



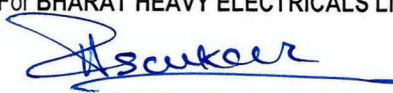
An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT / MATERIALS MANAGEMENT

ENQUIRY		Phone: +91 431 257 7421 / 7360	
NOTICE INVITING TENDER		Email : vkarna@bhel.in ajayasalkar@bhel.in	
		Web : www.bhel.com	
TWO PART BID	Enquiry Number:	Enquiry Date:	Due date for submission of quotation:
Tender to be submitted in two Parts	2601800009	02.05.2018	25.05.2018
You are requested to quote the Enquiry number date and due date in all your correspondence. This is only a request for quotation and not an order. Please note that under any circumstances both delayed offer and late offers will not be considered. Hence vendors are requested to ensure that the offer is reaching physically our office before 14.00 hrs on the Date of tender opening.			
Item	Description		Quantity
10	Three Phase 4 Ton Cassette AC		02 Nos.
20	Three Phase 3 Ton Cassette AC		06 Nos.
30	Single Phase 2 Ton Split AC		68 Nos.
40	Floor Mounting 2T Split AC		03 Nos.
	as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)		
Important points to be taken care during submission of offer 1. Compliance Form No: TRY/ IND/ 06 to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation. 2. Delivery period required is 1 months from the date of P.O for all above line item. 3. Commissioning and performance prove out shall be done at BHEL Trichy by the supplier 4. Time period required for commissioning and performance prove out shall be 3 weeks from the date of intimation by BHEL 5. EMD for this tender Rs.1,50,000/- 6. Vendor shall visit WRI / BHEL, Trichy before submitting his quotation for determining actual quantum of work. 7. All updates, amendments, corrigenda, etc., (if any), for each tender will be posted only on the above websites from time to time, as and when required, until each tender is opened. There will be no publication of such updates, amendments, corrigenda, etc., through newspapers or any other media. BHEL's General guidelines / instructions (refer MM/CE/GENL/001- EMD), compliance form and technical specification can be downloaded from BHEL web site http://www.bhel.com or from the Government tender website http://tenders.gov.in (public sector units > Bharat Heavy Electricals Limited page) under Enquiry reference.			
(This is not an e-tender, Please submit your offer in hard copies) Tenders should reach us before 14:00 hours on the due date Tenders will be opened at 14:30 hours on the due date Tenders would be opened in presence of the tenderers who have submitted their offers and who may like to be present		Yours faithfully, For BHARAT HEAVY ELECTRICALS LIMITED  AJAY V. ASALKAR Sr. MANAGER MM / Capital Equipment Sr. Manager / MM - Capital Equipment BHEL, Tiruchirappalli - 620 014	

PART A: - Procurement of AC as per specifications.**SECTION – I: QUALIFYING CRITERIA**

The BIDDER has to compulsorily meet the following requirements to get qualified for considering the technical offer:

S.No.	REQUIREMENTS	VENDOR's RESPONSE
1.0	Bidders shall pursue carefully the instructions and directions to parties in tendering and the conditions of the agreement and all other relevant documents before tendering the rates for the work. The approximate quantity of work to be executed under each clause is given in the schedule. The quantities are given with a view to enable tenderer to quote his overall rate for each class of work in the tender form and for a uniform comparison of tenders. It shall be definitely understood that BHEL does not accept any responsibilities for the correctness or completeness of this schedule and the schedule is liable to alternations by omissions, deductions or additions at the discretion of accepting authority. In case of any doubts/clarifications, he is advised to approach WRI before tender submission.	
2.0	The Bidder must satisfy himself by personal study and examination of the specifications furnished and understand thoroughly the scope of proposed work in detail and all conditions affecting the work before entering into the contract. There shall not be at any time, dispute/complaint of any misunderstanding with regard to nature or omission of the work to be done nor shall any application for compensation in terms of time and money shall be accepted by BHEL regarding the above.	
3.0	Before quoting rates for the work, the tenderer shall inspect the site of work (WRI) and should satisfy himself about the nature and scope of work to be executed. BHEL will not, however, after acceptance of a contract rate, pay extra charges for any other reason. In case the bidder is found later on to have misjudged the nature and scope of the work and also the availability of materials. No separate scheme will be provided in this regard for estimation.	
4.0	Bidder shall be deemed to have included in his tender price of all the appliances required for the purpose of all operations connected with the work embraced under the contract to secure a satisfactory quality of work and rate of progress which in the opinion of the "Contract Signing Officer" will ensure the completion of the work within the time specified. No supplementary tools/accessories/human resources will be provided by WRI/BHEL towards this work completion.	
5.0	Average annual financial turnover during the last 3 years, ending 31st March of the previous financial year, should be at least 50% of the estimated cost.	

