

NITNO	SBIRB/HYD/2023-24/013
DATE	30.01.2024



STATE BANK INSTITUTE OF RURAL BANKING (SBIRB), HYDERABAD

INVITES

TENDER FOR

ELECTRICAL WORKS RELATED TO PROPOSED RENOVATION OF CLASSROOM 5 AT STATE BANK INSTITUTE OF RURAL BANKING (SBIRB), LINGAMPALLY, HYDERABAD.

FROM

Electrical contractors who are empanelled with SBI-LHO, Hyderabad under respective category are only eligible to participate*

THROUGH E-TENDERING PROCESS

CONSULTANTS:

mapeconnoisseurs,

(Milind Architectural, Interior & Pankaj Engineering Connoisseurs)
3-4-485&485/1,D1,IFloor,NearBankofBaroda,
Opp,,Reddywomen'scollege,Barkatpura,HYDERABAD-500027.
Tel.:48557866409-48557866.URL:www.mapeindia.comE-
mail:info@mapeindia.com

Last date for submission of Sealed Tender: 15.00 P.M. (IST) on 05/02/2024.

Opening of Sealed Tenders: 15.30 P. M. (IST) on 05/02/2024

Tender to be submitted to :

ChiefManager(Admin),
State Bank Institute of Rural Banking (SBIRB)
Lingampally, Hyderabad-500019
Phone No: 040-23463306, Email:agmadmin.sbirb@sbi.co.in

NOTICE INVITING TENDER (NIT)

SBIRB, invites online tenders on behalf of State Bank of India for the following work in TWO BIDS SYSTEM from the empanelled electrical contractors of LHO Hyderabad circle in respective category.

1.	Name of the Work	Electrical works related to proposed renovation of Classroom 5 at State Bank Institute of Rural Banking, Hyderabad
2.	Estimated cost of work	₹7,38,000/- plus GST as applicable
3.	Quantum of Earnest Money Deposit (EMD)	₹7500/- DD Drawn In Favor of "CM(Admin), SBIRB", Payable at Hyderabad. EMD will be exempted under submission of valid MSE certificate in the respective category. EMD/Valid exemption certificate should be submitted before due date
4.	Time for Completion of work	45 Days from the date of PO or hand over of the site Whichever is earlier.
5.	Eligibility of the contractor	1. Empanelled electrical contractors of LHO Hyderabad circle in respective category. 2. The vendor should have a valid digital signature to Participate in the online tendering process
6.	Date and Time where Tender forms are available	From 30/01/2024 to 05/02/2024
7.	Download from the websites: links	https://etender.sbi
8.	Last date and time of Submission of online Tender	05/02/2024 up to 15.00 hours
9.	Date, Time of opening of e-Tenders (Technical bid)	05/02/2024 up to 15.30 hours
10.	Place of submission of EMD/MSE certificate, opening of tender, contact person/ telephone no/email address.	Office Chief Manager (Admin), State Bank Institute of Rural Banking (SBIRB), Lingampally, Hyderabad 5 00019 Phone No: 040-23463306 Email: agmadmin.sbirb@sbi.co.in
11.	Quantum of Security Deposit (percentage)	1. Initial Security Deposit (ISD) – 2% of the Tender Value including EMD

		2. Retention Money- 10% from each running bill subject to maximum of 5% of the contract value including EMD & ISD
12.	Terms of payment of Bills, if any (specify the minimum value of work for payment of running Account bills)	i) No advance payment. ii) Interim Payment-₹4.00lakhs Final Payment after completion of the work subject to deductions as applicable.
13.	Initial Security Deposit (ISD)	2% of the Contract value
14.	Defects Liability Period	12 Months from the date of completion or commissioning and handover of the work.
15.	Liquidated Damages for delay in work	If the work is delayed beyond the scheduled completion date, then 0.50% of the total value of the contract per week (or part thereof) of delay will be deducted from the final bill value subject to max 5% of The value of work
16.	Validity of tender	90 days.
17.	Eligible Taxes	A) Income Tax will be deducted at source as per Govt. Guidelines. B) Reimbursement of GST will be made only on submission of proper GST invoice as per applicable GST provision. The contractor should comply with the following; <ol style="list-style-type: none"> 1. Contractor should have GST Registration Number 2. Invoice should specifically/separately disclose the amount of GST levied at applicable rate as per GST provision 3. In case of Correction in the bills after scrutiny, contractor should submit fresh bills for payment 4. Contractor should timely file his GST return in accordance with GST provisions to enable the bank to claim the credit of GST paid to the contractor 5. The GST Number of State Bank of India are For Telangana State-36AAACS8577K1ZQ
18.	Electronic Payment	Payment shall be made by way of Electronic fund Transfer and the bill will be paid by the Branch. Firm

		Should furnish details of the bank, a/c no, IFSC code		
19.	Any additional Information	The quoted rate should be inclusive of materials, labour, wages, fixtures, transportation, installation, all taxes (excluding GST), wastages, Octroi, machinery, temporary works such as scaffolding, cleaning, overheads, profit, statutory expenses, incidental charges and all related expenses to complete the work		
20.	For any queries or Supporting connection with The online tendering process, please contact Our E-procurement Solutions agency	e-Procurement technologies Limited, Ahmedabad.		
		Dinesh Bagresha	Dinesh.bagresha@eptl.in	9510812960
		DevendraR	Devendra.r@eptl.in	9510812971
		NandanValera	Nandan.v@eptl.in	9081000427
		FahadKhan	Fahad@eptl.in	9904406300
		NikhilKhalas	Nikhil@eptl.in	9374519729
In case the date of opening is declared as a holiday, the tenders will be opened on the next working day at the same time.				
SBI reserves the right to accept or reject any oral bids without assigning any reasons thereof, even after opening of the bids.				
If the final L1 bid is below 7.5% of the estimated cost then the L-1 contractor has to submit Additional Security Deposit (ASD)/ Additional Performance Guarantee(APG). The amount of such ASD / APG shall be the difference between 92.5% of estimated cost put to tender and the quoted price.				
Bank Guarantee or FDR receipt favoring Asst. General Manager, SBI, but drawn on any other Nationalized Bank may also be accepted as ASD/APG.				

INSTRUCTIONSTOTHETENDERERS

1. Scope of Work:

Online Sealed Tenders are invited by State Bank of India for the work as specified in the tender

1.1 Site and Its Location

The proposed work is to be carried out at as specified in the NIT

Tender Documents

The work has to be carried out strictly according to the conditions stipulated in tender consisting the following documents and the most work man like manner,

1. Instructions to tenderers
2. General Conditions of Contract
3. Special Conditions of Contract
4. Additional Conditions for Electrical Installation
5. Technical Specifications
6. Drawings
7. Price Bid

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. Technical Specifications
- c. Additional Conditions for Electrical Installation
- d. Special Conditions of Contract
- e. General Conditions of Contract
- f. Instructions to Tenderers

Complete set of Bid documents can be downloaded from the Bank's website <http://www.sbi.co.in> under "SBIintheNews" link "procurementnews" and also at our e-procurement agency's portal <https://etender.sbi> during the period mentioned in the NIT.

The tender documents are not transferable.

3 Site Visit

The tenderer must obtain himself on his own responsibility and his own expenses all information and data which may be required for the purpose of filling this tender document and enter in to 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 regulation etc;

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

4 Earnest Money

The tenderers are requested to submit the Earnest Money as specified in the NIT in the form of Demand Draft or Banker's Cheque in favour of as mentioned in the NIT drawn on any Bank in India. EMD will be exempted subject to submission of valid MSE certificate under respective category.

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.

No interest will be paid on the EMD.

EMD of unsuccessful tenderers will be refunded within 30 days of award of Contract.

EMD of successful tenderer will be retained as a part of security deposit.

5 Initial Security Deposit

The successful tenderer will have to submit a sum equivalent to 2% of contract value less EMD by means of D/D as mentioned in the NIT within a period of 15 days of acceptance of tender.

6 Security Deposit

Total security deposit shall be 3% of contract value or as per GO issued by central government at that time i.e. settlement of final bill. Out of this 2% of contract value is in the form of initial security deposit 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 3% of contract value is reached. 50% of the total security shall be paid to the contractors 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.

No interest shall be paid to the amount retained by the Bank as Security Deposit.

7 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 his tender by the Bank. However, the written acceptance of the tender by the Bank will constitute a binding agreement between the Bank and successful tenderer whether such formal agreement is subsequently entered into or not.

8 Completion Period: As stipulated in the NIT

9 Validity of Tender

Tenders shall remain valid and open for acceptance for a period of 3 (Three) months from the date of opening price bid. If the tenderer withdraws his/her offer during the validity period or makes modifications in his/her original offer which are not acceptable to the Bank without prejudice to any other right or remedy the Bank shall be at liberty to forfeit the EMD.

10 Liquidated Damages

The liquidated damages shall be 0.5% per week subject to a maximum of 5% of contract value.

11 Rates and Prices

In case of item rate tender

APPLICABLE ONLY FOR OFFLINE TENDER:

- a. The tenderers shall quote the rates for individual items both in words and figures in case of discrepancy between the rates quoted in words and figures the unit rate quoted in words will prevail.
- b. 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.
- c. 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.
- d. 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/ Bank.
- e. Each page of the BOQ shall be signed by the authorized person and cutting or overwriting shall be duly attested by him.
- f. Each page shall be totaled and the grand total shall be given.

APPLICABLE BOTH ONLINE/ OFFLINE TENDERS

- a. The rate quoted shall be firm and shall include all costs, allowances, taxes, levies, etc except GST. Applicable GST will be reimbursed by the Bank on the executed value.
- b. If no rate is quoted for a particular item the contractor shall not be paid for that item when it is executed.

12. CLARIFICATION/AMENDMENTS AND CORRIGENDUM:

Bidder requiring any clarification of the bidding document may not if any us in writing at the address/bye-mail given in the NIT within the date/ time mentioned.

The clarifications to the queries received or amendments in the tender will be posted on the Bank's website and e-tender portal as a corrigendum/Addendum. No individual communication will be conveyed to the Bidders. The interested parties/ Bidders are advised to check the above website regularly till the date of submission of Bid document and ensure that clarifications/amendments issued, if any, have been taken into consideration before submitting the Bid. Such amendments/clarifications, if any, issued by the Bank will be binding on the participating Bidders. Bank will not take any responsibility for any such omissions by the Bidder. Bank, at its own discretion, may extend the deadline for submission of Bids in order to allow prospective Bidders a reasonable time to prepare the Bid, for taking the amendment into account.

Bank/ SBI reserve the right to amend, rescind or reissue the tender, at any time prior to the deadline for submission of Bids.

No request for change in commercial/legal terms and conditions, other than what has been mentioned in the tender or any addenda/corrigenda or clarifications issued in connection there to, will be entertained and queries in this regard, therefore will not be entertained.

Queries received after the scheduled date and time will not be responded/acted upon.

13. Bank's RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS

Bank/ SBI reserves the right to accept or reject any Bid in part or in full or to cancel the Bidding process and reject all Bids at any time prior to award of the contract, without incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the Bank's action.

The acceptance of a tender rests with the Competent Authority, who does not bind himself to accept the lowest tender and reserves to himself the authority to reject any or all of the tenders received, without assigning any reasons. All tenders in which any of the prescribed conditions are not fulfilled, or are incomplete in any respect are liable to be rejected.

The notification of award will constitute the formation of the Contract. The selected Bidder should convey acceptance of the award of contract by returning duly signed and stamped duplicate copy of the PO within 15 days of receipt of the communication and to enter into an agreement with the Bank.

OPENING AND EVALUATION OF BIDS

The online Bids will be opened at the office address of SBI mentioned in the NIT. Representatives of Bidder may be present during opening of Bids. However, Bids would be opened even in the absence of any or all the bidder's representatives.

In the two bid system, the technical bids will be opened at the scheduled time mentioned in the NIT. In case, if the date of opening is declared as non working day or Holiday, the bids will be opened on the next working day. The price bid of the qualified vendors will be opened on the same day or on a subsequent date which will be intimated to the bidders.

VALIDITY OF BID

Bids shall remain valid and open for acceptance for a period stipulated in this document from the date of opening of price bid. If the Bidder withdraws his/her offer during the validity period or makes modifications in his/her original offer, which are not acceptable to the Bank, without prejudice to any other right or remedy, the Bank shall be at liberty to forfeit the EMD.

PRELIMINARY EXAMINATION

SBI will examine the Bids to determine whether they are complete, on required formats & accompanied by supporting Documents and the Bids are conforming to all the terms and conditions of the Bidding Document without any deviations and are generally in order.

If a Bid is not conforming to the terms and conditions, it will be rejected. However, SBI will have right to demand submission of more information as required, if any of the document is partly submitted. If the bidder does not respond within the stipulated time, SBI will reject or disqualify the bid.

