air-conditioner of		
	similar capacity.		

32. Reciprocating compressor with provision of capacity control etc. capacity 3000k.Cal/hr. semi Hermetic/open type 33. Micron vacuum gauge capable of reading upto 20 microns 34. Sensor thermometer (digital) 2 Nos. 35. Fin straightener/Fin comb 4 Nos. 36. HC refrigerant in cyclers/disposable containers 2 Nos. 37. 134 A refrigerant in cylinders- 10kg & 2.5kg 2 Nos. 38. Recovery unit one each for CFC & 134 A refrigerants with recovering of cylinders 39. Reverse cycle AC/Heat pump 3000kcal/hr of 4500kcal/hr with Indoor unit & 0 outdoor unit and electronic remote control 41. No frost refrigerant 300 litre capacity using HC refrigerant 42. N2 in cylinder drier unit and 2 stage regular 1 No. 43. Trichloroethylene bottle 1 No. 44. Two way manifold with gauges 1 No. 45. Four way manifold with gauges 1 No. 46. Filter driers for CFC-22 & HFC-134a for repairs retrofits 47. Sealed ex-proof components for use in HC appliances: Thermostats, Sealed PLPS, Solid State PTCs, Door Switches, Lamp Holders 48. Shell and tube, DX chillers (small) 1 No.
semi Hermetic/open type 33. Micron vacuum gauge capable of reading upto 20 microns 34. Sensor thermometer (digital) 2 Nos. 35. Fin straightener/Fin comb 4 Nos. 36. HC refrigerant in cyclers/disposable containers 2 Nos. 37. 134 A refrigerant in cylinders- 10kg & 2.5kg 2 Nos. 38. Recovery unit one each for CFC & 134 A 2 Nos. refrigerants with recovering of cylinders 39. Reverse cycle AC/Heat pump 3000kcal/hr of 4500kcal/hr 40. Split type AC 4500kcal/hr with Indoor unit & 1 No. outdoor unit and electronic remote control 41. No frost refrigerant 300 litre capacity using HC refrigerant 42. N2 in cylinder drier unit and 2 stage regular 1 No. 43. Trichloroethylene bottle 1 No. 44. Two way manifold with gauges 1 No. 45. Four way manifold with gauges 1 No. 46. Filter driers for CFC-22 & HFC-134a for repairs retrofits 47. Sealed ex-proof components for use in HC appliances: Thermostats, Sealed PLPS, Solid State PTCs, Door Switches, Lamp Holders
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 37. 134 A refrigerant in cylinders- 10kg & 2.5kg 38. Recovery unit one each for CFC & 134 A refrigerants with recovering of cylinders 39. Reverse cycle AC/Heat pump 3000kcal/hr of 4500kcal/hr 40. Split type AC 4500kcal/hr with Indoor unit & 1 No. outdoor unit and electronic remote control 41. No frost refrigerant 300 litre capacity using HC refrigerant 42. N2 in cylinder drier unit and 2 stage regular 43. Trichloroethylene bottle 44. Two way manifold with gauges 45. Four way manifold with gauges 46. Filter driers for CFC-22 & HFC-134a for repairs retrofits 47. Sealed ex-proof components for use in HC appliances: Thermostats, Sealed PLPS, Solid State PTCs, Door Switches, Lamp Holders
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appliances: Thermostats, Sealed PLPS, Solid State PTCs, Door Switches, Lamp Holders
State PTCs, Door Switches, Lamp Holders
State PTCs, Door Switches, Lamp Holders