S.No.	REQUIREMENTS	VENDOR's RESPONSE
6.0	Particulars of experience / credentials for the works executed of similar nature during last 5 years ending last day of month previous to the one in which applications are invited should be either of the following: a. Three similar completed works costing not less than the amount equal to 30% of the estimated cost (or) b. Two similar completed works costing not less than the amount equal to 40% of the estimated cost (or) c. One similar completed work costing not less than the amount equal to 50% of the estimated cost.	
7.0	The Bidder should submit the following documentary evidence in support of similar works experience: Work award copy, Contract Agreement copy and certificate of satisfactory completion of work indicating contract period, scope of work and value of contract, work completion certificate.	
8.0	Period for completion of work is maximum of 7 weeks.	
9.0	Quantities mentioned for labour requirements are approximate and may be operated fully or partially. Charges/Bill will be paid to the extent of work completion. The decision of final work content is at the discretion of Engineer/M&S/WRI and cannot be disputed.	
10.0	The work so far as it is to be carried out in the Company's premises shall be carried out at such time as the Company may approve and so as not to interfere with the conduct of Company's business, but the Company shall give the bidder all reasonable facilities for carrying out the work	
11.0	The bidder shall not resort to subcontracting under any circumstances. If found subcontracting at a later date, BHEL reserves the right to take whatever action it deems fit, including cancellation of the contract.	
12.0	Any statutory increase in the labour wages during the period of execution shall be borne by the agency. The agency shall quote the rates considering the possible labour wages escalation also.	
13.0	The bidder is wholly responsible for loss of life or partial disability of any of their employees while on duty. In case of occurrence of any accident/ injury to bidder labour, BHEL will not pay any compensation. Bidder shall indemnify BHEL against all such costs resulting out of accident to his employees.	
14.0	The bidder shall submit the daily progress report to the concerned Engineer-in-charge.	
15.0	The Tenderer should quote the unit rate per operation in the price bid. If the unit rate is not quoted, the offer shall be rejected. BHEL will not work back for unit rate. Offers will be evaluated based upon unit rate	
16.0	Bidder shall have sufficient pool of experienced manpower in various semiskilled jobs.	
17.0	Bidder shall obtain prior approval/permission of contract executing officer for engaging contract workers on extra hours/over time.	

S.No.	REQUIREMENTS	VENDOR's RESPONSE
18.0	Upon award of the work, within 7 (seven) days the party has to execute an agreement with BHEL as per model contract before commencement of work.	
19.0	The company does not expressly or by implication agree that the actual amount of the work to be done shall correspond there with, but reserves the right to increase or decrease the quantity of any item or portion of the work as it deems necessary.	
20.0	Supervision of contract work force shall be monitored by contract supervisor. Bidder and supervisor shall be available whenever required. All decisions on quantity/extent of work/ disputes will be reported to Engineer/M &S/WRI and his decision will be deemed final.	
21.0	The Bidder should furnish details and submit a Photostat copy: (i) A valid Labour licence issued by Central Labour Commissioner/competent authorities(central). In case Labour license is not available the same can be submitted before commencement of work. (ii) PF code (if available), in case PF code is not available the same can be submitted before commencement of work. (iii) ESI code (iv) Income Tax PAN number. (v) Service Tax Registration number.	
22.0	The Bidder shall provide the required safety equipment like helmets, uniform, safety belt, safety shoes, hand gloves, Nose mask etc., to the contract labourers engaged by him. All sorts of safety measures to be taken shall be deemed to form an integral part of the agreement and non-compliance with safety requirement amounts to breach of the contract.	
23.0	Bidder has to obtain work permit for "working at heights above 3 meters' height from ground level" wherever applicable.	
24.0	All tools, tackles, lifting appliances, scaffolds, cradles, safety nets, ladders, equipment etc. used by the bidder shall be safe design and construction. The authorized BHEL officials shall have the right to ban the use of any item, if such use is considered to be dangerous by the concerned BHEL officials. Bidder shall provide all material at his cost as mentioned in the contract to his employees for carrying out the job.	

