STATE BANK OF INDIA

INVITESONLINE E-TENDER

FOR

PROPOSED AIR CONDITIONING WORK IN PREMISES OF STATE BANK INSTITUTE OF LEARNING AND DEVELOPMENT AT BHAVNAGAR

FROM

SBI AHMEDABAD EMPANELLED AIR CONDITIONINGCONTACTOR UNDER CATEGORY UP TO RS.5.0 LAKHAS PER LIST ENCLOSED

THE LAST DATE OF SUBMISSION OF TECHNICAL BID: 28.06.2024 UP TO 12.00 PM NO PHYSICAL SUBMISSION OF DOCUMENTS REQUIRED EXCEPT PROCESS COMPLIANCE FORM.

<u>PART – A: TECHNICAL BID</u>		
TENDER SUBMITTED BY:		
NAME	:	
ADDRESS	:	
DATE	:	

NOTICE INVITING TENDERS

SBI invites E-tenderthrough its Architect <u>SONAL HITESH PARIKH</u>, invites "Online e-tender in two bid system from the SBI Empanelled AC contractors of Ahmedabad Circle for Air Conditioning works OF STATE BANK INSTITUTE OF LEARNING AND DEVELOPMENTAT BHAVNAGAR

The details of tender are as under:

Sr.No.	Description	
1.	Name of work	AIR CONDITIONING WORK for OF STATE BANK
		INSTITUTE OF LEARNING AND DEVELOPMENTAT
	Nature of Work	BHAVNAGAR
2.		AIR CONDITIONING WORK
3.	Time allowed for completion	15 Days from date of acceptance of work order.
4.	Architect Name	SONAL HITESH PARIKH
5.	Earnest Money Deposit	Rs. 4500/- (Four Thousand Five Hundred) 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 favour of State Bank Of India at BHAVNAGAR .[Those registered with MSME UDHYAM need not submitted EMD. Instead DD, Valid MSME UDHYAM certificate shall be
6.	Initial Security Deposit	NA- % of contract value (Non interest bearing ISD to be submitted by the vendor/supplier who wish to supply security items on standardized rates till the validity of the rate contract) in the form of DD/BC in favour of "State Bank of India" Payable at BHAVNAGAR.
7.	Total Security deposit	3% of the final bill amount including
8.	Start and end date for downloading of tender documents form Bank's website	24-06-2024 to 28-06-2024 at www.sbi.co.in under <link/> procurement news.
9.	Last date & time for submission of online Technical bid /and Price Bid	28-06-2024 by 12.00 PM
10.	compliance form has to be submitted	Manager Electrical, 4th Floor Admin Office, Opp. Sardarbaugh Circuit House, Rajkot.
11.	Date and time of opening ofonline Technical bid & Price Bid at SBI address mentioned at Sr. No.10	28-06-2024 at 12:30 PM
12.	Date & time for e-reverse auction	NA
13.	Agency for arranging online bidding (Technical bid indicative price bid and e re- verse auction).	M/s. e-Procurement Technology, B-705, Wall Street - II, Opp. Orient Club, Ellis Bridge, Ahmedabad – 460006, State Gujarat, India Contact No40270506-90, 79-6813 6853 /843 /6835 / 6840 / 6857 /63 / 20 / 52

future (including variation) taxes, duties, lev royalties, transportation, other incide charges, WCT etc. PVA & PVA Clause shall be applicable. Note: GST will be paid Extra as per Application norms. If any tenderer puts any condition/anythin taxes extra over and above their quoted rate tender shall be summarily rejected. 16. Defects liability period 12 Months from the date of Virtual Completion 17. Validity of offer 90 days from the date of acceptance of work order. 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 19. Insurance The contractor shall obtain all necessary insupolicies as per the governing laws applicable acentre & shall be required to produce the original of Insurance & receipt of the premium as applicate the matter to the Architect/Bank. 20. Water and Electricity If contractor is permitted to use SBIsource of we electricity, the SBI will recover @ 0.5% of commount from the final bill of contractor. However for distribution & extension & light fixtures etc. required MCB switches, switch boards, lamp, tub shall be arranged by the contractor at their own within the accepted tender amount. Bank will recover within the accepted tender amount. Bank will recover within the accepted tender amount. Bank will recover.	14.	Liquidated Damages	0.50% of contract amount per weeks subject to max. 5% of contract value or final bill value.
16. Defects liability period 12 Months from the date of Virtual Completion 17. Validity of offer 90 days from the date of acceptance of work order. 18. 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 19. Insurance The contractor shall obtain all necessary insupolicies as per the governing laws applicable acentre & shall be required to produce the original of Insurance & receipt of the premium as applicate matter to the Architect/Bank. 20. Water and Electricity If contractor is permitted to use SBIsource of water electricity, the SBI will recover @ 0.5% of commount from the final bill of contractor. However for distribution & extension & light fixtures etc. required MCB switches, switch boards, lamp, tub shall be arranged by the contractor at their own within the accepted tender amount. Bank will recover.	15.	Rates	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
18. 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 19. Insurance The contractor shall obtain all necessary insupplicies as per the governing laws applicable a centre & shall be required to produce the original of Insurance & receipt of the premium as applicate the matter to the Architect/Bank. 20. Water and Electricity If contractor is permitted to use SBIsource of water to the Architect/Bank will recover @ 0.5% of compount from the final bill of contractor. However for distribution & extension & light fixtures etc. required MCB switches, switch boards, lamp, tube shall be arranged by the contractor at their own within the accepted tender amount. Bank will recover.	16.	Defects liability period	12 Months from the date of Virtual Completion
mobilization advance shall be paid under any circumstances Only full and final payment shall be made after satisfactory completion of work 19. Insurance The contractor shall obtain all necessary insupplicities as per the governing laws applicable a centre & shall be required to produce the original of Insurance & receipt of the premium as applicate matter to the Architect/Bank. 20. Water and Electricity If contractor is permitted to use SBIsource of water electricity, the SBI will recover @ 0.5% of company of the contractor. However for the distribution & extension & light fixtures etc. required MCB switches, switch boards, lamp, tube shall be arranged by the contractor at their own within the accepted tender amount. Bank will reserved.	17.	Validity of offer	90 days from the date of acceptance of work order.
policies as per the governing laws applicable a centre & shall be required to produce the original of Insurance & receipt of the premium as application the matter to the Architect/Bank. 20. Water and Electricity If contractor is permitted to use SBIsource of water electricity, the SBI will recover @ 0.5% of commount from the final bill of contractor. However for distribution & extension & light fixtures etc. required MCB switches, switch boards, lamp, tube shall be arranged by the contractor at their own within the accepted tender amount. Bank will reserved.	18.	Value of Interim Certificate	mobilization advance shall be paid under any circumstances Only full and final payment shall be made after
electricity, the SBI will recover @ 0.5% of co amount from the final bill of contractor. However f distribution & extension & light fixtures etc. required MCB switches, switch boards, lamp, tub shall be arranged by the contractor at their own within the accepted tender amount. Bank will re		Insurance	The contractor shall obtain all necessary insurance policies as per the governing laws applicable at the centre & shall be required to produce the original policy of Insurance & receipt of the premium as applicable in the matter to the Architect/Bank.
water & electricity.	20.	Water and Electricity	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