TECHNICAL EVALUATION

Only those Bidders and Bids who have been found to be in conformity of the eligibility terms and conditions during the preliminary evaluation would be taken up for further detailed evaluation. Those Bids who do not qualify the eligibility criteria and all terms during preliminary examination will not be taken up for further reevaluation.

During evaluation of bids, the SBI may, at its discretion ask the bidders for clarification of its bid. The request for clarification shall be in writing and no change in prices or substance of the bid shall be sought, offered or permitted. No post bid clarification at the initiative of the bidder shall be entertained.

The tenders must be unconditional. Conditional tenders leading to unknown/indefiniteliability may be summarily rejected.

17. EVALUATION OF PRICE BIDS AND FINALIZATION

Only those Bidders who qualify in Technical evaluation would be shortlisted and the online price bid submitted by the bidder will be opened.

The L1 Bidder will be selected on the basis of net total of the price evaluation as quoted in the online bidding or Reverse Auction (if conducted).

The process of online rebidding amongst the two or more contractors offerings a merates shall continue till L1 bidder is discovered. If required, SBI shall conduct reverse auction to discover the L1 bidder.

Incase, any of such contractors or all contractors (who have quoted same tender amount in the initial bidding or subsequent bidding) refuse to submit revised offer, it shall be treated as "Withdrawal of tender" by the Contractor before acceptance by SBI and the EMD of such contractor shall be forfeited and they shall not be allowed to participate in the tendering process for the work.

GENERAL CONDITIONS OF CONTRACT

a. Definitions

"Contract" means the documents forming the tender and the acceptance thereof and the formal agreement executed between State Bank of India (Client) and the contractor, together with the documents referred therein 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 here by respectively assigned to them.

'SBI' shall mean State Bank of India (client) a body Corporate created under State Bank of India Act 1955, having its Corporate Centre at State Bank Bhavan, Madame Cama Road, Mumbai 400 021 and a Apex Training Centre State Bank Institute of Consumer Banking, Begumpet, Hyderabad and includes the client's representatives, successors and assigns.

'Architects/Consultants' shall mean as M/s Mape

'Site Engineer' shall mean an Engineer appointed by the Bank as the representative to give instructions to the contractors.

The Contractor shall mean the individual or firm or company whether incorporated or not, undertaking the works and shall include legal personal representative of such individual or the composing the firm or company and the permitted assignees of such individual or firms of company.

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

'Engineer' shall mean the representative of the Architect/consultant.

'Drawings' shall mean the drawings prepared by the Architects and issued by the Engineer and referred 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 the value of the entire work as stipulated in the letter of acceptance of tender subject to such additions there to or deductions there from as may be made under the provision here in after contained.

'Specifications' shall mean the specifications referred to in the tender and any modifications there of as may time to time be furnished or approved by the architect/consultant "Month" means calendar month.

"Week" means seven consecutive days.

"Day" means a calendar day beginning and ending at 00 Hrs and 24 hrs respectively.

CLAUSE

1. Security Deposit

Total Security deposit comprise of:

- a. Earnest Money Deposit
- b. Initial Security Deposit
- c. Retention Money

(a) Earnest Money Deposit (EMD):

- The tenderer shall furnish EMD as specified in the NIT in the form of Demand draft or Bankers cheque drawn in favour of as specified in the NIT, on any Scheduled Bank. **EMD is exempted subject to submission of valid MSE certificate in respective category.**
 - 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 with out interest.
 - The EMD shall stand absolutely forfeited
- i. If the tenderer revokes his tender at any time during the period when he is required to keep his tender open acceptance by the SBI

or

- ii. After it is accepted by the SBI the contractor fails to enter in to a formal agreement

or

- iii. Fails to pay the initial security deposit as stipulated

or

- iv. Fails to commence the work within the stipulated time.

Note: If the tendering process is delayed for any reason, the Bank will insist on their validation of the DD and the bidder has to get it revalidated and submit again.

(b) Initial Security Deposit (ISD)

The amount of ISD shall be 2% of accepted value of tender including the EMD. Balance of ISD (i.e. excluding EMD) is to be submitted in the form of DD drawn on any scheduled Bank and shall be deposited within 15 days from the date of letter of acceptance of tender.

(c) Retention Money

Besides the ISD 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. the ISD plus Retention Money shall both together not exceed 5% of the contract value. 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 NA

Language 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 latter shall be adopted.
- iv. In case of difference between rates written in figures and words, the rate in words shall prevail.
- v. Between the duplicate/subsequent copies of the tender, the original tender shall be taken as correct.

4.0 Scope of Work

The contractor shall carry out, complete and maintain the said work in every respect strictly in accordance with this contract and with the directions of and to the satisfaction of the Bank to be communicated through the architect/consultant. The architect/consultant at the directions of the Bank from time to time issue further drawings and/or written instructions, details directions and explanations which are hereafter collectively referred to as Architect's/Consultant's instructions in regard to the variation or modification of the design, quality or quantity of work or the addition or omission or substitution of any work, any discrepancy in the drawings or between the BOQ and/or drawings and/or specifications, the removal from the site of any material brought thereon by the contractor and the substitution of any other material thereof, the demolition, removal and/or re-execution of any work executed by him, the dismissal from the work of any person employed/engaged there upon.

5(i) Letter of Acceptance

Within the validity period of the tender the Bank shall issue a letter of acceptance either directly or through the architect by registered post or otherwise depositing at the address 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 binding contract between the SBI and the contractor.

5(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 thereof he 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 promptness additional instructions by means of drawings or otherwise necessary for the proper

execution of the work. All such drawings and instructions shall be consistent with the contract documents, true developments thereof and reasonably inferable there from.

The work shall be executed in conformity there with and the contractor prepare a detailed program schedule indicating there in 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.

Copies of Agreement

Two copies of agreement/tender document 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 30 of GCC** 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 0.5% of the contract value per week 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 contractor. 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 there from 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 and shall at 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 due to his fault or negligence except which are due to causes beyond his control.

He shall take adequate care and steps for protection of the adjacent properties. The contractor shall take all precautions for safety and protection of his employees on the works and shall comply with all applicable provisions of Government and local bodies' safety laws and building codes to prevent accidents, or injuries to persons or property of about or adjacent to his place of work. The contractor shall take insurance covers as per clause 24.0 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 time have free access to the work site and/or to the workshop, factories or other places where materials are lying or from where they are obtained and the contractor shall give every facility to the SBI, 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/execution 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 by the contractor and he shall not directly entrust and engage or indirectly transfer assign or underlet the contractor any part or share thereof 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.

Quality of Materials, Workmanship & Test

1. 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

2. 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 samples/literature meets 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 be 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 in adequacy in furnishing samples of best qualities from various manufacturers and such other aspects causing delay on the approval of the materials/equipment set c 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 specifications or BOQ.

(iv) Cost of test not provided for

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

If so intended by or provided for or (in the cases above mentioned) is not so particularized or through so intended or provided for but ordered by the Architect/Consultant which is either to be carried out by an independent person at any place other than the site or the place of manufacture or fabrication of the material 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 contract or for additional payment shall be entertained which is consequent upon failure on his part to obtain correct information as to any matter

affecting the execution of the work nor any misunderstanding or the obtaining incorrect information or the failure to obtain correct information relieve him from any risks or from the entire responsibility for the fulfillment of contract.

17.0 Contractor's superintendence

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

18.0 Quantities

- i. 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

The rate quoted shall remain valid for variation of quantity against individual item to any extent subject to maximum variation of the contract value by 25%. The entire amount paid under Clause 20 hereof as well as amounts of prime cost and provisional sums, if any, shall be excluded.

- ii. Variation exceeding 25%: The items of work executed in relation to variation exceeding 25% shall be paid on the basis of provisions of clause 21(e) hereof

19.0 Works to be measured

The Architect/Consultant may from time to time intimate to the contractor that he required the work to be measured and the contractor shall forthwith attend or send a qualified 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 detailed in the specifications. The representative of the Architect/Consultant shall take joint 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 omitted epute his representative to take measurements then 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 in such measurements.

20.0 Variations:

No alteration, omission or variation ordered in writing by the Architect/Consultant shall vitiate the contract.

In case the SBI/Architect/Consultant thinks proper at any time 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 there in, the Architect/Consultant shall give notice thereof in writing to the contractor or shall confirm in writing within seven days of giving such oral instructions the contractor shall alter to, add to, or omit from as the case may be in accordance with such notice but the contractor shall not do any work extra to or make any alteration 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 may be.

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 here in mentioned. Any such extra is here in referred to as authorized extra and shall be made in accordance with the following provisions.

- a 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 priced herein.
- ii) Rates for all items, wherever possible should be derived out of the rates given in the priced BOQ.
- b 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) here under.
- c 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 7days 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.
- d 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 material employed be delivered for verification 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 wastage set 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 six months of the virtual completion of the work.

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 to the satisfaction of the SBI.

- a. Clear the site of all scaffolding, wiring, pipes, surplus materials, contractor's labour, equipment and machinery.
- b. Demolish, dismantle and remove the contractor's site office, temporary works, structures 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 and not incorporated in the permanent works.
- c. 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.
- d. Shall put the SBI in undisputed custody and possession of the site and all land allotted by the SBI.
- e. Shall hand over the work in a peaceful manner to the SBI.
- f. All defects/imperfections have been attended and rectified as pointed out by the SBI to the full satisfaction of SBI.

Upon the satisfactory fulfillment by the contractor as stated above, the contractor shall be entitled to apply to the Architect/Consultant for the certificate. If the Architect/Consultant is dissatisfied of the completion of the 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 virtual completion certificate, issue a VCC in respect of the work for which the VCC has been applied.

This issuance of a VCC shall be without prejudice to the SBI's rights and contractor's liabilities under the contract including the contractor's liability for defects liability period nor shall the issuance of VCC in respect of the works or work at any site be construed as a waiver of any right or claim of the SBI against the contractor in respect of works or work at the site and in respect of which the VCC has been issued.

24.0 Work by other agencies

The SBI/ Architect/Consultant reserves the rights to use premises and any portion of 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 manners not to impede the progress of the works included in the contract.

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 or damages from whatever cause arising other than the excepted risks, for which he is responsible under the terms of contract and in such a manner that the SBI and contractor are covered for the period stipulated in clause 28 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.

- a. The works for the time being executed to the estimated current Contract value thereof, or such additional sum as may be specified together with the materials for incorporation in the works at the replacement value.
- b. The constructional plant and other things brought on to the site by the contractor to the replacement value of such constructional plant and other things.
- c. Such insurances 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 of insurance and the receipts for payment of the current premiums.

Damage to persons and property

The contractor shall, except in 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 what so ever 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

especto for 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 damages to persons or property resulting from any act or neglect of the SBI, their agents, employees or other contractors not being employed by the contractor or in respect of any claims, proceedings, damages, costs, charges and expenses in respect thereof 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.

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 26.2 of this clause.

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 of 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 therefrom, 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.

Third Party Insurance

Before commencing the execution of the work the contractor but without limiting his obligations and responsibilities under clause 26.0 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 26.0 thereof.

Minimum Amount of Third Party Insurance

Such insurances shall be effected with an insurer and in terms approved by the SBI which approval shall not be reasonable withheld and for at least the amount stated below. The contractor shall, when 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. 5.0 lacs per occurrence with the number of occurrences limited to four. After each occurrence contractor will pay additional premium necessary to make insurance valid for four occurrences always.

Accident or Injury to Workmen

The SBI shall not be liable for or in respect of any damages or compensation payable at law in respect or in consequence 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.

Insurance against accident set to workmen

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

Remedy on Contractor's failure to insure

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

Without prejudice to the other rights of the SBI against contractors, in respect of such default, the Bank shall be entitled to deduct from any sums payable to the contractor the amount of any damages, costs, charges, and other expenses paid by the SBI and which are payable by the contractor 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 damages 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.

26.0 Commencement of Works

The date of commencement of the work will be reckoned as the recorded date of handing over site by the SBI or 15 days from the date of issue of Letter of Acceptance of Bank, whichever is later.

27.0 Time for completion

Time is the essence of the contract and shall be strictly observed by the contractor. The entire work shall be completed within a period as specified in the NIT calendar months from the date of commencement. If required in the contract 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.

28.0 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 reasons in detail and his justification if any, 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 of 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 SBI the provision of liquidated damages as stated under clause 9 of GCC shall become applicable. Further contract shall remain in force even for the period beyond the due date of completion irrespective whether the extension is granted or not.

29.0 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 of the Architect/Consultant too slow to ensure the completion of the whole of the work by the prescribed time or extended time for completion the Architect/Consultant shall thereupon 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 shall he be entitled to raise any claims arising out of such directions.

30.0 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 provision of the clauses 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 and 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.