Part-B:**a) Technical Specification for Supply, Installation, Testing and Commissioning of Three Phase 4 Ton Cassette Air Conditioners, Qty. : 02 Nos**

S. No	Technical specification / description		Vendor's Response
A.1	Supply, Installation & commission of 02 Nos. of Ceiling mounted, Three Phase, 4 Ton Cassette AC at WRI/BHEL, Trichy.	Vendor to confirm	
A.2	Latest BEE Rating (Valid from 01/01/2018 to 31/12/2019): Minimum 3 star	Vendor to confirm & specify	
A.3	Make of split type AC: VOLTAS / PANASONIC / LLYODS / CARRIERS / BLUESTAR / HITACHI/ Daihen / O General / LG or any other brand acceptable to BHEL.	Vendor to confirm & specify	
A.4	Rated Cooling capacity: (Not below 47000BTU)	Vendor to confirm & specify	
A.5	Rated Voltage: 415 AC	Vendor to confirm	
A.6	Rated Frequency/phase: 50Hz /1Ph	Vendor to confirm	
A.7	Rated Current – Cooling - Amps	Vendor to specify	
A.8	Rated Power Input: -Cooling - watts	Vendor to specify	
A.9	Refrigerant to be used: R22 / Non-CFC only	Vendor to confirm & specify	
A.10	Compressor type (Scroll / rotary)	Vendor to specify	
A.11	Indoor Unit Dimensions – (WxHxD) and weight	Vendor to specify	
A.12	Indoor Unit Dimensions – (WxHxD) and weight	Vendor to specify	
A.13	Panel Display: LED	Vendor to confirm	
A.14	Remote Display: LED	Vendor to confirm	
A.15	Thermostat and Timer: Must support auto on/off on temperature setting, must support timer based auto on/off feature	Vendor to confirm	
A.16	Auto restart: Must support auto restart after power cuts	Vendor to confirm	

S. No	Technical specification / description		Vendor's Response
A.17	Noise Level – Less than 40 dBA for indoor unit, less than 50 dBA for outdoor unit	Vendor to specify	
A.18	All the 02 Nos. of Three Phase 4 Ton Cassette AC shall be of same make, model and BEE validity period. Catalogue of the manufacturer in support of model no for which the price quoted, must be enclosed.	Vendor to confirm	
A.19	Wall Bracket, actual length of connecting copper pipes, actual length of PVC drain pipes, Electrical cables and other material necessary for Installation & commissioning should be provided with each ac unit.	Vendor to confirm	
A.20	Installation: Mounting/ Fitting indoor & outdoor units at the respective locations as per standard practice including Leak testing and additional refrigerant charge if required. Quantity: 02 Nos	Vendor to confirm & specify	
A.21	Warranty: • Minimum ONE Year on full unit • Minimum FIVE years on Compressor	Vendor to confirm & specify	
A.22	Four quarterly free check –up and service to be done by the supplier during the first year. Vendor to confirm	Vendor to confirm	
A.23	Annual Maintenance Contract: Comprehensive AMC for Split Air Conditioners for a period of 3 years after one year warranty period may be quoted separately	Vendor to confirm	
A.24	The contractor must visit the site and study the working conditions, site conditions, and the quantum of work involved before quoting the rates. No claim of the contractor shall be entertained in under estimation of any items.	Vendor to confirm	

b) Technical Specification for Supply, Installation, Testing and Commissioning of Three Phase 3 Ton Cassette Air Conditioners, Qty.: 06 Nos

S. No.	Technical specification / description		Vendor's Response
B.1	Supply, Installation & commission of 06 Nos. of Ceiling mounted, Three Phase, 3 Ton Cassette AC at WRI/BHEL, Trichy.	Vendor to confirm	
B.2	Latest BEE Rating (Valid from 01/01/2018 to 31/12/2019): Minimum 3 star	Vendor to confirm & specify	
B.3	Make of split type AC: VOLTAS / LLYODS / CARRIER / O General / BLUESTAR / HITACHI or any other brand acceptable to BHEL.	Vendor to confirm & specify	
B.4	Rated Cooling capacity: (Not below 36000BTU)	Vendor to confirm & specify	
B.5	Rated Voltage: 415 AC	Vendor to confirm	
B.6	Rated Frequency/phase: 50Hz /1Ph	Vendor to confirm	
B.7	Rated Current – Cooling - Amps	Vendor to specify	
B.8	Rated Power Input: -Cooling - watts	Vendor to specify	
B.9	Refrigerant to be used: R22 / Non-CFC only	Vendor to confirm & specify	
B.10	Compressor type (Scroll / rotary)	Vendor to specify	
B.11	Indoor Unit Dimensions – (WxHxD) and weight	Vendor to specify	
B.12	Indoor Unit Dimensions – (WxHxD) and weight	Vendor to specify	
B.13	Panel Display: LED	Vendor to confirm	
B.14	Remote Display: LED	Vendor to confirm	
B.15	Thermostat and Timer: Must support auto on/off on temperature setting, must support timer based auto on/off feature	Vendor to confirm	
B.16	Auto restart: Must support auto restart after power cuts	Vendor to confirm	
B.17	Noise Level – Less than 40 dBA for indoor unit, less than 50 dBA for outdoor unit	Vendor to specify	