21	Tenders can be downloaded from the bank's website www.sbi.co.in (link) <sbi in="" news="" news<procurement="" the="">. It shall be responsibility of the contractor to timely submit the technical and financial bid. SBI, in no case shall be responsible for site issues/ delay in tender submission.</sbi>
22	The contractor shall read and understand each page of the tender document thereby ensuring the number and sequence of all pages.
23	No conditions other than mentioned in the tender will be considered, and if given they will have to be withdrawn before submission of final quote, else their bid will be rejected.
24	The SBI reserve their rights to accept or reject any or all the tenders, either in whole or in part without assigning any reason(s) for doing so and no claim / correspondence shall be entertained in this regard.

25	Tenders received without EMD and online receipt of tender fees shall be summarily rejected and such tenders shall not be allowed to participate in the Price bid process/rejected/ not considered.
26	In case the date of opening of tenders is declared as a holiday, the tenders will be opened on the next working day at the same time.
27	SBI has the right to accept / reject any / all tenders without assigning any reasons and no correspondence shall be entertained in this regard.
28	The Bank will place order as per its requirement and quoting minimum rate for any category does not provide any guarantee for receiving order for that item by the firm who quotes lowest rates.
29	Bank reserves right to cancel any / all tender sat any stage without assigning any reasons.
30	The Bank reserves the right to accept the tender in full or in part and the tenderer shall have no claim for revision of rates or other condition if his tender is accepted in parts.
31.	In case the date of online tendering is declared as a holiday, the online tendering will be conducted on the next working day at the same time.
32.	SBI reserves the right to accept or reject any or all the tenders without assigning any reason whatsoever. For any clarification regarding E-Tendering procedure, System requirements etc please contact M/s E-Procurement Technologies Limited, Ahmedabad, whose address is mentioned in the NIT.
33.	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.
34.	ONLY FINAL PAYMENT WILL BE MADE& IT'S A RUNNING BRANCH.
35.	If the assigned work is in running/working Branch, the contractor should have executed
	the site erection work in odd hours, Holidays and Sundays.

Yours Faithfully,

For:

Asst General Manager, State Bank Of India, STATE BANK INSTITUTE OF LEARNING AND DEVELOPMENT, Vallabhi,, Hill Drive,,

-, BHAVNAGAR

S No	List of SBI, Ahmedabad	l empanelled contractors for ACs up to Rs.5.0 Lakh
1		nwamegh Elegance, Bhudarpura Rd., Nr Kalyan Jewelers, PH-07940022404, e-mail-info@powercontrol.com
2		
3		Opp. 13 Ramnathpara, Garud Garbi Chowk, Rajkot-

S No	List of SBI, Ahmedabad empanelled contractors for ACs up to Rs.10.0 Lakh
1	M/s MD Aircon, A-116, Ashwamegh Complex, Opp. Sayaji Vihar Club, Raj Mahal
	Road, Vadodara-390 001, PH-02652427082, e-mail:mdaircon@gmail.com
2	Prince Enterprise 60, Maruti Plaza, Nr. Vijay Park BRTS, Sardar Chowk
	Road, Krishnanagar, Naroda, Ahmedabad. (M)9979861449,9979859049
2	Email: princeenterprise18@gmail.com
3	M/s Shaina Cooling Systems, 7/2077,78,86, 404, 4th Floor, Al. Mehfuz Appt., Rampura, Surat-395003, PH-9898140380, shainacs2007@hotmail.com
4	Relax Air, Premier Shopping Centre, Opp. Sindicate Bank, Mirzapur Road,
-	Ahmedabad, Mob:9824216799, Email:relaxair_9824216799@yahoo.in
5	Swastik Engineers,91, Ajanta Commercial center,Nr. Incometax Circle, Income Tax,
	Ahmedabad-460006,(M)9724800027, swastikhvac@gmail.com
6	M/s Maimoon Aircon, 101, Relax Apartment, Haldiya Sheri, Navsari Bazar,
	Sangrampura, Surat, Mob-9824392576, e-mail-maimoonsales52@gmail.com
7	S.M Enterprise 23, Central Government Housing Society,Nr. MGM
	School, New Sama Road, Vadodara. (M)9879562994,
	8401497038. Email: ajaytondon2010@gmail.com
8	M/s Shree Maruti AC Services, S/B, 42, Paradise Complex, Sayajiganj, Vadodara-05,
0	PH-9998486570, e-mail-shreemarutiacservice2014@gmail.com
9	Real Enterprise First Floor, 104-Panchshil Plaza, Kotechanagar Main Road,Nr. Kotecha School, Off. Amin Marg, Rajkot-360005,
	Ph: 0281-2474753, 2474759, (M)9825189029, Email:
	realenterprise97@gmail.com
10	M/s. Mahadev Electric,101, Shanti complex,kotak Street, Sanganva Chowk, Rajkot-1.
	(M)9824509312 ,hirenkanabar54@yahoo.co.in
11	M/s. Shah associates,Opp. Laxmi Bhuvan, Station Road, Bhuj, Dist. Kutch,-
	370001,(M)9825228305, Email: shahassociate1@gmail.com