31.0 No compensation for 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 require the whole or any part of the work to be carried out, the Architect/Consultant shall give notice in writing to 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 whatsoever, 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 foreclosure 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 bona fide 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 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.

Suspension of work

i. The contractor shall, on receipt of the order in writing of the Architect/Consultant (whose decisions shall be final and binding on the contractor) suspend the progress of works or any part thereof for 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 the following reasons.

a. On account of 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 of the contractor,

or

c) For safety of the works or part thereof.

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

ii. 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.

33.0 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 courses as they may deem best suited to the interest of the SBI.

a. To rescind the contract (of which rescission notice in writing to the contractor by the 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.

b. To employ labour paid by the SBI and to supply material to carry out the work, or any part of the work, debiting the contractor with the cost of the labour and materials (the cost of such labour and materials as worked out by the Architect/Consultant shall be 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 the certificate of Architect/Consultant as to the value of work done shall be final and conclusive against the contractor.

c. To measure up the work of the contractor, and to take such part thereof as shall be 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 (of the amount of which excess the certificates in writing of the Architects/ Consultant shall be final and conclusive) shall be borne by original contractor and may be deducted from 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 in case the contract shall be rescinded 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 be entitled to be paid the value so certified.

Owner's Right to Terminate the Contract

If the contractor being an individual or a firm committany '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 Government 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 fulfil the contract, and to give 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 thereunder.

- a. Has abandoned the contract;

Or

- b. 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

- c. 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 contractor 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's 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 notwithstanding 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 so 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, tools, 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 complete the work and the contractor shall not in any way interrupt or do any act, matter or thing to prevent or hinder such other contractor or other person employed for completing 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 the 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 receipt thereof by him the SBI sell the same by public auction 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 material etc.

35.0 Certificate of Payment

The contractor shall be entitled under the certificate to be issued by the Architect/Consultant to the contractor within 10 working days from the date of certificate to the payment from SBI from time to time. The SBI shall recover the statutory recoveries and other dues including the retention amount from the certificate of payment.

Provided always that the issue of any certificate by the Architect/Consultant during the progress of works or completion shall not have effect as certificate of satisfaction or relieve the contractor from his liability under clause

The Architect/Consultant shall have power to withhold the certificate

if the work or any part thereof is not carried out to their satisfaction.

The Architect/Consultant may by any certificate make any corrections required in 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 book (M.B).

The contractor shall not submit interim bills when the approximate value of work done by him is less than amount specified in the NIT and the minimum interval between two such bills shall be one month.

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.

Settlement of Disputes and Arbitration

Except where otherwise provided in the contract all questions and disputes relating 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 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

- i. 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 contract or raise any dispute, the Contractor shall forthwith give notice in writing of his claim, or dispute to the Assistant General Manager (Premises & Estate) / Dy. General Manager (Premises) 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, ground 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 Bank be in anyway 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 (Premises & Estate)/Dy. General Manager (premises) 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 (Premises & Estate)/Dy. General Manager (premises) in writing in the manner and within the time aforesaid.
- ii. The Assistant General Manager (Premises & Estate)/Dy. General Manager (premises) shall give his decision in writing on the claims notified by the contractor. The contractor may within 30 days of the receipt of the decision of the Assistant General Manager (Premises & Estate)/Dy. General Manager (premises) submit this claim to the conciliating authority namely the Circle Development Officer/General Manager (Corporate Services) for conciliation along with all details and copies of correspondence exchanged between him and the Assistant General Manager (Premises & Estate)/Dy. General Manager (premises)
 - iii. 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 Chief General Manager/Dy. Managing Director & Corporate Development Officer of the Bank for appointment of an arbitrator to adjudicate the notified claims failing which the claims of the contractor shall be deemed to have been considered absolutely barred and waived.
 - iv. 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 Bank shall be referred for adjudication through arbitration.
 - v. By the Sole Arbitrator appointed by the Chief General Manager/Dy. Managing Director & Corporate Development Officer. It will also be no objection to any such appointment that the Arbitrator so appointed is a Bank Officer and that he had to deal with the matters to which the Contract relates in the course of his duties as Bank 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 Chief General Manager/Dy. Managing Director & Corporate Development Officer. Such person shall be entitled to proceed with the reference from the stage at which it was left 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 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 statutory modification or re-enactment thereof and the rules made thereunder.

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 Bank 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 arbitrator 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 in what manner, such costs or any part thereof shall be paid and fix or settle the amount of costs to be paid. 37.0NA

POWER & WATER

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 for 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.

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 conditions:

- i. That the water used by the Contractor shall be fit for construction purpose to the satisfaction of the Architect/Consultant.
- 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.

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 the 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 handover the well to the SBI without any compensation as directed by the Architect/Consultant.

39.0 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.

40.0 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 contractor.

Maintenance of Registers

The contractor shall maintain the following registers as per the enclosed format 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/Government 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

Clause 42.0

PRICE VARIATION ADJUSTMENT (PVA) FOR ALL MATERIALS = NOT APPLICABLE

Force Majeure

Neither contractor nor SBI shall be considered in default in performance of their obligations if such performance is prevented or delayed by events such as war, hostilities, revolution, riots, civil commotion, strikes, lockout, conflagrations, epidemics, accidents, fire, storms, floods, droughts, earthquakes or ordinances or any act of God or for any other cause beyond the reasonable control of the party affected or prevented 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 to 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 cause of force majeure obligations of the party affected shall be suspended during the continuance of an inability so caused. With the cause itself and inability resulting therefrom having been removed, the agreed time of completion of the respective obligations under this agreement shall stand extended by a period equal to the period of delay occasioned by such events.

Should one or both parties be prevented from fulfilling the contractual obligations by a state of force majeure lasting to a period of 6 months or more the two parties shall mutually decide regarding the future execution of this agreement.

44. CONTRACTOR'S EMPLOYEES

The Contractor shall employ technically qualified / having appropriate skill and competent persons fully trained and adequately experienced Electricians, who are medically fit. They should be free from any contagious diseases. The Electricians shall be well mannered and properly dressed with shoes etc.

The contractor shall provide necessary training on safety measures while executing the work wherever necessary so as to avoid accident. The Bank shall not be responsible for any accident occurred or damage incurred or claims arising therefrom during the execution of work. The contractor shall also provide all risk insurance policies including third party insurance as may be necessary to cover the risk.

The contractor/firm shall be held responsible for any misdeeds/misbehavior of their employees within the premises. Bank is not responsible for any damages or claims on account of the misbehavior / misdeeds of his employees. For this purpose, any person supplied by the contractor to be engaged on the work on regular basis or as an alternate arrangement, under the direct order or control of the Employer or his representative shall be deemed to be a person employed by the contractor.

The contractor shall on the request of the Employer immediately dismiss from work any person employed thereon by him, who in the opinion of the Employer be unsuitable or incompetent or who may misconduct. Such discharges shall not be the basis of any claim for compensation or damages against the Employer or any of their officer or employee.

No employee of the Bank is allowed to work as a contractor for a period of 2 years of his/her retirement from Bank Services without previous permission of the Bank. This contract is liable to be cancelled, if either the contractor or any of his employees is any time to be such a person who had not obtained the permission of Bank as aforesaid before submission of the tender or engagement in the contractor's service.

Contractor should not engage child labour in any of the activities in this contract.

The contractor shall not employ person who is not an Indian National.

The Electricians shall not overstay in the Bank premises other than the time permitted by the Bank or in the odd hours or holidays unless or otherwise required by the Branch for specific reasons like maintenance, repair work etc.

In respect of all labour employed directly or indirectly on the work for the performance of the contractor's part of work, the contractor at his own expense, will arrange for the safety provisions as per the statutory provisions, B.I.S recommendations, factory act, workman's compensation act, CPWD code and instructions issued from time to time.

The Contractor's workmen will not have any right whatsoever to get absorbed in the Bank. The Contractor shall be responsible for all the claims of the employees of the Contractor and shall not make and claim whatsoever against the Bank. The Contractor shall be responsible for all statutory requirements e.g. ESI, PF, labour registrations, Insurance coverage etc. The operator is responsible for compliance of all the rules & safety regulations etc.

Minimum wages as prescribed by the Labour Act shall be payable to the operator(s) by the contractor as the case may be. The Contractor shall bind himself and keep the Employer saved harmless and indemnified against claims if any of the workmen and all costs and expenses as may be incurred by the Employer in connection with any claim that may be made by any workmen.

46. WORKING HOURS AT THE SITE

As instructed by Bank. Contractor to ensure that the routine operations at the site are not affected by the contract work if required, they have to work on the Bank Holidays in coordination with other agencies and Bank.

WORKING ON HOLIDAYS:

No work shall be done on Sunday or other Bank holidays that may be notified by the Architect & Employer, without the specific sanction in writing of the Architect & Employer or his representatives

STORAGE OF MATERIALS

The contractor shall store their materials like fixtures, cables, conduits, wires, tools etc in the site with the permission of the Bank. However, the contractor shall be responsible for the custody and security of all materials and equipment at site. No claim for loss or theft will be entertained by the Bank.

Shelter or stay and other amenities for the electricians have to be arranged by the contractor at his own expense and responsibility.

On completion of the works, the contractor shall remove all tools, surplus materials, rubbish and temporary works of every kind and leave the whole of the site and the works clean and in a workmanlike condition to the satisfaction of the Bank

COMPLIANCE OF STATUTORY REGULATIONS

The contractor shall conform to the provisions of any Act of the Legislature relating to the work, and to the Regulations and Bye-Laws of any authorities like Electricity, Pollution Control Boards, Municipal Authorities, water and Sewerage boards and shall before making any variations from the drawings or specifications that may be associated to so conform, give the Employer written notices specifying the variations proposed to be made and reasons for making them and apply for instruction thereon. The Employer on receipt of such intimations shall give a decision within a reasonable time.

The contractor/s shall arrange to give all notices required for by the said Acts, Regulations or Bye-laws to be given to any authority, and to pay to such authority or to any public officer all fees that may be properly chargeable in respect of the work and lodge the receipts with the Employer. The Contractor shall indemnify the Employer against all claims in respect of patent rights, designs, trademarks or name or the protected rights in respect of any equipment, machine, work or material used for or in connection with the works or temporary works and from and against all claims, demands, proceedings, damages, costs, charges, and expenses whatsoever in respect thereof or in relation thereto. The Contractor shall defend all actions arising from such claims, unless he has informed the Employer, before any such infringement and received their permission to proceed and shall himself pay all royalties, license fees, damages, cost and charges of all and every sort that may be legally incurred in respect thereof.

The contractor should strictly abide by the Central/State labour regulation for the Minimum Wages, Payment of wages, Workmen Compensation, PF, ESI, Contract labour, including the latest amendments, if any and other safety regulations.

The contractor shall keep the Employer saved harmless and indemnified against claims if any of the workmen and all costs and expenses as may be incurred by the Employer in connection with any claim that may be made by any workmen.

INSURANCE & DAMAGE TO PERSONS AND PROPERTY ETC

The insurance shall be for an amount equal to 110 percent of the value of the contract on "All Risks" basis, valid until the Completion of the project or handing over whichever is later.

Should any loss or damage occur, the Vendor shall initiate and pursue claim till settlement and promptly make arrangements for repair and / or replacement of any damaged item to the satisfaction of the Bank, irrespective of settlement of claim by the underwriters.

The contractor shall be responsible for all injury to the work or workment persons, animals or thing and for all damages to the structural and/or decorative part of property which may arise from the operations or neglect of himself or of any sub-contractor or of any of his or a sub-contractor's employees, whether such injury or damage arise from carelessness, accident or any other cause whatsoever in any way connected with the carrying out of this contract.

The contractor shall reinstate all damages of every sort mentioned in this clause so as to deliver the whole of the contract works complete and perfect in every respect and so as to make good or otherwise satisfy all claims for damages to the property of third parties.

The contractor shall affect the insurance necessary and indemnify the Employer entirely from all responsibility in this respect.

The contractor shall be responsible for anything, which may be excluded from damage to any property arising out of incidents, negligence or defective carrying out of this contract.

The Employer shall be at liberty and is hereby empowered to deduct the amount of any damages, compensations, costs, charges and expenses arising or accruing from or in respect of any such claim or damages from any sums due to or to be due to the contractor.