S. No	Technical specification / description		Vendor's Response
B.18	All the 06 Nos. of Three Phase 3 Ton Cassette AC shall be of same make, model and BEE validity period. Catalogue of the manufacturer in support of model no for which the price quoted, must be enclosed.	Vendor to confirm	
B.19	Wall Bracket, actual length of connecting copper pipes, actual length of PVC drain pipes, Electrical cables and other material necessary for Installation & commissioning should be provided with each ac unit.	Vendor to confirm	
B.20	Installation: Mounting/ Fitting indoor & outdoor units at the respective locations as per standard practice including Leak testing and additional refrigerant charge if required. Quantity: 06 Nos	Vendor to confirm & specify	
B.21	Warranty: - Minimum ONE Year on full unit - Minimum FIVE years on Compressor - During the warranty period, if the compressor fails for any reason whatsoever, there should a "no questions asked no cost to BHEL" replacement including labour charges for work required.	Vendor to confirm & specify	
B.22	Four quarterly free check –up and service to be done by the supplier during the first year. Vendor to confirm	Vendor to confirm	
B.23	Annual Maintenance Contract: Comprehensive AMC for Split Air Conditioners for a period of 3 years after one year warranty period may be quoted separately	Vendor to confirm	
B.24	The contractor must visit the site and study the working conditions, site conditions, and the quantum of work involved before quoting the rates. No claim of the contractor shall be entertained in under estimation of any items.	Vendor to confirm	

c) Technical Specification for Supply, Installation, Testing and Commissioning of Split Air Conditioners of 2 T, Qty: 68 Nos

S. No	Technical specification / description	Vendor's Response
C.1	Supply, Installation & commissioning of single phase 68 Nos. of split type Inverter AC of capacity 2T at WRI/BHEL, Trichy. Vendor to accept & confirm.	
C.2	Latest BEE Rating (Valid from 01/01/2018 to 31/12/2019): 5 Star Vendor to confirm & specify	
C.3	Make of split type AC: VOLTAS / PANASONIC / LLYODS / CARRIERS / O General / BLUESTAR / HITACHI /LG or any other brand acceptable to BHEL. Vendor to confirm & specify the make & Model	
C.4	All the 68 Nos of split type Inverter AC shall be of same make, model and BEE validity period. Catalogue of the manufacturer in support of model no for which the price quoted, must be enclosed. Vendor to accept & confirm	
C.5	Warranty: • Minimum ONE Year on full unit • Minimum FIVE years on Compressor – During the warranty period, if the compressor fails for any reason whatsoever, there should a “no questions asked no cost to BHEL” replacement including labour charges for work required. Vendor to confirm & specify	
C.6	Four quarterly free check –up and service to be done by the supplier during the first year. Vendor to confirm	
C.7	Supply, Installation & commission of 68 Nos. of Voltage stabilizer suitable for 2 Ton split type Inverter AC at WRI/BHEL, Trichy. Vendor to accept & confirm	
C.7.1	Minimum wattage: 4 KVA Vendor to confirm & specify	
C.7.2	Voltage Range: (a)Lower range (Max. 160 V), (b) Higher range (Min. -280V)	
C.7.3	Warranty: ONE year	
C.7.4	Stabilizer Make: V Guard / LIVGUARD / SKYPOWER / MONITOR / CG Vendor to specify	
C.8	Installation: Mounting/ Fitting indoor & outdoor units at the respective locations as per standard practice including Leak testing and additional refrigerant charge if required. Quantity: 68 Nos	

S. No	Technical specification / description	Vendor's Response
C.9	Running Meter Supply: Supply, installation, testing and commissioning of suitable size copper refrigerant lines (suction and return) including insulation of minimum 13 mm thickness nitrile rubber with aluminum foil covering along with required electrical and control cabling as per standard practice. Quantity: actual quantity	
C.10	Drain Piping: Supply and laying of 35mm-40 mm dia. PVC drain piping as per standard practice including U trap per each AC. Quantity: Actual quantity	
C.11	Annual Maintenance Contract: Comprehensive AMC for Spilt Air Conditioners for a period of 3 years after one year warranty period may be quoted separately	
C.12	The contractor must visit the site and study the working conditions, site conditions, and the quantum of work involved before quoting the rates. No claim of the contractor shall be entertained in under estimation of any items. Vendor to confirm	

d) Technical Specification for Supply, Installation, Testing and Commissioning of Floor Mounting 2T Split AC, Qty: 03 Nos