S.	List of SBI, Ahmedabad empanelled contractors for ACs up to Rs.25.0 Lakh		
No.			
1	M/s HCP Enterprise, A-8, Someshwar Tenament, Nr. Nishan School, Ranip,		
	Ahmedabad-382480, m-9979775742, e-mail-hcpenterprise@gmail.com		
2	M/s Concept Marketing, "Concept Arena", Payal Park Soc., Nr. TVS Motors, Opp.		
	Central Excise Bhavan, B/H Subhanpura Garden, Subhanpura, Vadodara-390023, PH-		
	02652391348, 9825231848 e-mail-manan@concept.net.in		
3	Sharda Refrigeration Shop No-35, Suryadarshan Complex, Opp. Tanna		
	Travels, Rubber Factory Circle, Bhavnagar-364001, Ph: 0278-2510479,		
	(M)9426261853 Email: thomasvyas@yahoo.co.in		

4 Pronify Turnkey Solutions, 23E, Laxmi Industrial Esate, New Link Road, Andheri(west), Mumbai400053. (M)9833889913,pronifyturnkeysolutions@gmail.com

S.	List of SBI, Ahmedabad empanelled contractors for ACs up to Rs.50.0 Lakh	
No.		
1	System Designing	102, Aagam Complex, Nr. Pratapkunj Busstand,
	Vasna, Ahmedabad-460007	Ph:-07926631673, (M)9825024651,7600880736
	Email:	sdesign_trs@yahoo.com

S.	List of SBI, Ahmedabad empanelled contractors for ACs up to Rs.100.0 Lakh
No.	
1	M/s Pranam Technologies., A-405/406, 4TH Floor, Neel Kanth Palace, 100 Ft, Anand
	Nagar Road, Opp. Seema Hall, Satellite, Ahmedabad-460015 PH-07926933579 e-mail:
	pranamhvac@gmail.com
2	CHILL-AIR SYSTEMS 1&2, Induchacha House, Chhani Jakat Naka, Chhani,
	Vadodara-390024, ph: 0265-2773729/2761022,
	(M)9825603471/9825083471, Email: chillairsystems@gmail.com,
	chillair.krunal@gmail.com

FORM TENDER

To,
Asst General Manager,
State Bank Of India,
STATE BANK INSTITUTE OF LEARNING AND DEVELOPMENT,
Vallabhi,
Hill Drive,,

BHAVNAGAR

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 memorand umat 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 provided materials for as are by, and in all other respects in accordance with such conditions so far as they may be applicable.

MEMORANDUM

Description of work	AIR CONDITIONING WORK for OF STATE BANK
	INSTITUTE OF LEARNING AND DEVELOPMENTAT
	BHAVNAGAR
Earnest Money	Rs. 4500/- (Four Thousand Five Hundred) by
	means of Demand Draft / Pay Order from any
	scheduled Nationalized Bank drawn in favour of
	of State Bank Of India. and payable at
	BHAVNAGAR .
Percentage, if any, to be	10 % from Running Bills, subject to maximum
deducted from Bills and total amount	Total 5% of contract amount or actual Final Bill
to be retained	value including EMD & Initial Security Deposit.
Time allowed for completion of the	15 days
Works from fourteenth day after the	
date of written order or date of	
handing over of the site (whichever	
islater)to commence the work	

I/WehavedepositedasumofRs. 4500/- (Four Thousand Five Hundred) ofthetotaltender amount as Earnest Money with the SBIwhich is not to bear any interest. Should I / We fail to execute the Contract when called upon to do sol/ 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 Contract.) (Certified true copy of the Power of Attorney should be attached
,	Yours faithfully,
	Signature of Contractors.
	Signature and addresses of Witnesses
	i)
	i

SAMPLE BUISNESS RULE DOCUMENT

ONLINE E-TENDERING FOR PROPOSED AIR CONDITIONING WORKS OF STATE BANK INSTITUTE OF LEARNING AND DEVELOPMENTAT BHAVNAGAR

(A) Business rules for E-tendering:

- 1. Only empanelled ACcontractors 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 SBIADMIN. at the address mentioned hereinbefore 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.** e-Procurement **Technology**, **Ahmedabad** 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.

 E-tendering shall be conducted by SBI through M/s. e-Procurement Technology, Ahmedabad., 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 thenecessaryarrangements/alternativessuchasback—uppowersupplywhateverrequiredso 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 can not be the cause for not participating in the E-tendering. On account of this the time for the E-tendering can not be extended and SBI is not responsible for such eventualities.

- 2. M/s. **e-Procurement Technology, Ahmedabad**., 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 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 of E-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 empanelled 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 be 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 itemwise 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. e-Procurement Technology, Ahmedabad. The Bidders are requested to change the Password after the receipt of initial Password from M/s. e-Procurement Technology, Ahmedabad. 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 L-1 Bidder backs out or fail to complete the work as per the rates quoted, SBI shall at liberty to take action as deemed necessary including de-paneling such contractors and forfeiting their EMD

- 9. At the end of the E-tendering, SBI will decide upon the winner. SBI decision on award of Contract shall be final and binding on all the Bidders.
- 10. SBI shall be at liberty to cancel the E-tendering process/tender at any time, 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. **e-Procurement Technology, Ahmedabad** 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. **e-Procurement Technology, Ahmedabad** is not responsible for any damages, including damages that result from, but are not limited to negligence.
 - SBI or its authorized service M/s. **e-Procurement Technology, Ahmedabad** 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. **e-Procurement Technology, Ahmedabad**.
- 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 emailing)

M/s. e-Procurement Technology,

B-705, Wall Street - II, Opp. Orient Club, Ellisbridge, Ahmedabad – 460006,

State Gujarat, India

E:ditnaragan@auctiontiger.com

D: +91 7968136856

Email:

AGREEMENT TO THE PROCESS RELATED TERMS AND CONDITIONS FOR THE ONLINE E-TENDERING FOR PROPOSED AIR CONDITIONING WORK WORKS OF STATE BANK INSTITUTE OF LEARNING AND DEVELOPMENTAT BHAVNAGAR

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.
- 3) We also confirm that we have taken the training on the E-tendering tool and have understood the functionality of the same thoroughly.
- 4) We confirm that SBI and M/s. **e-Procurement Technology**, **Ahmedabad** 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 -----

SAFETY COMPLIANCE FORM

(The bidders are required to print this on their company's letter head and sign, stamp and attached Scan copy to Online Technical Bid)

To,

Assistant General Manager (SBILD)

STATE BANK INSTITUTE OF LEARNING AND DEVELOPMENT.