50. TERMINATION OF CONTRACT BY BANK

If the contractor being a company goes into liquidation whether voluntary or compulsory or being a firm shall be dissolved or being an individual shall be adjudicated insolvent or shall make an assignment or a composition for the benefit of the greater part, in number or amount of his creditors or shall enter into a Deed or arrangement with his creditors, or if the Official Assignee in insolvency, or the Receiver of the contractor in insolvency, shall repudiate the contract, or if a receiver of the contractor's firm appointed by the court shall be unable within fourteen days after notice to him requiring him to do so, to show to the reasonable satisfaction of the Bank that he is able to carry out and fulfill the contract, and if so required by the Bank to give reasonable security therefore, or if the contractor shall suffer execution to be issued, or shall suffer any payment under this contract to be attached by or on behalf of and of the creditors of the contractor, or shall assign, charge or encumber this contractor any payments due or which may become due to contractor, thereunder, or shall neglect or fail to observe and perform all or any of the acts matters of things by this contract, to be observed and performed by the contractor within three clear days after the notice shall have been given to the contractor in manner hereinafter mentioned requiring the contractor to observe or perform the same or shall use improper materials of workmanship in carrying on the works, or shall in the opinion of the Bank not exercise such due diligence and make such progress as would enable the work to be completed within due time agreed upon, and shall fail to proceed to the satisfaction of the Bank after three clear days notice requiring the contractor to do shall have been given to the contractor as hereinafter mentioned or shall abandon the contract, then and in any of the said cases, the Bank may notwithstanding previous waiver determine the contract by a notice in writing to the effect as hereinafter mentioned, but without thereby effecting the powers of the Bank of the obligations and liabilities of the contractor the whole of which shall continue in force as fully as if the contract, had not been so determined and as if the works subsequently executed by or on behalf of the contractor (without thereby creating any trust in favor of the contractor) further the Bank or his agent, or servants, may enter upon and take possession of the work and all plants tools scaffoldings sheds machinery, steam, and other power, utensils and materials lying upon premises or the adjoining lands or roads and sell the same as his own property or may employ the same by means of his own servants and workmen in carrying on and completing the works or by employing any other contractors or other persons or person to complete the works, and the contractor shall not in any way interrupt or do any act, matter or thing to prevent or hinder such other contractors or other persons or person employed from completing and finishing or using the materials and plants for the works when the works shall be completed, or as soon thereafter as conveniently may be the Bank shall give notice in writing to the contractor to remove his surplus

materials and plants and should the contractor remove his surplus materials after receipt by him the Bank may sell the same by Public Auction and shall give credit to the contractor for the amount so realized. Any expenses or losses incurred by the contractor for the amount so realized. Any expenses or losses incurred by the Bank in getting the amount payable to the contractor by way of selling his tools and plants or due on account of work carried out by the contractor prior to engaging other contractors or against the Security Deposit.

DISPUTES/ARBITRATION:

All disputes or differences whatsoever arising between the parties out of or in connection with this contract or in discharge of any obligation arising out of the Contract (whether during the progress of work or after completion of such work and whether before or after the termination of this contract, abandonment or breach of his contract), shall be settled amicably.

If however, the parties are not able to solve them amicably, either party (Bank or Vendor), give written notice to the other party clearly setting out there in specific dispute(s) and/or difference(s) and shall be referred to a sole arbitrator mutually agreed upon, and the award made in pursuance thereof shall be binding on the parties.

In the absence of consensus about the single arbitrator, the dispute may be referred to joint arbitrator; one to be nominated by each party and the said arbitrator shall nominate a presiding arbitrator, before commencing the arbitration proceedings. The arbitration shall be settled in accordance with the applicable Indian Laws. Any appeal will be subject to the exclusive jurisdiction of courts at Hyderabad.

The Vendor shall continue work under the Contract during the arbitration proceedings unless otherwise directed by the Bank or unless the matter is such that the work cannot possibly be continued until the decision of the arbitrator is obtained.

Arbitration proceeding shall be held at Mumbai, India, and the language of the arbitration proceedings and that of all documents and communications between the parties shall be in English.

53. GOVERNING LANGUAGE:

All communication with respect to the Bid, clarifications, replies, contract documents etc shall be in English.

Local Laws, Acts, Regulations

The contractor shall strictly adhere to all prevailing labour laws inclusive of contract labour (regulation and abolition act of 1970) and other safety regulations. The contractor shall comply with the provision of all labour legislation including the latest requirements of all the Acts, laws, any other regulations that are applicable to the execution of the project.

- i. Minimum Wages Act, 1948 (Amended)
- ii. Payment of Wages Act 1936 (Amended)
- i. Workmen's Compensation Act 1923 (Amended)
- ii. Contract Labour Regulation and Abolition Act 1970 and Central Rules 1971 (Amended)
- iii. Apprentice Act 1961 (Amended)
- iv. Industrial Employment (Standing Order) Act 1946 (Amended)
- v. Personal Injuries (Compensation Insurance) Act 1963 and any other modifications
- vi. Employees' Provident Fund and Miscellaneous Provisions Act 1952 and amendment thereof
- vii. Shop and Establishment Act
- viii. Any other Act or enactment relating thereto and rules framed thereunder from time to time.

SAFETY CODE:

Safety Guidelines for the Contractor:

The Contractor should follow the following General Safety Guidelines while executing the work:

Smoking is strictly prohibited at workplace.

No one is allowed to work at or more than three meters height without wearing a safety belt and anchoring the lanyard of safety belt to firm support preferably at shoulder level. Chin strap of safety helmet shall be always on and safety boot is worn.

Usage of eye protection equipment shall be ensured when workmen are engaged for grinding, chipping, welding and gas-cutting. For other job eye protection has to be provided as per the need.

All safety appliances like Safety shoes, Safety gloves, Safety helmet, Safety belt, Safety goggles etc. shall be arranged before starting the job.

Excavated pits for earthing, cable laying shall be barricaded till the backfilling is done. Safe approach to be ensured into every excavation

Preferably the work shall be carried out during the daytime. However, adequate illumination at

workplaces shall be ensured in case any work is carried out at night.

All the dangerous moving parts of the portable / fixed machinery being used shall be adequately guarded.

Ladders being used at sites shall be adequately secured at bottom and top. Ladders shall not be used as work platforms.

Debris, scrap and other material to be cleared from time to time from the workplace and at the time of closing of work every day, dismantled materials shall not be thrown from the height and shall be properly disposed off to prevent any injury to public / staff.

Other than electricians no one is allowed to carry out electrical connections, repairs on electrical equipment or other jobs related thereto.

All electrical connections shall be made using 3 or 5 core cables, having an earth wire.

Inserting of bare wires for tapping the power from electrical sockets is completely prohibited and plug tops of suitable capacity only shall be used.

All the unsafe conditions, unsafe acts identified by contractors, reported by Bank to be corrected on priority basis.

No children or physically challenged persons shall be allowed to enter the workplace and shall not be utilized for any service during execution of the work.

All the Gas cutting, sharp tools, flammable materials and tackles shall be stored properly and safely when not in use.

Clamps shall be used on Return cables to ensure proper earthing for welding works.

Return cables shall be used for earthing.

All the pressure gauges used in gas cutting apparatus shall be in good working condition and in case of any leakage; the same shall not be used.

Proper eye washing facilities shall be made in areas where chemicals are handled.

Connectors and hose clamps are used for making welding hose connections.

Tapping of power by cutting electric cables in between must be avoided. Proper junction boxes must be used.

56.0 Accidents

The contractor shall immediately on occurrence of any accident at or about the site or in connection with the execution of the work report such accident to the Architect/Consultant. The contractor shall also report immediately to the competent authority whenever such report is required to be lodged by the law and take appropriate action thereof.

BANK'S BUILDING PROJECTS-MAINTENANCE OF RECORDS

A. Registers at the site office of the Bank's Engineer:	
1	Measurement Books.
2	Drawings register
3	Materials at site register.
4	Hindrance Register.
5	File and Register for extra/variation items.
6	Materials test Register and File.
7	Site Order Book (in triplicate).
8	Labour Reports and progress Reports Register.
9	Site Visit & Instructions Register.
10	Certified true copies of the contracts.

SPECIAL CONDITIONS OF CONTRACT

1. ACCESS OF INSPECTION:

The contractor is to provide at all times, during the progress of the works and the maintenance period, means of access with ladders, gangway etc., and the necessary attendants to move and adopt the same as directed for the inspection or measurement of the work by the Architect and Employer or any other agency employed by the client.

2. PROGRAMME OF WORKS:

The contractor on starting the work shall furnish to the Employer and Architect a PERT/CPM programme, for carrying out the work stage by stage in the

stipulated time, for the approval of Architects and Employer, and follow strictly the approved time schedule by incorporating changes, if any, so authorized by the Architect and Employer, to ensure the completion of construction work in stipulated time. A graph or chart on individual item/group of items/trades of work shall be maintained, showing the progress both in terms of quantities and value, week by week. The contractor shall submit to the Employer and Architect a weekly progress report stating the number of skilled and unskilled laborers employed on the work, working hours done, quantity of cement, steel and other major items of materials (quantity and value wise) used and corresponding place, type and quantity of work done during the period.

The contractor must inform the Architects, 10 days in advance of requirement of respective drawings and details by him, from time to time. The contractor shall strictly adhere to the approved program and arrange for the materials and labour etc., accordingly.

Despite repeated instructions, if the contractor fails to show satisfactory progress of the work, the Employer/Architect may take suitable action as deemed fit, including levying of liquidated damages not exceeding ½% of contract price for delay of every week or part thereof, subject to a limit of total liquidated damages levied under this clause to 5% of contract price without prejudice to any terms and conditions of the contract.

3. FACILITIES TO OTHER CONTRACTORS:

The contractor shall give full facilities and co-operation to all other contractors working at site doing plumbing, Electrical, civil work etc., as directed by the Architect & Employer and shall arrange his program of work, so as not to hinder the progress of other works. The decision of the Architect & Employer, on any point of disputes between the various contractors, shall be final and binding on all parties concerned.

4. TESTING:

The contractor shall, as and when directed by the Architect & Employer, arrange to test materials and/or portions of the work at site in any approved laboratory at his own cost, in order to provide their soundness and efficiency. The contractor shall transport all the materials from site to the approved laboratory at his own cost. The contractor shall carry out all the mandatory tests as per list attached at the frequencies stated therein. Even after such tests, any materials brought to site or incorporated in the work are found to be defective or unsound or not as per

approved samples, the contractor shall remove the same and re-erect at his own cost and without any additional time/period for the same, with reference to the date fixed for completing the work. In case these tests are not carried out at the frequencies stated, then proportionate costs of materials not tested, including cost of testing and quantities of items of work executed with such materials, if otherwise accepted for retention in the work, will be deducted from the due to the contractor. The deductions will be worked out by the Architect/client and shall be final and binding on him.

Tolerance on various material and items of work shall be allowed laid down in the documents below and the order of precedence shall be:

- a) Relevant Indian Standards Specifications.
- b) Manufacturer's Specifications.

In absence of above Architect's decision basing on the general practice being following shall be final.

5. SITE MEETINGS:

A senior representative of the contractor shall attend weekly meetings at work site; and in addition, meetings as and when arranged by Architect & Employer to discuss the progress of the work and sort out problems, if any, and ensure that the work is completed in the stipulated time.

6. NOTICES:

Notices for the Employer, the Architect, or the Contractor may be served personally or by being left at or sent by registered post to the last known place of abode or business of the party to whom the same is to be given or in the case of the contractor by being left on the works. In case of a company or corporation, notices may be served at or sent by registered post to the Registered Offices of the Company or Corporation. Any notices sent by registered post shall be deemed to be served at the time, when in the ordinary course of post it would be delivered.

The contractor shall give all notices and pay all necessary and relevant fees and shall comply with all Acts and Regulations, for the successful completion of the contract work.

7. MEASUREMENT TO BE RECORDED BEFORE WORK IS COVERED UP:

The contractor shall take joint measurements with the Employer's representative (Project Management Consultant or any Engineer identified by the Bank) and Architect's representative before covering up or otherwise placing beyond the reach of measurement any item of work. Should the contractor neglect to do so, the same shall be uncovered at the contractor's expense or in default thereof, no payment or allowance shall be made for such work or the materials with which the same was executed.

8. ACTION WHERE THERE IS NO SPECIFICATION:

In case of any item/class of work, for which there is no specification mentioned (either in part or full), the same will be carried out in accordance with the relevant CPWD specifications (only for the specifications missing in the contract) and if not available even there (either in part or full) in, relevant standards of BIS shall be followed (only for the portions of specifications missing in the contract specifications and CPWD specifications). Indian standard specifications, subject to the approval of the Architect & Employer

9. REPORTING OF ACCIDENT TO:

The contractor shall be responsible for the safety of all persons employed by him on the works and shall report serious accidents to any of them, whenever and wherever occurring on the works, to Employer who shall make every arrangement to render all possible assistance. This shall be without prejudice to the responsibility of the Contractor, under the Insurance clause of the General Conditions. Contractor shall take all the precautions as detailed in the safety code attached separately.

