SBI INFRA MANAGEMENT SOLUTIONS PVT.LTD.
CIRCLE OFFICE - KOLKATA,
SAMBRIDDHI BHAWAN, 1, STRAND ROAD, KOLKATA– 700001

SBIIMS INVITE TENDERS ON BEHALF OF SBI
FOR
AIRCONDITIONING FOR AVANI HEIGHTS COMPLEX, GROUND FLOOR BANKING AREA, 59A CHOWRINGHEE ROAD, KOLKATA.

PRICE BID OF THOSE VENDORS WILL ONLY BE OPENED WHO WILL BE QUALIFIED IN TECHNICAL BID EVALUATION

DETAILS OF ELIGIBILITY CRITERIA (WITHOUT RELEVANT DOCUMENTS, VENDORS WILL NOT BE TECHNICALLY ELLIGIBLE) IS MENTIONED SEPARATELY IN ANNEXURE -1 FOR PRE-QUALIFICATION OF VENDORS.

HVAC CONSULTANT:
M/S AIRTECH CONSULTANCY SERVICES
DH , 6/35 MARTIN BURN I-SPACE 1, NEWTOWN , KOLKATA-156
PHN: 9836901108 , EMAIL ID: acs6555@gmail.com

LAST DATE OF SUBMISSION OF BID: UPTO 3:00 PM ON 12/07/2019
TENDER ID: KOL201907001

NOTICE INVITING e-TENDERS

SBIIMS On Behalf Of SBI Invites “Online Item Rate E-Tender For Air-conditioning For Avani Heights, Ground Floor From Well-Established And Reputed Indian Firm Having Experience In VRF Work For HVAC System Allied Work (Office Of The Firm Should Be Located In KMDA Area) Minimum 3 Years (The Order Copy Of Previous Works Should Be Enclosed) Through Online E-Tender Portal. https://Etender.Sbi

Details of tenders are as under:

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Name of work</td>
<td>AIR CONDITIONING FOR AVANI HEIGHTS, GROUND FLOOR BANKING AREA, 59A CHOWRINGHEE ROAD, KOLKATA.</td>
</tr>
<tr>
<td>3.</td>
<td>Time allowed for completion</td>
<td>35 days from date of issue of work order or date of handing over the site for execution of work whichever is later.</td>
</tr>
<tr>
<td>4.</td>
<td>Tender Processing Fee (TPF)</td>
<td>Fee Rs. 3,000/- (Rupees Three Thousand Only) to be credited through STATE BANK COLLECT (SB Collect an efficient MIS report generation tool) only. The steps involved in making the payment is provided at Annexure-A. The receipt generated with reference no. to be submitted along with Technical bid. GST number of contractor to be mentioned on it. (TDC is nonrefundable)</td>
</tr>
<tr>
<td>5.</td>
<td>Estimated Cost</td>
<td>Rs. 27.72 Lacs (excluding GST)</td>
</tr>
<tr>
<td>6.</td>
<td>Earnest Money Deposit</td>
<td>Rs. 28,000/- (Twenty-eight Thousands only) (Valid for a period of 90 Days from the last date of submission of the tender) from any scheduled Nationalized Bank drawn in favour of SBI Infra Management Solutions Pvt. Ltd. Payable at Kolkata should submit at the office of Vice President &amp; Circle Head SBI Infra Management Solutions Pvt. Ltd. Circle Office Kolkata, D Block, 9th Floor, Sambriddhi Bhawan, 1, Strand Road, Kolkata – 700001 Before the date of tender (Technical Bid) opening. In case the EMD is not received within the aforesaid period, the bid will be out rightly rejected.</td>
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<tr>
<td>7.</td>
<td>Initial Security Deposit</td>
<td>2% of contract amount including EMD (in favor of SBI)</td>
</tr>
<tr>
<td>8.</td>
<td>Total Security deposit</td>
<td>5% of the final bill amount including ISD.</td>
</tr>
</tbody>
</table>
**TENDER ID: KOL201907001**

<table>
<thead>
<tr>
<th></th>
<th>Availability of Tender Documents</th>
<th>Tender documents to be downloaded from the Bank’s website or SBI e-tender portal <a href="https://etenders.sbi">https://etenders.sbi</a></th>
</tr>
</thead>
</table>
| 10. | Documents to be Submitted Along with Technical Bid: | 1. Original Copy of DD of EMD  
2. Original Copy of DD of TDC / Challan Copy of Online Payment receipt.  
3. Process Compliance Report as per Annexure –2 of NIT.  
4. **EXPERIENCE CERTIFICATE**  
5. **COPY OF ITR (FOR LAST THREE YEARS)**  
6. **COPY OF GST , PAN, TRADE LICENCE CERTIFICATE**  
7. **SOLVENCY CERTIFICATE OF RS 4.00 LACS (MINIMUM)** |
| 11. | Start Date of start of submission of Online bid- | **From 3.00 PM on 03.07.2019** |
| 12. | Last date of submission of bid including EMD & Tender Cost along with Cover 1 (Technical Bid) & Price bid (in online mode) | **Up to 3.00 PM on 12.07.2019** |
| 13. | Date and time of opening of technical bid (EMD + Technical Bid) | **12.07.2019 up to 4:00 PM** |
| 14. | Date of opening of Price Bid: | **WILL BE DECLARED LATER IN DUE COURSE OF TIME** |
| 15. | For any details, please contact | **Vice President & Circle Head**  
**SBI Infra Management Solutions Pvt. Ltd.**  
**Circle Office Kolkata, Sambriddhi Bhawan, 1, Strand Road, Kolkata – 700001.**  
**Mobile No.: +91 9959226068**  
**e-Mail: md.alam12@sbi.co.in** |
| 16. | For e-Tender related queries | **Service provider:**  
M/s. E-procurement Technologies Limited  
(abc procurement/ Auction Tiger)  
B-705, Wall Street- II,  
Opp. Orient Club, Ellis Bridge,  
Near Gujarat College, Ahmedabad- 380006, Gujarat  
**Help Desk:**  
Contact Persons: **Geeta Goutam**, M: +91 6354919566 | T: +91 79 68136814 Email:geeta@auctiontiger.net  
**Sujith Nair** (Shark ID – ~SUJITHN) | Sr. Executive – Implementation & Support  
e-Procurement Technologies Limited Contact: sujith@eptl.in | Phone: +91-79-68136857 | 6863 | 6835 | 6829 | 6831 | 6840 (Mon-Fri working Hours 10 AM to 7 PM) (Sat working hours 10AM to 4PM) |
| 17. | Liquidated Damages | 0.50% of contract amount per week subject to max. 5% of contract value or final bill value. |
| 18. | Defects liability period | 12 Months from the date of Virtual Completion |
| 19. | Validity of offer | 90 days from the date of opening of Price-bid |
**TENDER ID: KOL201907001**