Vallabhi.

Hill Drive,

Bhavnagar.

AGREEMENT TO THE WORK SAFETYRELATED TERMS AND CONDITIONS FOR THEONLINEE-TENDERINGFOR PROPOSED AIR CONDITIONING WORK OF STATE BANK INSTITUTE OF LEARNING AND DEVELOPMENT.

Dear Sir,

This has reference to the Terms & Conditions for the WORK SAFETY related Terms and Condition mentioned in the Tender document

This letter is to confirm that:

- 7) The undersigned is authorized representative of the company.
- 8) We abide by all the work-related safety terms and condition mentioned here and also will comply all the statutory requirements related to work safety as per Government / Local Statutory Body. The Entire Work will be under supervision by our firm and will depute technically qualified supervisor till the work completion.
- 9) We will Ensure that work area is kept clean and tidy and free from debris. All disposal of waste will be done by us.
- 10) First aid appliances including adequate supply of sterilized dressing and cotton wool shall be kept in a readily accessible place.
- 11) An injured person shall be taken to a public hospital without loss of time, in cases where the injury necessitates hospitalization.
- 12) Suitable and strong scaffolds should be provided for workmen for all works that cannot safely be done from the ground.
- 13) 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 rungs shall not be more than 30 cm. When a ladder is used an extra mazdoor shall be engaged for holding ladder.
- 14) Every opening in the floor of a building or in a working platform be provided with suitable means to prevent to fall of persons or materials by providing suitable fencing or railing whose minimum height shall be one meter. Such area also need to provide barricades.
- 15) No floor, roof or other part of the structure shall be so overloaded with debris or materials as to render it unsafe.
- 16) Workers employed on mixing and handling material such as asphalt, cement mortar or concrete and lime mortar shall be provided with protective footwear and rubber hand-gloves.
- 17) Workers employed on mixing and handling material such as asphalt, cement mortar or concrete and lime mortar shall be provided with protective footwear and rubber hand-gloves.
- 18) Hoisting machines and tackle used in the works, including their attachments, anchorage and supports shall

be in perfect condition. The ropes used in hoisting or lowering material or as a means of suspension shall be of durable quality and adequate strength and free from defects. All lifting equipment / accessories e.g. slings, chains, webbing, chain blocks, winches, jacks etc. shall be indicated with their safe working load have an identification number visible on the unit and be inspected and tested in accordance with legal requirements.

- 19) Overalls shall be supplied by the contractor to the painters and adequate facilities shall be provided to enable the working painters to wash during the periods of cessation of work.
 - 1. Hoisting machines and tackle used in the works, including their attachments, anchorage and supports shall be in perfect condition.
 - 2. The ropes used in hoisting or lowering material or as a means of suspension shall be of durable quality and adequate strength and free from defects.
- 20) Those engaged in welding works shall be provided with welder's protective eye-shields and gloves. No paint containing leads or lead products shall be used except in the form of paste or readymade paint. The workers should supply suitable facemasks for use when the paint.
- 21) 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 labor shall be engaged for holding ladder.
- 22) 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.
- 23) All equipment and, materials and vehicles shall be stored in an orderly manner. Access to emergency equipment, exits, telephones, safety showers, eye washes, fire extinguishers, pull boxes, fire hoses etc. shall not be blocked or disturbed.
- 24) Confined Space Work Scope:
 - 1.Before commencing work in a confined space we will ensure the work is commenced in full authorized supervision. The supervision of work is in our scope.
 - 2.Confined space is kept identified and marked by sign near the entrance. adequate ventilation is provided. Adequate emergency provision is in place. Appropriate air monitoring is performed to ensure oxygen is above 20 %. Persons are provided with confined space training. All necessary equipment and support personnel required to entered in a confined space will be provided.
- 25) We will ensure that all tools, equipment and machinery will be provided for use during work is suitable for intended use, safe for use, used only by person who have received adequate information, instruction and training to use. We will always provide adequate Earth Leakage Circuit Breaker (ELCBs) when using electric power for all tools, equipment and machinery. Use of electrical tape and cords for temporary repair will be prohibited.
- 26) While working at height where there is a risk of fall and injury need to be provided fall prevention (e.g. fixed guardrails, scaffolds, elevated work platforms.) whenever possible and fall protection only when fall prevention is not practicable. Only ISI Approved Make full body harness and two shock- absorbing lanyards are used. Use of ISI marked industrial helmet at all point of time.
- 27) All scaffolds shall subject to a documented inspection by a competent person and clearly marked prior to

