



# STATE BANK OF INDIA

**INVITES E-TENDER** 

FOR

# PROPOSED AIR CONDITIONING WORK OF SBI TB HUB AT ALKAPURI, VADODARA

#### **FROM**

THE SBI AHMEDABAD EMPANELLED AIR CONDITIONING CONTACTOR UNDER CATEGORY FROM RS. 05.00 LAKH TO RS.100.0 LAKH AS PER LIST ENCLOSED

THE LAST DATE OF SUBMISSION OF ONLINE TENDER: 15.12.2025 UP TO 3:00 PM

# **PART – A: TECHNICAL BID**

TENDER SUBMITTED BY.		
NAME	:	
ADDRESS		
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DATE	:	

TENDED CHOMITTED DV.



# **NOTICE INVITING TENDER (NIT)**

**SBI** invites Online E-tender in two bid system, from the Bank's Empaneled Air Conditioning contractors of Ahmedabad Circle for Air Conditioning Work at SBI TB HUB AT ALKAPURI, VADODARA .

1	Name of Work	PROPOSED AIR CONDITIONING WORK OF SBI TB HUB AT ALKAPURI, VADODARA .
2	Time allowed for completion	15 Days from date of acceptance of work order.
3	Earnest Money Deposit	Rs. 2,700/-by means of Demand Draft / Pay Order from any scheduled Nationalized Bank drawn in favor of State Bank Of India and payable at VADODARA. (Contractors registered with 'MSME UDYAM' need not submit EMD. Instead of EMD, they should submit registration certificate of 'MSME UDYAM')
4	Initial Security Deposit	NA (as per Government directives)
5	Total Security Deposit	5% of the final bill amount including ISD
6	Cost of tender document.	NIL
7	Start and end date for downloading of tender documents form Bank's website	08.12.2025 to 15.12.2025 at www.sbi.co.in under <link/> <sbi in="" news="" the="">procurement news.</sbi>
8	Last date & time for submission of online Technical bid and Indicative Price Bid	15.12.2025 up to 03:00 PM
9	Address at which & Process Compliance Form has to be submitted	The Chief Manager (HR & Admin.) State Bank Of India, Admin. Office, Vadodara
10	Date and time of opening of online Technical bid & Sealed Price bid	15.12.2025 at 03:30 PM
11	Agency for arranging online Bidding (Technical bid and sealed price bid)	M/s. Antares Systems Limited, Mr. Kushal Bose Mobile No.: +91 9674758719 e-Mail: kushal.b@antaressystems.com
12	Date & time for e-reverse auction	Not Applicable
13	Defect liability period.	12 months from the date of Virtual Completion
14	Validity of offer.	90 days from the date of opening of Price-bid
15	Liquidated damages	0.50% of contract amount per weeks subject to max. 5% of contract value or final bill value.
16	Value of Interim Certificate	No advance on materials / plant / machinery or mobilization advance shall be paid under any circumstances Only full and final payment shall be made after satisfactory completion of work.



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17	Insurance	The contractor shall obtain all necessary insurance policies as per the governing laws applicable at the center& shall require to produce the original policy of Insurance & receipt of the premium as applicable in the matter to the Architect/Bank.
18	Water and Electricity	If contractor is permitted to use SBI source of water & electricity, the SBI will recover @ 0.5% of contract amount from the final bill of contractor. However further distribution & extension & light fixtures etc. With required MCB switches, switch boards, lamp, tube etc. shall be arranged by the contractor at their own cost within the accepted tender amount. Bank will recover 0.5% of the final bill amount towards consumption of water & electricity.
19	Rates	Rates quoted shall be inclusive of all existing & future (including variation) taxes, duties, levies, royalties, transportation, other incidental charges, WCT etc. PVA & PVA Clause shall not be applicable.  Note: GST will be paid Extra as per Applicable norms. If any tenderer puts any condition/anything/any taxes extra over and above their quoted rates the tender shall be summarily rejected.
18	news <procurement news=""> or S shall be responsibility of the conti</procurement>	rom the bank's website www.sbi.co.in(link) <sbi and="" bi="" bid.="" delay="" e-tender="" financial="" in="" issues="" it="" portal="" ractor="" sbi,="" sbietender.="" site="" submission.<="" submit="" td="" technical="" tender="" the="" timely="" to="" www.tenderwizard.in=""></sbi>
19		inderstand each page of the tender document thereby
20		ned in the tender will be considered, and if given they will nission of final quote, else their bid will be rejected.
21		d Process Compliance Form shall be summarily rejected owed to participate in the Price bid process/ rejected/Bank.
22	·	s requirement and quoting minimum rate for any category for receiving order for that item by the firm who quotes
24	Bank reserves right to cancel any/	all tender sat any stage without assigning any reasons.
25	The Bank reserves the right to accomo claim for revision of rates or ot	ept the tender in full or in part and the tenderer shall have her condition if his tender is accepted in parts.
26	next working day at the same time	
27	without assigning any reason(s) entertained in this regard. For a	r reject any or all the tenders, either in whole or in part for doing so, no claim / correspondence shall be my clarification regarding Tendering procedure, please se address is mentioned in the NIT or Bank's Electrical



28	It is vendor's/supplier's responsibility to be well prepared and get ready with E-Tendering procedures & well equipped with all requirements. SBI will not take any responsibility of
	delay in submission due to EMD, slow internet connectivity, system failures etc.
29	Only final payment will be made.
30	It's a occupied premises. If the assigned work is in running/working Branch, the contractor
	should execute the site erection work in odd hours, Holidays and Sundays.
31	Percentage, if any, to be deducted from bills and total amount to be retained: 10 % from
	Running Bills, subject to maximum Total 5% of contract amount or actual Final Bill value.

# Yours Faithfully,

The Chief Manager (HR & Admin.) State Bank Of India, Admin. Office, Vadodara



# LIST OF EMPANELLED AIR-CONDITIONER CONTRACTOR UPTO Rs.5.0 LAKH

SN	Name, Office Address of the Applicant in Gujarat State including U/T	Contact number & email ID
1	Patel Electricals, 1/A, Astha Complex, Sanskarmandal Chowk, Bhavnagar. 364001	9374754747, 9825088095, patelelectricals55@gmail.com
2	Power Control, 18, Sursarthi Complex, B/H Rudra Complex, Ambawadi, Ahmedabad-6	9327030790 info@powercontrol.com
3	Cool Air Enterprise, Opp.13 Ramnathpara, Garbi Chowk, Rajkot - 360001	9426165786 coolair52@gmail.com



#### LIST OF EMPANELLED AIR-CONDITIONER CONTRACTOR UPTO Rs.10.0 LAKH

SN	Name. Office Address of the Applicant in Gujarat State including U/T	Contact number & email ID
1	Prince Enterprise, 60&156, Maruti Plaza, Nr. Vijay Park BRTS, Krishnanagar, Ahmedabad- 382345	9979861449, princeenterprise18@gmail.com
2	RELAX AIR, 9, Premier Shooping Center, Opp, Syndicate Bank, Nr. Mirzapur Court, Mirzapur Road, Ahmedabad -1	9824216799, relaxair_9824216799@yahoo.in
3	SHAINA COOLING SYSTEMS, 1759, Nr. Shah e Alam Restaurant, Gayakwad Haveli Road, Raikhad, Ahmedabad 380001	9898140380, shainacs2007@hatmail.com
4	Swastik Engineers, 91 Ajanta Comercial Center, Nr. Income Tax Circle, Income Tax, Ahmedabad- 380006	9724800027, swastikhvac@gmail.com
5	Maimoon Cooling agent & Electronics Appliances, 2/3857, Relax Aprtment, Healdiya Sheri, Nr. Mahaveer Hospital Sangrampura, Surat	9824602152, maimoonsales52@gmail.com
6	S M Enterprise, 23, Central Government Housing Socity, New Sama Road Vadodara	8401497038, 9879562994. smenterprise1014@gmail.com
7	Shree Maruti Ac Service, SB-42, Paradise Complex, Sayajigunj, Vadodara.390020	9998486570, shreemarutiacservice2014@gmail.
8	MD Aircon, A-116, Ashwamegh Complex, Opp. Sayaji Vihar Club, Rajmahal Road, Vadodara - 390001	9825592980, mdaircon@gmail.com
9	Mahadev Electric, 101, Shanti Complex Kotak Street Sanganva Chowk Rajkot-1,	9824509312, hirenkanabar54@yahoo.com
10	Real Enterprises, 104, Panchshil Plaza, Kotechanagar Main Rd., Nr. Kotecha School, Off. Amin Marg, Rajkot-360005	9825189029/9825386262/realente rprise97@gmail.com
11	Shah Associate, Opp. Laxmi Bhuvan, New Station Rd., Bhuj, Dist Kutchh-370001	9825228305/ shahassociate1@gmail.com



# LIST OF EMPANELLED AIR-CONDITIONER CONTRACTOR UPTO Rs.25.0 LAKH

SN	Name, Office Address of the Applicant in Gujarat State including U/T	Contact number & email ID
1	Pronify Turnkey Solutions, 23E, Laxmi Industrial Esate, New Link Road, Andheri (west), Mumbai 400053	9833889913, proinfyturnkeysolutions@gmail.com
2	Concept Marketing, Payal Park Society, Near TVS Motors, Opp. Central Excise Bldg., B/h. Subhanpura Garden, Vadodara-390023	9825041848, 9909031848, info@concept.net.in
3	HCP Enterprise ,A/8 Someshwar Tenament, Opp. Nishan Vidhyalay, Arjun Ashram Road, Ranip Ahmedabad - 382480	8849696356, hcpenterprise@gmail.com
4	Sharda Refrigeration, 35, Surya Darshan Complex, Rubber Factory Circle Bhavnagar 364001	9426261853, thomasvyas@yahoo.co.in



# LIST OF EMPANELLED AIR-CONDITIONER CONTRACTOR UPTO Rs.50.0 LAKH

SN	Name, Office Address of the Applicant in Gujarat State including U/T	Contact number & email ID
1	SYSTEM DESIGNING, 102 Aggam Complex Nr. Telephone Exchange Vasna, Ahmedabad - 7	9825024651, sdesign_trs@yahoo.com

# LIST OF EMPANELLED AIR-CONDITIONER CONTRACTOR UPTO Rs.100.0 LAKH

SN	Name, Office Address of the Applicant in Gujarat State including U/T	Contact number & email ID
18	Parnam HVAC Engineering Pvt. Ltd. A405/406, Neelkanth Palace, 4th floor, Nr. Seema Hall, 100ft Anandnagar Road, Satellite, Ahmedabad - 380015	9979866401, pranamhvac@gmail.com
22	Chill Air System, 1&22 Induchacha House. Chhani road, Jakat Naka Baroda - 39002	9825603471, 9825083471, chillairsystems@gmail.com



#### **FORM TENDER**

To, The Chief Manager (HR & Admin.) State Bank Of India, Admin. Office, Vadodara

Dear Sir,

Having examined the drawings, specification, design and schedule of quantities relating to the works specified in the memorandum hereinafter set out and having visited and examined the site of the works specified in the said memorandum and having acquired the requisite information relating thereto as affecting the tender, I/We hereby offer to execute the works specified in the said memorandum at the rates mentioned in the attached Schedule of Quantities and in accordance in all respects with the specifications, design, drawings and instructions in writing referred to in conditions of tender, the Articles of Agreement, Special Conditions, Schedule of Quantities and Conditions of Contract and with such materials as are provided for by, and in all other respects in accordance with such conditions so far as they may be applicable.

#### **MEMORANDUM**

PROPOSED AIR CONDITIONING WORK OF SBI TB HUB AT
ALKAPURI, VADODARA .
Rs. 2,700/- by means of Demand Draft / Pay Order
from any scheduled Nationalized Bank drawn in
favor of of State Bank Of India and payable at
VADODARA. (Contractors registered with 'MSME
UDYAM' need not submit EMD. Instead of EMD,
they should submit registration certificate of
'MSME UDYAM')
10 % from Running Bills, subject to maximum
Total 5% of contract amount or actual Final Bill
value.
15 Days
•

I/We have deposited a sum of Rs. 2,700/- of the total tender amount as Earnest Money with the SBI which is not to bear any interest. Should I / We fail to execute the Contract when called upon to do so I/ We do hereby agree that this sum shall be forfeited by me/us to State Bank of India.



1) Our Bankers are:	
i)	
ii)	
The names of partners of our firm are: i)	
ii)	
Name of the partner of the firm Authorized to sign	
Or	
(Name of person having Power of Attorney to sign the Con- (Certified true copy of the Power of Attorney should be atta	,
Yours faithfully,	
Signature of Contractors.	
Signature and addresses of Witnesses	
i)	
ii)	



#### SAMPLE BUISNESS RULE DOCUMENT

ONLINE E-TENDERING FOR AIR CONDITIONING WORK OF SBI TB HUB AT ALKAPURI, VADODARA .

#### (A) Business rules for E-tendering:

- 1. Only Bank's empaneled AIR CONDITIONING WORK contractors with SBI under appropriate category who are invited by the project Architect/SBI shall only be eligible to participate.
- 2. SBI will engage the services of an E-tendering service provider who will provide necessary training and assistance before commencement of online bidding on Internet.
- 3. In case of e-tendering, SBI will inform the vendor in writing, the details of service provider to enable them to contact and get trained.
- 4. Business rules like event date, closing and opening time etc. also will be communicated through service provider for compliance.
- 5. Contractors have to send by email, the compliance form in the prescribed format (provided by service provider), before start of E-tendering. Without this the vendor will not be eligible to participate in the event.
- 6. The Contractors will be required to submit the various documents in sealed Envelope to the office of SBI TB HUB AT ALKAPURI, VADODARA AT VADODARA at the address mentioned herein before by the stipulated date i.e. (1) Demand Draft of specified amount of EMD, (2) Process compliance form dully signed. Contractors not submitting any one or more documents shall not be eligible to participate in the on-line price bidding.
- 7. E-tendering will be conducted on schedule date &time.
- 8. The e-tendering will be treated as closed only when the bidding process gets closed in all respects for the item listed in the tender.