| 20 (a) | Value of Interim Certificate | Only Final bill will be release. No interim payment will be released before the completion of work. |
| 20 (b) | Corrigendum | To be followed as per [https://etender.sbi portal only](https://etender.sbi) |

21. Tender Notice (NIT) can be downloaded from the bank’s website [www.sbi.co.in](http://www.sbi.co.in) under Procurement News or SBI e-tender portal [https://etender.sbi](https://etender.sbi).

22. The contractor shall require digital signature certificate with signing and encryption to participate in the tender.

23. No conditions other than mentioned in the tender will be considered, and if given they will have to be withdrawn before opening of the price-bid.

24. The SBIIMS Pvt. Ltd. reserve their rights to accept or reject any or all the tenders, either in whole or in part without assigning any reason(s) for doing so and no claim / correspondence shall be entertained in this regard.

25. **Tenders received without EMD and Cost of Tender Documents shall be summarily rejected And such tenders shall not be allowed to participate in Tendering process.**

26. In case the date of opening of tenders is declared as a holiday, the tenders will be opened on the next working day at the same time.

27. SBIIMS Pvt. Ltd. has the right to accept / reject any / all tenders without assigning any reasons and no correspondence shall be entertained in this regard.

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Yours Faithfully,

Vice President & Circle Head
SBI Infra Management Solutions Pvt. Ltd.
Circle Office Kolkata,
Samriddhi Bhawan, Block-D, 9th Floor,
1, Strand Road, Kolkata – 700001.
ANNEXURE-1

PRE QUALIFICATION CRITERIA

1) Firm should have full-fledged service set up in Kolkata and should have at least 10 years of experience in handling Project of similar nature of HVAC system with minimum 40 TR.

2) Firm should have a registered office along with service station at Kolkata. Detail Organization chart of the Company and work order copy of such installations should be furnished duly signed by authorized signatory.

3) Firm should have qualified and trained manpower to do trouble shooting of VRF make being quoted.

4) Firm should be OEM or authorized dealer for VRF Unit only. For Authorized dealers, Certification of Authorization from OEM Mentioning the Installation & Service Capability of the Dealers for VRF should be submitted along with Tender.

5) **Firm participating in the tender should not be a joint venture company.**

6) Credential furnished by the vendor should not be from a joint venture company. It should be in the name of the firm participating in this tender.

7) Firm should have valid ISO 9001:2008 certification. ISO certificate shall be furnished.

8) Firm should have valid electrical license.

9) Firm should not have incurred in any loss in any year during the last 3 financial years 2018-19, 2017-18, 2016-17. Certificates from Chartered accountant shall be furnished in this regard.

10) Total Estimated project cost is around 27.72 lacs. Firm should submit the completion certificate of similar work completed should be 80% of Estimated cost i.e 22.16 lacs for one job or Two similar work of 50% i.e 13.86 lacs for Two Jobs and Three Similar job of work value 30% i.e 8.9 lacs for Three Jobs, along with the tender.

11) The Firm should have valid GST, PAN, and Trade License, ESI, PF. All copy of Trade license, GST, Pan Card, PF & ESI Registration along with IT Return, Bank Details etc needs to be submitted along with tender.

1.2 ELIGIBILITY CRITERIA OF VENDORS

Only such contractors who fulfill the aforesaid eligibility criteria need apply. Joint ventures and/or consortium are not allowed and acceptable.

**NOTE:**

1. PLEASE SUBMIT ALL THE DOCUMENTS RELATED TO TECHNICAL ELIGIBILITY [COPY OF ITR (FOR LAST THREE YEARS) , EXPERIENCE CERTIFICATE, GST , PAN, TRADE LICENCE, ESI & PF, SOLVENCY CERTIFICATE OF RS 4.00 LACS (MINIMUM) TO BE SUBMITTED ALONG WITH THE OFFER]. IN HARD COPY AT THE OFFICE OF SBI INFRA MANAGEMENT SOLUTIONS PVT. LTD., CO-KOLKATA OFFICE

2. PRICE BID CAN BE SUBMITTED IN ONLINE MODE ONLY.
PROCESS COMPLIANCE STATEMENT (ANNEXURE-2)
(The bidders are required to print this on their company’s letter head and sign, stamp and submit with technical bid)

To,
M/s. E-procurement Technologies Limited

AGREEMENT TO THE PROCESS RELATED TERMS AND CONDITIONS FOR AIR-CONDITIONING FOR AVANI HEIGHTS, GROUND FLOOR BANKING AREA.