- use. The footings and anchorage for scaffolds shall be sound, rigid and capable of carrying the maximum intended load without setting or displacement. All scaffolding material should be of MS tubular type. Guardrails and toe-boards shall be installed on all open sides and ends of scaffold platforms. Scaffolds shall be provided with an access ladder or equivalent safe access. Vendor personnel shall not climb or work from scaffold handrails, mid rails or brace members.
- 28) Ladders should only be used for light duty and short-term work. ladders will never be tied to facility services piping, conduits or ventilation ducting. Fabricated ladders are prohibited.
- 29) Prior to performing work on machines or equipment, all personnel receive the necessary training of lockout tag Out ("LOTO") and permit to work procedures.
- 30) Floor openings, stairwells, platforms and walkways and trenching where a person can fall any distance shall be adequately barricaded and where necessary well lit. Where there is a risk of injury from a fall then rigid barriers must be used. Barricades must also be used to prevent personnel entering an area where risk of injury is high e.g. during overhead work activity or electrical testing etc. Gas cylinder must be securely stored and transported. Hose line shall be inspected and tested for leaks in line with local statutory body requirements. Flash back arrestor to be used to prevent any explosion due to backfire.
- 31) All the Electrical Work need to be done in Supervision of Qualified Electrical Supervisor License Person. Don't allow unauthorized and untrained persons to work on Electrical Systems. Don't come in direct contact with electric wires while in use/working. Never leave electrical equipment without properly earthed. All temporary/ permanent Electrical Supply board must be connected to Adequate rating Earth Leakage circuit Breaker (ELCBs) while working with Electrical Equipment/ Machinery/Tools etc. While working on live electrical supply all the personal protective equipment e.g. electrical insulated hand gloves, electrical insulated shoes, helmet etc. must be used. Energized panels will be closed after normal working hours and whenever they are unattended. Temporary wiring will be deenergized when not in use.
- 32) All hot work / Gas Cutting/ Welding activity need to be carried out in supervision. The operator shall wear helmet, hand gloves, safety goggles, shoes etc. while carrying out the activity. The workplace and its surrounding area shall be free from any flammable or combustible materials.
- 33) For Air Conditioning System all pressure vessels / compressor should be tested periodically. Machine should be electrically isolated while attempting to carry out their installation / maintenance.do not handle chemical / refrigerant gas without gloves/ mask/ gumboots. Do not attempt welding, brazing near flammable gas / chemical cylinder. Do not bypass the safeties of machines. Do not attempt to carry out any maintenance on the pressure vessel under pressurized condition. Use screens/goggles while carrying out welding/brazing work. Do not stack the gas cylinders lying down on the ground one over another. While installation of Indoor or Outdoor machine or Platforms proper size and load capacity anchor fastener will be used and will not hang or installed unsafe.
- 34) We are bound to comply on our owned expense with all labor laws and keep SBI indemnified in respect thereof. We will secure fully safety of the workers/ employees engaged by us in site premises and shall take at our own cost, insurances and such other safety regulations for the said purpose. We have obtained workmen compensation policy in the name of respective employee/ workmen to be engaged for the captioned subject work towards compensation as admissible under the Employee's Compensation Act 1923 and rules there under upon death/disablement and also medical treatment of a worker and same will

be produced to the Bank's officials before start of the work.

35) All the work allotted to vendor is work allotted by SBI to Firm or Individual Contractor. Hence The workmen staff of Contractor is not the employee of bank and all the salary/ bonus/ EPF/ ESIC/ Accidental Claim/ Death Claim/ Hospitalization Expense etc. and other labor beneficiary is complete responsibility of contractor. Contractor or any of workmen of contractor are not liable to claim any such benefits from bank.

With regards, Date:

Signature with company seal Name:

Company / Organization:

Designation within Company / Organization: Address of Company / Organization:

ARTICLES OF AGREEMENT

(On non-judicial Stamp Paper of Rs. 500/- or as per latest Govt. Rules)

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ARTICLES OF AGREEMENTmadethe							dateof between		
	SBI,havingitsofficeatMumbaihereinaftercalled"theServiceProvider" of the One								
_	WHEREAS	the	SBI	is	desirous	of			
and	has caused o	drawing	ıs and	speci	fications des	scribina	the work to	be done to be	
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AND	WHEREASthe	esaidDr	awings	numb	ered			_to	
inclusive, the Specifications and the Schedule of Quantities have been signed by or on									
behalf of the parties hereto.									
AND WHEREAS the Contractor has agreed to execute upon and subject to the									
Con	ditions s	et	forth	herein	andtotheCor	nditions	setforth	herein in	
theSpecialConditionsandintheSchedule of Quantities and Conditions of Contract (all of									
which are collectively hereinafter referred to as "the said conditions") the works shown									
upon the said Drawings and / or described in the said Specifications and included in the									
Schedule of Quantities at the respective rates therein set forth amounting to the sum as									
therein arrived at our such other sum as shall become payable there under (hereinafter									
referred to as "the said Contract Amount.)									
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Part

NOW IT IS HEREBY AGREED AS FOLLOWS:

- 1) In consideration of the said Contract Amount to be paid at the times 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 upon the said Drawings and described in the said Specifications and the priced Schedule of Quantities.
- 2) The Employer shall pay to the Contractor the said Contract Amount, or such other sum as shall become payable, at the times and in the manner specified in the said Conditions.
 - The term "the Architects" in the said Conditionsshallmean the **M/s.-**, or 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 Employer, not being a person to whom the Contractor shall object for reasons considered to be sufficient by the Employer, PROVIDED ALWAYS that no person or persons subsequently appointed to be Architects under this Contract shall be entitled to to disregard or overrule any previous decisions or approval or direction given or expressed in writing by the outgoing Architects for the time being.
- 3) The said Conditions and Appendix thereto shall be read and construed as forming part of thisAgreement,andthepartiesheretoshallrespectivelyabidebysubmit themselves to the

- saidConditionsandperformtheAgreementsontheir part respectively inthesaidConditions contained.
- 4) The Plans, Agreements and Documents mentioned herein shall form the basis of this Contract.
- 5) This Contract is neither a fixed lump-sum contract nor a piece work contract but a contract to carry out the work in respect of the entire building complex to be paid for according to actual measured quantities at the rates contained in the Schedule of Quantities and Rates or as provided in the said Conditions.
- 6) TheContractorshallaffordeveryreasonablefacilityforthecarryingoutofallworksrelating to civil works, installation of lifts, Telephone, electrical installations, fittings air-conditioning and other ancillary works in the manner laid down in the said Conditions, and shall make good any damages done to walls, floors, etc. after the completion of his work.
- 7) The SBI 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) TimeshallbeconsideredastheessenceofthisContractandtheContractorherebyagrees to commence the work soon after the Site is handed over to him or from the date 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 to nevertheless the provisions for extension of time.
- 9) All payments by the SBI under this contract will be made only atBHAVNAGAR.
- 10) All disputes arising out of or in any way connected with this agreement shall be deemed to have arisen at Ahmedabad and only the courts in Ahmedabad i shall have jurisdiction to determine the same.
- 11) That the several parts of this Contract have been read by the Contractor and fully understood by the Contractor.
 - IN WITNESS WHEREOF THE SBI and the Contractor have set their respective hands to these presents and two duplicates hereof the day and year first hereinabove written.

