

<b>NTT NO</b>	<b>SBI/HYD/IAD/2024-25/001</b>
<b>DATE</b>	<b>22-08-2024</b>

**PROPOSED INTERIOR FURNISHING, ELECTRICAL, AIR CONDITIONING & INTERNAL CIVIL (SOFT CIVIL) WORKS FOR RENOVATION OF GROUND FLOOR AND SECOND FLOOR OF STATE BANK NIREEKSHAN BHAVAN, LINGAMPALLY POST, HYDERABAD, TELANGANA-500019.**



**TENDER SCHEDULE.**

**THROUGH TWO BID E-TENDERING PROCESS**

**The Assistant General Manager (Admin),  
State Bank of India,  
Internal Audit Department,  
Admin Wing, Corporate Centre,  
State Bank Nireekshan Bhavan,  
Lingampally Post, Hyderabad  
Telangana - 500019  
Ph No:8688491040  
Email: [agmadmin.iahyd@sbi.co.in](mailto:agmadmin.iahyd@sbi.co.in)**

CONSULTANTS:



**M/S abhikram-s  
architects, interior designers, urban planners  
valuers & project managers  
#3-6-134 FLAT NO 302  
SVC ROYAL DM APARTMENTS  
STREET NO 18, HIMAYATNAGAR  
HYDERABAD-500029  
ph.no 040-35561296  
[abhikramarchitects@gmail.com](mailto:abhikramarchitects@gmail.com)**

**NOTICE INVITING TENDER (NIT)**

**NAME OF WORK: On behalf of SBI invites e-TENDER FOR PROPOSED INTERIOR FURNISHING, ELECTRICAL, AIR CONDITIONING & INTERNAL CIVIL (SOFT CIVIL) WORKS FOR RENOVATION OF GROUND FLOOR AND SECOND FLOOR OF STATE BANK NIREEKSHAN BHAVAN, LINGAMPALLY POST, HYDERABAD, TELANGANA-500019.**

1.	Name of the work	<b>e-TENDER FOR PROPOSED INTERIOR FURNISHING, ELECTRICAL, AIR CONDITIONING &amp; INTERNAL CIVIL (SOFT CIVIL) WORKS FOR RENOVATION OF GROUND FLOOR AND SECOND FLOOR OF STATE BANK NIREEKSHAN BHAVAN, LINGAMPALLY POST, HYDERABAD, TELANGANA-500019.</b>
2.	Estimated cost	<b>Rs. 2,47,42,515.00/- + plus GST</b>
3.	Quantum of Earnest Money Deposit (EMD)	<b>Rs. 2,50,000.00/-</b> Drafts/BCs shall be in favor of “Assistant General Manager, (Admin), Internal Audit Dept, Hyderabad” Payable at Hyderabad.
4.	Date and Time where tender forms are available	<b>FROM 22-08-2024</b> at <a href="http://www.sbi.co.in/">www.sbi.co.in/</a> SBI in the News procurementnews and <a href="https://etender.sbi">https://etender.sbi</a>
5.	Last date and time of submission of online Tender	<b>11-09-2024 Up to 03:00PM</b>
6.	Place, date &time for submission of e tender Contact person /telephone no/email address.	a) On line submission up to <b>11-09-2024 Up to 03:00PM</b> at <a href="https://etender.sbi">https://etender.sbi</a> b)EMD& Cost of tender Document submission Address: <b>The Assistant General Manager (Admin), State Bank of India, Internal Audit Department, Admin Wing, Corporate Centre, State Bank Nireekshan Bhavan, Lingampally Post, Hyderabad Telangana – 500019.</b> <b>11-09-2024 Up to 03:00PM</b> Contact: Assistant General Manager (Admin) <b>Ph No:8688491040</b> <b>Email: agmadmin.iahyd@sbi.co.in</b>
7.	Date, Time and Place of opening of e-Tenders	<b>11-09-2024 Up to 03:10PM</b> <b>The Assistant General Manager (Admin), State Bank of India, Internal Audit Department, Admin Wing, Corporate Centre, State Bank Nireekshan Bhavan, Lingampally Post, Hyderabad Telangana – 500019.</b>
8.	Quantum of Security Deposit (percentage)	1. Initial Security Deposit (ISD) – 2% of the Tender value including EMD 2. Retention Money- 5 % of the running bills and Total deduction of 5% of value of work including EMD, ISD.