49. Circulating water pump (small) 2 Nos.
50. Schraeder valve core removal tool 2 Nos.
51. Acid test kit 2 Nos.
52. Refractometer 1 No.
53. Hand formers & 20g capacity lock former 1 No.
1 b/1 Don rivet dun
54. Pop rivet gun 1 No.
55. Brazing alloy rods for ¼" to 7/8" tubes-Cu to 2 kg
55. Brazing alloy rods for ¼" to 7/8" tubes-Cu to Cu, Cu to steel, Cu to brass and appropriate 2 kg each
55. Brazing alloy rods for ¼" to 7/8" tubes-Cu to Cu, Cu to steel, Cu to brass and appropriate fluxes (in Kg.) 2 kg each
55. Brazing alloy rods for ¼" to 7/8" tubes-Cu to Cu, Cu to steel, Cu to brass and appropriate 2 kg each
55. Brazing alloy rods for ¼" to 7/8" tubes-Cu to Cu, Cu to steel, Cu to brass and appropriate fluxes (in Kg.) 56. Pitot tube & inclined tube manmeter 1 No.
55. Brazing alloy rods for ¼" to 7/8" tubes-Cu to Cu, Cu to steel, Cu to brass and appropriate fluxes (in Kg.) 56. Pitot tube & inclined tube manmeter 57. Ball valves, service valve, hand shut off valves 4 Nos.
55. Brazing alloy rods for ¼" to 7/8" tubes-Cu to Cu, Cu to steel, Cu to brass and appropriate fluxes (in Kg.) 56. Pitot tube & inclined tube manmeter 57. Ball valves, service valve, hand shut off valves of ¼" to 3/8", ½", 5/8", ¾", 7/8" 2 kg each
55. Brazing alloy rods for ¼" to 7/8" tubes-Cu to Cu, Cu to steel, Cu to brass and appropriate fluxes (in Kg.) 56. Pitot tube & inclined tube manmeter 57. Ball valves, service valve, hand shut off valves of ¼" to 3/8", ½", 5/8", ¾", 7/8" 58. Quick couplers, process tube adaptors for ¼", 4 Nos.
55. Brazing alloy rods for ¼" to 7/8" tubes-Cu to Cu, Cu to steel, Cu to brass and appropriate fluxes (in Kg.) 56. Pitot tube & inclined tube manmeter 1 No. 57. Ball valves, service valve, hand shut off valves of ¼" to 3/8", ½", 5/8", ¾", 7/8" 58. Quick couplers, process tube adaptors for ¼", 3/8" tubes 2 kg each
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55. Brazing alloy rods for ¼" to 7/8" tubes-Cu to Cu, Cu to steel, Cu to brass and appropriate fluxes (in Kg.) 56. Pitot tube & inclined tube manmeter 57. Ball valves, service valve, hand shut off valves of ¼" to 3/8", ½", 5/8", ¾", 7/8" 58. Quick couplers, process tube adaptors for ¼", 3/8" tubes 59. Compressor tester for small hermetic compressors
55. Brazing alloy rods for ¼" to 7/8" tubes-Cu to Cu, Cu to steel, Cu to brass and appropriate fluxes (in Kg.) 56. Pitot tube & inclined tube manmeter 1 No. 57. Ball valves, service valve, hand shut off valves of ¼" to 3/8", ½", 5/8", ¾", 7/8" 58. Quick couplers, process tube adaptors for ¼", 3/8" tubes 59. Compressor tester for small hermetic compressors 60. Hermetic compressors 1.5 (AC) 1 No.
55. Brazing alloy rods for ¼" to 7/8" tubes-Cu to Cu, Cu to steel, Cu to brass and appropriate fluxes (in Kg.) 56. Pitot tube & inclined tube manmeter 57. Ball valves, service valve, hand shut off valves of ¼" to 3/8", ½", 5/8", ¾", 7/8" 58. Quick couplers, process tube adaptors for ¼", 3/8" tubes 59. Compressor tester for small hermetic compressors