SIGNATURE CLAUSE			
SIGNED AND DELIVERED by t	he		
	By the (Er	nployer	·)
hand of Shri			
(Name and Designation) In		1) \$	Shri /Smt.
thepresence of:			

(Signature of Employer)	(Oi and a towns of Miles and a)			
	(Signature of Witness)			
Address				
(Witness)				
SIGNED AND DELIVERED by the				
Bythe (Contractor)	(Signature of Contractors)			
in the presence of:				
Shri/ Smt	(Signature ofWitness)			
Address				
(Witness)				

SECTION - 1

INSTRUCTIONS TO THE TENDERERS

1.0 Scope of work

Sealed Tenders are invited by SBIon behalf of SBI for Proposed Air Conditioningworks for STATE BANK INSTITUTE OF LEARNING AND DEVELOPMENTAT BHAVNAGAR

1.1 Site and its location

The proposed work is to be carried out at STATE BANK INSTITUTE OF LEARNING AND DEVELOPMENTAT BHAVNAGAR

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. 4500/- (Four Thousand Five Hundred) 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 favour of SBI and payable at BHAVNAGAR.
- 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 30 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 BHAVNAGAR within a period of 7 days of acceptance of tender.

5.1 Security Deposit:

Total security deposit shall be 3% of contract value. Out of this 2% 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) including ISD 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:

In case L-1 bidder quotes abnormally low rates (i.e. 10% or more, below estimated project cost), the bank may ask such bidder to deposit additional security deposit (ASD) equivalent to difference of estimated cost vis-à-vis L-1quoted amount for due fulfillment

of contract. Such ASD could be in the joint name of the Bank and bidder in the form of FDR / Bank's guarantee as per format approved by the Bank. On successful completion of work ASD will be returned to the contractor. In case contractor fails to complete the work in time or as per tender specification or leave the job incomplete, the bank will be at liberty to recover the dues from ASD or to forfeit such ASD as the case may be within its sole discretion.

No interest shall be paid to the amount retained by the Bank as Security Deposit for the defect liability period of one year from the date virtual completion certificate (VCC). However, interest on FDR for additional security deposit will be received by the bidder.

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:

Tenders shall remain valid and open for acceptance for a period of 90 days from the date of e-reverse auction. 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 forfeit the EMD.

8.0 <u>Liquidated Damages:</u>

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 Asst General Manager, State Bank Of India, STATE BANK INSTITUTE OF LEARNING AND DEVELOPMENT, Vallabhi, ,Hill Drive,,-,BHAVNAGAR

and includes the client's representatives, successors and assigns.

- 1.0.1 'Architects/ Consultants' shall mean **M/s** -, Architects & Interior Designers, Ahmedabad.
- 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.
- 1.1.11 "SBI Engineer" shall mean The Civil/Electrical Engineer in-charge of the Project, as nominated by the AGM (P&E), SBI, BHAVNAGAR
- 1.1.12 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 in the form of Demand draft or bankers cheque drawn in favour of SBI.Rs. 4500/- (Four Thousand Five Hundred) payable at BHAVNAGAR, 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 2% of accepted value of tender including the EMD 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.IF CONTRACTOR FAIL TO PROVIDE QUALITY OF MATERIALS / WORK MAN SHIP THAN NECESSARY PENALTY UP TO MAXIMUM 10 % OF CONTRACT VALUE WILL BE RECOVERED. THE QUALITY WILL BE VARIFIED BY ARCHITECT / BANK'S ENGINEER. IF THE WORK QUALITY IS NOT FIT FOR USE AS PER SAFETY STANDARD THAN WHOLE WORK INCLUDING ELECTRICLAL/ AC/ CIVIL/FURNITURE ALIGN WITH THE WORK NEED TO BE EXECUTE REVISED AS PER TENDER STANDARDS.AND NO SUCH CLAIMS OF REVISED WORK WILL BE PAID.

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/ FIRE SAFETY/ELECTRICAL SAFETY:

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.ALL THE FIRE/ ELECTRICAL SAFETY / WORKMAN SAFETY NORMS NEED TO BE FOLLOWED BY CONTRACTOR in CONTRACTOR SUPERVISION. NO SUCH CLAIM OF DAMAGE OF PROPERTY/ LABOUR/ MATERIAL will be paid by SBI to Contractor/ Labour.

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, labour 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 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 <u>60days</u> 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 30 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..

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.

44.0

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 State Bank of India, At BHAVNAGAR and endorse a copy of the same to the Architect, within 30 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 State Bank of India, At BHAVNAGAR 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 State Bank of India, AtBHAVNAGAR in writing in the manner and within the time aforesaid.

B. Settlement of Disputes and Arbitration:

The Assistant General Manager State Bank of India, At BHAVNAGAR shall give his decision in writing on the claims notified by the receipt of the contractor may within 30 days of the receipt of the decision of the Submit his claims to the conciliating authority namely the DGM.& CDO., SBI AGM, BHAVNAGAR 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 30 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 30 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 contractor 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

Name of the organization Offering Control DE	State	Bank Of India, E BANK INSTITUTE OF LEARNING AND NT, ohi, ,
	-, BHA\.	/NAGAR
2) Consultants : M/s -	Dint	
3) Site Address : STATE BANK II BHAVNAGAR	NSTITUTE	OF LEARNING AND DEVELOPMENTAT
4) Scope of Work : Proposed AIR COND LEARNING AND DEVELOPMENT AT BHAVNAGAR	ONINOITIC	6 works of STATE BANK INSTITUTE OF
5)Name of the Contractor	:	
6)Address of the Contractor	:	
7) Period of Completion	:	15 days from the date of Issue of work order.
8) Earnest Money Deposit by means of Demand Draft/Pay Order (date of submission of the tender) from a favour of State Bank of India. and payab	any sche	Rs. 4500/- (Four Thousand Five Hundred) raperiod of 90 Days from the last duled Nationalized Bank drawn in
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 Contractor at his cost(Contractor's all risk p	: policy)	125% of Contract Value
12) Liquidated damages shown in the tender per week subject to ma value.	: ax. 5% of	0.5% of the Contract amount the contract value or actual final bill

Only full and final payment shall be made after
: From the date of work order
: 2 Months from the date of Virtual Completion.
: 2% of the Accepted Value of the Tender.
: 3% of the final bill amount including ISD
: 50% of the Security Deposit completion of the work and balance refunded over.
: One Month for R.A.Bills
e Contractor within one month of the date fixed e Certified within 3 months from the date of submitted with all pre-requisite documents/test
Signature of Tenderer.
Date:

