

**INDIAN BANK**  
ZONAL OFFICE CHENNAI - NORTH  
NO : 66, RAJAJI SALAI,  
CHENNAI – 600 001.

**PROPOSED A C WORKS BRANCH AND ATM FOR INDIAN  
BANK, AT OLD NO.12, NEW NO.36,  
PULLA AVENUE, CHENNAI-600 030.  
Alternate Premises, Aminjikai branch.**

**A C Work (Branch & ATM)**

**CONSULTANTS:**

**M/S. ARUN ARCHITECTS,  
NEW NO . U-12 OLD NO. U-27  
CHENNAI 600 040.  
PH : 044-42048346  
Mobile: 9444016095**

### NOTICE INVITING TENDER (NIT)

1	Name of the work	Air conditioning works at Indian bank new branch at Old No.12, New No. 36, Pulla Avenue, Chennai-600 030.
	Cost of application/tender document	
3	Time and last date of Submission of tender	Upto 4.00 pm on <b>27.01.2020</b>
4	Place and Address for submission of tender/contact person/telephone no./e-mail address	<b>Deputy General Manager, Indian Bank Zonal office Chennai - North No : 66, Rajaji Salai, Chennai - 600 001</b>
5	Date, Time and place of opening of tenders	On 27.01.2020 at 4.30 pm at the address as detailed in (4) above.
6	Earnest Money Deposit	Rs.3,600 /- in the form of Demand Draft, payable Chennai, drawn in favour of the <b>INDIAN BANK" Zonal office Chennai - North, No : 66, Rajaji Salai, Chennai 600 001.</b>
7	Security deposit	As per clause 19 of Notice Inviting Tender (below)
8	Terms of payment of Bills, if any	No interim bill will be honoured
9	(Penalty clause) Liquidated damages	In case of delay a penalty at the rate of 0.5% of the value of the estimated cost per week subject to a maximum of 5% of value of work done would be strictly imposed.
10	Stipulated time for completion of the work/supply	21 days
11	Validity period of the tender	Three Months
12	Taxes	Rates quoted to include Sales tax, Octroi or any other statutory obligation/tax on material or on finished works like work's contract tax, turn over tax, serviced tax etc., in respect of this contract as applicable including transportation and TA/DA of the workers at site and the Bank will not entertain any claim whatsoever in this respect. However I.T.
13	Electronic payment	Electronic payment shall be preferred.

## NOTICE INVITING TENDER

M/s \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Dear Sirs,

**TENDER FOR AIR CONDITIONING WORKS BRANCH AND ATM FOR INDIAN BANK AT OLD  
NO.12, NEW NO.36, PULLA AVENUE, CHENNAI-600 030.**  
**Alternate Premises, Aminjikarai branch.**

Sealed tender on item rate basis is invited by Indian bank, Zonal office Chennai (North), Chennai - 600 001 from authorized dealers/ manufacturers of room air-conditioners on the approved panel of the bank (for dealers proof of dealership of the firm to be enclosed) for air-conditioning works at its Aminjikarai branch

Tenders will be received till **27-01-2020 up to 4.00 pm** in the office of the **Deputy General Manager, Indian Bank Zonal office Chennai – North, No : 66, Rajaji Salai, Chennai - 600 001**. The tenders will be opened on **27.01.2020 up 4.30 pm**