Dear Sir,

This has reference to the Terms & Conditions for the E-tendering mentioned in the Tender document
This letter is to confirm that:
1) The undersigned is authorized representative of the company.
2) We have studied the Commercial Terms and the Business rules governing the E-tendering as mentioned in RFP of SBIIMS Pvt. Ltd. as well as this document and confirm our agreement to them.
3) We also confirm that we have taken the training on the E-tendering tool and have understood the functionality of the same thoroughly.
4) We confirm that SBIIMS Pvt. Ltd. and M/s. e-Procurement Technology, shall not be liable & responsible in any manner whatsoever for my/our failure to access & bid on the e-E-tendering platform due to loss of internet connectivity, electricity failure, virus attack, problems with the PC, any other unforeseen circumstances etc. before or during the E-tendering event.
5) We confirm that we have a valid digital signature certificate issued by a valid Certifying Authority.
6) We, here by confirm that we will honour the Bids placed by us during the E-tendering process.

With regards

Date:

Signature with company seal

Name: Company / Organization:

Designation within Company / Organization:

Address of Company / Organization:
TECHNICAL SPECIFICATION

AIRCONDITIONING WORK FOR AVANI HEIGHTS, GROUND FLOOR, 59A CHOWRINGHEE ROAD, KOLKATA.

MEP CONSULTANT: AIRTECH CONSULTANCY SERVICES, MARTIN BURN I SPACE, 5TH FLOOR, OFFICE-A1, KOLKATA-700156

- INTRODUCTION

This specification covers the minimum requirements for the engineering, procurement, installation and commissioning of the HVAC system to be provided inside the GROUND FLOOR AT AVANI HEIGHT.

STANDARD SPECIFICATION

1.1 SCOPE OF WORK

The complete scope of work shall cover supply, erection, testing and commissioning of the entire HVAC system as detailed under specification.

1.2 BASIS OF DESIGN

The entire system has been based and designed on climatologic data available as given under Basis of Design and Scheme.

1.3 TERMS AND DEFINATIONS

The followings terms have been used in the tender specifications, drawings etc.

ISI : Bureau of Indian Standards.
ASHRAE : American Society of Heating Refrigeration & Air-conditioning Engineers, USA.
B. S. : British Standards.
CMH : Cubic Meter per Hour.
RPM : Revolutions per Minute.
BTU/Hr. : British thermal unit per Hour.
Kcal/Hr. : Kilo Calories per Hour.
Hz : Hertz.
H. P. : Horse Power
RH : Relative Humidity.
DB : Dry Bulb Temperature.
WB : Wet Bulb Temperature.
DP : Drain Point.
The codes, regulation as detailed below shall be followed in this contract:

1. Safety code for air-conditioning (Revised) amendment 1 IS 659: 1964 (reaffirmed 1991)


3. Testing of refrigeration Compressors IS 5111: 1993


7. Steel for general structural Purpose IS 2062: 1992


9. Hot Dip Zinc Coated Steel Tubes IS 4736: 1968

10. Color code for the identification Of pipe lines IS 2379: 1963

11. Specific requirements for the Direct switching of the individual Motors. IS 4064 (Part II) 1978

12. PVC insulated (HD) Electric Cables for working voltage up Including 1100 Volts. IS: 1554 (Part I)

13. HRC Cartridge fuse links Up to 650 Volts. IS 2208: 1976

14. Starter IS 8554 (Part I) 1979

15. Inspection and testing of Installation IS 732 (Part III) 1979


17. Three phase induction motors IS: 325

18. PVC insulated (heavy duty) IS 1554: 1981 Part I & II
TENDER ID: KOL201907001

Cables for working voltage
Up to 1.1. KV and up to 11 KV
Grade respectively.


21. Three phase induction motors. IS: 325

22. Specification for single phase small A/C & universal motors IS: 996


24. Contactors for A.C for voltage Up to 1100 V. IS 2959: 1975

25. Low voltage switch gear and control Gear assemblies. IS 8623: 1993 Part I & II


27. Specification for cables glands IS 4821


29. Conduits for electrical installations IS 9537: 1981 Part I to IV

30. Permissible limits of noise level For rotating electrical machines. IS 12065: 1987


32. HRC cartridge fuse links up to 650 volts IS: 2208

33. PVC insulated (heavy duty) electric Cables for working voltage up to & Including 1100 watts. IS; 1554 (Part I)

34. Method for testing Panel type air Filters for AC purposes. IS 7613: 1975 (reaffirmed1991)

1.5 SAFETY CODES

The following IS codes shall be followed:

Safety code for mechanical refrigerationIS 660

Safety code for air conditioning IS 659
1.6 SPACS
All shop drawings shall be prepared by the A.C Contractor after examining the Architectural & AC drawings.

2.0 Design Conditions:
The design parameters to be used for detailed design of the air conditioning system as follows:

2.1 Outside Ambient Conditions
Monsoon: DB: 32.2 °C (90 °F) & WB: 30 °C (86 °F).
Equipment performs to the above ambient conditions and not fail in conditions of 43 °C DB (dry bulb).

2.2. Inside Design Condition:
Room Temperature: 23 Deg. C ± 2 Deg.C
Relative Humidity: 50% ± 5%
2.3 Light Load: 1.5 W/ Sq.ft.
2.4 Occupancy: For Ground Floor area: 148 Nos.
2.5 Equipment: 10.5 KW.