#### (B) Terms & conditions of E-tendering:

SBI shall finalize the Tender through e-tendering mode for which M/s. Antares Systems Limited has been engaged by SBI an authorized service provider. Please go through the guidelines given below and submit your acceptance to the same along with your Commercial Bid.

- 1. E-tendering shall be conducted by SBI through M/s. Antares Systems Limited, on pre-specified date. While the Contractors shall be quoting from their own offices/ place of their choice, Internet connectivity and other paraphernalia requirements shall have to be ensured by Contractors themselves. In the event of failure of their Internet connectivity, (due to any reason whatsoever it may be) it is the bidders' responsibility
  - In order to ward-off such contingent situation bidders are requested to make all the necessary arrangements / alternatives such as back—up power supply whatever required so that they are able to circumvent such situation and still be able to participate in the E-tendering successfully. Failure of power at the premises of Contractors during the E-tendering cannot be the cause for not participating in the E-tendering.
  - On account of this the time for the E-tendering cannot be extended and SBI is not responsible for such eventualities.
- 2. M/s. Antares Systems Limited, shall arrange to train your nominated person(s), without any cost to you. They shall also explain you all the Rules related to the E-tendering. You are required to give your compliance on it before start of bid process.
- 3. BIDDING CURRENCY AND UNIT OF MEASUREMENT: Bidding will be conducted in Indian currency



& Unit of Measurement will be displayed in Online E-tendering.

- 4. BID PRICE: The Bidder has to quote the rate as per the Tender Document provided by SBI through their appointed Architects.
- 5. VALIDITY OF BIDS: The Bid price shall be firm for a period specified in the tender document and shall not be subjected to any change whatsoever.
- 6. Procedure off-tendering:

#### i. Online E-tendering:

- (a) The hard copy of the Technical as well as Price Bid is available on the Bank's website during the period specified in the NIT.
- (b) Online e-tendering is open to the empaneled bidders who receive NIT from the Architect and qualified for participating in the price bidding as provisions mentioned hereinabove through SBI approved Service Provider.
- (c) The Price-Bid shall be made available online by the Service Provider wherein the contractors will required to fill-in their item- wise rates for each item.
- (d) The Contractors are advised not to wait till the last minute to submit their online item-wise quote in the price bid to avoid complications related with internet connectivity, network problems, system crash down, power failure, etc.
- (e) It is mandatory to all the bidders participating in the price bid to quote their rates for each and every item.
- (f) In case, contractor fails to quote their rates for any one or more tender items, their tender shall be treated as "Incomplete Tender" and shall be liable for rejection.
- 7. LOG IN NAME & PASSWORD: Each Bidder is assigned a Unique User Name & Password by M/s. Antares Systems Limited. The Bidders are requested to change the Password after the receipt of initial Password from M/s. Antares Systems Limited. All bids made from the Login ID given to the bidder will be deemed to have been made by the bidder.
- 8. BIDS PLACED BY BIDDER: Bids will be taken as an offer to execute the work as specified. Bids once made, cannot be cancelled / withdrawn and the Bidder shall be bound to execute the work at the quoted bid price. In case the L1 Bidder backs out or fails to complete the work as per the rates quoted, SBI shall have the liberty to take action as deemed necessary including de-paneling such contractors and forfeiting their EMD/ EMD amount through any means and imposing heavy penalty to contractor to recover the losses occurred to the Bank.
- 9. At the end of the E-tendering process, SBI will decide upon the winner. SBI decision on award of Contract shall be final and binding on all the Bidders.
- 10. SBIshallbeatlibertytocanceltheE-tenderingprocess/tenderatanytime, before ordering, without assigning any reason.
- 11. SBI shall not have any liability to bidders for any interruption or delay in access to the site irrespective of the cause.
- 12. Other terms and conditions shall be as per your techno-commercial offers and other correspondences till date.

#### 13. OTHER TERMS & CONDITIONS:

- The Bidder shall not involve himself or any of his representatives in Price manipulation of any kind directly or indirectly by communicating with other suppliers/ bidders.



- The Bidder shall not divulge either his Bids or any other exclusive details of SBI to any other party.
- SBI decision on award of Contract shall be final and binding on all the Bidders.
- SBI reserve their rights to extend, reschedule or cancel any E-tendering within its sole discretion.
- SBI or its authorized service provider M/s. Antares Systems Limited shall not have any liability to Bidders for any interruption or delay in access to the site irrespective of the cause.
- SBI or its authorized service provider M/s. Antares Systems Limited is not responsible for any damages, including damages that result from, but are not limited to negligence.
- SBI or its authorized service M/s. Antares Systems Limited will not be held responsible for consequential damages, including but not limited to systems problems, inability to use the system, loss of electronic information, etc.

#### N.B.

- All the Bidders are required to submit the Process Compliance Statement (Annexure-II) duly signed to M/s. Antares Systems Limited.
- All the bidders are requested to ensure that they have a valid digital signature certificate well in advance to participate in the online event.



# PROCESS COMPLIANCE STATEMENT (ANNEXURE II)

(The bidders are required to print this on their company's letter head and sign, stamp before e-mailing)

To,

M/s. Antares Systems Limited,

Mr. Kushal Bose

Mobile No.: +91 9674758719

e-Mail: kushal.b@antaressystems.com

AGREEMENT TO THE PROCESS RELATED TERMS AND CONDITIONS FOR THE ONLINE E-TENDERING FOR AIR CONDITIONING WORK OF SBI TB HUB AT ALKAPURI, VADODARA.

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 SBI as well as this document and confirm our agreement to them.
- We also confirm that we have taken the training on the E-tendering tool and have understood the functionality of the same thoroughly.
- We confirm that SBI and M/s. Antares Systems Limited 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, hereby confirm that we will honor 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:
Scan it and send to this Document on



#### (On Non -Judicial Stamp paper of appropriate value)

#### ARTICLES OF AGREEMENT

Articles	of	Agreement	made	this			day
of							
between <b>S</b>	tate Ban	k Of India, a boo	ly, corporat	te constituted u	nder the State	Bank Of I	ndia Act and
having its	Corpora	ite office at Ma	dame cama	a Road, Mumba	i. hereinafter	called the	Bank which
expression	s shall in	clude its successo	rs and assi	gns of the one p	art and		(name &
address of contractor)			_ hereinafte	er called the "Con	ntractor" which	expression	ı shall include
the success	sors and	assigns of the oth	er part.				

WHEREAS the Bank is desirous of executing the work of Interior Decoration & Furnishing work: AIR CONDITIONING WORK OF SBI TB HUB AT ALKAPURI, VADODARA . for State Bank of India and has caused drawings, specifications, and schedule of quantities etc. describing the works to be prepared by the Architect.

AND WHEREAS for the said construction of local Regional Office Building for State Bank of India at VADODARA, Terms & Conditions, Specifications and the Schedule of items, quantities etc., have been signed by and on behalf of the parties hereto.

AND WHEREAS the Contractor has agreed to execute upon, subject to the conditions set forth herein and Schedule of Items and quantities, General & Special Conditions of Contract, specifications etc contained in the tendered documents including all correspondences exchanged by or between the parties from the submission of tender till the award of work, both letters inclusive, (all of which are collectively hereinafter referred to as "the said conditions", details of which are described in the schedule attached hereto, the works shown upon the said drawings and/or described in the said specification and included in the schedule of items and quantities at the respective rates therein set forth amounting to the sum as therein arrived at or such other sum shall become payable there under arrived at or such other sum as shall become payable there under (hereinafter referred to as "the said contract amount")

#### NOW IT IS HEREBY AGREED AS FOLLOWS:

- 1. In consideration of the said contract amount to be paid at the time and in the manner set forth in the said conditions, the contractor shall upon and subject to the said conditions execute and complete the work shown in the said drawings and described in the said specifications and the schedule of items and quantities, as per the terms and conditions contained in the said conditions.
- 2. The Bank shall pay the Contractor said contract amount, or such other sum as shall become payable, at the time and in the manner specified in the said conditions.
- 3. The Architects in the said condition shall mean the bank In the event of their ceasing to be the Architects for the purpose of this contract for whatever reason, such other person or persons as shall be nominated for that purpose by the Bank, provided always that no person subsequently appointed as Architects under this contract shall be entitled to disregard or over rule any previous decisions or approvals or directions given or expressed in writing by the Architects for the time being.



- 4. The said general condition, Special condition, technical drawings, Notice Inviting Tender, specifications, Guarantee, Instruction to Tenderers Price Bid (Schedule of Quantities), Correspondences, Letter of Acceptance, Agreements and Appendices there to, contained in the tendered documents/said conditions shall be read and considered as forming part of this Agreement, and the parties hereto shall respectively abide by, submit themselves to the said conditions and perform the agreements on their part respectively in the said conditions contained therein.
- 5. The plans, agreements and documents mentioned herein shall form the basis of this contract. This contract is neither a fixed Lump Sum contract but is a contract to carry out the work in respect of the "Interior Decoration & Furnishing work: AIR CONDITIONING WORK OF SBI TB HUB AT ALKAPURI, VADODARA. for State Bank of India as per the scope described and to be paid for according to actual measured quantities at the rates contained in the Schedule of Rates and /or negotiated rates and Probable quantities or as provided in the said conditions.
- 6. The Bank reserves to itself the rights of altering the specifications and nature of the work by adding to or omitting any items of work or having portions of the same carried out without prejudice to this contract.
- 7. (a) The Contractors represent that they have experience and competent staff which will enable them to ensure proper quality check on the materials, whether brought by the contractors or supplied by the Bank to the contractors, and which will ensure that the contractor will carry out proper tests as required by the specifications and will supervise the day to day working and execution of the contract work.
  - (b) If the contractors have any doubt about the quality of the materials or any difficulty in supervision of the day to day work it shall be duty of the contractors to report the matter in writing forthwith to the Bank and for the time being suspend that portion of the work about which difficulty is experienced, and the contractors will abide by the directions given by the Bank.
  - (c) The contractors are aware that the Bank will not give day to day supervision but will periodically supervise and the contractor has to perform their obligations under the instructions given to him periodically and under sub clauses (a) and (b) above.
  - (d) The contractors covenant and warrant that completed items of work as well as the entire work on completion will be in conformity with the specifications and the terms and conditions contained in the said conditions and will be of contract quality and description.
  - (e) The employer reserves to itself the right of altering the drawings and nature of the work by adding to or omitting any items of work or having portions of the same carried out without prejudice to this contract.
- 8. Time shall be considered as the essence of this contract and the contractor hereby agrees to commence the work on the day on which he is instructed to take possession of the site or from the fourteenth day after the day of issue of formal Work Order as provided for in the said conditions whichever is later and to complete the entire work within 15 Days subject nevertheless to the provisions for the extension of time.
- 9. Any dispute arising under this Agreement shall be referred to arbitration in accordance with the stipulation laid down in the general conditions of contract.



10. The contents of this contract agreement have been read by the contractor and fully understood by the contractor.

IN WITNESS WHERE OF the Bank and the Contractor have set their respective hands to these Presents and two duplicates here of the day and year first herein above written (If the Contractor is a Partnership Firm or an Individual.

IN WITNESS WHERE OF the Bank has set its hands to these presents through its duly authorized official and the contractor has caused its common seal to be affixed here unto and the said duplicates have/has caused these presents and the said two duplicates here of to be executed on its behalf, the day and year first here in above written(If contractor is a Company).

Assistant General Manager of State Bank Of India
<del></del>
(If the Contractor is a Partnership Firm or ar by duly authorized person on behalf of all partners)
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#### SECTION - 1

## **INSTRUCTIONS TO THE TENDERERS**

#### 1.0 Scope of work

Sealed Tenders are invited by SBI for Proposed AIR CONDITIONING WORK OF SBI TB HUB AT ALKAPURI, VADODARA.

#### 1.1 Site and its location

The proposed work is to be carried out at SBI TB HUB AT ALKAPURI, VADODARA.

#### 2.0 Tender documents

2.1 The work has to be carried out strictly according to the conditions stipulated in the tender consisting of the following documents and the most workmen like manner.

Instructions to tenderers
General conditions of Contract
Special conditions of Contract
Additional Specifications
Drawings
Priced bid A

- 2.2 The above documents shall be taken as complementary and mutually explanatory of one another but in case of ambiguities or discrepancies, shall take precedence in the order given below;
  - a) Price Bid
  - b) Additional Specifications
  - c) Technical specifications
  - d) Drawings
  - e) Special conditions of contract
  - f) General conditions of contract
  - g) Instructions to Tenderers
- 2.3 Complete set of tender documents including relative drawings can be downloaded from the website www.sbi.co.in
- **2.4** The tender documents are not transferable.

#### 3.0 Site Visit:

3.1 The tenderer must obtain himself on his own responsibility and his own expenses all information and data that 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 satisfy himself regarding the availability of water, power, transport and communication facilities, the character quality and quantity of the materials, labour, the



law and order situation, climatic conditions local authorities requirement, traffic regulations etc; The tenderer will be fully responsible for considering the financial effect of any or all the factors while submitting his tender.

## 4.0 Earnest Money:

- 4.1 The tenderers are requested to submit the Earnest Money of Rs. 2,700/- by means of Demand Draft/Pay Order(Valid for a period of 90 Days from the last date of submission of the tender) from any scheduled Nationalized Bank drawn in favor of SBI and payable at VADODARA. (Contractors registered with 'MSME UDYAM' need not submit EMD. Instead of EMD, they should submit registration certificate of 'MSME UDYAM')
- 4.2 EMD in any other form other than as specified above will not be accepted. Tender not accompanied by the EMD in accordance with clause 4.1 above shall be rejected.
- 4.3 No interest will be paid on the EMD.
- 4.4 EMD of unsuccessful tenderer will be refunded within 15 Days of award of Contract.
- 4.5 EMD of successful tenderer will be retained as a part of security deposit.
- 5.0 Initial Security Deposit:

The successful tenderer will have to submit a sum equivalent to 2% of accepted tender value less EMD by means of DD drawn in favour of SBI Payable at VADODARA within a period of 7 days of acceptance of tender.