1. **Tender forms should accompany an Earnest Money Deposit (EMD) of Rs.3,600/-(Rupees Three Thousand Six Hundred only)** in the form of Demand Draft, payable at Chennai, drawn in favour of the **INDIAN BANK” Zonal office Chennai – North , Chennai 600 001** being 1% of the estimated cost of work. The amount of total initial security deposit shall be calculated at the rate of 2% of the accepted value of tender including the EMD and be paid by the contractor to the Bank within 7 days of intimation to him of the acceptance of his tender.
2. In case any agency / firm which is not on the panel but still quotes for the work job, the tender will not be considered even after the tenders are opened and the firm stands L1.
3. The tender document must be filled in English and all the entries must be made by the hand and Written in ink. If any of the documents are missing or un-signed, the tender shall be considered invalid.
4. Each and every page of the tender document must be signed by an authorized person.
5. The tenders must be submitted in the prescribed format only. The tenderer must quote the rate in the schedule of quantities, rates and amount columns only.
6. The contractors should quote in figures as well as in the words the rates, and amount tenders by them. The amount for each item should be worked out and the requisite totals given. Rates quoted by the contractor in item rate tender in figures and words shall be accurately filled in so that there is no discrepancy in the rates, figures and words. However, if a discrepancy is found, the rates which correspond with the amount worked out by the contractor shall be taken as correct. If the contractor does not work out the amount of an item or it does not correspondent with the rate written either in figure or in words then the rates quoted by the contractor in words shall be taken as correct. Where the rates quoted by the contractor in figures and in words tally but the amount is not worked out correctly the rates quoted by the contractor will be taken as correct and not the amount.
7. The quantities indicated in the schedule of quantities are only probable quantities and are liable to alteration by omission, reduction or addition. Payment shall be made on the basis of actual quantities of work done at the accepted rates.
8. The acceptance of a tender will rest with the Competent Authority, who does not bind himself to accept the lowest tender and reserves to himself the authority to reject any or all of the tenders received, without assigning any reasons. All tenders in which any of the prescribed conditions are not fulfilled, or are incomplete in any respect are liable to be rejected.

9. All compensation or other sums of money payable by the Contractor to Clients under the terms of this contract may be deducted from the security deposit, or from any sum that may be or may become due to the Contractor on any account whatsoever and in the event of the Security Deposit being reduced by reasons of any such deductions, the Contractor shall within 10 days of being asked to do make good in cash or by cheque any sum which have been deducted from his security deposit.
10. Tender containing any condition leading to unknown/indefinite liability, are liable to be summarily rejected. If at all any rebate(s) is/are to be offered the tenderer shall first quote his rates strictly on the terms and conditions stipulated in tender document and then show separately rebate(s) offered specifying the conditions for such rebate(s). Failure to follow this procedure will render the tender liable to summarily rejection.
11. Canvassing in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.
12. The tenderer should quote their (own) rates for undertaking the work.
13. No alteration which is made by the tenderer either in drawings / specifications / estimated quantities accompanying the tender will be recognized and if any such alteration is made, the tender is liable for rejection. Remarks and explanations, should be given in a separate cover along with EMD and will become binding only if accepted in writing by the Bank at the time of acceptance of the tender.
14. The tenderer must obtain for himself on his own responsibility and at his own expenses all the information necessary for the purpose of filling this tender and to enter into a contract with the Bank, he must examine the drawings, specifications, conditions etc., and must inspect the site of work and must acquaint himself with all local conditions and matters pertaining there to.
- 15. The rate quoted should be all-inclusive i.e., inclusive of all taxes like Sales Tax, Octroi, any other statutory obligation / tax on material or on finished works like work's contract tax, service tax, turn over tax etc. in respect of this contract, as applicable and shall be payable by the contractor including transportation and TA / DA of the workers at site and the Bank will not entertain any claim whatsoever in this respect.**
- 16. Income Tax will be recovered @ 2.06% plus surcharge or as applicable as per Government Rules.**
17. Retention amount equivalent to 8% of the gross value of work done, subject to a ceiling as detailed below, will be deducted from each running account bill and will be returned to the contractor, without any accrued interest, after one year from the date of virtual completion of the work.
- 18. The total security deposit on the contract, including Earnest Money Deposit, will be calculated as under:**
  - i. 10% on the first Rupees one lakhs of the cost of works.**
  - ii. 7.5% on the next for the next Rupees one lakhs of the works.**
  - iii. 5% on the remaining value of works.**
19. The work so completed will be under a Defect Liability Period of One year from the date of virtual completion.
- 20. Time is the essence of the contract. The work should be completed in 30 days from the date of the work order issued to the contractor / vendor. In the event, the work is not completed within**

the stipulated period; penalty @ 1% per week, subject to a maximum of 10% will be strictly imposed.