1.0 General Description and Specification of the system proposed:
The air-conditioning of the Avani Heights Ground floor banking area. The Ground floor banking area shall be air-conditioned by the VRF System.

The Installed capacity of the ac outdoor units-5 HP, 11 nos (Side discharge cooling only). The Height of the Selected Outdoor Units should not be more than 950 mm due to site constraints.

The Installed capacity of the ac indoor units Suitable for VRF.
4-Way Cassette units-
2.3 TR-12Nos.
2.0 TR-8Nos.
TENDER ID: KOL201907001

1.5 TR-2Nos.

We have considering for AGM Room & System Room inverter type split ac units

5.1 VRF Type Condensing Unit with DX cassette Unit.

Capacity of each VRF Type Outdoor unit shall be as mentioned in Bill of materials. The Unit Comprises of Digital / Inverter type Scroll compressor, Condenser fan, Condenser Coil, Electrical Panel etc. The VRF Unit should be suitable for R-410A or Equivalent Refrigerant. The Indoor type 4-Way Cassette unit of capacity as mentioned in Bill of Materials should be with 3/4 Row deep cooling coil, Filter, Fan & motor of suitable capacity. The Cassette units should be equipped with Drain Pump and with cordless remote. The VRF Condensing units to be installed Back side of the bank at 1st floor level. The indoor & outdoor unit to be connected with the hard drawn copper pipe of minimum 18G thickness and with proper isolating valves in such a way that for any maintenance any one of the cassette unit can be taken out while other units should work. All the elbow & reducer should be with the same thickness of the pipe. The Cassette units should have a provision for Fresh air Intake. All the connected Power cable should be with Al. Ar. Cable of 1100 V grade & control cable should be with Cu. Ar. Cable of 1100 V grade. The minimum size of Power cable should be 4 sq mm Aluminum & for control cable 1.5 sq mm copper. The incoming supply of the MCC should be with MCCB of 50 KA fault level & all outgoing feeder should be with MCB. Single phasing & over load protection arrangement is required for all the motors. The Outdoor Structure should be such that proper maintenance is possible. The Refrigerant pipes should be Pressure tested at 400 PSI / 200 PSI and shall hold the pressure for 24 hrs. Proper vacuuming should be done before charging of the refrigerant.

5.2 Indoor Unit

i. The refrigerant circuit shall have one-shot couplings for liquid and gas inlet, a capillary tube, a strainer and an evaporator coil.

ii. The Evaporator coils shall be the multi-pass cross-finned tube type, equipped with aluminum plate fins, mechanically bonded to seamless oxygen free copper tubes. The fins shall be spaced at not more than 12 fins per 25.4 mm. The Coil shall be cleaned, dehydrated and tested for leakage at factory.

iii. The unit must be provided with anti-vibration mountings external to the unit.

iv. Coil face velocity shall not exceed 2.5 m/sec.

v. The evaporator fan shall be forward curved, centrifugal type, statically and dynamically balanced and directly driven by the motor. The fan motor shall be permanently lubricated.

vi. The air filter shall be washable type and the thickness shall be as recommended and supplied by the manufacturer.

The evaporator fan must be selected to operate quietly with no overloading of the motor.

5.3 Outdoor Unit

i. The outdoor unit shall be factory assembled, piped internally, pre-wired and shall be designed to operate at outdoor ambient temperature as high as 40 deg. C.

ii. The Refrigerant circuit shall be composed of a gas inlet, one shot coupling, a condenser coil and a liquid outlet one shot coupling.

iii. The condenser coil must be the multi-pass, cross-finned type, equipped with aluminum plate fins mechanically bonded to seamless oxygen free copper tubes. The coil shall be cleaned, dehydrated and tested for leakage at the factory.

iv. The Condenser fan shall be aluminum propeller type, statically and dynamically balanced and the fan shall be directly driven by the motor for up flow or horizontal air discharge. The Motor shall be permanently lubricated and shall be protected from water invasion.
The Unit shall contain a scroll type compressor from the same manufacturer. The compressor shall be direct in line type and equipped with vibration proof rubber. The compressor shall be welded shell type and spring suspended internally. The compressor shall be protected against a break down by the mercury over current relay, pressure switch and in-built internal thermostat.

The cabinet shall be constructed of steel, finished with baked synthetic resin paint. The fan guard wire net shall be mounted on top or side of the unit.

5.4 Unit Control

The indoor unit shall be equipped with a remote control as well as manual operation switch, fan speed selector switch and a thermostat mounted on the remote control switch. The operation switch shall include the function of “OFF – FAN- COOL”. The operation control shall confirm to manual starting, automatic continuous operation whenever the thermostat requires and the protection devices allow. The unit shall be restarted by resetting the operation switch if any one of the protection device trips.

5.5 Protection Devices

The magnetic switch box incorporated in the outdoor or indoor unit shall contain magnetic contactor for all motors, including condenser fan motor, over current relays and auxiliary relays.

5.6 Operation sequence

A rotary type switch on the remote control box manually selected the ventilating or cooling operation. When the operation switch is set at FAN the evaporator fan is started. When the operation switch is set at COOL and all electrical protective devices are satisfied, the thermostat in the remote control box controls the compressor operation.

6. Noise Levels

Noise level inside the conditioned area resulting from the units shall not exceed the following:

- NC 35 for banking area

All running equipments shall be isolated from the building structure and the support isolated from other items of equipment.

All the units shall have anti-vibration mountings of approved make and these shall be subject to approval of the consultant.