#### **5.1 Security Deposit:**

Total security deposit shall be 5% of contract value. Out of this **NIL** of contract value is in the form of Initial Security Deposit (ISD) which includes the EMD. Balance 3% shall be deducted from the running account bill of the work at the rate of 10% of the respective running account bill i.e., deduction from each running bill account will be @ 10% till Total Security Deposit (TSD) reaches to 5% of contract value. The 50% of the Total Security Deposit shall be paid to the contract on the basis of architect's certifying the virtual completion. The balance 50% would be paid to the contractors after the defects liability period as specified in the contract.

# 5.2 Additional Security Deposit:

Not Applicable

## **5.3 Signing of contract Documents:**

The successful tenderer shall be bound to implement the contract by signing an agreement and conditions of contract attached herewith within 15 Days from the receipt of intimation of acceptance of the tender by the Bank. However, the written acceptance of the tenders by the Bank will constitute a binding agreement between the Bank and successful tenderer whether such formal agreement is subsequently entered in to or not.



## 6.0 Completion Period:

Time is essence of the contract. The work should be completed in all respect accordance with the terms of contract within a period of **15 Days** from the date of award of work.

#### 7.0 Validity of Tender: As per NIT

If the tenderer withdraws his/her offer during the value period or makes modifications in his/her original offer which are not acceptable to Bank without prejudice to any other right or remedy the Bank shall be at liberty to forfeit the EMD.

## 8.0 Liquidated Damages:

The liquidated damages shall be 0.50% per week subject to a maximum of 5% of contract value.

#### 9.0 Rate and prices:

## 9.0.1 In case of item rate tender:

The tenderers shall quote their rates for individual items both in words and figure. In case of discrepancy between the rate quoted in words and figures, the unit rate quantity in words will prevail. If no rate is quoted for a particular item the contractor shall not be paid for that item when it is executed. The amount of each item shall be calculated and the requisite total is given. In case of discrepancy between the unit rate and the total amount calculated from multiplication of unit rate and the quantity the unit rate quoted will govern and the amount will be corrected.

The tenderers need not quote their rates for which no quantities have been given. In case the tenderers quote their rates for such items those rates will be ignored and will not be considered during execution.

The tenderers should not change the units as specified in the tender. If any unit is changed the tenders would be evaluated as per the original unit and the contractor would be paid accordingly.

The tenderer should not change or modify or delete the description of the item. If any discrepancy is observed he should immediately bring to the knowledge of the Architect/SBI Each page of the BOQ shall be signed by the authorized person and cutting or over writing shall be duly attested by him.

Each page shall be totaled and the grand total shall be given.

The rate quoted shall be firm and shall include all costs, allowances, materials, labours, taxes etc. except G.S.T, which shall be payable / reimbursed at actual

The SBI reserve their rights to accept any tenders, either in whole or in part or may entrust the work in phases or may drop the part scope of work at any stage of the project within its sole discretion without assigning any reason(s) for doing so and no claim / correspondence shall be entertained in this regard.



# SIGNATURE OF THE CONTRACTOR WITH SEAL



#### GENERAL CONDITIONS OF CONTRACT

## 1.0 Definitions:-

"Contract means the documents forming the tender and the acceptance thereof and the formal agreement executed between SBI. (client) and the contractor, together with the documents referred there in including these conditions, the specifications, designs, drawings and instructions issued from time to time by the Architects / Bank and all these documents taken together shall be deemed to form one contract and shall be complementary to one another.

In the contract the following expressions shall, unless the context otherwise requires, have the meaning hereby respectively assigned to them.

'SBI' shall mean SBI having its AO, Vadodara and includes the client's representatives, successors and assigns.

- 1.0.1 'Architects/ Consultants' shall mean NOTE APPLICABLE.
- 1.0.2 'Site Engineer' shall mean an Engineer appointed by the SBI at site as their representative for day-to-day supervision of work and to give instructions to the contractors.
- 1.0.3 'The Contractor' shall mean the individual or firm or company whether incorporate not, undertaking the works and shall include legal personal representative of individual or the composing the firm or company and the permitted assignees of individual or firms of company.

The expression 'works' or 'work' shall mean the permanent or temporary work description in the "Scope of work" and/or to be executed in accordance with the contract includes materials, apparatus, equipment, temporary supports, fittings and things of kinds to be provided, the obligations of the contractor hereunder and work to be done by the contractor under the contract.

- 1.0.4 'Engineer' shall mean the representative of the Architect/consultant.
- 1.0.5 'Drawings' shall mean the drawings prepared by the Architects and issued by the Engineer and refer red to in the specifications and any modifications of such drawings as may be issued by the Engineer from time to time Contract value shall mean value of the entire work as stipulated in the letter of acceptance of tender subject such additions there to or deductions there from as may be made under the provide herein after contained.
- 1.0.6 Specifications' shall mean the specifications referred to in the tender and modifications thereof as may time to time be furnished or approved by the Architect/Consultant.
- 1.0.7 "Month" means calendar month.
- 1.0.8 "Week" means seven consecutive days.



- 1.0.9 "Day" means a calendar day beginning and ending at 00 Hrs and 24 Hrs respectively.
- "SBI Engineer" shall mean The Civil/Electrical Engineer in-charge of the Project, as nominated by the Dy. General Manager (B&O), State Bank Of India, ADMIN office, SBI, Vadodara
- 1.1.11 The following shall constitute the Joint Project Committee (herein under referred to as JPC) for assessing and reviewing the progress of the work on the project and to issue instructions or directions from time to time for being observed and followed by the Architects Site Engineer / PMC and other consultants / contractors engaged in the execution of the project.
- i) AGM P & E of SBI
- ii) SBI Engineer (Civil and Electrical) in-charge of the Project
- iii) Concerned partner of the Architects and their Resident Architect Member.

#### **CLAUSE**

## 1.0 Total Security Deposit

Total Security deposit comprise of Earnest Money Deposit, Initial security deposit and Retention Money

#### 1.1 Earnest Money Deposit-

The tenderer shall furnish EMD of **RS. 2,700/-.** in the form of Demand draft or bankers cheque drawn in favour of SBI Payable at VADODARA, on any Scheduled Bank. No tender shall be considered unless the EMD is so deposited in the required form. No interest shall be paid on this EMD. The EMD of the unsuccessful tenderer shall be refunded soon after the decision to award the contract is taken without interest. The EMD shall stand absolutely forfeited if the tenderer revokes his tender at any time the period when he is required to keep his tender open acceptance by the SBI or after it is accepted by the SBI, the contractor fails to enter into a formal agreement or fails to pay the initial security deposit as stipulated or fails to commence the commence the work within the stipulated time.

## 1.2 Initial Security Deposit (ISD)

The amount of ISD shall be **NIL** of accepted value of tender in the form of DD/Fixed Deposit Receipt (FDR) drawn on any scheduled Bank and shall be deposited within 15 Days from the date of acceptance of tender.

#### 1.3 Retention Money:

Besides the SD as deposited by the contractor in the above said manner, the Retention money shall be deducted from the running account bill at the rate of 10% of the gross value of work done by the contractor and claimed in each bill provided the total security deposit i.e. ISD plus EMD plus Retention Money shall both together not exceed 5% of the contract value. The 50% of the total security deposit shall be refunded to the contractor without any interest on issue of Virtual Completion certificate by the



Architect/consultant. The balance 50% of the total security deposit shall be refunded to the contractors without interest within fifteen days after the end of defects liability period provided the contractor has satisfactorily attended to all defects in accordance with the conditions of contract including site clearance.

#### 2.0 Language:

The language in which the contract documents shall be drawn shall be in English.

# 3.0 Errors, omissions and discrepancies:

In case of errors, omissions and/ or disagreement between written and scaled dimensions on the drawings or between the drawings and specifications etc., the following order shall apply.

- i) Between scaled and written dimension (or description) on a drawing, the latter shall be adopted.
- ii) Between the written or shown description or dimensions in the drawings and the corresponding one in the specification the former shall be taken as correct.
- iii) Between written description of the item in the specifications and descriptions in bills of quantities of the same item, the former shall be adopted:
- a) In case of difference between rates written in figures and words, the rate in words shall prevail.
- b) Between the duplicate / subsequent copies of the tender, the original tender shall be taken as correct.

#### 4.0 Scope of Work:

The contractor shall carryout complete and maintain the said work in every respect strictly accordance with this contract and with the directions of and to the satisfaction Bank to be communicated through the architect/consultant. The architect/consultant at the directions of the SBI from time to time issue further drawings and / or write instructions, details directions and explanations which are here after collectively references to as Architect's / consultant's instructions in regard to the variation or modification of the design, quality or quantity of any work or the addition or omission or substitution work. Any discrepancy in the drawings or between BOQ and / or drawings and/or specifications. The removal from the site of any material brought thereon by the Contractor and any substitution of any other materials therefore the removal and/or reexecution of any work executed by him. The dismissal from the work of any person engaged the re upon.

#### 5.0 i) Letter of Acceptance:

Within the validity period of the tender the SBI shall issue a letter of acceptance directly or through the architect by registered post or otherwise depositing at the of the contractor as given in the tender to enter into a Contract for the execution of the work as per the terms of the tender. The letter of acceptance shall constitute a bind contract between the SBI and the contractor.



#### ii) Contract Agreement:

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

## 6.0 Ownership of drawings:

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

## 7.0 Detailed drawings and instructions:

The SBI through its architects / consultants shall furnish with reasonable proper additional instructions by means of drawings or otherwise necessary for the execution of the work. All such drawings and instructions shall be consistent with contract documents, true developments thereof and reasonably inferable there.

The work shall be executed in conformity there with and the contractor 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 architect/consultant

## 7(a) Copies of agreement:

Two copies of agreement duly signed by both the parties with the drawings shall be handed over to the contractors.

#### 8.0 Liquidated damages:

If the contractor fails to maintain the required progress in terms of clause 6.0 of GOC or to complete the work and clear the site including vacating their office on or before the contracted or extended date or completion, without justification in support of the cause of delay, he may be called upon without prejudice to any other right of remedy available under the law to the SBI on account of such breach to pay a liquidated damages at the rate of 0.50% of the contract value which subject to a maximum of 5% of the contract value.

#### 9.0 Materials, Appliances and Employees:

Unless or otherwise specified the contractor shall provide and pay for all materials, labour, water, power, tools, equipment transportation and any other facilities that are required for the satisfactory execution and completion of the work. Unless or otherwise specified all materials shall be new and both workmanship and materials shall be best quality. The contractor shall at all times enforce strict discipline and good order among his employees and shall not employ on the work any unfit person or anyone not skilled in the work assigned to him. Workman whose work or behavior is found to be unsatisfactory by the SBI /Architect/ consultant he shall be removed from the site immediately.



# 10.0 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, and ordinances rules, applicable to the contract. If the contractor observes any discrepancy between the drawings and specifications, he shall promptly notify the SBI in writing under intimation of the Architect/ Consultant. If the contractor performs any act, which is against the law, rules and regulations he shall meet all the costs arising the reform and shall indemnify the SBI any legal actions arising there from.

#### 11.0 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 the contractor shall be responsible for the same ad shall his own expenses rectify such error, if so, required to satisfaction of the SBI

#### 12.0 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, except due to causes beyond his control and due to his fault or negligence.

He shall take adequate care and steps for protection of the adjacent properties. The contractor shall take all precautions for safety and protections 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 on 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 contractor and the SBI and the original policy may be lodged with the SBI

## 13.0 Inspection of work:

The SBI / Architect / Consultant or their representatives shall at all reasonable times 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/Architect/consultant and their representatives necessary for inspection and examination and test of the materials and workmanship. No person unless authorized by the SBI/ Architect

/Consultant except the representative of Public authorities shall be allowed on the work at any time. The proposed work either during its construction stage or its completion can also be inspected by the Chief Technical Examiner's Organization a wing of Central Vigilance commission.



## 14.0 Assignment and subletting:

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

#### 15.0 Quality of materials, workmanship &Test:

All materials and workmanship shall be best of the respective kinds described in the contract and in accordance with Architect/consultant instructions and shall be subject from time to time to such tests as the architect/consultant may direct at the place of manufacture or fabrication or on the site or an approved testing laboratory. The contractor shall provide such assistance, instruments, machinery, labor, and materials as are normally required for examining measuring sampling and testing any material or part of work before in corporation in the work for testing as may be selected and required by the architect/consultant.

#### ii) Samples:

All samples of adequate numbers, size, shades & pattern as per specifications shall be supplied by the contractor without any extra charges. If certain items proposed to be used are of such nature that samples cannot be presented or prepared at the site detailed literature / test certificate of the same shall be provided to the satisfaction of the Architect/consultant before submitting the sample/literature the contractor shall satisfy himself that the material / equipment for which he is submitting the sample / literature meet with the requirement of tender specification. Only when the samples are approved in writing by the architect/consultant the contractor shall proceed with the procurement and installation of the particular material / equipment. The approved samples shall by the signed by the Architect / Consultant for identification and shall be kept on record at site office until the completion of the work for inspection / comparison at any time. The Architect/Consultant shall take reasonable time to approve the sample. Any delay that might occur in approving the samples for reasons of its not meeting the specifications or other discrepancies inadequacy in furnishing samples of best qualities from various manufacturers and such other aspects causing delay on the approval of the materials / equipment etc. shall be to the account of the contractor.

#### iii) Cost of tests:

The cost of making any test shall be borne by the contractor if such test is intended by or provided for in the specification or BOQ.

#### iv) Costs of tests not provided for:

If any test is ordered by the Architect/ Consultant which is either

a) If so intended by or provided for or (in the cases above mentioned) is not so particularized, or though so intended or provided for but ordered by the Architect / Consultant to be carried out by an independent person at any place other than the site



or the place of manufacture or fabrication of the materials tested or any Government / approved laboratory, then the cost of such test shall be borne by the contractor.