10. CLEARING THE SITE ON COMPLETION/ DETERMINATION OF WORKS:

The contractor shall clear the site of works as per the instructions of the Architect. The site of works shall be cleared of all men, materials, sheds, hut setc., belonging to the contractor. The site shall be delivered in a clean and neat condition, as required by Architect, within a period of one week after the job is completed. In case of failure by the contractor, the Employer, under advice to the Architect, have the right to get the

site cleared to his satisfaction at the risk and cost of the contractor.

11. POSSESSION OF WORKS/WORK COMPLETED:

The contractor shall hand over to the Employer possession of the completed works in stages, as and when required, and as directed by the Architect & Employer.

The Employer will take over the possession of completed works in stages as directed by the Architect, and defects liability period will commence only from the date of final handing over of all the work accordingly.

12. TYPOGRAPHIC, CLERICAL AND OTHER ERRORS:

The Architects/Employer's clarification regarding partially omitted particulars or typographical, clerical and other errors shall be final and binding on the contractors.

13. WORK PERFORMED AT CONTRACTOR'S RISK:

The contractor shall take all precautions necessary and shall be responsible for the safety of the work and shall maintain all lights, guards, signs, barricades, temporary passages or other protection necessary for the purpose. All work shall be done at the contractor's risk and if any loss or damage shall result from fire or from any other cause, the contractor shall promptly repair or replace such loss or damage free from all expenses to the Employer. The Contractor shall be responsible for any loss or damage to materials, tools or other articles used or held for use in connection with the work. The work shall be carried on to Employer or of others and without interference with the operation of existing machinery or equipment, if any.

14. INSPECTION BY THE CHIEF TECHNICAL EXAMINERS (VIGILANCE):

The proposed work covered under this tender, during the progress and/ or after completion, can also be inspected by the Chief Technical Examiner/ Technical Examiner or Officers of the Central Vigilance Commission, Government of India, on behalf of Architect & Employer to ascertain that the execution of the work has been done with materials and workmanship as stipulated in the contract and as directed.

Contractor shall afford all reasonable facilities to the above vigilance staff and also provide them with ladders, tapes, tools and tackles etc., as required and directed and also necessary labourers skilled/unskilled to enable them to complete their inspection/study/technical scrutiny and no extra shall be admissible to the contract on this account.

15. SPECIAL CONDITIONS OF CONTRACT:

In the event of any discrepancy with clauses mentioned anywhere else in the tender with the clauses mentioned within special conditions of contract, the clauses mentioned within the special conditions of contract shall supersede the mentioned elsewhere.

16. FAILURE BY CONTRACTOR TO COMPLY WITH ARCHITECT'S INSTRUCTIONS:

If the contractor after receipt of written notice from the Architect requiring compliance with such further drawings and/or Architect's instruction, fails within seven days to comply with the same, the Architect and Employer may employ and pay other persons to execute any such work whatsoever as may be necessary to give effect thereto and all costs incurred in connection therewith shall be recoverable from the contractor by the employer on a Certificate by the Architect as a debit or may be deducted by him from any money due or which may become due to the contractor.

17. ARCHITECT'S DELAY IN PROGRESS:

The Architect may delay the progress of the works in case of rains or otherwise, without vitiating the contract and grant such extension of time with the approval of the Employer for the completion of the contract as he may think proper and sufficient in consequence of such delay, and the contractor shall not make any claim for compensation or damage in relation thereto.

18. BIS CODES

It is compulsory for the contractor to keep all the B.I.S. codes mentioned in this tender document at his cost at the site to ensure the proper supervision/quality of work and materials.

FORM OF SUBMISSION OF TENDER

(To be filled by the tenderer)

The Regional Manager, SBI

Dear Sir/s,

Ref: TENDER FOR

I/We have examined the above tender and subsequent pre-bid clarifications/modifications / revisions, if any, furnished by Bank and I/We have inspected the site of works and have made me / us fully acquainted with the local conditions in and around the sites of works and offer to undertake Contract as detailed in this tender by submitting my/our online bids in the Bank's e-tender portal.

1. While submitting this Bid, I/We certify that:
 - i. The undersigned is authorized to sign on behalf of the Bidder and the necessary support document delegating this authority is uploaded along with the bid.
 - ii. We certify that we have not made any changes in the contents of the tender document read with its amendments/clarifications provided by Bank, submitted by us in our Bid document.
 - iii. The rate quoted in the *price Bids are as per the tender* and subsequent pre-Bid clarifications/ modifications/ revisions furnished by the Bank, without any exception.
2. We agree to abide by all the Bid terms and conditions, contents of Agreement and the rates quoted in the bid, which shall remain binding upon us.
3. If our Bid is accepted, we undertake to enter into and execute at our cost, when called upon by the Bank to do so, a contract in the prescribed form and we shall be jointly and severally responsible for the due performance of the contract.
4. Until a formal contract is prepared and executed, this Bid, together with our written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

5. It is further certified that the contents of our Bid are factually correct. We also accept that in the event of any information / data / particulars proving to be incorrect, Bank will have the right to disqualify us from the Bid.
6. We understand that you are not bound to accept the lowest or any Bid you may receive and you may reject all or any Bid without assigning any reason or giving any explanation whatsoever.
7. We hereby undertake that our name does not appear in any "Caution" list of RBI / IBA or any other regulatory body.
8. We also confirm that we have not been **blacklisted** by any Bank / PSU / State or Central Govt departments for any reasons.
9. We confirm that we do not have any **litigation / cases** pending against us in any Bank / PSU / State or Central Govt departments.
10. We confirm that we are responsible to obtain all necessary licenses, permission, NOC from all the statutory / local authorities for the smooth execution of this contract in Bank's premises.
11. We hereby confirm that all the materials / components / spare parts / equipment etc. to be supplied / used as a part of this contract shall be original / new materials / components / parts / equipment only, from respective OEMs of the products and that no refurbished / duplicate / second hand materials / components / parts / equipment shall be supplied or shall be used.
12. For any type of deviation (to any of above or subsequent instructions), it will be my / our responsibility to obtain the written instruction of the Engineer-in-charge for the same failing which it shall be deemed that I have carried out any such deviations at my own and I shall be duty bound to replace the all deviated material / works from the site at my / our cost as well as I shall be liable to be penalized by the Bank as deemed fit and for all such losses made thereof, I / we shall not have any right to arbitrate in any manner.

Yours faithfully, Contractor

Signature Name:

Address:

FORMATFORPRE-BIDQUERIES:

Sr. No.	QueryRegarding	Page o fNo.RFP	Query	Reasons/Supportingdata/ papers

DRAFT COPY OF ARTICLES OF AGREEMENT

ARTICLES OF AGREEMENT made the _____ day of _____ 2021 between _____ SBICB _____ of _____ (hereinafter called the "Employer") of the one part and _____ of _____ (hereinafter called "The Contractor") of the other part, whereasthe Employer is desirous of getting the work of "_____ "executed and has caused drawings, conditions of contract, specifications and schedule of quantities etc., describing the works prepared by M/s Nandu Associates, Hyderabad.

AND WHEREAS the SAID DRAWINGS numbered as per list attached inclusive of and the conditions of contract, specifications and schedule of quantities etc., have been signed by or on behalf of the parties hereto.

AND WHEREAS THE CONTRACTOR has agreed to execute upon and subject to the conditions set forth in the Schedule hereto (hereinafter referred to as "Said Conditions") the works shown upon the said drawings and described in the same specifications and included in the said schedule of quantities for such sum as may be ascertained _____ to be payable in terms of the Bills of Quantities, and which sum is estimated to be Rs. 3,17,16,232.00/- (Rupees Three Crore Seventeen Lac Sixteen Thousand Two Hundred and Thirty Two Only. (hereinafter referred to as "Said Contract Amount").

NOW IT IS HEREBY AGREED AS FOLLOWS:

1. In consideration of the said sum 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 in the said drawings and describe it in the said specifications.
2. The Employer shall pay the contractor the said sum or such sums as shall become payable hereunder at the times and in the manner specified in the said conditions.
3. The term "Architect" in the said conditions shall mean the said M/s Nandu Associates, Architects and designers or in the event of their ceasing to be the Architect for the purpose of this contract, such other person 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 Arbitrator mentioned in the said conditions provided always that no persons subsequently appointed to be the Architect under this contract shall be entitled to disrega

rdor

over-rule any previous decision or approval or direction given or expressed by the Architect for the time being.

4. Tender documents containing work order Notice to the Contractor, Conditions of Contract, Appendix thereto, Special Conditions of Contract, Specifications and Schedule of Quantities with the rates entered therein, shall be read and studied as forming part of this agreement and the parties hereto shall respectively abide by and submit themselves to the conditions and stipulations and perform the agreement on their part respectively in such conditions contained.
5. The contract is neither a fixed lump sum contract or a piecework contract, but is a contract to carry out work in respect of the entire work to be paid for according to actual measured quantities, including variations from BOQ at the rates contained in the Schedule of rates and Probable bill of quantities or as provided in the said conditions.
6. The Employer through the Architect, reserves to himself the right of altering the drawings and nature of the work, of adding/substitution or omitting any item of work or having portions of the same carried out through alternate agencies without prejudice to this contract.
7. Time shall be considered as the essence of this agreement and the contractor hereby agrees to commence the work soon after the site is handed over to him but within 15 days reckoned from the date of issue of work order to execute the work, as provided for in the said conditions and complete the entire work **in 120 days** subject nevertheless to the provisions for extension of time.
8. This agreement and contract shall be deemed to have been made in Hyderabad and any questions or disputes arising out of or in any way connected with this Agreement and Contract shall be deemed to have arisen in Hyderabad and only the courts in Hyderabad shall have jurisdiction to determine the same. The limitation period will be 90 days from the date of dispute having arisen.

AS WITNESS Our hand this _____ day of _____ 2024

Signed by the said in the presence of:

WITNESS:

SIGNATURE NAME

ME:

ADDRESS:

EMPLOYER

WITNESS: SIGN

ATURE NAME: A

DDRESS:

DRAFTFORMATOFBANKGUARANTEEINLIEUOFSECURITYDEPOSIT

(SitespecificformatshallbeapprovedbytheSBIpriortoitsexecution)

(TobesubmittedonNon-judicialstamppaperofappropriatevaluepurchasedinthenameoftheissuingbank)

Place:.....

Date:.....

{Onnon-judicialstamppaperofRs ----/-}

BANKGUARANTEEINLIEUOFSECURITYDEPOSIT

B.G.No. _____ ValueRs. _____

StateBankofIndia,(Address)

Sub:

BankGuaranteeofRs
.....towardsSecurityDepositfortheworkofforStateBankofIndia

{NameofBranch/Office}

DearSir,

WHEREAS

(Nameandaddressofcontractor/vendor)(hereinaftercalledtheContractor)haveenteredintocontractfor(NameofWork)withStateBankofIndia(SBI)asmentionedintheletterofSBI'sConsultants(Name&

addressofconsultants) videtheir

Letter No.....dated..... And the correspondence and tender relating thereto which is hereinafter referred to as "the said contract" the Contractor has now agreed to produce a Bank Guarantee amounting to 2% of the contract value less earnest money deposit of Rs..... (Rupees only), to State Bank of India for performing their part of the contract obligations.

AND WHEREAS in terms of said contract, the contractor is required to furnish to State Bank of India a Guarantee of a Scheduled Bank for a value of Rs..... to be valid upto (date).

AND WHEREAS (Name of Bank and its branch) having their office at (address) the Guarantor, at the request of the contractor hereby furnishes a PBG in favour of State Bank of India and Guarantees in the manner hereinafter appearing. In consideration of the premise, we (name of Bank and its branch) having our office at (address) hereafter called the "Guarantor" (which expression shall include its successors and assigns) hereby expressly, irrevocably & unreservedly undertake and guarantee under that if the Contractor fails to execute the work according to his obligations under the said contract, then notwithstanding any dispute between State Bank of India and the contractor the Guarantor shall, on demand without demur and without reference to the contractor pay to State Bank of India immediately any sum claimed by State Bank of India under the said contract upto a maximum amount of Rs _____ (Rupees only).

In case the amount demanded by State Bank of India is not paid within 48 hours of receipt of demand, the Guarantor agrees to pay the aforesaid amount of ₹ _____.

(i) Such payment shall be notwithstanding any right the contractor may have directly against State Bank of India or any disputes raised by the Contractor with State Bank of India or any suits or proceedings pending in any competent court or before any arbitrator. State Bank of India's written demand shall be conclusive evidence to the Guarantor that such payment is payable under the terms of the Contract and shall be binding in all respects on the guarantor.

(ii) The Guarantor shall not be discharged or released from the undertaking and Guarantee, by any arrangement, variations made between SBI and the Contractor and or indulgence shown to the contractor by SBI, with or without the consent and knowledge of the guarantor or by alterations in the obligations of the contractor by any

forbearance, whether as to payment, time performance or otherwise.