All the Air distribution system should be designed in such a way so that inside noise level should be within NC 35.

7. Vibration Isolators

All plant shall be isolated from the building structure and the support isolated from other items of equipment.

Air Handling Units shall have anti-vibration mountings of approved make subject to consultant approval.

Multi-layer rubber pads with square grid convolutions on both sides, spaced with steel shims and of a thickness to suit the points of uniform loading of the plant item but of a minimum thickness of 32 mm shall be spaced not more than 750 to 1000 mm apart.

8. Refrigeration pipes and thermal insulation

Refrigerant pipe work between the condensing unit and the indoor unit shall be installed to the satisfaction of Consultant. The thermal insulation shall be non-corrosive to metal, water repellent and fire resistant. The pipe work will be run as indicated on the drawings. All necessary unions, flanged valves or fittings should be provided for disconnecting.
TENDER ID: KOL201907001

The unit shall be factory charged and factory tested. The refrigerant pipe work shall be factory charged pre-insulated pipe works supplied by the manufacturer to suite the respective A.C. Unit.

9. **Pipe Supports**

All refrigerant piping shall be supported to prevent deflection, bulking and vibration. Piping shall be supported at all changes in direction and at intervals of not more than 1.2 meters on straight runs. Pipe supports and clamps shall be subject to approval of consultant. Pipe work on roofs and floors shall be supported on off-set clamps, floor. The Pipe support stands shall be bolted to the concrete slab or steel members. Vertical pipe work shall be supported with trapeze hangers with rods suspended from inserts. Condensate drain pipe supports shall be capable of vertical adjustment after installation of piping. All pipe works passing through the walls, floors and roof slabs shall be provided with pipe sleeves of adequate size to allow the passage of insulation.

**Special Notes:**

1. All the party should submit the Equipment ratting chart at different temperature / outside condition.

2. Compressor ratting chart should be submitted along with tender for proper technical evaluation of the capacity offered.

3. Vendor should submit the technical Data Sheet & Shop drawing within 7 days from date of issue of order for necessary approval by consultant before physically start the work at site.

4. After Commissioning vendor should conduct performance testing of the entire system for 72 hrs.

5. Vendor should submit the complete operation & maintenance manual containing As Built Drawing, Do’s & Don’t, Operation procedure, Set points of different parameters, Catalogue & Technical details etc.

**10.0 LIST OF APPROVED MAKES**

<table>
<thead>
<tr>
<th>SR NO</th>
<th>ITEM</th>
<th>ACCEPTABLE MAKES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>VRF Outdoor Units</td>
<td>Daikin/Carrier/Voltas/Bluestar/Hitachi/Samsung.</td>
</tr>
<tr>
<td>2</td>
<td>4-Way Cassette</td>
<td>Daikin/Carrier/Voltas/Bluestar/Hitachi/Samsung.</td>
</tr>
<tr>
<td>3</td>
<td>Inverter type Hi-wall split.</td>
<td>Daikin/Carrier/Voltas/Bluestar/Hitachi/Samsung.</td>
</tr>
<tr>
<td>4</td>
<td>Nitrile Rubber</td>
<td>Armacell , Supreme</td>
</tr>
<tr>
<td>5</td>
<td>Cable</td>
<td>Mescab/,Polycab/Finolex, /Gloster,</td>
</tr>
</tbody>
</table>
Special Terms of Conditions:

1. Terms of Payment: 75% against supply of Materials at Site and Balance 25% after Completion of Project.

2. SITE VISIT

The tenderer must obtain himself on his own responsibility and at his own expense all information and data which may be required for the purpose of filling this tender document and enter into a contract for the satisfactory performance of the work. The Tenderer is requested to satisfy himself regarding the availability of water, power, Site Availability, transport and communication facilities, the character quality and quantity of materials, labour, the law & order situation, climatic conditions, requirement of local authorities traffic regulations etc;

The tenderer will be fully responsible for considering the financial effect of any or all the factors while submitting his tender.

3. OWNERSHIP OF DRAWINGS

All drawings, specifications and copies thereof furnished by the SBI through its Consultants are the properties of the SBI. They are not to be used on other work.

4. DETAILED DRAWINGS AND INSTRUCTIONS

The SBI through its Consultants shall furnish with reasonable promptness additional instructions by means of drawings or otherwise necessary for the proper execution of the work. All such drawings and instructions shall be consistent with the contract documents, true developments thereof and reasonably inferable there from. The work shall be executed in conformity therewith and the contractor will prepare a detailed programme schedule indicating therein the date of start and completion of various activities on receipt of the work order and submit the same to the SBI through the Consultant.

5. PERMITS, LAWS AND REGULATIONS

Permits and licenses required for the execution of the work shall be obtained by the contractor at his own expenses. The contractor shall give notices and comply with the regulations, laws, ordinances rules, applicable to the contractor. If the contractor observes any discrepancy between the drawings and specifications, he shall promptly notify the SBI in writing under intimation of the Consultant. If the contractor performs any act which is against the law, rules and regulations he shall meet all the costs arising there from and shall indemnify the SBI any legal actions arising there from.

6. SETTING OUT WORK

The contractor shall set out the work and shall be responsible for the true and perfect setting out of the same and for the correctness of the positions, levels, dimensions, and alignment of all parts thereof and get it approved by the Architect/Consultant before proceeding with the work. If at any time any error in this respect shall appear during the progress of the works, irrespective of the fact that the layout had been approved by the Architect/Consultant/Owner the contractor shall be responsible for the same and shall at his own expenses rectify such error, if so, required to satisfaction of the SBI.