#### 16.0 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.

## 17.0 Contractor's superintendence:

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

#### 18.0 Quantities:

The bill of quantities (BOQ) unless or otherwise stated shall be deemed to have been prepared in accordance with the Indian Standard Method of Measurements and quantities. The rate quoted shall remain valid for variation of quantity against individual item to any extent. The entire amount paid under Clause 19, 20 hereof as well as amounts of prime cost and provision sums, if any, shall be excluded.

#### 19.0 Works to be measured:

The Architect/Consultant may from time to time intimate to the contractor that he requires the work to be measured and the contractor shall forthwith attend or send a quantity representative to assist the Architect in taking such measurements and calculation and to furnish all particulars or to give all assistance required by any of them. Such measurements shall be taken in accordance with the Mode of measurements detail in the specifications. The representative of the Architect / Consultant shall take measurements with the contractor's representative and the measurements shall be entered in the measurement book. The contractor or his authorized representative shall sign all the pages of the measurement book in which the measurements have been recorded in token of his acceptance. All the corrections shall be duly attested by both representatives. No over writings shall be made in the M book should the contractor not attend or neglect or omit to depute his representative to take measurements the measurements recorded by the representative of the Architect/consultant shall be final. All authorized extra work, omissions and all variations made shall be included such measurement.

#### 20.0 Variations:

No alteration, omission or variation ordered in writing by the Architect/consultant vitiates the contract. In case the SBI/ Architect / Consultant thinks proper at any during the progress of works to make any alteration in, or additions to or omission from the works or any. Alteration in the kind or quality of the materials to be used therein, the Architect / Consultant shall give notice thereof in writing to the contractor shall confirm in writing within seven days of giving such oral instructions the contract shall alter to, add to, or



omit from as the case may be in accordance with such but the contractor shall not do any work extra to or make any alterations or additions to or omissions from the works or any deviation from any of the provisions of the contract, stipulations, specifications or contract drawings without previous consent in writing of the Architect/ Consultant and the value of such extras, alterations, additions or omissions shall in all cases be determined by the Architect / Consultant and the same shall be added to or deducted from the contract value, as the case maybe.

#### 21.0 Valuation of Variations:

No claim for an extra shall be allowed unless it shall have been executed under the authority of the Architect / Consultant with the concurrence of the SBI as herein mentioned. Any such extra is herein referred to as authorized extra and shall be made in accordance with the following provisions.

- (i) The net rates or prices in the contract shall determine the valuation of the extra work where such extra work is of similar character and executed under similar conditions as the work price herein.
- (ii) Rates for all items, wherever possible should be derived out of the rates given in the priced BOQ.

The net prices of the original tender shall determine the value of the items omitted, provided if omissions do not vary the conditions under which any remaining items of Works are carried out, otherwise the prices for the same shall be valued under sub-Clause 'c' hereunder.

Where the extra works are not of similar character and/or executed under similar conditions as aforesaid or where the omissions vary the conditions under which any remaining items or works are carried out, then the contractor shall within 7 days of the receipt of the letter of acceptance inform the Architect/ consultant of the rate which he intends to charge for such items of work, duly supported by analysis of the rate or rates claimed and the Architect/consultant shall fix such rate or prices as in the circumstances in his opinion are reasonable and proper, based on the market rate.

Where extra work cannot be properly measured or valued the contractor shall be allowed day work prices at the net rates stated in the tender, of the BOQ or, if not, so stated then in accordance with the local day work rates and wages for the district; provided that in either case, vouchers specifying the daily time (and if required by the Architect/Consultant) the workman's name and materials employed be delivered for verifications to the Architect/consultant at or before the end of the week following that in which the work has been executed.

It is further clarified that for all such authorized extra items where rates cannot be derived from the tender, the Contractor shall submit rates duly supported by rate analysis worked on the 'market rate basis for material, labor hire / running charges of equipment and wastages etc. plus 15% towards establishment charges, contractor's overheads and profit. Such items shall, not be eligible for escalation.



## 22.0 Final measurement:

The measurement and valuation in respect of the contract shall be completed within two months of the virtual completion of the work.

## 23.0 Virtual Completion Certificate (VCC):

On successful completion of entire works covered by the contract to the full satisfaction of the SBI, the contractor shall ensure that the following works have been completed the satisfaction of the SBI:

Clear the site of all scaffolding, wiring, pipes, surplus materials, contractor's labour equipment and machinery.

Demolish, dismantle and remove the contractor's site office, temporary works, structure including labour sheds/camps and constructions and other items and things whatsoever brought upon or erected at the site or any land allotted to the contractor by the SBI not incorporated in the permanent works.

Remove all rubbish, debris etc. from the site and the land allotted to the contractor by the SBI and shall clear, level and dress, compact the site as required by the SBI Shall put the SBI in undisputed custody and possession of the site and all land allot by the SBI Shall hand over the work in a peaceful manner to the SBI All defects / imperfections have been attended and rectified as pointed out by the Architects to the full satisfaction of SBI Upon the satisfactory fulfillment by the contractor as stated above, the contractor is entitled to apply to the Architect / consultant is satisfied of the completion of work. Relative to which the completion certificate has been sought, the Architect/ consultant shall within fourteen (14) days of the receipt of the application for completion certificate, issue a VCC in respect of the work for which the VCC has applied.

This issuance of a VCC shall not be without prejudice to the SBI rights and contractor liabilities under the contract including the contractor's liability for defects liability nor shall the issuance of VCC in respect of the works or work at any site be construction as a waiver of any right or claim of the SBI against the contractor in respect of or work at the site and in respect of which the VCC has been issued.

#### 24.0 Work by other agencies:

The SBI / Architect / consultant reserves the rights to use premises and any portion the site for execution of any work not included in the scope of this contract which it may desire to have carried out by other persons simultaneously and the contractor shall not only allow but also extend reasonable facilities for the execution of such work. The contractor however shall not be required to provide any plant or material for the execution of such work except by special arrangement with the SBI. Such work shall be carried out in such manner as not to impede the progress of the works included in the contract.

#### 25.0 Insurance of works:

Without limiting his obligations and responsibilities under the contract the contractor shall insure in the joint names of the SBI And the contractor against all loss of 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 SBI and contractor are covered for the period stipulated I clause of GCC 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 occasioned by the contractor in the course of any operations carried out by him for the purpose of complying with his obligations under clause.

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.

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.

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 the policy if insurance and the receipts for payment of the current premiums.

#### 26.0 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:

- a) The permanent use or occupation of land by or any part thereof.
- b) The right of SBI to execute the works or any part thereof on, over, under, in or through any lands.
- c) Injuries or damages to persons or properties which are unavoidable result of the execution or maintenance of the works in accordance with the contract.
- d) 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 for 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.

## **27.0 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 26.0 of this clause.

## 28.0 Contractor's superintendence:

The contractor shall fully indemnify and keep indemnified the SBI against any action,



claim, or proceeding relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay any royalties which may be payable in respect to any article or part thereof included in the contract. In the event of any claim made under or action brought against SBI in respect of such matters as aforesaid the contractor shall be immediately notified thereof and the contractor shall be at liberty, at his own expenses to settle any dispute or to conduct any litigation that may arise there from, provided that the contractor shall not be liable to indemnify the SBI if the infringement of the patent or design or any alleged patent or design right is the direct result of an order passed by the Architect / consultant in this behalf.

## 29.0 Third Party Insurance:

Before commencing the execution of the work the contractor but without limiting his obligations and responsibilities under clause 25.0 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 the carrying out of the contract, otherwise than due to the matters referred to in the provision to clause 25.0 thereof.

#### 30.0 Minimum amount of Third Party Insurance:

Such insurance shall be affected 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. Architect / 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 Lakh 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.

#### 31.0 Accident or Injury to workman:

The SBI Shall not be liable for or in respect to any damages or compensation payable at law in respect or inconsequence of any accident or injury to any workmen or other person in the employment of the contractor or 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.

# 32.0 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 that any persons are employed by him on the works and shall, when required, produce to the architect / 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 insured 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 Architect /consultant when such policy of insurance and the receipt for the payment of the current premium.

#### 33.0 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 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 others rights of the SBI against contractors. In respect of such default, the employer 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.

# 34.0 Commencement of Works:

The date of commencement of the work will be reckoned from the date of award of letter by the SBI

## 35.0 Time for completion:

Time is essence of the contract and shall be strictly observed by the contractor. The entire work shall be completed within a period of <a href="mailto:15">15</a> Days from the date of commencement. If required in the contract or as directed by the Architect / consultant. The contractor shall complete certain portions of work before completion of the entire work. However, the completion date shall be reckoned as the date by which the whole work is completed as per the terms of the contract.

## 36.0 Extension of time:

If, in the opinion of the Architect/consultant, the work be delayed for reasons beyond the control of the contractor, the Architect/consultant may submit a recommendation to the SBI to grant a fair and reasonable extension of time for completion of work as per the terms of contract. If the contractor needs an extension of time for the completion of work or if the completion of work is likely to be delayed for any reasons beyond the due date of completion as stipulated in the contract, the contractor shall apply to the SBI Through the Architect' Consultant in writing at least 15 Days before the expiry of the scheduled time and while applying for extension of time he shall furnish the reason in detail and his justification if an', for the delays. The architect/consultant shall submit their recommendations to the SBI in the prescribed format for granting extension of time.



While granting extension of time the contractor shall be informed the period extended time which will qualify for levy of liquidated damages. For the balance period in excess of original stipulated period and duly sanctioned extension of time by the provision of liquidated damages as stated under clause 10.0 shall become applicable. Further the contract shall remain in force even for the period beyond the due date of completion irrespective whether the extension is granted or not.

#### 37.0 Rate of progress:

Whole of the materials, plant and labour to be provided by the contractor and the mode, manner and speed of execution and maintenance of the works are to be of a kind and conducted in a manner to the satisfaction of the Architect/consultant should the rate of progress of the work or any part thereof be at any time be in the opinion the. Architect / consultant too Slow to ensure the completion of the whole of the work the prescribed time or extended time for completion the Architect/consultant shall the re upon take such steps as considered necessary by the Architect / consultant to expedite progress so as to complete the works by the prescribed time or extended time. Such communications from the Architect / consultant neither shall relieve. The contractor from fulfilling obligations under the contract nor he will be entitled to raise any claims arising out of such directions.

## 38.0 Work during nights and holidays:

Subject to any provision to the contrary contained in the contract no permanent work shall save as herein provided be carried on during the night or on holidays without the permission in writing of the Architect/consultant, save when the work is unavoidable or absolutely necessary for the saving of life or property or for the safety of the work in which case the contractor shall immediately advise the Architect / consultant. However the provisions of the clause shall not be applicable in the case of any work which becomes essential to carry by rotary or double shifts in order to achieve the progress and quality of the part of the works being technically required / continued with the prior approval of the Architect / consultant at no extra cost to the SBI.

All work at night after obtaining approval from competent authorities shall be carried out without unreasonable noise and disturbance.

#### 39.0 No compensation or restrictions of work:

If at any time after acceptance of the tender SBI shall decide to abandon or reduce the scope of work for any reason whatsoever and hence not required the whole or any part of the work to be carried out. The Architect / consultant shall give notice in writing that effect to the contractor and the contractor shall act accordingly in the matter. The contractor shall have no claim to any payment of compensation or otherwise what so ever on account of any profit or advantage which he might have derived from the execution of the Work fully but which he did not derive in consequence of the fore closure of the whole or part of the work.

Provided that the contractor shall be paid the charges on the cartage only of materials actually and bonafide brought to the site of the work by the contractor and rendered



surplus as a result of the abandonment, curtailment of the work or any portion thereof and then taken back by the contractor, provided however that the Architect/Consultant shall have in such cases the option of taking over all or any such materials at their purchase price or a local current rate whichever is less.

In case of such stores having been issued from SBI stores and returned by the contractor to stores, credit shall be given to him at the rates not exceeding those at which were originally issued to the contractor after taking into consideration and deduction for claims on account of any deterioration or damage while in the custody of the contractor and in this respect the decision of Architect / consultant shall be final.

## 40.0 Suspension of work:

The contractor shall, on receipt of the order in writing of the Architect / consultant (whose decision shall be final and binding on the contractor) suspend the progress of works or any part the offer such time and in such manner as Architect/consultant may consider necessary so as not to cause any damage or injury to the work already done or endanger the safety thereof for any of following reasons:

- a) On account any default on the part of the contractor, or
- b) For proper execution of the works or part thereof for reasons other than the default the contractor, or
- c) For safety of the works or part thereof.

The contractor shall, during such suspension, properly protect and secure the works the extent necessary and carry out the instructions given in that behalf by the Architect / consultant.

i)If the suspension is ordered for reasons (b) and (c) in sub-para (i) above:

The contractor shall be entitled to an extension of time equal to the period of every such suspension. No compensation whatsoever shall be paid on this account.

#### 41.0 Action when the whole security deposit is forfeited:

In any case in which under any clause or clauses of this contract, the Contractor shall have rendered himself liable to pay compensation amounting to the whole of his security deposit the Architect / consultant shall have the power to adopt any of the following course as they may deem best suited to the interest of the SBI:

To rescind the contract (of which rescission notice in writing to the contractor by -Architect / consultant shall be conclusive evidence) and in which case the security, deposit of the contractor shall be forfeited and be absolutely at the disposal of SBI.

To employ labour paid by the SBI and to supply materials to carry out the work, or part of the work, debiting the contractor with the cost of the labour and materials cost of such labour and materials as worked out by the Architect / consultant shall final and conclusive against the contractor) and crediting him with the value of the work done, in all respects in the same manner and at the same manner and at the same rates as if it had been carried out by the contractor under the terms of this contract certificate of architect /consultant as to the value of work done shall be final conclusive against the



contractor.

To measure up the work of the contractor, and to take such part thereof as shall unexecuted, out of his hands, and to give it to another contractor to complete in which case any expenses which may be incurred in excess of the sum which would have been paid to the original contractor, if the whole work had been executed by him(The amount of which excess the certificates in writing of the Architects / consultant shall final and conclusive) shall be borne by original contractor and may be deducted any money due to him by SBI under the contract or otherwise, or from his security deposit or the proceeds of sale thereof, or sufficient part thereof.