21. Tenders for works shall remain open for acceptance for a period of 90 days from the date of opening of tenders. If the tenderer withdraws his tender before the expiry of the said period or makes any modifications in terms and condition of the tender which are not acceptable to the Bank, then the bank without prejudice to any other right or remedy is at liberty to forfeit the earnest money.
22. It will be obligatory on the part of the tenderer to tender and sign the tender documents for all the component parts and that, after the work is awarded, he will have to enter into an agreement for each component with the competent authority in the bank.
23. The tenderer, apart from being a competent contractor must co-ordinate himself with the agencies of appropriate class who are eligible to tender for (I) Electrical and (II) Interior furnishing works.
24. The tenderer should visit the site to ascertain the working conditions and local authority regulations/restrictions if any and other information required for the proper execution of the work.
25. The quantities of various items given in the schedule of quantities are approximate. The quantities of work may vary at time of allotment / execution of work. Bank reserves the right to omit / delete any item(s) of work from the schedule at the time of allotment / before. Contractor will be paid for the actual work done at the site duly verified by the concerned official of the bank.
26. The unit price shall be deemed to be fixed price. In case of extra items, a record of labour charges paid shall be maintained and shall be presented regularly to the Employer's for checking. The settlement will be made based on figures arrived at jointly and taking unit price given in the contract assigned to the successful Tenderer. In case of extra items where similar or comparable items are quoted in the tender, extra rates shall be based on tender rates.
27. The work has to be started within 7 (Seven) Days from the date of receipt of work order. In case of work not being started within this stipulated period, the bank reserves the right to cancel the work order duly forfeiting the Earnest deposit.
28. No employee of the Bank is allowed to work as a contractor for a period of 2 years of his/her retirement from Bank Services without previous permission of the Bank. This contract is liable to be cancelled, if either the contractor or any of his employees is any time to be such a person who had not obtained the permission of Bank as aforesaid before submission of the tender or engagement in the contractor's service.
29. No advance will be granted for the works proposed and no interim bill will considered.
30. Sealed tenders are to be addressed and sent to:

***Deputy General Manager,  
Indian Bank  
Zonal office Chennai – North  
No : 66, Rajaji Salai,  
Chennai –600 001.***

## AIR COOLED SPLIT TYPE AIR CONDITIONERS

### 1.0 GENERAL:

- Air cooled split type air conditioner shall consist of units.
  - Evaporator unit ( indoor unit )
  - Condensing Unit ( Outdoor Unit)
- The evaporator unit comprises evaporator coil, evaporator fan assembly installed together in a single sheet metal casing and with inter-connecting refrigerant piping, refrigerant controls, safety devices, etc., The unit shall be complete with electronic center & control pad incorporating the thermostat & speed control.
- The condensing unit comprise compressor-motor unit, condenser coil, condenser fan, fan control, casing supporting stand etc.,
- Both the evaporator unit and the condensing units shall be factory manufactured.
- The Panel for casing shall be machine pressed and folded. The entire casing shall be factory manufactured, it shall be of robust construction and shall present a neat appearance. The tenderer shall also bring out in their tenders clearly the manufacturing techniques, finishes employed to meet the service conditions involved, etc.,
- The units supplied with control panel incorporating switch fuse units, contactors, over load relays, single phase preventors, push buttons, etc., compressor and condenser fans.