7. PROTECTION OF WORKS AND PROPERTY

The contractor shall continuously maintain adequate protection, of all his work from damage and shall protect the SBI’s properties from injury or loss arising in connection with contract. He shall make good any such damage, injury, loss due to his fault or negligence except which are due to causes beyond his control.
He shall take adequate care and steps for protection of the adjacent properties. The contractor shall take all precautions for safety and protection of his employees on the works and shall comply with all applicable provisions of Govt. and local bodies' safety laws and building codes to prevent accidents, or injuries to persons or property of about or adjacent to his place of work. The contractor shall take insurance covers as per clause at his own cost. The policy may be taken in joint names of the contractors and the SBI with first name being of SBI, and the original policy may be lodged with the SBI.

8. INSPECTION OF WORK

The Consultant/Owner or their representatives shall at all reasonable time have free access to the work site and/or to the workshop, factories or other places where materials are lying or from where they are obtained and the contractor shall give every facility to the SBI / Consultant and their representatives necessary for inspection and examination and test of the materials and workmanship. No person unless authorized by the SBI/Consultant except the representative of Public Authorities shall be allowed to the work site at any time. The proposed work either during its construction stage or on its completion can also be inspected by the Chief Technical Examiner’s organization a wing of Central Vigilance Commission.

9. ASSIGNMENT AND SUBLETTING

The whole of work included in the contract shall be executed by the contractor and he shall not directly entrust and engage or indirectly transfer assign or underlet the contract or any part or share thereof or interest therein without the written consent of the SBI through the Consultant and no undertaking shall relieve the contractor from the responsibility of the contractor from active superintendence of the work during its progress.

10. CONTRACT AGREEMENT

On receipt of intimation of the acceptance of tender from the SBI/Consultant the successful tenderer shall be bound to implement the contract and within fifteen days thereof he shall sign an agreement in a non judicial stamp paper of appropriate value.

11. OBTAINING INFORMATION RELATED TO EXECUTION OF WORK

No claim by the contractor for additional payment shall be entertained which is consequent upon failure on his part to obtain correct information as to any matter affecting the execution of the work nor any misunderstanding or the obtaining incorrect information or the failure to obtain correct information relieve him from any risks or from the entire responsibility for the fulfillment of contract.

12. CONTRACTOR’S SUPERINTENDENCE

The contractor shall give necessary personal superintendence during the execution of the works and as long, thereafter, as the Architect/Consultant/SBI may consider necessary until the expiry of the defects liability period, stated hereto.

13. INSURANCE OF WORKS

Without limiting his obligations and responsibilities under the contract the contractor shall insure in the joint names of the Owner and the contractor with first name being of Owner’s name, against all loss or damages from whatever cause arising other than the excepted risks, for which he is responsible under the terms of contract and in such a manner that the Owner and contractor are covered for the period stipulated and are also covered during the period of maintenance for loss or damage arising from a cause, occurring prior to the commencement of the period of maintenance and for any loss or damage occurred by the contractor in the course of any operations carried out by him for the purpose of complying with his obligations under clause.

a) The works for the time being executed to the estimated current Contract value thereof, or such additional sum as may be specified together with the materials for incorporation in the works at their replacement value.

b) The constructional plant and other things brought on to the site by the contractor to the replacement value of such constructional plant and other things.
c) Such insurance shall be effected with an insurer and in terms approved by the SBI which approval shall not be unreasonably withheld and the contractor shall whenever required produce to the Architect/Consultant/Owner the policy of insurance and the receipts for payment of the current premiums.

13.1. Damage to persons and property

The contractor shall, except if and so far as the contract provides otherwise indemnify the SBI against all losses and claims in respect of injuries or damages to any person or material or physical damage to any property whatsoever which may arise out of or in consequence of the execution and maintenance of the works and against all claims proceedings, damages, costs, charges and expenses whatsoever in respect of or in relation thereto except any compensation of damages for or with respect to:

d) The permanent use or occupation of land by or any part thereof.

e) The right of SBI to execute the works or any part thereof, on, over, under, in or through any lands.

f) Injuries or damages to persons or properties which are unavoidable result of the execution or maintenance of the works in accordance with the contract.

g) Injuries or damage to persons or property resulting from any act or neglect of the SBI, their agents, employees or other contractors not being employed by the contractor or in respect of any claims, proceedings, damages, costs, charges and expenses in respect thereof or in relation thereto or where the injury or damage was contributed to by the contractor, his servants or agents such part of the compensation as may be just and equitable having regard to the extent of the responsibility of the SBI, their employees, or agents or other employees, or agents or other contractors for the damage or injury.

13.2 Contractor to indemnify SBI

The contractor shall indemnify the SBI against all claims, proceedings, damages, costs, charges and expenses in respect of the matters referred to in the provision sub-clause of this clause.

14.0 Third Party Insurance

Before commencing the execution of the work the contractor but without limiting his obligations and responsibilities under clause of GCC shall insure against his liability for any material or physical damage, loss, or injury which may occur to any property including that of SBI, or to any person, including any employee of the SBI, by or arising out of the execution of the works or in carrying out the contract.

15.0 Minimum Amount of Third Party Insurance

Such insurance shall be effected with an insurer and in terms approved by the SBI which approval shall not be reasonably withheld and for at least the amount stated below. The contractor shall, whenever required, produce to the Owner/Consultant the policy or policies of insurance cover and receipts for payment of the current premiums.