In the event of any of above courses being adopted by the SBI the contractor shall have no claim to compensation for any loss sustained by him by reasons of his having purchased or procured any material or entered into any engagements or make any advances on account of, or with a view to the execution of the work or the performance of the contract and incase the contract shall be rescind under the provision aforesaid, the contractor shall not be entitled to recover or to be paid any sum or any work thereto for actually performed under this contract, unless, and until the Architect / consultant will have certified in writing the performance of such work and the value payable in respect thereof, and he shall only been titled to be paid the value so certified.

## **42.0 Owner's right to terminate the contract:**

If the contractor being an individual or a firm commit any 'Act of insolvency' or shall be adjusted an insolvent or being an incorporated company shall have an order for compulsory winding up voluntarily or subject to the supervision of Govt. and of the Official Assignee of the liquidator in such acts of insolvency or winding up shall be unable within seven days after notice to him to do so, to show to the reasonable satisfaction of the Architect / Consultant that he is able to carry out and fulfill the contract, and to dye security therefore if so required by the Architect / Consultant.

Or if the contractor (whether an individual firm or incorporated Company) shall suffer execution to be issued or shall suffer any payment under this contract to be attached by or on behalf of any of the creditors of the contractor.

Or shall assign or sublet this contract without the consent in writing of the SBI through the Architect/Consultant or shall charge or encumber this contract or any payment due to which may become due to the contractor there under:

has abandoned the contract; or

has failed to commence the works, or has without any lawful excuse under these conditions suspended the progress of the works for 14 days after receiving from the SBI through the Architect / consultant written notice to proceed, or

has failed to proceed with the works with such diligence and failed to make such due progress as would enable the works to be completed within the time agreed upon, or



has failed to remove the materials from the site or to pull down and replace work within seven days after written notice from the SBI through the Architect / Consultant that the said materials were condemned and rejected by the Architect/ consultant under these conditions; or has neglected or failed persistently to observe and perform all or any of the acts matters or things by this contract to be observed and performed by the contactor for seven days after written notice shall have been given to the contractor to observe or perform the same or has to the detriment of good workmanship or in defiance of the SBI or Architect's / consultant's instructions to the contrary subject any part of the contract. Then and in any of said cases the SBI and or the Architect / consultant, may not withstanding any previous waiver, after giving seven days' notice in writing to the contractor, determine the contract, but without thereby affecting the powers of the SBI or the Architect/consultant or the obligation and liabilities of the contractor the whole of which shall continue in force as fully as if the contract had not been determined and as if the works subsequently had been executed by or on behalf of the contractor. And, further the SBI through the Architect / consultant their agents or employees may enter upon and take possession of the work and all plants, took scaffoldings, materials, sheds, machineries lying upon the premises or on the adjoining lands or roads use the same by means of their own employees or workmen in carrying on and completing the work or by engaging any other contractors or persons to the work and the contractor shall not in any was interrupt or do any act, matter or thing to prevent or hinder such other contractor or other persons employed for complement and finishing or using the materials and plant for the works.

When the works shall be completed or as soon thereafter as convenient the SBI Or architect/consultant shall give a notice in writing to the contractor to remove his surplus materials and plants and should the contractor fail to do so within 14 days after receive thereof by him the SBI sell the same by publication, and after due publication, and shall, adjust the amount realized by such auction. The contractor shall have no right to question any of the act of the SBI incidental to the sale of the materials etc.

## 43.0 Certificate of payment:

The contractor shall be entitled under the certificates to be issued by the Architect / consultant to the contractor within 10 working days from the date of certificate to payment from SBI From time to time SBI shall recover the statutory recovering other dues including the retention amount from the certificate of payment. Provided always that the issue of any certificate by the Architect / consultant during progress of works or completion shall not have effect as certificate of satisfaction relieve the contractor from his liability under clause.

The Architect / consultant shall have power to withhold the certificate if the work or in part thereof is not carried out to their satisfaction. The Architect/consultant may by any certificate make any corrections required previous certificate.

The SBI shall modify the certificate of payment as issued by the architect/ consultant from time to time while making the payment

The contractor shall submit interim bills only after taking actual measurements and properly recorded in the Measurement books.



The Contractor shall not submit interim bills when the approximate value of work done by him is less than **Rs.NIL**.

The final bill may be submitted by contractor within a period of one month from the date of virtual completion and Architect / consultant shall issue the certificate of payment within a period of two months. The SBI Shall pay the amount within a period of three months from the date of issue of certificate provided there is no dispute in respect of rates and quantities.

The contractor shall submit the interim bills in the prescribed format with all details.

#### <u>44.0</u>

# A. Settlement of Disputes and Arbitration:

Except where otherwise provided in the contract all questions and disputes to the meaning of the specifications, design, drawings and instructions herein before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings specifications, estimates, instructions orders or these conditions or otherwise concerning the work or the execution or failure to execute the same whether arising during the progress of the work or after the cancellation, termination, completion or abandonment thereof shall be dealt with as mentioned hereinafter:

If the contractor considers that he is entitled to any extra payment or compensation in respect of the works over and above the amounts admitted as payable by the Architect or in case the contractor wants to dispute the validity of any deductions or recoveries made or proposed to be made from the contractor raise any dispute, the contractor shall forthwith give notice in writing of his claim, or dispute to the Assistant General Manager AO VADODARA BRANCH State Bank of India, at VADODARA and endorse a copy of the same to the Architect, within 15 Days from the date of disallowance thereof or the date of deduction or recovery. The said notice shall give full particulars of the claim, grounds on which it is based and detailed calculations of the amount claimed and the contractor shall not be entitled to raise any claim nor shall the SBI be in any way liable in respect of any claim by the contractor unless notice of such claim shall have been given by the contractor to the Assistant General Manager AO VADODARA BRANCH State Bank of India, at VADODARA in the manner and within the time as aforesaid. The Contractor shall be deemed to have waived and extinguished all his rights in respect of any claim not notified to the Assistant General Manager AO VADODARA BRANCH State Bank of India, at VADODARA in writing in the manner and within the time aforesaid.

## **B. Settlement of Disputes and Arbitration:**

The Assistant General Manager AO VADODARA BRANCH State Bank of India, at VADODARA shall give his decision in writing on the claims notified by the receipt of the contractor may within 15 Days of the receipt of the decision of the Submit his claims to the conciliating authority namely the DGM & CDO,SBI, LHO, Ahmedabad for conciliation along with all details and copies of correspondence exchanged between him and the SBI If the conciliation proceedings are terminated without settlement of the disputes, the contractor shall, within a period of 15 Days of termination thereof shall give a notice to the concerned DGM. & CDO of the SBI for appointment of an arbitrator to adjudicate the notified claims falling which the claims of the contractor shall be deemed to have been considered absolutely barred and waived.



Except where the decision has become final, binding and conclusive in terms of the contract, all disputes or differences arising out of the notified claims of the contractor as aforesaid and all claims of the SBI shall be referred for adjudication through arbitration by the Sole Arbitrator appointed by the DGM. & CDO and who will be of Deputy General Manager rank. It will also be no objection to any such appointment that the Arbitrator so appointed is a SBI, Officer and that he had to deal with the matters to which the Contract relates in the course of his duties as SBI, Officer. If the arbitrator so appointed is unable or unwilling to act or resigns his appointment or vacates his office due to any reason whatsoever another sole arbitrator shall be appointed in the manner aforesaid by the said DGM. & CDO of the SBI Such person shall be entitled to proceed with the reference from the stage at which it was let by his predecessor.

It is a term of this contract that the party invoking arbitration shall give a list of disputes with amounts claimed in respect of each dispute along with the notice for appointment of arbitrator.

It is also a term of this contract that no person other than a person appointed by such Chief General Manager as aforesaid should act as arbitrator. The conciliation and arbitration shall be conducted in accordance with the provisions of the Arbitration & Conciliation Act 1996 or any or any accordance modification or reenactment thereof and the rules made there under.

It is also a term of the contract that if any fees are payable to the Arbitrator these shall be paid equally by both the parties. However, no fees will be payable to the arbitrator if he is a SBI Officer.

It is also a term of the contract that the Arbitrator shall be deemed to have entered on the reference on the date he issues notice to both the parties calling them to submit their statement of claims and counter statement of claims. The venue of the arbitration shall be such place as may be fixed by the arbitrator in his sole discretion. The fees, if any of the arbitrators shall, if required to be paid before the award is made and published, be paid half and half by each of the parties. The Cost of the reference and of the award (including the fees, if any of the arbitrator) shall be in the discretion of the arbitrator who may direct to any by whom and din what manner, such costs or any part thereof, shall be paid and fix or settle the amount of costs to be so paid.

## 45.0 Water supply:

The contractor shall make his own arrangements for water required for the work and nothing extra will be paid for the same. This will be subject to the following condition.

- i) That the water used by the contractor shall be fit for construction purposes to the satisfaction of the Architect /consultant's.
- ii) The contractor shall make alternative arrangements for the supply of water if the arrangement made by the contractor for procurement of water in the opinion of the Architect / consultant is unsatisfactory.



iii) In case contractor is permitted to use SBI source of water i.e. Municipal connection, Bore well (existing or new) etc., the SBI will recover as per clause 51.0 of this document form the final bill of contractor.

The contractor shall construct temporary well / tube well in SBI land for taking water for construction purposes only after obtaining permission in writing from the SBI The contractor has to make his own arrangements for drawing and distributing the water at his own cost. He has to make necessary arrangements. To avoid any accidents or damages caused due to construction and subsequent maintenance of the wells. He has to obtain necessary approvals from local authorities, if required, at his own cost. He shall restore the ground to its original condition after wells are dismantled on completion of work or hand over the well to the SBI without any compensation as directed by the architect /consultant.

## 46.0 Power supply:

The contractor shall make his own arrangements for power and supply / distribution system for driving plant or machinery for the work and for lighting purpose at his own cost, the cost of running and maintenance of the plants are to be included in his tender prices, He shall pay all fees and charges required, by the power supply and include the same in his tendered rates and hold the owner free from all such costs. He has to obtain necessary approval from the appropriate authorities, if required.

In case contractor is permitted to use Bank's source of power supply provided at one point, the SBI will recover as per clause 51.0 of this document from the final bill of contractor.

### 47.0 Treasure trove etc.

Any treasure trove, coin or object antique which may be found on the site shall be the property of SBI and shall be handed over to the bank immediately.

#### 48.0 Method of measurement:

Unless otherwise mentioned in the schedule of quantities or in mode of measurement, the measurement will be on the net quantities or work produced in accordance with up to date rules laid down by the Bureau of Indian Standards. In the event any dispute/disagreement the decision of the Architect / consultant shall be final and binding on the corrector.

# 49.0 Maintenance of registers:

The contractor shall maintain the following registers as per the enclosed perform at site of work and should produce the same for inspection of SBI /Architect / consultant whenever desired by them. The contractor shall also maintain the records / registers as required by the local authorities / Govt. from time to time.

- i) Register for secured advance
- ii) Register for hindrance to work
- iii) Register for running account bill
- iv) Register for labour



## 50.0 Force Majeure:

Neither contractor nor SBI shall be considered in default in performance of the obligations if such performance is prevented or delayed by events such as but not war, hostilities revolution, riots, civil commotion, strikes, lockout, conflagrations, epidemics, accidents, fire, storms, floods, droughts, earthquakes or ordinances or any act of or for any other cause beyond the reasonable control of the party affected or prevents or delayed. However, a notice is required to be given within 15 Days from the happening of the event with complete details, to the other party to the contract, if it is not possible to serve a notice, within the shortest possible period without delay.

As soon as the cause of force majeure has been removed the party whose ability perform its obligations has been affected, shall notify the other of such cessation and the actual delay incurred in such affected activity adducing necessary evidence in support thereof.

From the date of occurrence of a case off or force majeure obligations of the party affected.

# 51.0 Water power and other facilities:

The rate quoted by the contractor shall include all expenses that are required for providing all the water required for the work and the contractor shall make his own arrangements for the supply of good quality water suitable for the construction and good quality drinking water for their workers If necessary the contractor has to sink a tube well

/ open well and bring water by means of tankers at his own cost for the purpose The SBI will not be liable to pay any charges in connection with the above

The rate quoted in the tender shall include the expenses for obtaining and maintaining power connections and shall pay for the consumption charges

The contractors for other trades directly appointed by the SBI shall be entitled to take power and water connections from the temporary water and power supply obtained by the contractor However, the concerned contractor shall make their own arrangements to draw the supply and pay directly the actual consumption charges at mutually agreed rates between them. All municipal charges for drainage and water connection for Construction purposes shall be borne by the contactor and charges payable for permanent connections, if any, shall be initially paid by the contactor and the SBI will reimburse the amount on production of receipts.

The SBI as well as the Architect / consultant shall give all possible assistance to the Contractor's to obtain the requisite Permission from the various authorities, but the responsibility for obtaining the same in time shall be of the contractor.

In case contractor is permitted to use Bank's source of water and power supply provided at one point, the SBI will recover @ 0.50% of final bill amount for water and electricity (combined) from the bill of contractor.



# 52.0 Facilities for contractor's employees:

The contractor shall make his own arrangement for the housing and welfare of his staff and workmen including adequate drinking water facilities. The contractor shall also make the arrangements at his own cost for transport where necessary for his staff and workmen to and from site of work at his own cost.

## 53.0 Lighting of works:

The contractor shall at all times provide adequate and approved lighting as required for the proper execution and supervision and inspection of work.

## 54.0 Firefighting arrangements:

The contractor shall provide suitable arrangement for firefighting at his own cost. This purpose he shall provide requisite number of fire extinguishers and adequate number of buckets, some of which are to be always kept filled with sand and some with water these equipment shall be provided at suitable prominent and easily accessible place and shall be properly maintained.

Any deficiency in the fire safety or unsafe conditions shall be corrected by the contractor at his own cost and, to the approval of the relevant authorities. The contractors make the following arrangements at his own cost but not limited the following:

- a) Proper handling, storage and disposal of combustible materials and waste.
- b) Work operations which can create fire hazards.
- c) Access for fire-fighting equipment.
- d) Type, number and location of containers for the removal of surplus materials and Rubbish.
- e) Type, size, number and location of fire extinguishers or other tire fighting equipment.
- f) General housekeeping.