62.	Evaporator of frost free refrigerator	1 No.	
63.	Accessories: thermostatic expansion valve, distributors dries (pencil solid core type etc.) accumulators, receivers, bellows type thermostats, H.P stat, L.P. stat, humidity stat, solenoid valves (in Set)	3 set	
64.	Full knock down kit for split & window AC on display board	1 No. each	
65.	Spares to maintain the normal operations of machine for two years. Ensure the spares list include all the items/ parts those are required to be replaced during the course of normal running of machine, due to their wear & tear. (please specify each item with detailed specifications / quantity - use separate sheet)	One set	
66.	Raw material & consumables required for conducting training programme for one year after the installation & commissioning of machines at site. (please specify each item with detailed specifications / quantity - use separate sheet)	One lot	

Enclosures:

- 1. Company profile with catalogues.
- 2. Detailed specification of all items mentioned above.
- 3. Copy of purchase orders/ contracts of similar nature and size in the last five years.
- 4. Copy of Pan Card / Sales tax / VAT registration certificate.
- 5. Copy of SSI / MSME Memorandum part II / NSIC registration certificate, if applicable.
- 6. Demand draft for Rs. 16,000/- as EMD.
- 7. Authorization letter in favour of authorized signatory from the bidder.

Annexure-II

Financial price schedule

SI. No.	Description and Technical specification		Price (INR)	Tax & Duties (INR)	Total price (FOR, Delhi) (INR)
	t of Air Conditioners Repairing & Refrig		(Machir	nery & Equ	ipment) for
Supply	at Kigali (Rwanda) consisting of the following	lowing:			
1.	Pressure Gauge, diameter 63mm recalibration set, screw, scale 0 to 35 kg/sq.cm	3 Nos.			
2.	Compound gauge diameter 63mm recalibration set, screw, scale 0 to 35 kg/sq.cm	3 Nos.			
3.	Serviceman thermometer in metal case -30 to +30 degree C.	3 Nos.			
4.	Sling psychrometer mounter on aluminium back scale -50 to +50 degree portable in leather case	3 Nos.			
5.	Electronic Gas leak detector for R22 and R134A	2 Nos.			
6.	Refrigerant cylinder capacity 2.5kg	4 Nos.			
7.	Refrigerant cylinder capacity 30kg (R-22, R-600)	2 Nos.			
8.	Gas charging station complete with two stage vacuum pump, charging cylinder	1 No.			
9.	Gauge manifold with valves and gauge -R-12 / R-12 for gas charging (TCE).	2 Nos.			
10.	Dial thermometer remote control armoured capillary dial 75mm-50 deg. C to 50 deg. C	2 Nos.			
11.	Comfort dial type hygrometer 0 to 100	2 Nos.			
12.	Dial thermometer, remote control armoured capillary, dia 21/2" -40 deg. F = 120deg. F	2 Nos.			
13.	Temperature & humidity meter	2 Nos.			
14.	Vacuum thermo couple gauge 1 to 3000 microns	2 Nos.			
15.	Velocity meter with extension handle air lock – Digital	2 Nos.			

1.0	Caritalein a labada contra de anticola	4 NI -
16.	Scriubing block, universal, spindle 200mm	1 No.
17.	Air compressor two stage for oil less	1 No.
	dry air with rust proof tank	
	assembling heater and controls max.	
	pressure 10kg/sq.cm cap. 45lts,	
	Motor 1HP	
18.	Scraper, triangular blade removable	1 No.
	60mm	
19.	Descaling pump set complete with	1 No.
	stainless steel impeller and housing	
	complete with motor 1HP-HV AC Unit	
20.	Spray outfit, V twin, with motor ½ HP	1 No.
	deliver upto 4 CFT free air pressure	
	upto 40 PSI with spray gun and fitting	
	(For painting)	
21.	Oxy Acetylene welding set complete	2 Nos.
	with cylinder, regulation welding	
	torches with different nozzles	
22.	Gas cylinder trolley with two wheel	1 No.
	tyre	
23.	Vacuum pump two stage self	1 No.
	contained with motor portable final	
	vac.0.1 micron with gas ballistic value	
	0.9 splash reducing non-return value	
	cap1/2 HP	
24.	Charging cylinder stainless steel	1 No.
	portable cc & mm scale compensation	
	for vol. fluctuation with pressure	
	release value gauge etc.	
25.	Charging manifold with values &	2 Nos.
	gauges	
26.	Capillary plug gauge	2 Nos.
27.	I Evacuating & Refrigerant	
	charging station comprising:	
	a) Rotary two stage vacuum pump	1 No.
	and motor (with gas ballast & anti	
	suck back) Manifold with gauges	
	& valves and capable of pulling	
	vacuum upto 50 microns of Hg	
	and with provision of connecting	
	to a micron level vacuum gauge	1 No.
	b) Graduated charging cylinder with	
	provisions for temperature	
	correction and all necessary	
	isolating calves.	
L	J	