The minimum insurance cover for physical property, injury, and death is Rs.5.0 lacs per occurrence with the number of occurrences limited to four. After each occurrence contractor will pay additional premium necessary to make insurance valid for four occurrences always.

16.0 Accident or Injury to Workmen

The SBI shall not be liable for or in respect of any damages or compensation payable as per law in respect of or in consequence of any accident or injury to any workmen or other person in the employment of the contractor or of any sub-contractor, save and except an accident or injury resulting from any act or default of the SBI or their agents, or employees. The contractor shall indemnify and keep indemnified SBI against all such damages and compensation, save and except as aforesaid and against all claims, proceedings, costs, charges and expenses whatsoever in respect thereof or in relation thereto.

17. Insurance against accidents etc to workmen
The contractor shall insure against such liability with an insurer approved by the SBI during the whole of the time any person employed by him on the works and shall, when required, produce to the SBI/Consultant such policy of insurance and receipt for payment of the current premium. Provided always that, in respect of any persons employed by any sub-contractor the contractor’s obligation to insure as aforesaid under this sub-clause shall be satisfied if the sub contractor shall have insured against the liability in respect of such persons in such manner that SBI is indemnified under the policy but the contractor shall require such sub-contractor to produce to the SBI/Consultant when required such policy of insurance and the receipt for the payment of the current premium.

**Remedy on Contractor’s failure to insure**

If the contractor fails to effect and keep in force the insurance referred to above or any other insurance which he may be required to effect under the terms of contract, then and in any such case the SBI may effect and keep in force any such insurance and pay such premium or premiums as may be necessary for that purpose and from time to time deduct the amount so paid by the SBI as aforesaid and also deduct 15% of contract value from any amount due or which may become due to the contractor, or recover the same as debt from the contractor.

Without prejudice to the other rights of the SBI against contractors, in respect of such default, the Bank shall be entitled to deduct from any sums payable to the contractor the amount of any damages costs, charges, and other expenses paid by the SBI and which are payable by the contractors under this clause. The contractor shall upon settlement by the insurer of any claim made against the insurer pursuant to a policy taken under this clause, proceed with due diligence to rebuild or repair the works destroyed or damaged. In this event all the monies received from the insurer in respect of such damage shall be paid to the contractor and the contractor shall not be entitled to any further payment in respect of the expenditure incurred for rebuilding or repairing of the materials or goods destroyed or damaged.
### TENDER ID: KOL201907001

**18.0 BOQ**

**PROJECT: S.B.I AVANI HEIGHTS. GROUND FLOOR.**

**BOQ FOR INSTALLATION, TESTING & COMMISSIONING OF AIRCONDITIONING EQUIPMENT**

<table>
<thead>
<tr>
<th>SL.No.</th>
<th>Item Description</th>
<th>Unit</th>
<th>Qty</th>
<th>Unit Rate Rs.</th>
<th>Total Amount Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td><strong>Part A - Supply of Equipment</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 01     | Supply of Air Cooled Inverter controlled Variable Scroll Compressor Unit by using R-410A refrigerant, cooling mode, low noise inverter based condenser fans. Unit shall be provided with micro processor based panel for sequential starting of condensing units, coils, expansion valves, fins with specially factory coated hydrophilic treatment for heat & rust corrosion. The unit shall also be provided with mounting frame duly painted and other standard accessories. Ambient condition shall be considered as 40.0 degree C. Minimum capacities of each outdoor units are as follows:  

*Note:* VRF Outdoor units maximum height should not be more than 950 mm.  

Make - Daikin/Carrier/Voltas/Blue-star/Hitachi/Samsung.  

5.0 HP (Side Discharge Cooling only) | Nos. | 11 |

**Indoor Units (VRV Type)**

| 2.0 | **CASSETTE UNIT** | | | | |
| 2.1 | **4WAY CASSETTE UNIT** | | | | |
| 2.3 TR | Nos. | 12 |
| 2.0 TR | Nos. | 8 |
| 1.5 TR | Nos. | 2 |

| 3.0 | Supply of Cordless Remote Controller | Nos. | 22 |

| 4.0 | Supply of Imported fittings Y-joints/refnet | set | 12 |

| 5.0 | Supply, Installation and testing commissioning (including Cutting of chase/wall/window/etc. and mending good the damage) of 2.0TR nominal capacity (non ductable) Inverter type Hi-wall Split Unit with Refrigerant Piping, Remote & Others accessories for AGM ROOM | Nos. | 1 |

Make - Daikin/Carrier/Voltas/Blue-star/Hitachi/Samsung.
### Supply, Installation and testing commissioning (including Cutting of chase/wall/window/etc. and mending good the damage) of 1.5TR nominal capacity (non ductable) Inverter type Hi-wall Split Unit with Refrigerant Piping, Remote & Others accessories for UPS Room. (ISEER=5.2, Refrigerant =R290 or R410A, Compressor = Hermetic Rotary DC Inverter)