### 55.0 Site order book:

A site order book shall be maintained at site for the purpose of quick communication between the Architect / Consultant. Any communication relating to the work may be conveyed through records in the site order book. Such a communication from one party to the other shall be deemed to have been adequately served in terms of contract Each site order book shall have machine numbered pages in triplicate and shall carefully maintained and preserved by the contractor and shall be made available to the architect /consultant as and when demanded- Any instruction which the architect/consultant may like to issue to the contractor or the contractor may like to bring to the architect / consultant two copies of such instructions shall be taken from the site order book and one copy will be handed over to the party against proper acknowledgment and the second copy will be retained for their record.

#### 56.0 Temporary fencing/barricading:

The contractor shall provide and maintain a suitable temporary fencing/barricading and gates at his cost to adequately enclose all boundaries of the site for the protection of the public and for the proper execution and security of the work and in accordance with the requirement of the architect/consultant and regulations of local authorities. These shall



be altered, relocated and adopted from time to time as necessary and removed on completion of the work.

## 57.0 Site meetings:

Site meetings will be held to review the progress and quality evaluation. The contractor shall depute a senior representative along with the site representative and other staff of approved sub-contractors and suppliers as required to the site meetings and ensure all follow up actions. Any additional review meetings shall he held if required by the architect/ consultant.-

## 58.0 Disposal of refuse:

The contractor shall cart away all debris, refuse etc. arising from the work from the site and deposit the same as directed by the architect / consultant at his own cost. It is the responsibility of the contractor to obtain from the local authorities concerned to the effect that all rubbish arising out of contractor's activities at the construction site or any other off-site activities borrow pits has been properly disposed off.

### 59.0 Contractor to verify site measurement:

The contractor shall check and verify all site measurements whenever requested other specialists contractors or other sub-contractors to enable them to prepare the own shop drawing and pass on the information with sufficient promptness as will in any way delay the works.

## 60.0 Displaying the name of the work:

The contractor shall put up a name board of suitable size as directed by the architect/consultant indicating there in the name of the project and other details as given by the architect/consultant at his own cost and remove the same on completion of work.

#### 61.0 As built drawings:

For the drawings issued to the contractor by the Architect / Consultant. The architect Consultant will issue two sets of drawings to the Contractor for the items for some changes have been made. From the approved drawings as instructed by the SBI / Architect / Consultant. The contractor will make the changes made on these copies and return these copies to the architect / Consultant for their approval. In cases revision is required or the corrections are not properly marked the architect/Consultant will point out the discrepancies to the contractor. The contractor will have to incorporated these corrections and / or attend to discrepancies either on copies as directed by the architect / consultant and resubmit to him for approval. The architect / consultant will return one copy duly approved by him.

For the drawings prepared by the contractor:

The contractor will modify the drawing prepared by him wherever the changes made by the SBI / architect / consultant. And submit two copies of such modified drawings to the architect/ consultant for approval. The architect / consultant will return one copy of the approved drawing to the contractor.

#### 62.0 Approved make:



The contractor shall provide all materials from the list of approved makes at his own cost and also appoint the specialized agency for the waterproofing, anti-termite treatment, aluminum doors and windows and any other item as specified in the tender. The architect/consultant may approve any make / agency within the approved list as given in the tender after inspection of the sample/mockup.

#### 63.0 Procurement of materials:

The contractor shall make his own arrangements to procure all the required materials for the work. All wastages and losses in weight shall be to the contractors account

### 64.0 Excise duty, taxes, levies etc.;

The contractor shall pay and be responsible for payment of all taxes, duties, levies, royalties, fees, cess or charges in respect of the works including but not limited to sales tax, tax on works contract excise duty, and Octroi, payable in respect of materials, equipment plant and other things required for the contact. All of the aforesaid taxes, duties, levies, fees and charges shall be to the contractor's account and the SBI Shall not be required to pay any additional or extra amount on this account. Variation of taxes, duties, fees, levies etc. if any, till completion of work shall be deemed to be included in the quoted rates and no extra amount on this account. Variation of taxes, duties, fees, levies etc. if any, till completion of work shall be deemed to be included in the quoted rates and no extra claim on this account will in any case be entertained. If a new tax or duty or levy or cess or royalty or Octroi is imposed under as statutory law during the currency of contract the same shall be borne by the contractor. However, GST will be paid extra.

### 65.0 Acceptance of tender:

The SBI shall have the right to reject any or all tenders without assigning any reason. They are not to bind to accept the lowest or any tender and the tenderer or tenderers shall have no right to question the acts of the SBI. However adequate transparency would be maintained by the SBI

#### 66.0 Photographs:

The Contractor shall at his own expense supply to the Architects with duplicate hard copies of large photographs not less than 25 cm. x 20 cm. (10" x 8") of the works, taken from two approved portions of each building, at intervals of not more than one months during the progress of the work or at every important stage of construction.

In addition to above, the contractor shall be bound to submit adequate no. of site photographs along with each Running Bill for the project clearing showing major progress of work measured and claimed therein failing which the Architect/ SBI may consider returning the Bill to the contractor and no claim for delay on this account will be entertained.

#### 67.0 Safety Codes:



- 1. First aid appliances including adequate supply of sterilized dressing and cotton wool shall be kept in a readily accessible place.
- 2. An injured person shall be taken to a public hospital without loss of time, in cases when the injury necessitates hospitalization.
- 3. Suitable and strong scaffolds should be provided for workmen for all works that cannot safely be done from the ground.
- 4. No portable single ladder shall be over 8 meters in length. The width between the side rails shall not be less than 30 cm. (clear) and the distance between two adjacent running's shall not be more than 30 cm. When a ladder is used an extra labour shall be engaged for holding ladder.
- 5. The excavated material shall not be placed within 1.5 meters of the edge of the trench half of the depth of trench whichever is more. All trenches and excavations shall be provided with necessary fencing and lighting.
- 6. Every opening in the floor of a building or in a working platform be provided with suitable means to prevent the fall of persons or materials by providing suitable fencing or railing whose minimum height shall be one meter.
- 7. No floor, roof or other part of the structure shall be so overloaded with debris or material as to render it unsafe.
- 8. Workers employed on mixing and handling material such as asphalt, cement, mortar, concrete and lime shall be provided with protective footwear and rubber hand gloves.
- 9 Those engaged in welding works shall be provided with welders' protective eye shield and gloves.
- 10. (i) No paint containing lead or lead products shall be used except in the form of paste readymade paint.
- (ii)Suitable face masks should be supplied for use by the workers when the paint applied in the form of spray or surface having lead paint dry rubbed and scrapped.
- 11. Overalls shall be supplied by the contractor to the painters and adequate facilities shall be provided to enable the working painters to wash during cessation of work.
- 12 Hoisting machines and tackle used in the works including their attachments anchor and supports shall be in perfect condition.
- 13. The ropes used in hoisting or lowering material or as a means of suspension shall be durable quality and adequate strength and free form defects.



## **APPENDIX HEREIN BEFORE REFERRED TO**

1) Name of the organization Offering Contract: The Chief Manager (HR & Admin), State Bank Of India, AO, VADODARA 2) Consultants : NOTE APPLICABLE 3) Site Address : SBI TB HUB AT ALKAPURI, VADODARA. 4) Scope of Work : Proposed AIR CONDITIONING WORK OF SBI TB HUB AT ALKAPURI, VADODARA 5)Name of the Contractor 6)Address of the Contractor .\_\_\_\_ 7) Period of Completion 15 Days from the date of Issue of work order. Rs. 2,700/-8) Earnest Money Deposit by means of Demand Draft/Pay Order (Valid for a period of 90 Days from the last date of submission of the tender) from any scheduled Nationalized Bank drawn in favor of State Bank of India and payable VADODARA. (Contractors registered with 'MSME UDYAM' need not submit EMD. Instead of EMD, they should submit registration certificate of 'MSME UDYAM') 9) Retention Money As per clause no. 1.4 of general Conditions 10) Defects Liability Period Twelve Months from the date of Virtual Completion. 11) Insurance to be undertaken by the 125% of Contract Value Contractor at his cost(Contractor's all risk policy) 12) Liquidated damages 0.5% of the Contract amount



shown in the tender per week subject to max. 5% of the contract value or actual final bill value.

13) Value of Interim Bill(Min.) after Satisfactory completion of work.	: Only full and final payment shall be made
14) Date of Commencement Issued to the Contractor/ or the Day on which the Contractor is Instructed to take possession of The site whichever is earlier.	: From the date of work order
15) Period of Final Measurement	<ul><li>2 Months from the date of Virtual Completion.</li></ul>
16) Initial Security Deposit	: <b>NIL</b> of the Accepted Value of the Tender.
17) Total Security Deposit	: 5% of the final bill amount.
18) Refund of initial Security Depos comprising of EMD and ISD. shall be refunded to the Contractor only after the Defect Liability Period	: 50% of the Security Deposit on completion of the work and balance refunded
19) Period for Honoring Certificate	: One Month for R.A.Bills
for completion work and the Bill sha	by the Contractor within one month of the date fixed all be Certified within 3 months from the date of are submitted with all pre-requisite documents/test
Signature of Tondoror	
Signature of Tenderer.	
Date:	



## **LETTER OF DECLARATION**

To, The Chief Manager (HR & Admin.) State Bank Of India, Admin. Office, Vadodara

Dear Sir,

# PROPOSED AIR CONDITIONING WORK OF SBI TB HUB AT ALKAPURI. VADODARA.

Having examined the terms & conditions, drawings, specifications, design relating to the works specified in the memorandum hereinafter set out and having visited and examined the site of the works specified in the said memorandum and having acquired the requisite information relating thereto and affecting the quotation, I/We hereby offer to execute the works specified in the said memorandum within the time specified in the said memorandum on the item rate basis mentioned in the attached schedule and in accordance in all respect with the specifications, design, drawings and instructions in writing referred to in conditions of Tender, the articles of agreement, conditions of contract and with such conditions so far as they may be applicable.

#### **MEMORANDUM**

(a)	Description of work	AIR CONDITIONING WORK OF SBI TB HUB AT ALKAPURI, VADODARA .
(b)	Earnest Money	Rs. 2,700/- by means of Demand Draft / Pay Order from any scheduled Nationalized Bank drawn in favor of of State Bank Of India and payable at VADODARA. (Contractors registered with 'MSME UDYAM' need not submit EMD. Instead of EMD, they should submit registration certificate of 'MSME UDYAM')
(c)	Time allowed for completion of work from the date of issue of work order.	15 Days from the date of commencement as per tender.

Should this tender be accepted, I/we hereby agree to abide by and fulfill the terms and provisions of the said conditions of Contract annexed hereto so far as they may be applicable or in default thereof to forfeit and pay to SBI, the amount mentioned in the said conditions.

I/we have deposited Demand Draft / Banker's Cheque for a sum of Rs. 2,700/- as Earnest money deposit with the State Bank of India. Should I/we do fail to execute the contract when called upon to do so, I/we hereby agree that this sum shall be forfeited by me/us



to SBI.

We understand that as per terms of this tender, the SBI may consider accepting our tender in part or whole or may entrust the work of various buildings proposed (i.e. Institute Building, Staff Qtrs. And Director's Bungalow/Interior work) in phases. We, therefore, undertake that we shall not raise any claim/compensation in the eventuality of Bank deciding to drop any of the building/buildings from the scope of work of this tender at any stage during the contract period. Further, we also undertake to execute the work entrusted to us in phases on our approved rates and within the stipulated time limit without any extra claim for price escalation as provided for in Clause 9.0.1 "Instructions to Tenderers" of this tender.

We, hereby, also undertake that, we will not raise any claim for any escalation in the prices of any of the material during the currency of contract/execution/completion period.

Yours faithfully,

Signature of contractor With Seal



# PROFORMA FOR RUNNING A/C BILL TABLE - XIII

:	Name of Contractor/ Agency	
ı.	Name of Contractor Agency	•

ii. Name of Work :

iii. Sr. No. of this Bill:

iv. No. & Date of previous Bill:

v. Reference to Agreement No. :

vi. Date of Written order to commence:

vii. Date of Completion as per Agreement :

S. No	Item Description	Unit	Rate (Rs.)	As po	er Tender	Up Previ Bill	to ious R.A.	Up (Gros	to Date	Prese	nt Bill	Remarks
				Qty	Amount (Rs.)	Qty	Amount (Rs.)	Qty	Amount (Rs.)	Qty	Amount (Rs.)	
1	2	3	4	5	6	7	8	9	10	11	12	13

# Note:

1.	If part rate is allowed for any items, it should be indicated with reasons for allowing such a rate.	
		Net Value since previous bill
2.	If ad-hoc payment is made, it should be mentioned specifically.	



# **CERTIFICATE**

The measurements on the ba	asis of which the above entries	for the Running Bill No
were made	have been taken jointly on	and are
recorded at pages	to	of measurement book
No		
Signature and date of Contractor	Signature and date of Architects Representative (Seal)	Signature and date of Site Engineer

The work recorded in the above-mentioned measurements has been done at the site satisfactorily as per tender drawings, conditions and specifications.