- (iii) This guarantee shall remain valid until or as may be caused _____ to be extended by the contractor or until discharged by SBI in writing whichever is earlier.
- (iv) This guarantee shall be a continuing guarantee and _____ shall not be revocable during its currency except with the previous written consent of SBI.
- (v) (a) This guarantee shall not be affected by any change in the constitution of the contractor, by absorption with any other body or corporation or dissolution or otherwise and this guarantee will be available to or enforceable against such body or corporation.
- (vi) In order to give effect to this guarantee SBI will be entitled to act as if the Guarantor were the Principal debtor and the Guarantor hereby waives all and any of its rights or surety ship.
- (vii) This guarantee shall continue to be in force notwithstanding the discharge of the contractor by operation of law and shall cease only on payment of the full amount by the Guarantor to SBI of the amount thereby secured.
- (viii) This guarantee shall be in addition to and not in substitution for any other ~~guarantees~~ security for the contractor given or to be given to SBI in respect of the said contract.

Any notice by way of request and demand or otherwise here under may be sent by post or any _____ of other mode or communication to the guarantor addressed as aforesaid and _____ difference sent

by post it shall be deemed to have been given at the time when it would be delivered in due course of post and in providing such notice when given by post it shall be sufficient to prove that _____ the envelope containing the notice was posted and a certificate signed by

- (ix) By post it shall be deemed to have been given at the time when it would be delivered in due course of post and in providing such notice when given by post it shall be sufficient to prove that the envelope containing the notice was posted and a certificate signed by an officer of SBI that the envelope was so posted shall be conclusive

(x) These presents shall be governed by and constructed in accordance with Indian Law.

Notwithstanding anything contained hereinbefore the liability of the guarantor under this guarantee is restricted to a sum of Rs. _____.

This _____ guarantee will remain valid upto _____ unless a demand or claim under this guarantee is made in writing on or before _____ the guarantor shall be discharged for full liability under the guarantee thereafter.

Dated the.....

For (Name of Bank) (Signature / with designation / of signatory / ies) (Name and Stamp of Bank)

FORMAT FOR APPLICATION BY CONTRACTOR FOR EXTENSION OF TIME

1.	Name of the Contractor			
2.	Name of the work as given in the Agreement			
3.	Agreement WO			
4.	Tender amount			
5.	Date of commencement of work			
6.	Period allowed for completion as per Agreement			
7.	Date of completion as per agreement			
8.	Period for which extension of time has been given			
		<u>Date</u>	<u>Month</u>	<u>Year</u>
	a) 1 st extension vide Bank's Letter No.			
	b) 2 nd extension vide Bank's Letter No.			
	c) 3 rd extension vide Bank's Letter No.			
9.	Reasons for which extensions have been previously given (copies of the previous applications should be attached)			
10.	Period for which extension is applied for and the reasons thereof including hindrances, time for extra work assigned, if any etc.			

Signature of Contractor

FORMAT OF HINDRANCE REGISTER

Name of Work	
Name of Contractor	
Agreement No.	
Date of start of work	
Period of completion	
Date of completion	

Sr. No	Nature of Hindrance	Date of occurrence of hindrance	Date of which hindrance was removed	Period of hindrance	Signature Site Engineer / Project Engineer	Remarks
1	2	3	4	5	6	7

TECHNICAL SPECIFICATIONS

EXECUTION OF ELECTRICAL WORKS:

1 The Contractor shall carry out and complete the Electrical work as per standards specifications /as stipulated in this contract and relevant IS recommendations in coordination with other agencies like Interior, AC and civil contractors and to the satisfaction of the Bank/SBI. With approval of Bank will issue further written instructions, detailed directions and explanations with respect to the specifications, quality or quantity of works or the addition or omission or substitution of any work.

.2 METER BOARD:

The Main DB/Meter Board shall be provided in the place free from leakages and in a covered location. The Meter Board shall be as per TSSPDCL requirements and shall be fixed firmly on the wall. Any opening made in the wall for feeder cable entry should be sealed properly after installation to avoid entry of rodents and rainwater. The meter Board shall be properly earthed as per here regulatory requirements.

3 LTPANEL INSTALLATION:

Panel shall be covered properly to prevent dust, contamination & damage during transportation. In case of damages during transportation or unloading etc, the same shall be rectified and made to perfection before installation. No excuse for delay on account of the above will be accepted.

For floor mounted panel, the exact location of the panel and fixing holes to be marked on the concrete plinth for the installation. Install the panel in proper alignment and fix properly. Tighten all the connections as required. Access around the panel to be provided as per regulatory requirements for future maintenance ensure the services like AC drain lines or water pipe lines or sewerage lines are away from the panel or the panel is properly protected against any accidental leakages.

Incoming and outgoing cables shall be marked / identified as per approved drawing. All components of the panel shall be verified against the approved panel drawing for correct rating & size. Ensure that all internal connections are proper and loose connections are tightened. All breakers (incoming / outgoing) shall be in "OFF" position and to be locked to prevent mishandling

Before commissioning all earth terminals of the panel are firmly connected to the designated earth pits with suitable size of GI strips as required. Check whether the metering equipment and indication lamps are working as desired and rectify the defects, if any. After installation, the panel shall be properly cleaned and protected to prevent dust & contamination.

4 INSTALLATION OF DBs:

All DBs wall mounting and floor mounted arrangement shall be in accordance with BOQ and the approved material. Ensure that painting of the wall is completed prior to marking and mounting of DB. Confirm label/markings to ensure that is the correct DB and check the position according to the approved layout and mark the fixing position of the DB's support. After marking, drill according to the selected sizes of anchor bolts to appropriate depth. Permanently fix the DB to the wall/slab with anchor bolts. If there is more than one DB to be installed at the same location, they shall be installed side by side and clearance shall be maintained for easy maintenance and trouble shooting. The height of Distribution Board shall be maintained so that easy access for termination of cables and other maintenance work can be carried out. Cut-out shall be made for inserting the wire in DB and same cutout shall be provided with a rubber gasket so that there will be no sharp edges and secure the wire insulation from damage.

Wire inserted in the DB shall be cross-checked for existing circuit number and **final ferrulings** shall be done. Wire in DB shall be used cable tie and dress with bunching of the **phase-neutral and earth and suitably lugged to the respective MCBs and Bus bar. Bunchings shall be done as per phase separation respectively R, Y and B.** After Crimping insulation sleeve shall be provided in the Wire/Cable to avoid accidental short circuit between the adjacent terminals. DBs shall be provided with body earthing connections as per provisions available in the DB. Identification label of approved engraved type name plate/Radium stickers of suitable font size shall be fixed on DB. After complete termination of wire/cable same DB compartments shall be cleaned before fixing the door.

When the DB is fixed on the partition care should be taken to ensure the holding capacity of the partition, to avoid the DB from falling and getting damaged or causing injury. The installation of DB shall be done in such a way to add to the ambience of the Branch. It shall be firmly fixed on the wall/partition.

5 LAYING OF LT CABLE

.5.1 IN CABLE TRAY:

Wherever the cable trays are provided, the cables shall be laid in the cable tray. The cable shall be laid from one end of the route or any other suitable point as per site conditions. Wherever the cable needs to be bended, the cable bending radius shall conform to the cable manufacturer's recommendation. Prior to cable cutting, check both ends to make sure there is sufficient length for proper dressing and end termination. After cable laying is finished, all cables shall be tested for insulation resistance. Install the cable tags, dress the cables and clamp it as per the standards. Whenever, single core cables are used, Trefoil (three-foil formation) laying shall be used with single-core cables.

LAYING THE LT CABLE UNDERGROUND:

A trench of about 1.5 meters deep and 45 cm wide is dug. Then the trench is covered with a 10 cm thick layer of fine sand. The cable is laid over the sand bed. The sand bed protects the cable from the moisture

from the ground. Then the laid cable is again covered with a layer of sand of about 10 cm thick. When multiple cables are to be laid in the same trench, a horizontal or vertical spacing of about 30 cm is provided to reduce the effect of mutual heating. Spacing between the cables also ensures a fault occurring on one cable does not damage the adjacent cable. The trench is then covered with bricks and soil to protect the cable from mechanical injury. The LT Cable route markers shall be provided as per standards.

The end terminations shall be provided as per the cable size. Unless specified, the termination shall be single compression type glands of proper size and lugs shall be suitable for termination as per the point of termination like switchgear terminals, Busbar, terminal connectors etc. Only the respective metal lugs shall be used for termination. Aluminum lugs shall not be used to terminate in the copper busbars or vice versa.

5.4 The cables from the Panel to DB or from Main DB to Sub DBs should be duly fixed with suitable size clamps if laid in the wall. If more number of cables is to be laid, then they shall be laid in cable trays of suitable size firmly fixed to the ceiling with threaded rods.

5.5 To avoid rodent menace, the contractor shall close all openings made by him in the wall, the unused knockout holes in the DB, Panels, and Junction Boxes with suitable dummies, Blanking plates etc. and also provide sufficient protection to the panels, DB. No claim for additional amount towards rectifying the work on account of damages caused by rodents will be entertained during the defects liability period.

6 CONDUITS:

Unless otherwise specified all wirings shall be in rigid PVC conduit embedded in wall, or ceiling or concealed in the false ceiling. The size of conduits shall be selected in accordance with the IS regulations and the minimum size of the conduit shall be 20 mm dia unless otherwise indicated or approved. Conduits shall be kept at minimum of 100 mm from the pipes of other non-electrical services.

Separate conduits and runways shall be used for:

1. Lighting system.
2. Power outlets.
3. Emergency light.
4. Telephone system.
5. Fire alarm system.
6. Sound/public address system.
7. Television system.
8. Computer system.

Wiring for short extension to outlets in hung ceiling or to equipment, motor set c. shall be installed in **flexible MS conduits**. Otherwise rigid conduits shall be used. PVC conduits shall not be used in outdoor system. Conduits shall be free from sharp edges and burrs and grease or oil shall not be used for the purpose of pulling the wire. The entire system of conduits must be completely installed and rendered electrically continuous before the conductors are pulled in.

All PVC conduits shall be jointed with plain PVC couples using approved PVC jointing materials as recommended by the manufacturer. All joints shall be water tight. Junction between conduit and adaptable boxes, back outlet boxes, switch outlet boxes and the like must be provided with try spouts and smooth PVC bushes.

LAYING OF CONDUITS IN SURFACE:

Conduits run on surfaces shall be supported on galvanized / PVC saddles which in turn are properly screwed to the wall or ceiling. Saddles shall be at intervals of not more than 60 cm.

Fixing screws shall be with round cheese head or anti-rust proof materials. Exposed conduits shall be neatly run parallel or at right angles to the wall of the building. Pull boxes must be provided at the right angles and at a distance of not exceeding 20 meter

CONCEALING THE CONDUITS IN THE WALL:

Conduits embedded into the walls shall be fixed by means of staples at not more than 60 cm intervals. Chase in the wall shall be neatly made and refilled after laying the conduit and brought to the finish of the wall. Chasing shall be done with the wall cutting machine. Hammer and chisel shall be used on chased portion to get uniform depth of 50 mm. Uniform depth of 50 mm shall be maintained on chased portion. Conceal back box shall be installed by using cement mortar. Alignment of the back box shall be done by using a calibrated spirit level. PVC adaptor shall be used for connection between JB and conduit. PVC solvent shall be used. PVC solvent cement shall be applied on conduit before interconnection. Embedded JB shall be protected by covering with brown tape filled with jute/gunny bag. Cement mortar 1:5 ratio (1 portion of the cement + 5 portion of sand) shall be used for patchwork in chased area. Chicken (wire) mesh and G nails shall be used for all chasing width of the embedded conduit. Curing shall be carried out for a minimum of three days.

CONCEALING IN THE CONCRETE:

Conduits buried in concrete structures shall be put in position and securely fastened to the reinforcement and got approved by the consultant/Engineer before the concrete is poured. Proper care shall be taken to ensure that the conduits and boxes are neither dislocated nor choked at the time of pouring the concrete. Suitable fish wires shall be drawn in all

conduits before they are embedded. Inspection boxes shall be provided for periodical inspection to facilitate draw and removal of cables. Such inspection boxes shall be flush with the wall in the case of recessed conduits. Inspection boxes shall be spaced at not more than 12 meters apart or two 90 degree solid bends or equal.

7 WIRING AND ACCESSORIES:

LAYING OF WIRES:

Unless otherwise specified all wires shall be FRLSPVC insulated single core, stranded copper conductor. All wires shall be colored as follows:

Phase R: Red Color of wire Phase Y: Yellow

Color of wire Phase B: Blue Color of wire

Neutral: Black

Ground: Yellow Green or Green (One color only to be used for the complete installation).

The size of wires shall be as indicated in the drawings or in the BOQ.