**Make**- Daikin/Carrier/Voltas/Blue-star/Hitachi/Samsung/Godrej

<table>
<thead>
<tr>
<th>Part A Supply Part - Equipment Basic Value</th>
</tr>
</thead>
</table>

| 6.0 | Supply, Installation and testing commissioning (including Cutting of chase/wall/window/etc. and mending good the damage) of 1.5TR nominal capacity (non ductable) Inverter type Hi-wall Split Unit with Refrigerant Piping, Remote & Others accessories for UPS Room. (ISEER=5.2, Refrigerant =R290 or R410A, Compressor = Hermetic Rotary DC Inverter) | 2 | Nos. |

| Make- Daikin/Carrier/Voltas/Blue-star/Hitachi/Samsung/Godrej |

| 2.0 | Outdoor Units (VRV Type) |
|-------------------------------------------|

<table>
<thead>
<tr>
<th>4WAY CASSETTE UNIT</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2.3 TR</td>
<td>Nos. 12</td>
</tr>
<tr>
<td>2.0 TR</td>
<td>Nos. 8</td>
</tr>
<tr>
<td>1.5 TR</td>
<td>Nos. 2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3.0</th>
<th>Refrigerant Piping (VRV System)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply, installation, testing and commissioning of Interconnecting refrigerant pipe work with (13mm/19mm thick) closed cell elastomeric nitrile rubber tubular insulation between each set of indoor &amp; outdoor units as per specifications, all piping inside the room shall be properly supported with MS hanger &amp; clamps.</td>
<td></td>
</tr>
<tr>
<td>9.52 mm dia - 13 mm thk. Insulation</td>
<td>RMT 420</td>
</tr>
<tr>
<td>12.7 mm dia - 13 mm thk. Insulation</td>
<td>RMT 50</td>
</tr>
<tr>
<td>15.88 mm dia - 19 mm thk. Insulation</td>
<td>RMT 130</td>
</tr>
<tr>
<td>19.05 mm dia - 19 mm thk. Insulation</td>
<td>RMT 360</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4.0</th>
<th>Installation Y-joints/refnet</th>
</tr>
</thead>
<tbody>
<tr>
<td>set</td>
<td>12</td>
</tr>
</tbody>
</table>

| 5.0 | Commissioning of VRV systems including topping R410A gas as per site requirements. Refrigerant shall be environmental friendly R410A. | Lot 1 |

<table>
<thead>
<tr>
<th>6.0</th>
<th>Drain Piping</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rigid PVC piping complete with fittings, supports as per specifications and insulated with 6 mm thick closed cell elastomeric nitrile rubber insulation.</td>
<td></td>
</tr>
<tr>
<td>25 mm NB</td>
<td>Rm 70</td>
</tr>
<tr>
<td>32 mm NB</td>
<td>Rm 40</td>
</tr>
<tr>
<td>40 mm NB</td>
<td>Rm 60</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>7.0</th>
<th>Control &amp; Transmission Wiring</th>
</tr>
</thead>
</table>

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<table>
<thead>
<tr>
<th>Lot</th>
<th>Description</th>
<th>Unit</th>
<th>Value (Rm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.0</td>
<td>2 core 1.5 sq.mm flexible control cable with saddles/supports &amp; PVC conduits with hard PVC Pipe to connect Outdoor units with Indoor units</td>
<td>Rm</td>
<td>500</td>
</tr>
<tr>
<td>8.0</td>
<td>Supply and Testing of N2 Pressure Gas Charge with proper flushing and leak test of all ref-copper pipe including joints.</td>
<td>Lot</td>
<td>1</td>
</tr>
<tr>
<td>9.0</td>
<td>Minor civil/cutting work for lying of cu and drain pipe.</td>
<td>Lot</td>
<td>1</td>
</tr>
</tbody>
</table>

**TOTAL BASIC VALUE - PART-B, LOW SIDE**

<table>
<thead>
<tr>
<th>Description</th>
<th>Value (Rm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Value of BOQ Items (A+B) Without GST</td>
<td></td>
</tr>
</tbody>
</table>
The steps involved in making the payment through SB Collect are as under:-
1. The Vendor needs to use SBI internet banking site http://www.onlinesbi.com/.
2. Select “SB Collect” from Top Menu that will lead to the next page:
3. “Proceed” will lead to the next page
4. Select “All India” in State of Corporate/Institution” & select “Commercial Services” in “Type of Corporate/Institution”.
5. “Go” will lead to the next page
6. Select “SBI Infra Management Solutions” in Commercial Services Name and “Submit”
7. Select “Tender Application Fee” in “Payment Category” and enter the “Tender ID” exactly as we preloaded with characters in Uppercase only in place of Circle Codes.
8. The next page will be ready with few of the Preloaded Tender Details:
9. The Vender will have to fill up the fields properly and upon making the payment a receipt will be generated with a Reference No.

**NOTE:** Any type of vendor, whether dealing with SBI or other bank can use the SB Collect facility. Even a contractor not dealing with any bank can use this portal and generate challan and deposit by cash in any SBI branch. The bank charges for cash deposit will be also borne by the vender himself.
The Vendor needs to use SBI internet banking site https://www.onlinesbi.com/.

Select "SB Collect" from Top Menu, that will lead to the next page:
“Proceed” will lead to the next page:

Select "All India" in "State of Corporate / Institution" & Select "Commercial Services" in "Type of Corporate / Institution".
TENDER ID: KOL201907001

“Go” will lead to the next page:

Select “SBI Infra Management Solutions” in Commercial Services Name and “Submit”

Select “Tender Application Fee” in “Payment Category” and enter the “Tender ID” exactly as we preloaded with characters in Uppercase only in place of Circle Codes.
SPECIAL NOTE:

1. VENDORS ARE REQUESTED TO SUBMIT THE COPY OF PAYMENT RECEIPT OF TENDER APPLICATION FEE ALONG WITH THE TECHNICAL BID IN HARD COPY.

2. VENDORS ARE REQUESTED TO CONTACT THE CONCERNED EIC FOR ANY FURTHER QUARRY RELATED TO THIS PROJECT.

3. PLEASE CONTACT CONCERNED CIVIL ENGINEER IF ANY CONFUSION RELATED TO THE SPECIFICATION ARISES.