Architect	Signature and date of Site Engineer



TABLE - XV

# **MEMORANDUM FOR PAYMENT**

## R/A BILL NO.

K/A BILL IN	iO.	
1.	Total value of work done since previous bill (A)	Rs
2.	Total amount of secured advance due since Previous Bill (B)	Rs
3.	Total amount due since Previous Bill (C) (A+B)	Rs
4.	PVA on account of declaration in price of Steel, Cement and other materials and labour as detailed in separate statements enclosed.	Rs
5.	Total amount due to the Contractor	Rs
	OBJECTIONS:	
i)	Secured Advance paid in the previous R/A	Rs
ii)	Retention money on value of works as per accepted tenders up to date amount Rs.	Rs
	Less already recovered	Rs
	Balance to be recovered	Rs
iii)	Mobilization Advance, if any	Rs
(a)	Outstanding amount (principal + interest) as on date	Rs
(b)	To be recovered in this bill	Rs
iii.	Any other Departmental materials cost to be recovered as per contract, if any	Rs
iv.	Any other Departmental service charges to be recovered if any, as per contract (water, power etc.) enclose statement.	Rs

Date:	
The bill amount to Rs (both figures and after due checking of the measurements of work as repayment.	,

with Seal

Signature of Architect



The bill amount to Rscertified by Consultant after due test checking of measurements of works as requestyment for an amount of Rs	,
Date :	
Signature of Banks/ SBI Engineer	

	STATUTORY DEDUCTION:	
i)	Total Amount due (E)	Rs
ii)	Less I.T. Payable	Rs
iii)	Less S.T. Payable	Rs
	Net Payable	Rs

This figures given in the Memorandum fo payment	r payable has been verified and bill passed fo (in words and figures)
Date:	
Signature of the ACM AC VADODARA R	PANCH SRI VADODADA



# TECHNICAL SPECIFICATION FOR THE AIR CONDITIONING CONTRACT WORK

C.	
Sr. No.	Description of work
01	Supply of split A/C 1.0 tr. (5 star,Inverter) :-
	Wall mounted air conditioner shall have 1.0Tr i.e nominal 12.000 BTU/capacity per
	hour at the ambient of 40 degree centigrade capacity. Unit shall have maximum
	45/46 dB noise level at the distance of 1 MT for outdoor/indoor units. The unit shall
	be suitable for 230 volts power supply. With temperature indicator and remote for
	operation. (5- Start,Inverter AC high wall type split A/C).
	The air filter shall be easy to maintain and preferable showing the status of choking.
	Every unit shall be supported by unconditional warrantee of one year however
	sealed unit unconditional warrantee must be given for 5 years from the manufacturer. CONDESOR MUST BE OF COPPER METAL.
02	SUPPLY OF SPLIT a/c 1.5 Tr. (5 star, Inverter):-
02	Wall mounted air conditioner shall have 1.5 Tr i.e. nominal 18,000 BTU/capacity
	per hour at the ambient of 40 degree centigrade capacity. Unit shall have maximum
	45/46 dB noise level at the distant of 1 MT for indoor/outdoor units. The units shall
	be suitable for 230 volts of power supply. With temperature indicator and remote for
	the operations. (5- star, Inverter A/C high wall type split A/C)
	The air filter shall be easy to maintain and preferably showing the status of choking.
	Every unit shall be supported by unconditional warrantee of one year however
	sealed unit unconditional warrantee must be given for 5 years from the manufacturer. CONDESOR MUST BE OF COPPER METAL.
03	SUPPLY OF SPLIT a/c 2.0 Tr. (5 star, Inverter):-
03	Wall mounted air conditioner shall have 1.5 Tr i.e. nominal 24,000 BTU/capacity
	per hour at the ambient of 40 degree centigrade capacity. Unit shall have maximum
	45/46 dB noise level at the distant of 1 MT for indoor/outdoor units. The units shall
	be suitable for 230 volts of power supply. With temperature indicator and remote for
	the operations. (5- star, Inverter A/C high wall type split A/C)
	The air filter shall be easy to maintain and preferably showing the status of choking.
	Every unit shall be supported by unconditional warrantee of one year however
	sealed unit unconditional warrantee must be given for 5 years from the
04	manufacturer. CONDESOR MUST BE OF COPPER METAL. Installation of split 1& 1.5 Tr :-
04	Total work comprising of unpacking till commissioning of each units indoor as well
	as outdoor. Connecting the pipes & electrical cables/wires. With necessary support
	& fabricating for hanging the unit from ceiling. Installation shall be done with the
	control panel.
	The installation of A/C. charging towards installation testing and commissioning of
	split and cassette A/C. this includes nitrogen flushing, pressure testing, attending
0.5	leakages, loading, unloading, gas charging and panel fittings.
05	Extra copper pipe:
	a) The contractor shall have to provide extra length of copper pipe with proper
	lagging to make the perfect job of insulation. All the copper pipe shall be without joints and proper flare-up shall be done with tools and tackles for
	without joints and proper mare-up shall be done with tools and tackles for



	excellent workmanship. No dent shall be allowed while bending the pipe of laying it on connecting it to machine/evaporate/condenser. High grade of foam insulation shall be provided. Entire piping shall be done over the false ceiling and do not compromise any aesthetic look. THIS IS THE LENGTH OTHER THAN SUPPLIED for 1.0 & 1.5 TR. A/C with manufacturer kit.  a) Then contractor shall have to provide copper pipe with proper lagging to make the perfect job of insulation. All the copper pipe shall be without joints and proper flare- up shall be done with tools and tackles for excellent workmanship. No dent shall be allowed while bending the pipe of laying it or connecting it to machine/evaporator /condense. High grade of foam insulation shall be provided. Entire piping shall be done over the false ceiling and do not compromise any aesthetic look. Size of copper shall sleeve insulated with saddling and clamping.
06	Wiring:- SPLIT UNIT TO OUTDOOR UNIT The A/C contractor has to get the wiring from the MCB unit provided by the electrical contractor in house. All the wiring shall be of approved make only. The wiring shall pass through ISI approved conduits as mentioned in approved list of materials. Any drilling of the wall for getting copper pipe or wiring shall be sealed and finished by the A.C contractor. Size of the wires shall be 3x 2.5 sq. m. m. for A.C contractor for each & every A.C unit.
07	Drain water piping:- Condensed water in the interior of the banking hall shall be drained outside/toilet block through gravity-slop. The entire piping shall be 25 M.M. ISI approved pipes to carry condensed water. All the piping shall be maintainable and testing shall be done before connecting.
80	supply and installation of fabricated steel supports for outdoor units for (1T.1.5 Tr)
09	Civil work: The A/C contractor has to complete entire branch/ office the zari work/ all type of Civil Work for AC installation in the wall and coordinate with the civil/ Furniture/ Electrical contractor while doing flooring/ Cieling to run the drainage/ Copper pipe etc. finishing has to be done by the A/C contractor with required labour&materials.



## **VARIABLE REFRIGERANT FLOW SYSTEM**

## 9.1. Scope:

The scope of this section comprises the supply, erection, testing and commissioning of Variable Refrigerant Volume System conforming to these specifications and in accordance with the requirements of Drawings and Schedule of quantities.

# 9.2. Type:

Unit shall be air cooled, variable refrigerant volume air conditioner consisting of one outdoor unit and multiple indoor units. Each indoor unit having capability to cool independently for the requirement of the rooms. All indoor units shall be provided with isolation valves so that a particular unit can be isolated and removed for servicing, while system keeps functioning in normal way.

It shall be possible to connect multiple indoor units on one refrigerant circuit as shown in the drawings or as indicated in schedule of quantities. The indoor units on any circuit can be of different type and also controlled individually. Following type of indoor units shall be connected to the system:

- Ceiling mounted cassette type.
- Wall Mounted Split type
- Compressor installed in outdoor unit shall be equipped with capacity control mechanism and capable of changing the rotating speed / mass flow rate of refrigerant by scroll engaging / disengaging mechanism to follow variations in cooling. Outdoor unit shall be suitable for mix-match connection of all type of indoor units.

The refrigerant piping between indoor units and outdoor units shall be extended upto 100m with maximum 50 m level difference without any oil traps. Oil recovery system shall be managed without disturbance to normal operation cycle of the system / compressor.

Both indoor unit and outdoor unit shall be factory assembled, tested and filled with first charge of refrigerant before delivery at site.

## 9.3. Out Door Unit:

The outdoor unit shall be factory assembled, weather proof casing constructed from heavy gauge mild steel panels with powder coated finish.

All outdoor units above 5 HP rating shall have minimum two number scroll compressors.

In case of outdoor units with multiple compressors, the operation shall not be disrupted with failure of any compressor.

The noise level shall not be more than 60 dB (A) at normal operation measured horizontally 1m away and 1.5 m above ground level.

The outdoor unit shall be modular in design with possible future expansions.

The unit shall be provided with microprocessor control panel.

#### 9.4. Compressor:

The compressor shall be high efficiency scroll type and capable for capacity controlling. It shall change the speed / refrigerant mass flow rate in accordance to the variation in cooling load requirement. Refrigerant mass flow rate can be



changed by speed modulation of compressor / mechanical control system. System shall incorporate liquid sub-cooling mechanism with liquid injection at intermediate pressure.

The inverter used, shall be IGBT (insulated gate bipolar transistor) type for efficient and quiet operation.

All outdoor units shall have multiple steps of capacity control to meet load fluctuation and indoor unit individual control. All parts of compressor shall be sufficiently lubricated. Forced lubrication may also be employed.

Oil heater shall be provided in the compressor casing.

## 9.5. Heat Exchanger:

The Heat Exchanger shall be constructed with copper tubes mechanically bonded to aluminum fins to form a cross fan coil and larger surface area.

The fins shall have anticorrosion treatment for Heat Exchanger Coil. The treatment shall be suitable for areas of high pollution, moisture and salt laden air.

The casings, fans, motors etc. shall also be with anticorrosion treatment as a standard features.

The unit shall be provided with necessary number of direct driven low noise level propeller type fans arranged for vertical / horizontal discharge. Each fan shall have a safety guard.

## 9.6. Refrigerant Circuit:

The Refrigerant Circuit shall include an liquid receiver /accumulator, liquid & gas shut off valves and a solenoid valve. All necessary safety devices shall be provided to ensure the safety operation of the system..

## 9.7. Safety Devices:

All necessary safety devices shall be provided to ensure safe operation of the system.

Following safety devices shall be part of the outdoor unit: high pressure switch, low pressure switch, fuse, crankcase heater, fusible plug, over current protection for inverter, and short recycling guard timer.

## 9.8. Piping:

All connections of Refrigerant piping shall be in high grade Copper of Refrigeration quality with Eddy Current Testing and material test Certificates.

All connections, tees, reducers etc. shall be standard make fittings.

Insulation of cold lines shall be carried out with Armaflex / K-Flex insulation sheets and tubes of appropriate thickness so that condensation does not occur.

For individual Piping 50 / 100 mm wide Aluminum Tape shall be used at joints of Piping with Bands for identification.

For outdoor piping, the finish shall be woven GRP Mat finished with colored Epoxy paints to withstand outside ambient conditions and UV Radiation.

## 9.9. Oil Recovery System:

Unit shall be equipped with an oil recovery system to ensure stable operation with long refrigerant piping.

System shall be designed for proper oil return to compressor along with the distribution of oil to individual compressor.

The refrigerant piping shall be extended upped 100 M with 50-M level difference without oil traps.

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#### 9.10. Indoor Units:

Units shall be factory assembled, wired, piped and tested.

Units shall have DX coils with copper tubes and bonded aluminum fins for highly efficient heat transfer.

Units shall have Centrifugal fans for adequate amount of Air circulation and low Noise.

Units shall have inlet filters, which are easily cleanable and replaceable.

All components of Units are easily accessible for connection, repairs and maintenance.

Units shall have very low noise.

All units with Factory manufactured Units, Grills shall have auto swing feature for proper Air distribution.

All unit shall be controlled by electronic Expansion Valves only.

All units mounted inside the ceiling shall have fans capable of sustaining duct connections, and special filters if necessary.

Visible indoor units shall have wireless remotes. Price of the same shall be included in cost of unit by default.

Concealed indoor units shall have sensor mounted on supply air grilles / diffusers which can be controlled with wireless remotes unless specified.

Anticorrosion treatment for avoiding corrosion of coils.

All units shall have adequate insulation or Lining to avoid condensation.

Cooling coil and refrigeration parameters shall be designed in such a way that supply air temperature shall not be less than 14°C or 1°C above room dew point temp, whichever is more. Contractor shall guarantee inside conditions with selected supply air temperature.

# 9.11. Ceiling Mounted Cassette Type Unit (Multi-Flow Type):

The unit shall be ceiling mounted type. The unit shall include pre-filter, fan section and DX-coil section. The housing of the unit shall be powder coated galvanized steel. The body shall be light in weight and shall be possible to suspend from four corners.

Unit shall have a external attractive panel for supply and return air. Unit shall have four way supply air grilles on sides and return air grille in centre.

Each unit shall have high lift drain pump, fresh air intake provision (if specified), low gas level detection system and very low operating sound.

## 9.12 Ceiling Mounted Ductable Type Unit:

Unit shall be suitable for ceiling mounted type. The unit shall include pre filter, fan section & DX-coil section. The housing of unit shall be light weight powder coated galvanized steel. The unit shall have high static fan for ductable arrangement.

## 9.13 High Wall Mounted Units:

The units shall be high wall mounted type. The unit shall include pre-filter, fan section & DX-coil section. The housing of unit shall be light weight powder coated galvanized steel.

Unit shall have an attractive external casing for supply and return air.

## 9.14. Ceiling Mounted Concealed type units:

Unit shall be suitable for ceiling mounted type. The unit shall include pre filter, fan section & DX-coil section. The housing of unit shall be light weight powder coated



galvanized steel. It shall be slim and quite in operation

## 9.15. Central Remote Controller (Option if Specified in BOQ):

A multi-functional microprocessor based centralized controller (central remote controller) shall be supplied as an optional accessory.

The controller shall be able to control upto min. 64 zones of 64 group (each group consisting of max. 16 units) or 128 nos. of indoor units with the following functions.

- Temperature setting for each zone, or group, or indoor unit.
- On/Off as a zone or individual unit.
- Indication of operating condition.
- Select ON of all operation modes for each zone..
- The controller shall have wide screen liquid crystal display and shall be wired by a non polar 2 wire transmission cable to a distance of 1000m away from the indoor unit.
- The controller shall be integrated to BAS system thru software for monitoring & controlling of all above parameters including start/ stop of each indoor / outdoor unit. All necessary interface cards / units should be supplied as a part of the system to integrate to the BAS Software.

## 9.16. Unified On/Off Controller (Option if Specified in BOQ):

Unified ON / OFF controller shall be supplied as an optional accessory.