LETTER OF DECLARATION

To,
Asst General Manager,
State Bank Of India,
STATE BANK INSTITUTE OF LEARNING AND DEVELOPMENT,
Vallabhi, ,
Hill Drive,,
-,
BHAVNAGAR

Dear Sir,

PROPOSED AIR CONDITIONING WORK WORKS OF STATE BANK INSTITUTE OF LEARNING AND DEVELOPMENTAT BHAVNAGAR

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	ProposedAir Conditioningworks of STATE BANK INSTITUTE OF LEARNING AND
		DEVELOPMENTAT BHAVNAGAR
(b)	Earnest Money	Rs. 4500/- (Four Thousand Five Hundred) by means of Demand Draft / Pay Order from any scheduled Nationalized Bank drawn in favour of SBI and payable at BHAVNAGAR.
(c)	Time allowed for completion of work from the date of issue of work order.	30days 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. 4500/- (Four Thousand Five Hundred) 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

i. 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 pe	As per Tender Up to Previous R.A. Bill				Present 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	Signature and date of	Signature and date of
Contractor	Architects	Site Engineer
	Representative (Seal)	_

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

MEMORANDUM FOR PAYMENT

R/A BILL NO.

	T=	
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

	ıe checkin	o Rs (both figures and wo	,		
Date:			Signature of Architect with Seal		
after du	ie test che	o Rscertified by Consultar ecking of measurements of works as re- mount of Rs	nts has been scrutinized by me quired and is recommended for		
Date : -					
Signatu	ıre of Banl	ks/ 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		
		n in the Memorandum for payable has b			
Signatu	re of the /	AGM (SBILD)			

TECHNICAL SPECIFICATION FOR THE AIR CONDITIONING CONTRACT WORK

C _r	
Sr. No.	Description of work
01	Supply of split A/C 1.0 tr. (3 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. (3- 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. (3 star, Inverter):- 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. (3- 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. (3 star, Inverter):- 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. (3- 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.
04	Installation of split 1& 1.5 Tr:- 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 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

- 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.

08 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.

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 SCOPE

(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
Duct Size	е		Spacing
1–500 mm	26	C&S Connector	
501 – 750	26	C&S Connector	
mm			
751 – 900	24	TDF Flange	
mm			
901 – 1200	24	TDF Flange	
mm			
1201 – 1500	22	TDF Flange	
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	

^{*}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.

b)

10.5 DAMPERS

a. 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 aluminium 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:
- I. 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					
Sl. No.	Details of the Items	Manufacturer's name			
1.	1. Package / Ductable units Daikin, Hitachi, Carrier				
2.	Propeller Fans	Crompton			
3.	Electric Motors	Crompton / Siemens/Bharat Bijlee			
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 rubber Insulation for ref pipe insulation	Eurabatax/Aeroflex/Totaline			
11.	Flexible Duct Connection	Airflow/Pyroguard			
12.	Gaskets	Neoprene rubber			
13.	A III '				
	Adhesives	Fevicol / Superlon			
14	Vibration Isolator	Fevicol / Superlon Resistoflex/Dunlop			
		•			
14	Vibration Isolator	Resistoflex/Dunlop			
14 15.	Vibration Isolator Filters/Air Showers	Resistoflex/Dunlop Dyna/Thermadyne/Cherub			
14 15. 16.	Vibration Isolator Filters/Air Showers Polyethylene for duct insulation	Resistoflex/Dunlop Dyna/Thermadyne/Cherub Supreme/Trocellene/Totaline			

Wall Mounted Split AC UnitHitachi/ Daikin/Mitsubishi Heavy Indu./Toshiba/ O General/ Blue Star/

	NOT TO FILL BY VENDOR		
Sr.No.	Description	Quantity	Unit
[A]	AIR CONDITIONING WORK		
[1]	MACHINE PART		
[a]	AC EQUIPMENT		
1	Ductable Air Conditioners 7.5 Tr, Twin Circuit, 3 Phase Twin Rotary Compressor, R22/R410A/R32 gas charging complete with Collar Connection to Existing Duct.(Make: Hitachi/ carrier/ Voltas/ Bluestar/ Daikin)		
1.a	7.5 Tr Ductable Unit	2	NO
	TOTAL FOR PART- I		
[11]	LOW SIDE WORK		
r1			
1	Installation of IDU & ODU of Ductable unit no of mentioned capacity with first oil & gas charge & commissioning etc. Rate including ceilling mounted suspension Kit etc complete	2	NO
2	Referigerant piping - insulated 0.80mm wall thicknees copper tube of Mandav/ Totalline make between indoor to out door unit of Ductable Unit with 4 Sqmm 4 Core copper flexible cable of Finolex / R R Kable/Havells/KEI make. The copper piping shall be insulated with 13mm thick Nitrite rubber insulated of 'O' Class of K Flax/Armaflex/ Superlon Make.This Copper Pipe Installation also include Civil Work for entire AC work of Branch (including jari in wall and jari filling, hole filling with cement mortar and finishing with putty.) This work is for entire Branch Air Conditionoing System.	105	RMT
3	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) This UPVC Pipe Installation also include Civil Work for entire AC work of Branch (including jari in wall and jari filling, hole filling with cement mortar and finishing with putty. This also include Removing of Flooring Tiles and Providing Drain pipe during Shifting / Installation of Ac and refixing of same color tiles properly.) This work is for entire Branch Air Conditionoing System.		