When more than one wires are installed in the same raceway, they should be pulled in the raceway at the same time. Use guide wires and similar equipment when wire pulling, to support the tension and avoid possible damage. Conductor splices must be enclosed in junction boxes. Use a minimum of 300mm of slack conductors inside DB and at each outlet as needed. Ensure proper wire installation in all boxes. After installation, the Wires Insulation Test should be conducted.

SWITCHBOARDS AND POWER OUTLET SOCKETS:

Switch Boards for light points, socket outlets, power outlets, pull / junction boxes shall be of galvanized steel, and shall be of shapes and sizes to suit their respective locations and installations and shall all be provided with covers to suit their function and installation. All outlet boxes shall be provided with brass ground terminals. All junction boxes/pull boxes shall have suitable covers. Surface mounted outlet and junction boxes in the outdoor locations shall be of weatherproof. The surface mounted indoor boxes shall be of sheet steel painted or PVC for surface installation. For internal use Switches shall be of the grid assembly pattern with rocker operated switch units suitable for operation with inductive loads. Switches shall be either one way or two ways as specified in the BOQ. Switch plates shall be of suitable shade and size as specified in BOQ or approved by SBI. Surface installation switches shall be provided with matching steel box.

CIRCUIT WIRING

Unless and otherwise specified in the BOQ, all sub main circuit conductor sizes for lighting

and appliances, shall be as shown in the schedule of quantities. Each circuit phase wire from the distribution board should be followed with a separate neutral wire of the same size as the circuit wire or as specified in the BOQ. For the light/fan point wiring individual phase, Neutral and Earth wire shall be run from the switch board to the respective ceiling rose. Looping of neutral and Earth wires for adjacent light points are not allowed except for the secondary points. For the secondary points Neutral and Earth looping should be done only from the respective primary points. This will avoid nuisance tripping of ELCB/RCCB in case of leakage and identifying the faulty circuit and rectifying will be easy. Each light point and outlet shall be identified with their circuit number and DB number with a label pasted on them. Flexible cords for connection to appliances, fans and pendants shall be 250/440V grade, three or four cores, with tinned stranded copper wires, insulated, twisted and sheathed with strengthening cord. If demanded by SBI, the contractor shall supply a certificate issued by the manufacturer of wires and switches stating origin, date of manufacture, batch number and standard to which it complies and the test certificates. Looping system of wiring shall be used. Wires shall not be jointed. Where joints are unavoidable, these shall be made through approved mechanical connector. 230V power supply wiring shall be distinctly separate from any other different voltage system and lighting wiring.

CONTROLSWITCHES

Control switches shall be connected in the phase conductor only and shall be 'ON' when knob is down. Switches shall be fixed in galvanized steel boxes. Chromium plated screws shall be used. The rating of the switches shall as per the BOQ.

For the UPS power sockets provided in the workstations and counters, the control switches shall be provided separately above the counter and the sockets below the counter.

Similarly, for the wall mounting fan points, the control switches shall be provided separately in the switch board and the socket outlet provided near the wall mounted fans.

TESTING OF ELECTRICAL WIRING SYSTEM

The entire installation shall be tested in accordance with IS regulations for:

1. Insulation resistance.
2. Earth continuity.
3. Polarity of single pole switches.

8. LIGHT FIXTURE INSTALLATIONS:

Inspect the site to install light fixtures as per approved lighting layout. If any mismatch is observed between the approved layout and the actual layout, please consult the SBI Engineer and re-plan the lighting layout to suit the actual site conditions.

If there is no false ceiling, chalk lines (geru powder cement colour removable type) shall be used to mark the spacing of light fixtures as per approved drawing. After marking, the light fittings support and accessories shall be fixed. Wires shall be connected to the connector of light fitting as per standard. Light fittings shall be mounted on the support fitted. Line level and final alignments shall be checked with line dori.

INSTALLATION OF LIGHT FIXTURES IN THE FALSE CEILING:

While installing light fixtures in the false ceiling, the contractor has to check the distance between the roof and the false ceiling and ensure that the sufficient height is available for fixing the light fixtures and if requires any change in the lighting layout. Any hindrance like beams, sewerage pipelines, electrical cables etc. has to be informed to the SBI Engineer and necessary guidance obtained before installation. Support to hang the fixture to be provided in the roof with suitable length of chain links or GI wires of suitable size, as per recommendation of the light manufacturer. The supports shall be of sufficient length to enable change of location of fixtures to the adjacent grid/cutout, if required by Bank. The supports should not be fixed to the pipes or cables or electrical conduits running above the false ceiling. The Light fixtures should not be loosely laid on the false ceiling grid without any support.

In case of the Gypsum false ceiling, the markings shall be made in the false ceiling first as per the lighting layout and the cutout shall be made in coordination with the interior contractor.

Wherever required, the suitable frames required have to be provided by the contractor for the 2' x 2' fixtures.

The cutouts for the light fixtures and down lighters shall be properly marked in the false ceiling to make the cutout neatly and as per the desired lighting layout. Nylon line dori shall be used to ensure that all light fixtures are in a straight line.

If the works involves, some architectural features in the false ceiling, the contractor shall consult the interior contractor and SBI Engineers before installation of light fixtures, ceiling fans, lying of cables above false ceiling to avoid any damage or any hindrance to the proposed architectural features.

9 EARTHSTRIPS/CABLETRAYS:

GI/COPPER STRIP LAYING:

Before installation of GI and copper earth strip, the inspection shall be carried out to confirm size, quantity and galvanizing of GI strip. Arrangements shall be made for proper scaffold for strip lying on the tray. Check wall and beam finishing before strip clamping on the wall and beam. Ensure that all Earth strip installations are straight. The earth strip route and size shall be confirmed/verified with approved earthing drawing.

Ensure that there is no overlapping in strips at joints. Where required for Joint area, use "C" type holding clamp for avoiding gap between two strips. GI strip fixing inside cable tray with using of GI nut bolt at every 5mtr. interval. Clamps shall be fixed at an interval of 1000mm. Copper to GI earth strip connections shall be done by using the bimetallic washer

EARTH STRIP LAYING BY WELDING ON WALL/SLAB.

Whenever longer length of Earth strips are to be installed on wall/slab, the overlapping in strips at joints shall be minimum. Overlapping area to be properly welded and ensure no gap in the joint area. Approved PVC sleeve shall be provided to 50x6mm and 75x10mm GI earth strip wherever accessible area such as inside substation, all embedded portion etc. Welding joints are cleaned with wire brush and then coated with Galvabrite. All paint, scale and enamel shall be removed from the contact before the earthing connections are made. All sizes of GI strips shall be fixed by using GI clamp, GI spacer, and 35x8mm GI screw with PVC nylon fasteners (PVC Grip). Clamps shall be fixed at an interval of 1000mm (in case of wall/slab). The earthing for Equipment shall be tapped from the main earth conductor/strip. Equipment earthing shall be done by GI nut bolting. Ensure GI nut bolt shall be fully tightened at equipment earthing. GI strip

laid underground shall be at depth of 500mm below finished grade level. All joint below ground level shall be welded by two coats of bitumen paint. All connections to the grounding grid shall be made with earthing strip welded to the grid and bolted at equipment ends. All joints and cut ends shall be properly painted with Galvabrite.

CABLE TRAY INSTALLATION:

Cable tray supports and cable tray material shall confirm the size, quantity and quality as per technical specification. Cable tray routes shall be cleared of any debris. Necessary cable tray route and supports shall be checked as per approved drawings. If required, make suitable size opening in the wall for cable tray entry into the building. All accessories used such as joint plate, nut, bolt with washer, bends, reducers, etc. used in cable trays shall be of the same manufacturer as that of the cable trays. Necessary Scaffolding shall be arranged wherever applicable. Throughout the work execution, safety standards shall be followed.

Chalk lines (geru powder cement colour removable type) are used to mark the cable tray route at the deck slab. After marking of supports location, drill the hole & install anchor fastener. Ceiling bracket and top hat section shall be fixed on anchor fastener. Install the threaded rod supports using with ceiling bracket as per approved drawing. Check the vertical and horizontal alignment of threaded rod support by spirit level. Supports shall be installed at spacing

not exceeding 1.5 meters and all branches, bends, End points supports shall be installed as shown on the approved drawings. Nylon lined dori will be used to ensure that all supports are in a straight line. After the installation of supports install the proper size cable tray and check the alignment using of line dori & Spirit level. Two lengths of cable tray shall be connected with the joint plate. Minimum clearance shall be maintained between bottom of the tray and the ceiling. End cap to be provided at end cut portion of tray.

10 CORECUT:

Core cut hole shall be carried out at the site as per the site requirement after consulting Civil Engineer. Ensure marking of core cut is in line of existing cut out at the floor above or below to have vertical alignment. If more than one Core cut is required, required spacings shall be provided. Center of core cut to be drilled with drill machine to receive core bit of machine. This will avoid displacement of core machine bit. The Core cut Machine will be Fixed to Slab using Machine Clamp and anchor Fastener. Check that machine is firmed enough not to be displaced from its location. Check the electrical supply and run the machine with minimal force. Maintain proper gaps between adjacent core cuts to allow pipe jointing in future. Upon completion of the core cut, protect the Core cut hole using the plywood piece.

11 CONCEALING IN SIDE WALL/PARTITIONS/GROUND/CEILING:

The contractor shall give due notice to the Employer whenever any work like opening for the earth pits, underground laying of cables, concealing the conduit piping, cabling or any work is to be concealed in the wall/false ceiling/partitions or finished up or otherwise becoming inaccessible later on, in order that the work may be inspected and correct dimensions taken before concealing.

11.2 If the Contractor has concealed the items without informing SBI Engineer, the same shall be opened up for measurement and made good to the original finishing at the contractor's expenses. If the contractor refuses to do so, then the same will not be considered for measurement and no payment may be made for such materials. The contractor shall not execute any extra work other than the Bank's or SBI written instruction. No works, for which rates are not specifically mentioned in the price bid, shall be taken up without written permission of the Bank/SBI. Should any dispute or differences arise after the execution of any work as to measurements etc., or other matters which cannot be conveniently tested or checked, the decision of SBI shall be accepted as correct and binding on the contractor. It is the responsibility of the Contractor to arrange/provide the tools, ladder, stands or any other gadgets or supports required for the execution of the work at site and Bank will not provide or entertain such requests.

LIST OF I.S. CODES FOR INTERNAL ELECTRIFICATION INSTALLATIONS		
S.No.	Description	IS Code
1.	EXTERNAL ELECTRIFICATION wiring installation (system voltage not exceeding 650V)	IS 732-1989
2.	Graphical symbols used in Electro-technology art-XI-Electrical Installation buildings	IS 2032-1969
3.	Fire safety of buildings (General) Electrical Installation	IS 1646-1961
4.	3 pin plugs and sockets	IS 1293
5.	Earthing	IS 3043-1966
6.	Fittings for electrical wiring	IS 2667-1964
7.	General and safety requirements for electric lighting fittings	IS 1913-1969
8.	Busbar ratings	IS 8084-1976
9.	On load change over switches	IS 4064-1978
10.	Panel shall comply with the latest Relevant Indian Standards and Electricity Rule and Regulations	IS-13947-1993
11.	The general construction shall for factory built assembled switch gear & control gear for voltage upto and including 1100 VAC	IS-8623-1977 (Part-1)
12.	DBS	IS-13947-1993
13.	The general construction for factory built assembled switch gear & control gear for voltage upto and including 1100 VAC	IS-8623-1977 (Part-1)
14.	The degree of protection shall be IP-42 for indoor application, IP-55 for kitchen and IP-65 for outdoor application.	
15.	Conduits for electrical installations, Part 3: Rigid plain conduit of insulating materials. General requirements [ETD 14: Electrical Wiring Accessories].	IS 9537-3(1983)
16.	Fittings rigid non-metallic conduits [ETD 14: Electrical Wiring Accessories]	IS 3419(1989)

REFERRED MAKE OF MATERIALS TO BE USED:

Sno	ITEMS	BRANDNAME
1.	MCCB/MCB/RCCB/MCB DB	L&T/SIEMENS/SCHNEIDER/ABB/LEGRAND/HAVELLS
2.	HT/LTCABLES	L&T/UNIVERSAL/FINOLEX/POLYCAB/HAVELLS
3.	CABLEGLANDS	HAX/DOWELLS/HMI/BRACO/COMET/
	Lights	Philips/Havells/CG/orequivalent
4.	CABLELUGS	DOWELL/3D/JAINSON
5.	CHANGEOVERSWITCH	HPL/L&T/C&S
6.	INDICATINGMETERS	L&T/AE/IMP/MECO/CONZERV
7.	RELAYS	L&T/GE/TELEMECANIQUE/AREVA
8.	CT'SRESIN-CAST	KAPPA/IMP/AE/KALPA
9.	SELECTORSWITCHES	L&T/SIEMENS/KAYCEE
10.	FRLSWIRES	RRKABEL/FINOLEX/POLYCAB/L&T/HAVELLS/KEI
11.	MODULARSWITCHES	ANCHOR/LEGRAND/HONEYWELL/HAVELLS/SCHNIDER
12.	PVC CONDUITS	VIP/PRECISION/ATUL/SUDHAKAR/MODI
13.	CASING/CAPPING	CLASSIC/MODI/SUDHAKAR
14.	LIGHTFITTINGS	PHILIPS/ CROMPTON/WIPRO/ HAVELLS
15.	EXHAUSTFANS	CROMPTON/GEC/ ARMONALD/HAVELLS
16.	CEILINGFANS	CROMPTON/HAVELLS/BAJAJ/USHA
17.	ACB	L&T/SIEMENS/SCHNEIDER/ABB
18.	CONTACTORS	L&T/SIEMENS/SCHNEIDER/ABB
19.	CABLETRAY	STELCO/STEELWAYS/SLOTCO/PILCO
20.	BUSBARSUPPORT SYSTEM(SMCSHEETS)	POWERMAT/L&T/C&S/LEGRAND
21.	BUSBARTAPINGBOX	SIEMENS/SCHNEIDER/ ABB/C&S
22.	MSCONDUITS	BHARAT/ZINDAL/
23.	CAPACITOR BANKS	SCHNIDER/L&T/LEGRAND/EPCOS
24.	CAT-6/TELEPHONE CABLES	D-LINK/FINOLEX/POLYCAB/LEGRAND/SKYTONE
25.	LANSWITCHESI/OPORT	CISCO/D-LINK/JUNIPER/LEGRAND
26.	NETWORKRACK	D-LINK/VALRACK/NETRACK/EMERSON
27.	ACs	O-General/Mistubishi/Hitachi/Daikin/Bluestar
	Important:Please Tick(/)themakeofmaterialsconsideredintheTender.	