### 2.0 EVAPORATOR UNIT.

- All the components of the evaporator units shall be housed in a sturdy MS / GSS casing. In the case of MS casing, it should be dully painted/treated to resist corrosion, rust and other deleterious effects.
- Removable panels shall be provided to finish access to the cooling coil, fan motor compartments filter to facilitate servicing and maintenance work.
- The fan section shall consist of fan, fan casing (scroll) shaft and driven motor.
- The fan shall be centrifugal type and impeller shall incorporate forward curved blades. The fan shaft and impeller shall be both statically and dynamically balanced.
- The fan scroll shall be designed and shaped to optimize recovery static pressure and maximize efficiency at rated delivery and static pressure
- The fan shall be direct driven by a TEFC squirrel cage induction motor. The tenderer shall confirm electrical characteristics of the motor as required in technical data.
- The fan motor drive etc., shall all be design and mounted so as to minimize noise and vibration.
- The cooling coil shall be of copper tubes and aluminum fins, the concentration shall be not less than 3/cm (8/in).

### 3.0 CONDENSING UNIT:

The unit shall be factory manufactured and shall be suitable for out door installation. It shall comprise compressor unit, condenser coil, fan motor, drive casing supporting stands etc.,

The compressor unit shall consist of direct driven reciprocating compressor with compressor and motor housed in a common shell, it shall be either hermetic or semi-hermetic type. in case the compressor motor is semi-hermetic type, the end plate shall be bolted to the shell.

The compressor shall be suitable for use with R-22 refrigerant.

The tenderer are required to narrate in detail all protective devices, controls and such other features provided for the compressor motor units offered by them, like high temperature protection and over current protection, high and low pressure cut-outs. low oil pressure protection etc.,

The condensing unit shall be installed on a pedestal on the terrace of the building as shown in the drawing. The fan shall be propeller type direct-driven by an electrical motor. The unit shall be mounted in such a manner as to minimise transmission of vibration to the structure using vibration isolation pads, if necessary to secure satisfactory results.

The casing and structure for the condensing unit shall be of robust construction. The panels shall be of heavy gauge hot dip galvanized steel and they shall be machine-pressed and folded. All joints shall be folded joints. The supporting structure shall use only hot dip galvanized sections, i.e. angles channels etc.,

The tenderers shall bring out in any case clearly, (and in detail) the details of construction of the equipment offered by them, highlighting in particular, the thickness and kind of materials used, manufacturing techniques employed, finish provided for whether protection etc.,

Air cooled condensing unit shall incorporate necessary number of propeller fans of adequate size to obtain the required air flow rate under operating conditions. The fan shall be balanced both statically and dynamically. The fan motor shall be of TEFC squirrel cage construction.

The fan motor sets shall be complete with protecting guards.

The condenser coil shall be made of copper tubes and aluminum fans. the coils shall be sized so as to optimize performance with respect to air flow rate, pressure drop, condensing temperature, power consumption etc., thus the values furnished for the parameters of the coil in section III, schedule of equipment shall be regarded as suggested values rather than specified values.

The coils shall be pressure tested for values not less than those indicated below.

Factory test - kg/Sqcm (psi) : 30 (440)

Field test - kg/Sqcm (psi) : 25 (440)

The coils shall be so positioned with respect to the floor level that, dust pick-up by entering air is minimized.

As noted in clause the condensing units have to be installed out door on suitable pedestals or any other appropriate supporting arrangements. Masonry work, if any required for supporting units shall be provided by the owner, but the tenders shall furnish all necessary information including drawings. Further any supports made of MS structural sections if required should be designed, supplied and installed by the air conditioning contractor himself. He shall show the details of such supports in appropriate drawings and shall obtain the approval of the owners/consultants before providing them. The charges for such works shall be included in the prices quoted by the tenderers: in any case, no extra sum will be payable on that account.