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	II. Evacuating & charging station as			
	above but fitted with weighing			
	scale (upto 2 kg. in lieu of (b)			
	above and with accuracy of +/-			
	1gram, for charging hydrocarbons.			
28.	Anemometer (Vane type)	1 No.		
29.	Pressure testing tank with lighting	1 No.		
	arrangement, pressure gauge (0 to			
	35 kg/sq.cm) double stage			
30.	Heating kit infra red bulb (200 watt.	1 No.		
50.	Capacity)	1 110.		
31.	Air conditioning plant, direct and	1 No.		
51.	- • · · ·	I NO.		
	indirect water chiller, complete with			
	all controls including humidity control			
	etc. capacity 15000k.Cal/hr/ or			
	working trainer model/ simulator.			
	Alternatively a packaged Air-			
	conditioner of similar capacity.	4 81		
32.	Reciprocating compressor with	1 No.		
	provision of capacity control etc.			
	capacity 3000k.Cal/hr. semi			
	Hermetic/open type			
33.	Micron vacuum gauge capable of	2 Nos.		
	reading upto 20 microns			
	Sensor thermometer (digital)	2 Nos.		
	Fin straightener/Fin comb	4 Nos.		
36.	HC refrigerant in cyclers/disposable	2 Nos.		
	containers			
37.	134 A refrigerant in cylinders- 10kg &	2 Nos.		
	2.5kg			
38.	Recovery unit one each for CFC & 134	2 Nos.		
	A refrigerants with recovering of			
	cylinders			
39.	Reverse cycle AC/Heat pump	1 No.		
	3000kcal/hr of 4500kcal/hr			
40.	Split type AC 4500kcal/hr with Indoor	1 No.		
	unit & outdoor unit and electronic			
	remote control			
41.	No frost refrigerant 300 litre capacity	1 No.		
1.1.	using HC refrigerant	1 110.		
42.	N2 in cylinder drier unit and 2 stage	1 No.		
72.	regular	1 110.		
43.	Trichloroethylene bottle	1 No.		
44.		1 No.		
	Two way manifold with gauges	t - t		
45.	Four way manifold with gauges	1 No.		

46.	Filter driers for CFC-22 & HFC-134a	4 set	
	for repairs retrofits		
47.		4 Nos.	
	in HC appliances: Thermostats,		
	Sealed PLPS, Solid State PTCs, Door		
	Switches, Lamp Holders		
48.	Shell and tube, DX chillers (small)	1 No.	
49.		2 Nos.	
50.	Schraeder valve core removal tool	2 Nos.	
51.		2 Nos.	
52.	Refractometer	1 No.	
53.	3 ,	1 No.	
	former		
54.	, , ,	1 No.	
55.	Brazing alloy rods for ¼" to 7/8"	2 kg	
	tubes-Cu to Cu, Cu to steel, Cu to	each	
	brass and appropriate fluxes (in		
	Kg.)	4.51	
	Pitot tube & inclined tube manmeter	1 No.	
57.	,	4 Nos.	
	off valves of $\frac{1}{4}$ " to $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ ",	each	
58.	3/4", 7/8"	4 Nos.	
56.	Quick couplers, process tube adaptors for $\frac{1}{4}$ ", $\frac{3}{8}$ " tubes	each	
59.	•	1 No.	
	compressors		
60.	Hermetic compressors 1.5 (AC)	1 No.	
61.	Evaporator of direct cooled	1 No.	
	refrigerator with capillary, heat		
	exchanger		
62.	Evaporator of frost free refrigerator	1 No.	
63.	•	3 set	
	valve, distributors dries (pencil solid		
	core type etc.) accumulators,		
	receivers, bellows type thermostats,		
	H.P stat, L.P. stat, humidity stat,		
6.1	solenoid valves (in Set)	1 No	
64.	•	1 No. each	
Total :	AC on display board price FOR, ICD, Tughlakabad, New	eacii	
_	(Sl. No. 1 to 64)		
Dellii ((Sir Hur I to OT)		