8 SWG CU. Wire with 20 mm dia. PVC rigid conduit duly cleated / concealed / burried in floor etc. complete. Connection to Outdoor Unit From Main Electrical Panel Grounding.	100.00	RMT
GLDUCTING (GLSHEET AS PER IS-277-1965) AND DUCTING AS PER IS 655		
GI DOGTING (GI GILLET AGT EK 10-271-1303) AND DOGTING AGT EK 10 033		
22 G	3.00	MTR 2
EXTERNAL THERMAL INSULATION OF SUPPLY / RETURN AIR DUCTING WITH 13 MM OF ELASTOMERIC NITRITE FOAM SHEET (CLASS O) WITH NITRITE TAPE	3.00	MTR 2
M.S. VOLUME CONTROL DAMPERS (DUCT)	2.00	MTR 2
Providing Canvash sheet connection for Indoor Unit to Ducting.	2.00	Nos
Providing and Fixing M.S Powder coated stand for keeping outdoor unit of Split A/C/ CASSATE AC/ Ductable AC as listed above. STAND SHOULD HAVE ENOUGH MECHANICAL STREGNTH TO CARRY LOAD OF OUT DOOR UNIT(Ready made/ Fabricated)	2.00	Nos
ALL SORT OF CIVIL WORK REQUIRED TO BE EXECUTED IN ORDER TO MAKE THE A.C. SYSTEM INSTALLED & PUT IN WORKING CONDITION. THE ITEM INCLUDES, MAKING HALLS / GAPS IN WALLS, MAKING ZARIES REQUIRED FOR VARIOUS TYPES OF DRAIN, REFEREGERENT & DRAIN WATER PIPES / LINES IN WALLS, FLOOR ETC. USING CUTTER MACHINE, REFINISHING ON BOTH SIDE THE SAME WITH REACH CEMENT MORTAR TO MATCH THE SURROUNDING SURFACES & PUT ENTIRE WORK WITH PROPER FINISHES.	1.00	JOB
TOTAL FOR PART- II		
BUYBACK		
Buyback of OLD EXISTING DUCTABLE AC INDOOR AND OUT DOOR UNIT WITH COPPER PIPING.	2	Nos
TOTAL FOR PART- III		
TOTALTONTANT		
TOTAL AMOUNT (I + II -III)		
Rate quoted shall includes all Taxes such as Sales Tax, VAT, Excise, Octroi, , etc. including transportation charges. Excluding GST [GST will be Paid Extra as per Applicable Norms]		
1 Year of entire machine with all spares <u>unconditional warranty</u> with 3 free services and 5 year warranty at site for compressor & PCB shall be provided by the supplier.		
	/ burried in floor etc. complete. Connection to Outdoor Unit From Main Electrical Panel Grounding. GI DUCTING (GI SHEET AS PER IS-277-1965) AND DUCTING AS PER IS 655 22 G EXTERNAL THERMAL INSULATION OF SUPPLY / RETURN AIR DUCTING WITH 13 MM OF ELASTOMERIC NITRITE FOAM SHEET (CLASS O) WITH NITRITE TAPE M.S. VOLUME CONTROL DAMPERS (DUCT) Providing Canvash sheet connection for Indoor Unit to Ducting. Providing and Fixing M.S Powder coated stand for keeping outdoor unit of Split A/C/ CASSATE AC/ Ductable AC as listed above. STAND SHOULD HAVE ENOUGH MECHANICAL STREGNTH TO CARRY LOAD OF OUT DOOR UNIT(Ready made/ Fabricated) ALL SORT OF CIVIL WORK REQUIRED TO BE EXECUTED IN ORDER TO MAKE THE A.C. SYSTEM INSTALLED & PUT IN WORKING CONDITION. THE ITEM INCLUDES, MAKING HALLS / GAPS IN WALLS, MAKING ZARIES REQUIRED FOR VARIOUS TYPES OF DRAIN, REFEREGERENT & DRAIN WATER PIPES / LINES IN WALLS, FLOOR ETC. USING CUTTER MACHINE, REFINISHING ON BOTH SIDE THE SAME WITH REACH CEMENT MORTAR TO MATCH THE SURROUNDING SURFACES & PUT ENTIRE WORK WITH PROPER FINISHES. TOTAL FOR PART- II BUYBACK BUYBACK BUYBACK BUYBACK BUYBACK Rate quoted shall includes all Taxes such as Sales Tax, VAT, Excise, Octroi, 6	Journey of the Complete

[3]	The Standard installation charges for the high wall split A.C unit shall include 5 meter Each of Refrigerant pipe & Electrical Wiring [Copper 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 from total measurment.] Rate includes Removing of existing Split AC & Copper & Drain Pipeing in above recpeted items.
[4]	All Civil work such as Masonary work slike breacking 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 Excuted in Total Co. Ordination with the Other Agencies Working on this Project more particularly with the False Ceiling and Electrical work. IF THE CONTRACTOR HAS NOT CARRIED OUT AIR CONDITIONING WORK AS PER STANDARD SPECIFICATION IN COORDINATION THEN CONTRACTOR IS LIABLE TO REMOVE AND REWORK AS PER STANDARD SPECIFICATION AND WHATEVER THE DAMAGE IN CONNECTION WITH CIVIL/ FURNITURE/ ELECTRICAL WORK WILL BE BEAR BY CONTRACTOR. IF CONTRACTOR WILL NOT DONE REWORK THEN WHATEVER BEEN THE COST FOR REWORK WILL BE DEDUCTED FROM CONTRACTOR'S PAYMENT BILL.
[6]	The contractor will have to attend all defects noticed during defect liability period. Within 24 hours from the time of complain. If the contractor fails to attend to the defects within 24 hours time these defects will be rectified by the Bank and the expenditure incurred on this account will be recovered from security deposite, or any other money due on to time.
[7]	Buyback of old AC rate is as it is condition at site available. No rate deduction will be allowed in buyback amount if some part is not available at site or anything else.
[8]	As renovation work in working branches is critical job contractor need to attend work i.e removing & refixing of old AC & piping, installation of Piping, New AC installation, Problem in Ac etc. within 24 Hrs after reciving email, written complaint, telephonic instruction etc. If fail to attend the same the penalty will be charge on contractor and subsequently lead to termination of contract or dismissal from empanelment of the contractor by higher authority.
[9]	ITEM RATE QUOTED WHICH ARE ABNORAMALY LOW RATE (ALR) OR ABNORMALLY HIGH RATE(AHR) WILL BE ASKED FOR RATE ANALYSIS OF PERTICULAR ITEM.
10	RATE QUOTED FOR AC SUPPLY IS INCLUSIVE OF VOLTAGE STABILIZER. IF VOLTAGE FLUCTUATION OBSERVED AT SITE THAN NEED TO INSTALLED VOLTAGE STABILIZER.
11	Electric WIRE From MCB/ELCB/ RCCB to Indoor unit of Split Ac or Out door Unit of cassate AC need to be provided by Air Conditioning Work Vendor. No Additional Cost Will be provided for the same.
12	ready Made Ac Stand Should be having mechanical stregnth of taking outdoor unit load of any of above listed AC.