**SCHEDULE OF QUANTITIES**

**AIR CONDITIONING WORK**

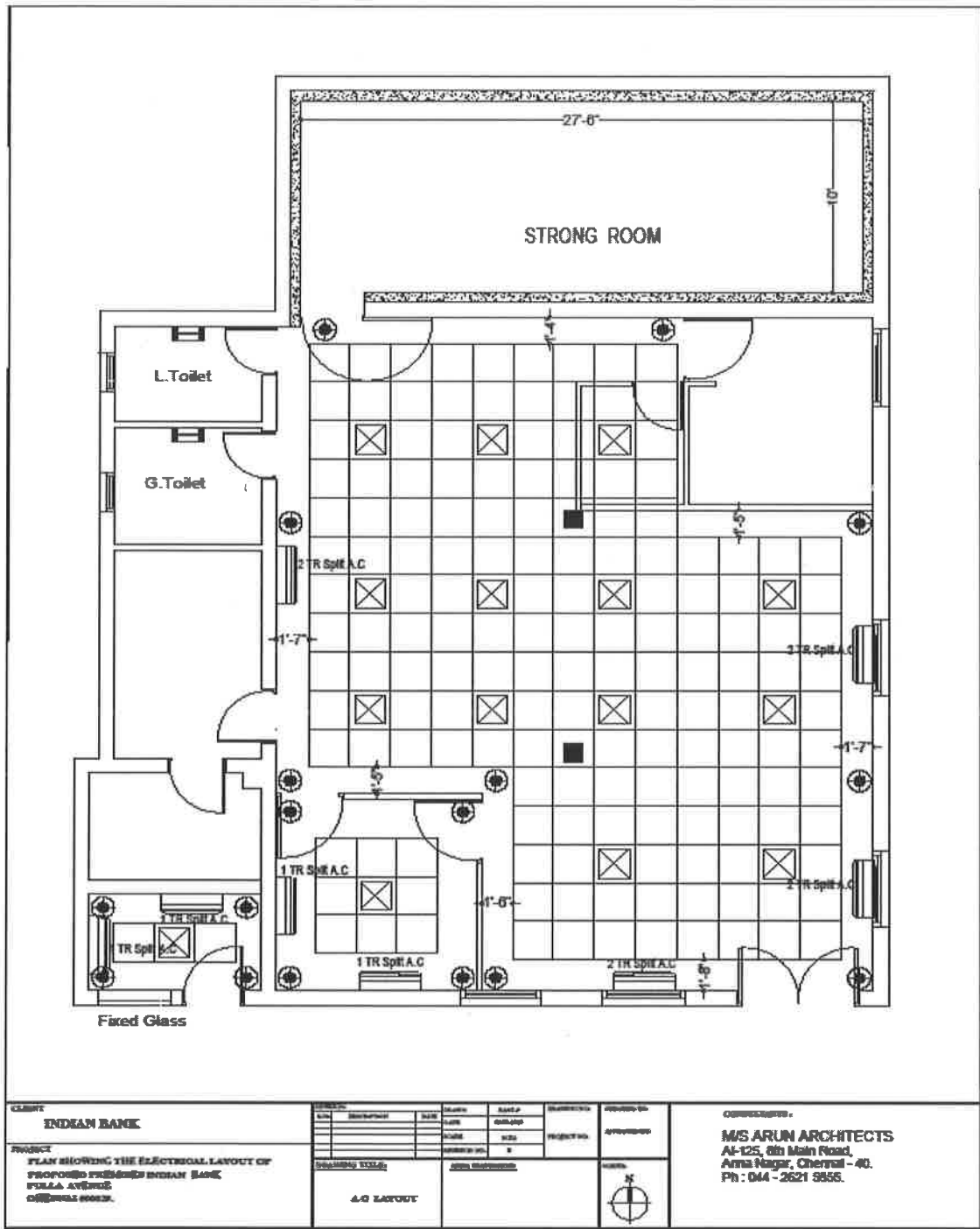
<b>Sl. No</b>	<b>Description</b>	<b>Qty</b>	<b>Rate</b>	<b>Unit</b>	<b>Amount (Rs.)</b>
1	Supplying, installation, testing and commissioning of 3 - Star rated Hi-wall split air-conditioner of 2 TR capacity ( Blue Star Make ) with On Off Timer along with wireless remote controller including providing and laying the standard length of 3m copper, electrical and 25mm dia PVC drain piping including Initial refrigerant charge suitable for 10 Mtrs distance between IDU and ODU along with drilling the holes and packing and making good the damaged surfaces good comprising of the following				
	i) Indoor unit consisting of evaporator coil, ( Copper Make ) blower fan with motor, filters, insulated drain pan etc				
	ii) Outdoor unit consisting of hermetically sealed Rotary Compressor to operate on 230 V, Single Phase, 50 Hz AC Supply, Anti Corrosive Coated Condens or Coil ( Copper Make ) with fan and motor, interconnecting refrigeration piping, starters/controls/cutouts/relays etc., mounted inside a powder coated sheet metal cabinet duly treated for corrosion protection.including control cable connection between IDU to ODU including stands The rate shall be inclusive of MS stands as per vendor specifications to mount the out door units.	4		1No	
2	Supplying, installation, testing and commissioning of 3 -Star rated Hi-wall split airconditioner of 1.0 TR capacity ( Blue Star Make ) with On Off Timer along with wireless remote controller including providing and laying the standard length of 3m copper, electrical and 25m5mm dia cPVC drain piping including Initial refrigerant charge suitable for 10 Mtrs distance between IDU and ODU along with drilling the holes and packing and making good the damaged surfaces good comprising of the following. i) Indoor unit consisting of evaporator coil, ( Copper Coil ) blower fan with motor, filters, insulated drain pan etc. ii) Outdoor unit consisting of hermetically sealed Rotary Compressor to operate on 230 V, Single Phase, 50 Hz AC Supply, Anti Corrosive Coated Condensor Coil ( Copper Coil ) with fan and motor, interconnecting refrigeration piping, starters/controls/cutouts/relays etc., , mounted inside a powder coated sheet metal cabinet duly treated for corrosion protection..including control cable connection between IDU to ODU including stands The rate shall be inclusive of MS stands as per vendor specifications to mount the out door units.	4		1No	
3	Charges for providing additional copper pipes (one circuit) for the above split units with necessary insulation and with adequate pvc insulated copper wire from indoor to outdoor units concealed and taken through beyond the standard 4m length.	60		Rmt	
4	Charges for providing additional 25mm dia CPVC drain pipe concealed / surface mounted and taken through wall/ partition beyond the standard 4m length for the above split units.	75		Rmt	
5	Supply, installation, testing and commissioning of wall mounting 5KVA stablizers ( V- Guard Make ) for 2 .Tr Hi-	4		Each	