Lump sum price of one set of machinery & equipment (FOR, ICD,	
Tughlakabad, New Delhi: Rs.	
(in words Rupees:)

Spares & Raw Materials

SI. No.	Description and Technical specification	Qty.	Price (INR)	Tax & Duties (INR)	Total price (FOR, Delhi) (INR)
65.	Spares to maintain the normal operations of machine for two years. Ensure the spares list include all the items/ parts those are required to be replaced during the course of normal running of machine, due to their wear & tear. (please specify price of each item with detailed specifications & quantity-use separate sheet).	set			
66.	Raw material & consumables required for conducting training programme for one year after the installation & commissioning of machines at site. (please specify price of each item with detailed specifications & quantity-use separate sheet).				

Note: The above price should be inclusive of sea-worthy packing, transportation and insurance and Taxes & Duties etc. No tax concession form or proof of shipment of goods shall be issued.

Annexure-III

Format of covering letter

Ref. No.:.....
Date:.....

General Manager (TID) National Small Industries Corporation Limited NSIC Bhawan, Okhla Industrial Estate, New Delhi-110020.				
Ref.: Tender No SIC/HO/TID/AU/12-88 dated 7 th November, 2013 for supply of one set of Air Conditioners Repairing & Refrigeration (Machinery & Equipment) at Kigali (Rwanda).				
Dear Sir,				
With reference to above tender notice, we are submitting herewith our offer for above as per following documents:				
1. Technical bid in prescribed format as Annexure-I in sealed envelope no.1 alongwith enclosures (No financial figures should be mentioned directly or indirectly in technical bid).				
2. EMD for Rs. 16,000/- in the form of Demand Draft in favour of "National Small Industries Corporation Limited" payable at New Delhi along with technical bid in an envelope marked "EMD' placed inside sealed envelope no.1.				
3. Financial bid in prescribed format in sealed envelope no.2.				
We hereby agree to fully abide by all the terms & condition of this tender.				
Thanking you,				
Yours faithfully,				
Name Designation				

Annexure-IV

Proforma for Bank Guarantee

In consideration of the National Small Industries Corporation Ltd. (NSIC), Okhla Industrial Estate, New Delhi (hereinafter called the 'Company') having agreed to exempt
'Contractor' which term includes Suppliers for the purpose of this Bond) from the demand under the terms and conditions of an Agreement date Made between
called the said 'Agreement') of Security Deposit for the due fulfillment by the said Contractor of the terms and conditions contained in the said Agreement, on production of a Bank Guarantee for Rs (Rupeesonly).
a. We,
b. We,
c. We undertake to pay to the Company any money so demanded notwithstanding any dispute or disputes raised by the Contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto our liability under this present being

Signature of Bidder
Seal of Bidder

absolute and unequivocal.

discharge of our liability for payment there under and the Contractor(s) shall have no claim against us for making such payment.
d. We,
e. We,
f. This guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).
g. We,(indicate the name of the bank) lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Company in writing.
Dated the day of For (indicate the name of the bank)

The payment so made by us under this bond shall be a valid