**PROPOSED CLASS ROOM-5 FOR STATE BANK INSTITUTE OF RURAL BANKING
SITUATED AT LINGAMPALLY, HYDERABAD, TELANGANA.**

SCHEDULE OF QUANTITIES AND DETAILED SPECIFICATIONS

<u>S. No.</u>	<u>Description</u>	<u>Qty</u>	<u>Units</u>	<u>Rate</u>	<u>Amount</u>
	DISTRIBUTION BOARDS				
1	Supply, erection, testing and commissioning of Double Door type MCB Distribution Boards, wall mounted (either surface / recess mounted). The erection rate shall include fixing of DB on a M.S frame, Providing 32mm dia. FRLS PVC pipe for cable incoming and all other fixing accessories and necessary civil works as required.				
a	8 Way, TPN MCB RCCB/RCBO (Metal door)with 63A, 4P, MCB ELCB -1 No as incomer and 6- 32 A (10KA) SP MCBs -24 Nos as outgoing. For lighting + Power DB	1	Nos		
2	UPS RELATED DB'S				
a	18 WAY SPN DB with 40 Amp DP MCB as Incomer & 6 Amp SP MCB 10 No's as outgoing For UPS POINTS	1	Nos		
b	63A 4 POLE RCCB to AC Out door unit from panel and panel for Panel Incomer with enclosure	4	Nos		
3	CABLES				
	Supply and laying following size 1.1KV grade PVC insulated armoured aluminium/Cu. FRLS conductor under ground cable on the surface of wall, above false ceiling along with 2runs of 12swg GI wire with all installation materials.The cable shall conform to IS 1554 Part- I.scope also includes termination of the cable as required with suitable glands and lugs				
a	4 core x 6sqmm Copper Armoured Cable for LDB I/C , INCOMING	50	Mtr		

b	4 core x 10sqmm Copper Armoured Cable for UPS	80	Mtr		
c	4 core x 4sqmm Copper Armoured Cable for AC ODU's	30	Mtr		
d	4 core x 16sqmm Copper Armoured Cable for UPS	30	Mtr		
4	Providing end terminations for following size cables including supply of Compression type cable gland, lugs, insulation tape and identification tags complete with end termination and earthing of gland.				
a	4 core x 6sqmm Copper Ar Cable	2	Nos		
b	4 core x 10sqmm Copper Ar Cable	2	Nos		
c	4 core x 16sqmm Copper Ar Cable	2	Nos		
5	<u>POINT WIRING - LIGHTS</u>				
a	Point wiring with 1.5sqmm FRLS 650V grade multistranded PVC insulated copper wire in 2mm thick 25mm dia FRLS PVC pipe for lights, fans including supply & fixing of 5 amp modular switch in concealed MS switch box, front plate, 3 plate ceiling rose, and concealed circuit wiring with 3 Nos (P,N,E) 2.5sqmm (DB's to switchboards & switch board to switch boards loopings) . and all interconnections as required.	10	Pts		
b	Same as above but for secondary points looped from the above	7	Pts		
c	Supply and fixing of 1nos. 6A sockets fixed on the common switch board with 1 no 6A switch including all interconnections as required for raw power	4	Nos		
6	<u>SOCKETS - UPS:</u>				
a	UPS Socket - 2 x 6A				

i)	Supply and fixing of 2nos. 6A UPS sockets fixed below the table with 1 no 16A switch fixed on a table with suitable module metal box and white front plate (Modular type) including all interconnections as required (switch shall be fixed above the table with suitable modular front plate /box and sockets shall be fixed below the counters) with 3runs of 2.5 sq.mm FRLS grade 1100 V PVC insulated multi strand copper conductor wires conforming to IS 694 (with latest amendments) in suitable size FRLS PVC conduit of 2mm thick concealed in the above ducts in the floor and supply of all fixing materials and accessories, interconnections complete as required for the UPS power sockets.	45	Nos		
7	<u>DATA :</u>				
a	Supply and Laying of 4Pair, UTP(Unshielded Twisted Pair) cat6 Lan Cable with Information outlet and Suitable 2mm Thick FRLS PVC Pipe Laying Below Flooring/Wall/Slab etc MS Junction Boxes to All Tables, Including all Related Civil Works etc All Cable Numbers to be Provided at both ends	44	Nos		
b	Supply & fixing of 7 feet Patch Cords.	25	Nos		
c	Supply & fixing of 3 feet Patch Cords.	19	Nos		
d	Supply ,Installation, Tesitng and Comissioning of 24 Port Patch Panel	2	Nos		
e	Supply ,Installation, Tesitng and Comissioning of 24 Port network switch	2	Nos		
f	Supply & Fixing of 9U Rack with Accessories	1	Nos		
	RACEWAYS & JUNCTION BOX				

8	Fabricating, supplying and installation, in floor including chase cutting of floor, leveling, refilling and making good the same 2 mm thick cover pregalvanised GI raceways, totally enclosed, height 40 mm . The two lengths of raceways shall be fitted with Collars , 50 mm wide, 3 mm thick , press fit type. The raceways shall be clamped to the floor slab with GI clamps ,3mm thick and shall be screwed to the floor slab. The joint between raceway and junction box will be made with GI flexible strip(3nos), 3 mm thick, 4 inches long ,15 mm wide which will be nut bolted to the Junction box complete as required etc.The knockout shall be removed at the site as per requirements. Junction boxes shall be leveled at the time of installation and shall be earthed with 8 Swg G.I wire. Junction boxes and raceway shall be covered with plastic bags during backfilling of concrete work.				
	RACEWAY				
a	75MM X38MM G.I Raceways of 2mm thick	50	Rmts		
b	100MM X38MM G.I Raceways of 2mm thick	50	Rmts		
	FLOOR JUNCTION BOX				
c	100MM X 100MM X50MM DEEP JB	3	No's		
d	125MM X 125MM X50MM DEEP JB	3	No's		
9	<u>SUPPLY AND INSTALLATION OF LIGHTING FIXTURES</u>				
	Supply & Installation of following type Fluorescent / Compact fluorescent / Incandescent light fixtures. The fixtures shall be installed including supply and wiring between Ceiling rose to fixture with supply and laying of 3core 1.5Sq.mm copper flexible cable and fixing of Lamp with all required accessories, support chains &				

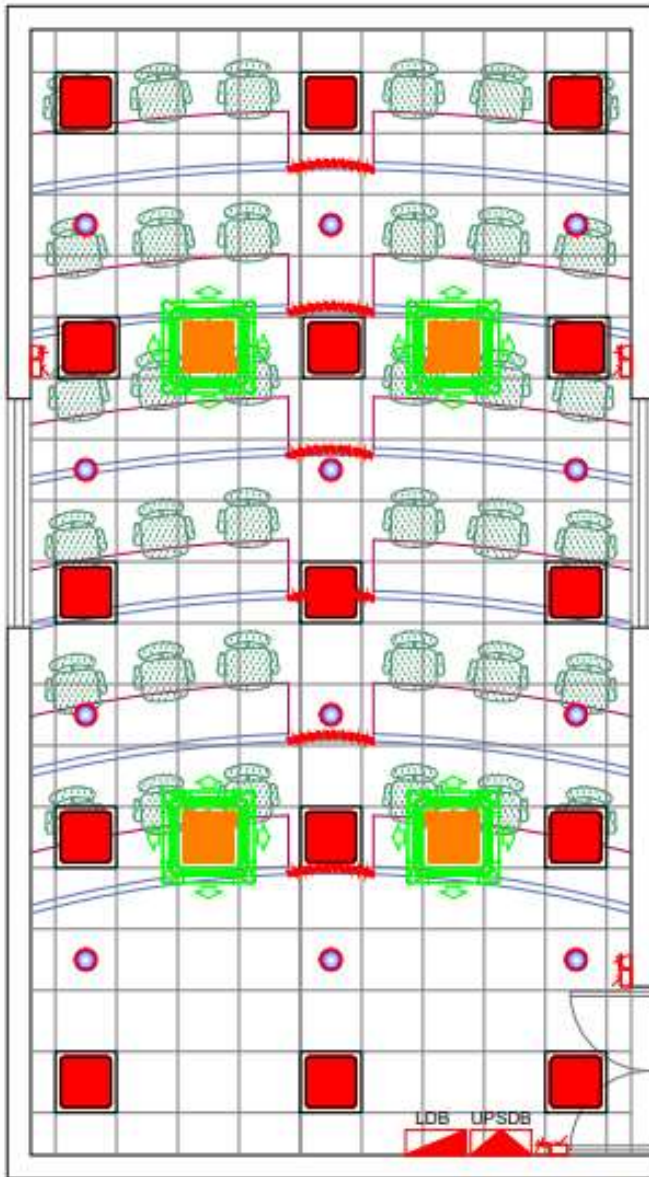
	interconnections etc.				
b	Supply and Installation of 2'x2' recessed mounted fitting with all interconnections and fixing arrangement as required. Make: Crompton Signature series STELLUX-H (Model : LCTRH-CDL)	15	Nos		
c	Supply & Installation of 20W LED down light . including cost and conveyance of all materials, taxes and all labor charges etc., complete.	12	Nos		
d	Supply and Installation of walk over LED Profile with cover frame housing complete as per requirement	15	Rmts		
e	Supply, Fixing of 5MTR length LED Strip Light for including driver cost and conveyance of all materials, Labour Charges etc. complete. MAKE: FLEXISTRIP5MIP2024V/ 2ALE830MOD V1 Havells	3	Strips		
ADDITIONAL WORKS					
10	Lifting servicing all components of all the existing Cassette Indoors and outdoors and reinstalling the same (4 No's)	1	LS		
	GRAND TOTAL:				

(Rupees _____)

_____ Only.)

(Signature of the Contractor with Seal.)

LEGEND FOR CLASS ROOM-4				
S.No	SYMBOL	DESCRIPTION	QTY	WATTS
01		2X2 LED RECESSED LIGHT 34W	15	540
02		RECESSED MOUNTED DOWNLIGHT 20 W	12	240
03		2 NOS 6A UPS SOCKET 250W	40	11500
04		6A SOCKET WITH CBR 100W	04	400
05		DATA POINT	18	-
06		LIGHTING DISTRIBUTION BOARD	01	-
07		18 WAY SPN DB FOR UPS SOCKETS	01	-
TOTAL LOAD IN WATTS				9156 W
TOTAL LOAD IN KILO WATTS				9.16KW



LIGHTING LAYOUT

CLASS ROOM - 4

<p>ELECTRICAL LAYOUT FOR PROPOSED CLASS ROOM FOR STATE BANK COLLEGE OF ENGINEERING, ANAPURUVA ETAL, LINGAIPURU, VELLORE, TAMILNADU.</p>		<p>DESIGNED BY: DR. S. SURESH KANTH CHECKED BY: DR. S. SURESH KANTH DATE: 15/08/2023</p>	<p>SCALE: AS SHOWN PROJECT NO: 2023/08/01 DRAWING NO: EL/01</p>
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