The controller shall be able to control minimum 2 groups (each group containing maximum 16 indoor units) or 128 nos. of indoor units with the following functions.

- On / Off as a zone or individual unit.
- Indication of operation condition of each group.
- Select one of 4 operation modes

The controller shall be wired by a non-polar 2 wire transmission cable to distance of 1 km away from indoor unit.

The controller shall be integrated to BAS system thru software for monitoring & controlling of all above parameters including start/ stop of each indoor / outdoor unit. All necessary interface cards / units should be supplied as a part of the system to integrate to the BAS Software.

## 9.17. Condensate:

25mm dia uPVC pipes, 40mm dia uPVC headers & fittings shall be used for condensate, from Evaporator Unit to drain point. The joints shall be properly sealed so that there is no water leakage. U-trap shall be provided. Additional insulation drain tray shall be provided below the Evaporator Unit, if required.

## Mounting

All indoor units shall be mounted with Brackets, Hangers etc. with proper size anchor Fasteners.

### 9.18 Electrical installation:

For Variable Refrigerant flow systems, power will be provided near outdoor unit location. HVAC Contractor to provide suitable distribution panel along with 3-phase power to outdoor units and single phase power to all indoor units fed by these outdoor units. Power / control cabling along with supports shall be included.



## AIR DISTRIBUTION

## 10.1 <u>SCOPE</u>

## (AS PER "SMACNA" STANDARDS)

The scope of this section comprises supply fabrication, installation and testing of all sheet metal / aluminum ducts, supply, installation, testing and balancing of all grilles, registers and diffusers. All to be in accordance with these specifications and the general arrangement shown on the Drawings.

## **10.2 DUCT MATERIALS**

## 10.2.1 RAW MATERIALS

Galvanizing shall be Class VII – light coating of zinc, nominal 180gm/sq.m surface area and Lock Forming Quality prime material along with mill test certificates. In addition, if deemed necessary, samples of raw material, selected at random by owner's site representative shall be subject to approval and tested for thickness and zinc coating at contractor's expense.

## 10.2.2. GAUGES, BRACING BY SIZE OF DUCTS

All ducts shall be factory fabricated from galvanized steel / aluminum of the following thickness, as indicated as below:

## 10.2.2.1 For Ducts with external SP up to 250 Pa (ESP up to 25mmWg)

Rectangular		Pressure 250 Pa			
Ducts G. S.	Duct Section Length 1.2 m (4 ft)				
Maximum	Gaug	Joint Type	Bracing		
<b>Duct Size</b>	е		Spacing		
1–500 mm	26	C&S Connector	Nil		
501 – 750	26	C&S Connector	Nil		
mm					
751 – 900	24	TDF Flange	Nil		
mm					
901 – 1200	24	TDF Flange	Nil		
mm					
1201 – 1500	22	TDF Flange	Nil		
mm					
1501 – 1800	20	TDF Flange	JTR or ZEE		
mm			BAR		
1801 – 2100	20	TDF Flange	JTR or ZEE		
mm			BAR		
2101 – above	18	TDF Flange	JTR or ZEE		
			BAR		

<sup>\*</sup>Distance of reinforcement/bracing from each joint. Bracing material to be same as of material used for joining of duct sections.



## **10.3 DUCT CONSTRUCTION**

# 10.4 All ducts shall be fabricated and installed in workmanlike manner, conforming to relevant SMACNA codes.

a) Ducts so identified on the Drawings shall be acoustically lined and insulated from outside as described in the section "Insulation" and as indicated in schedule of Quantities. Duct dimensions shown on drawings, are overall sheet metal dimensions inclusive of the acoustic lining where required and indicated in Schedule of quantities. The fabricated duct dimensions should be as per approved drawings and care should be taken to ensure that all connecting sections are dimensionally matched to avoid any gaps.

## 10.5 DAMPERS

Dampers: All duct dampers shall be opposed blade louver dampers of robust 16
 G GSS construction and tight fitting. The design, method of handling and control shall be suitable for the location and service required.

## 10.6SUPPLY AND RETURN AIR DIFFUSERS / GRILLS

Supply and return air diffusers shall be as shown on the Drawings and indicated in Schedule of Quantities. Aluminium diffusers shall be powder coated & made from extruded aluminium section as specified in schedule of quantities.

- a) Rectangular Diffusers shall be extruded aluminum construction, square & rectangular diffusers with flush fixed pattern for different spaces as per schedule of quantities These shall be selected in consultation with the consultant / client. These shall be procured only after obtaining written approval from CLIENT for each type of diffuser.
- b) Supply air diffusers shall be equipped with fixed air distribution grids, removable key-operated volume control dampers, and anti-smudge rings as required in specific applications, and as per requirements of schedule of quantities.

## **DOCUMENTATION & MEASUREMENTS FOR DUCTING**

All ducts fabricated and installed should be accompanied and supported by proper documentation viz:

- a) Bill of material/Packing list for every duct section supplied.
  - Measurement sheet covering each fabricated duct piece showing dimensions and external surface area along with summary of external surface area of duct gaugewise.

Each and every duct piece to have a tag number, which should correspond to the serial number, assigned to it in the measurement sheet. The above system will ensure speedy and proper site measurement and verification.

Unless otherwise specified, measurements for ducting for the project shall be on the basis of centerline measurements described herewith



Ductwork shall be measured on the basis of external surface area of ducts. Duct measurements shall be taken before application of the insulation. The external surface area shall be calculated by measuring the perimeter comprising overall width and depth, including the corner joints, in the center of each duct section, multiplying with the overall length from flange face to flange face of each duct section and adding up areas of all duct sections. Plenums shall also be measured in a similar manner.

For tapered rectangular ducts, the average width and depth shall be considered for perimeter, whereas for tapered circular ducts, the diameter of the section midway between large and small diameter shall be adopted, the length of tapered duct section shall be the centerline distance between the flanges of the duct section.

For special pieces like bends, tees, reducers, branches and collars, mode of measurement shall be identical to that described above using the length along the centerline.

The quoted unit rate for external surface of ducts shall include all wastage allowances, flanges and gaskets for joints, nuts and bolts, hangers and angles with double nuts for supports, rubber strip 5mm thick between duct and support, vibration isolator suspension where specified or required, inspection chamber/access panel, splitter damper with quadrant and lever for position indication, turning vanes, straightening vanes, and all other accessories required to complete the duct installation as per the specifications. These accessories shall NOT be separately measured nor paid for.

- b) Special Items for Air Distribution shall be measured by the cross-section area perpendicular to air flow, as identified herewith:
- Grilles and registers width multiplied by height, excluding flanges. Volume control dampers shall form part of the unit rate for registers and shall not be separately accounted.
- II. Diffusers cross section area for air flow at discharge area, excluding flanges. Volume control dampers shall form part of unit rate for supply air diffusers and shall not be separately accounted.
- III. Linear diffusers shall be measured by cross-sectional areas and shall exclude flanges for mounting of linear diffusers. The supply air plenum for linear diffusers shall be measured with ducting as described earlier.
- IV. Flexible connection shall be measured by their cross sectional area perpendicular to the direction of air flow. Quoted rates shall include the necessary mounting arrangement, flanges, nuts and bolts and treated-for-fire requisite length of canvas cloth.

#### 10.7 FLEXIBLE DUCT:

Insulated flexible duct should be UL 181 CLASS I AIR DUCT LISTED AND LABELLED WITH NFPA 90A & 90B ANDSEAL OF AIR DIFFUSION COUNCIL with double



lamination of tough polyester which encapsulates steel helix wire forms the air tight inner core, double layer core wrapped in a multiple thickness of fiberglass wool with R Value 4.2, Green guard certification of fiberglass wool must. , Reinforced and sheathed in a rugged and durable tridirectionally reinforced metalized polyester jacket.

Flexible duct connections should be made as per UL181 listing procedure with proper flexible right forming brace connection allowing right connections for flexible duct into energy efficient. and Strapping the flexible duct connections with flexible duct strap ties.



# **LIST OF APPROVED MAKES FOR HVAC EQUIPMENT AND MATERIALS**

SI. No.	Details of the Items Manu	facturer's name
1.	Package / Ductable units	Daikin, Hitachi, Carrier, Voltas
2.	Propeller Fans	Crompton
3.	Electric Motors	Crompton / Siemens/BharatBijlee
4.	Ventilation AHU	Suvidha / Cariyaire/Citizen/Cherub
5.	GI Sheet	Sail/TATA/ Jindal
6.	Grilles/Diffuser	Caryaire/Ravistar//Dynamic
7.	MS Dampers/Louvers	Tristar/ /Cherub
8.	Control Cables	Grandlay/Batra Henlay/Kalinga
9.	Power Cable	ICC/Polycab
10.	Nitrile rubberInsulation for ref pipe insulation	Eurabatax/Aeroflex/Totaline
11.	Flexible Duct Connection	Airflow/Pyroguard
12.	Gaskets	Neoprene rubber
13.	Adhesives	Fevicol / Superlon
14	Vibration Isolator	Resistoflex/Dunlop
15.	Filters/Air Showers	Dyna/Thermadyne/Cherub
16.	Polyethylene for duct insulation	Supreme/Trocellene/Totaline
17.	Centrfugal / Axial fan	Flaxt/ PAF/ Chakshu
18.	Refrigerant Pipes	Rajco/Parasmani
19.	CasstteUnits,VRV/VRF and Wall M	Nounted Split AC Unit Hitachi/ Daikin/ Mitsubishi Electric/Mitsubishi Heavy Indu./Toshiba/ O General/ Voltas / Carrier / Blue Star



# BOQ FOR AIR-CONDITIONING WORKS AT STATE BANK OF INDIA, TB HUB, 1ST FLOOR, ALKAPURI, VADODARA

SR.NO. DESCRIPTION QTY UNIT RATE AMOUNT  [A] AIR CONDITIONING WORK  [I] MACHINE PART  [a] AC EQUIPMENT WITH - INVERTER COMPRESSOR  1 Supplying & providing of Hi-wall Inverter Split Type AC with high wall mounted indoor and out door unit. having eco friendly refrigerant. Including indoor unit outdoor unit. and cordless remote Machine shall have copper condensor Unit , Make: Carrier/ Hitachi/ Daikin/ Mitsubishi Heavy Industries/ Toshiba/ Trane/Blue star/ Voltas. [Mini 5 Star rating as per BEE Guide Line 2024]  1.1 Inverter Hi-wall Split AC of 1.0 TR  1.2 Inverter Hi-wall Split AC of 2.0 TR  1.3 Inverter Hi-wall Split AC of 2.0 TR  1.4 Inverter Hi-wall Split AC of 2.0 TR  1.5 Inverter Hi-wall Split AC of 2.0 TR  2 Installation charges for above 2.0TR/1.50TR/ 1.00 TR Split AC or including 5.0 Rmt copper tubing and electrical wiring connection etc. complete.  2 Installation charges for above 2.0TR/1.50TR/ 1.00 TR Split AC or including 5.0 Rmt copper tubing and electrical wiring connection etc. complete.  2 Removing and Reinstallation charges for existing 1.0TR / 1.5 TR / 2.00 TR High wall mounted split AC at new location including connection etc. servicing & gas filling complete as directed (Entire new copper piping and drain shall be paid as per item No 3[a] & 4] Shifting Existing Premises including indoor and outdoor with MS stand etc complete as directed cable of Finole/KR R kable/Havells/CEI make. The copper piping shall be insulated 0.80mm wall thicknees copper tube of Mandav/ Totalline make between indoor to out door unit beyong 5 Rmt dist. Of 1.0 TR/1.50TR/2.00 TR Hiwall split unit with 2.5 Sqmm 3 Core copper flexible cable of Finole/KR R kable/Havells/CEI make. The copper piping shall be insulated with 9 mm thick Nitrite rubber insulated of O' C' Class of K Flax/Armaflex/ Superion Make ( copper pipie concealed in insulate ( co						Τ
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			35	RMT		



4	25/32 mm Dia UPVC drain pipe with insulation of Dutron/Supreme/Astral make - schedule 40 pipe, white in colour, joint properly glued with UPVC adhesive for water outlet from indoor unit. (drain pipe concealled in inside wall)			
	(Measurement of pipe will be as per actual site requirement)	30	RMT	
5	Providing and Fixing M.S Powder coated stand for keeping outdoor unit of Split A/C. (Redy made)	7	NO	
6	Necessory Civil Work if required for core cuttinng, consealing of pipes etc.			
	etc.	1	Job	
	TOTAL FOR PART- II			
[111]	TOTAL FOR PART- II Buyback Rate			
[III] 1		7	NO	
	Buyback Rate  Buyback of OLD 2.0/1.50/1.0 Tr SPLIT / WINDOW AC (including	7	NO Lot	
1	Buyback Rate  Buyback of OLD 2.0/1.50/1.0 Tr SPLIT / WINDOW AC (including dismentaling and removing from premises)			
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1	Buyback Rate  Buyback of OLD 2.0/1.50/1.0 Tr SPLIT / WINDOW AC (including dismentaling and removing from premises)  Dismentaling & removing of old copper pipre  TOTAL FOR BUY BACK PART- III			
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#### Note:

- [1] Rate quoted shall include all Taxes such as Sales Tax, VAT, Excise, Octroi, etc. including transportation charges. Excluding GST [ GST will be Paid Extra as per Applicable Norms]
- [2] 1 Years of M/C warranty with 6 free services and 5 years warranty for compressor shall be provided by the supplier.
- [3] The Standard installation charges for the high wall split A.C shall include 5 meter Each of Refrigerant pipe, Electrical Wiring [Copper Pipe and Electric cable total length for all new AC machines shall be measured and standard Length for all the new AC machines shall be deducted and difference shall be paid]
- [4] All Civil work such as Masonry work slice breaking away and making good of walls, floors slab etc. Required to be executed in the A.C system installation is the part of the scope of project. (Rate quoted shall included in Low side work items)
- [5] The Entire Job Shall be Executed in Total Co. Ordination with the Other Agencies Working on this Project more particularly with the False Ceiling and Electrical work.