	Wall Split Air Conditioning units with input voltage range of 170-270 Volts and output 220 +/- 10% as required				
6	Supply, installation, testing and commissioning of wall mounting 4 KVA stablizers ( V- Guard make ) for 1.5Tr Hi-Wall Split Air Conditioning units with input voltage range of 170-270 Volts and output 220 +/- 10% as required	4		Each	
7	S & I Timer Switch with Contactor (For AC)-25/32 A	2		P/No	
8	GST @ 28% for items 1&2				
9	GST @ 18% for items 3 to 7				
	Total				

**Place:**

**Date:**

**Signature of contractor with Seal**



<b>CLIENT</b> <b>INDIAN BANK</b>	<b>PROJECT</b> PLAN SHOWING THE ELECTRICAL LAYOUT OF PROPOSED 5 STORES INDIAN BANK PILLA AVENUE CHENNAI 600016.		<b>DATE</b> 10/11/2011		<b>PROJECT NO.</b> 10/11/2011		<b>COMPILED BY</b> ARUN ARCHITECTS	
	<b>PROJECT TITLE</b> 4-9 LAYOUT		<b>DATE</b> 10/11/2011		<b>PROJECT NO.</b> 10/11/2011		<b>COMPILED BY</b> ARUN ARCHITECTS	