S. No	Technical specification / description	Vendor's Response
D.1	Supply, Installation & commissioning of single phase 03 Nos. of Floor Mountingsplit type Inverter AC of capacity 2T at WRI/BHEL, Trichy. Vendor to accept & confirm.	
D.2	Latest BEE Rating (Valid from 01/01/2018 to 31/12/2019): 5 Star Vendor to confirm & specify	
D.3	Make of split type AC: VOLTAS / PANASONIC / LLYODS / CARRIERS / O General / BLUESTAR / HITACHI /LG or any other brand acceptable to BHEL. Vendor to confirm & specify the make & Model	
D.4	All the 68 Nos of split type Inverter AC shall be of same make, model and BEE validity period. Catalogue of the manufacturer in support of model no for which the price quoted, must be enclosed. Vendor to accept & confirm	
D.5	Warranty: • Minimum ONE Year on full unit • Minimum FIVE years on Compressor – During the warranty period, if the compressor fails for any reason whatsoever, there should a “no questions asked no cost to BHEL” replacement including labour charges for work required. Vendor to confirm & specify	
D.6	Four quarterly free check –up and service to be done by the supplier during the first year. Vendor to confirm	
D.7	Supply, Installation & commission of 68 Nos. of Voltage stabilizer suitable for 2 Ton split type Inverter AC at WRI/BHEL, Trichy. Vendor to accept & confirm	
D.7.1	Minimum wattage: 4 KVA Vendor to confirm & specify	
D.7.2	Voltage Range: (a)Lower range (Max. 160 V), (b) Higher range (Min. -280V)	
D.7.3	Warranty: ONE year	
D.7.4	Stabilizer Make: V Guard / LIVGUARD / SKYPOWER / MONITOR / CG Vendor to specify	
D.8	Installation: Mounting/ Fitting indoor & outdoor units at the respective locations as per standard practice including Leak testing and additional refrigerant charge if required. Quantity: 03 Nos	

S. No	Technical specification / description	Vendor's Response
D.9	Running Meter Supply: Supply, installation, testing and commissioning of suitable size copper refrigerant lines (suction and return) including insulation of minimum 13 mm thickness nitride rubber with aluminum foil covering along with required electrical and control cabling as per standard practice. Quantity: actual quantity	
D.10	Drain Piping: Supply and laying of 35mm-40 mm dia. PVC drain piping as per standard practice including U trap per each AC. Quantity: Actual quantity	
D.11	Annual Maintenance Contract: Comprehensive AMC for Spilt Air Conditioners for a period of 3 years after one year warranty period may be quoted separately	
D.12	The contractor must visit the site and study the working conditions, site conditions, and the quantum of work involved before quoting the rates. No claim of the contractor shall be entertained in under estimation of any items. Vendor to confirm	

e) Scope of Work for comprehensive AMC of Split AC units and Cassette type AC's (for 3 years after guarantee period of 1 year)

S. No	Description / Requirement	Vendor's Response
E.1	The servicing should be carried out every month and proper record of the same should be maintained with the signatures of the WRI persons concerned.	
E.2	The routine servicing should cover the following activities: a) Checking the supply voltage and power plug of the indoor unit. b) Checking the condition of the compressor like the gas pressure, motor bushings, electrical connection and foundation of the compressor. c) Cleaning of condenser fan, air filter, evaporator etc. d) Oiling wherever necessary in outdoor as well as indoor unit. e) Checking cooling efficiency	
E.3	The CAMC includes replacement of defective/worn out parts with new genuine parts related electronic cards, filters, insulation material if required, compressor, evaporator, condenser etc.	
E.4	Breakdown calls should be attended on priority and there should be no additional charges for such breakdown calls.	
E.5	The outdoor unit of each AC unit must be washed properly once in a week. Overhauling of AC unit at least once in a year at free of cost. The daily activities should be recorded in a log book (or history card) by the technicians.	
E.6	Whenever any AC unit is taken out of the institute for maintenance, the substitute AC unit should be provided by the contractor without any charges towards transportation.	
E.7	The contractor should always maintain the gas cylinder at the institute with sufficient gas in it. Any refilling of the gases in the AC circuit is in the scope of the contractor during the AMC period. All necessary labour and other charges applicable for this purpose should be quoted with the AMC Offer	
E.8	The contractor should take all the required/necessary precautions and observe all the necessary safety measures during the progress of work and to cause the least inconvenience to the occupants.	