9.	Terms of payment of Bills, if any (specify the minimum value of work for payment of running account bills)	<b>Each running bill of Rs. 50.00 Lacks and above</b>
10.	Stipulated time for completion of the Work/supply.	<b>90 Days per Each floor two wings floor right and left Subject to Handover. Work to be done in Phase wise.</b>
11.	(Penalty clause) Liquidated Damages	@ 0.5% of the value of work per week of delay subject to a maximum penalty of 5% of the value of work would be strictly imposed.
12.	Validity period of the tender.	<b>Twelve (12) Months</b>
13.	Defect Liability Period	<b>Twelve (12) Months</b>
14.	Eligible Taxes	<p>A ) Income Tax &amp; GST IT will be deducted at source as per Govt. Guidelines.</p> <p><b>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;</b></p> <ol style="list-style-type: none"> <li>1. Contractor should have GST Registration Number</li> <li>2. Invoice should specifically/separately disclose the amount of GST levied at applicable rate as per GST provision</li> <li>3. In case of Correction in the bills after scrutiny, contractor should submit fresh bills for payment</li> <li>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</li> <li>5. The GST Number of State Bank of India are For Telangana State -36AAACS8577K1ZQ</li> </ol>
15.	Electronic Payment	Payment shall be made by way of Electronic fund transfer and the bill will be <b>paid by the Branch</b> . Firm should furnish details of the bank, a/c no, IFSC code
16.	For Digital Signature Certificate related query	Contact no. : 9099090830 Email on info@abcProcure.com
17.	Tender submission Guidance	+91 7859800621   6352632098   6352631766   6352631968   9374519754
18.	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

<p><b>19.</b></p>	<p><b>EVALUATION OF PRICE BIDS AND FINALIZATION</b></p>	<p>1. Only those Bidders who qualify in Technical evaluation would be shortlisted and the online price bid submitted by the bidder will be opened.</p> <p>2. The L1 Bidder will be selected on the basis of net total of the price evaluation as quoted in the Online bidding.</p> <p>3. In case, the L1 amount quoted by two or more contractors is the same, such lowest contractors will again be asked to submit sealed / online “ Revised + Percentage Offers” on the original Estimated Cost of tender but the revised percentage shall, in no case, be higher than the percentage quoted during their initial offer for the project. The L1 shall be decided on the basis of revised offers.</p> <p>4. The process of online rebidding amongst the two or more contractors offering same rates shall continue till L1 bidder is discovered. If required, PL shall conduct reverse auction to discover the L1 bidder.</p> <p>5 In case, 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 PL and the EMD of such contractors shall be forfeited and they shall not be allowed to participate in the re-tendering process for the work.</p> <p>6. If the final L1 bid is unreasonably low ie L1 bid is less by 10% or more of the Estimated Cost, the contractor shall submit additional Security Deposit in the form of PBG/DD for an amount equal to difference in the estimated cost vis-a-vis final tender amount quoted by the L1 contractor. PBG/DD to be submitted within 7 days from issue of letter from /Bank.</p> <p>7. If the L1 bidder refuses to give the PBG, then the EMD will be forfeited and the tender will be re-invited. The L1 bidder will not be allowed to participate in the retendering process.</p>
<p><b>20.</b></p>		<p>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</p>

		<p>between 92.5 % of estimated cost put to tender and the quoted price.</p> <p>Bank Guarantee or FDR receipt favoring Asst. General Manager (Admin), Internal Audit Dept, Hyderabad, but drawn on any other Nationalized Bank may also be accepted as ASD / APG.</p>
21.	Pre Bid Meeting	<p><b>Pre Bid Meeting will be Conducted on 31-08-2024 at State Bank of India, Internal Audit Department, Admin Wing, Corporate Centre, State Bank Nireekshan Bhavan, Lingampally Post, Hyderabad Telangana – 500019.</b></p> <p><b>No technical Clarifications shall be entertained after the Pre bid Meeting.</b></p> <p><b>No Conditional Tenders shall be allowed, if any shall be summarily rejected.</b></p>
22.	Solvency Certificate	<p><b>The contractor should submit a Solvency Certificate of ₹74,22,000.00 issued by any scheduled Bank in India, issued not later than 31<sup>st</sup> March, 2024.</b></p>
23.	Working Hours	<p><b>The Contractor has to work in the Premises of an office which is functional and no in convenience to be created for effective functioning of office during office hours and the office staff. The Contractor should execute major works in the Nights and Holidays. The Contractor should make necessary arrangements for this.</b></p>

**Following documents to be scanned and uploaded :-**

- 1. Scanned copy of Tender cost and EMD must be uploaded and the same needs to be submitted at given address within due date of tender**
- 2. Firm should be visit the website ( <https://etender.sbi> ) till last date of submission for changes. corrigendum if any will be published only in <https://etender.sbi>**
- 3. L-1 Tenderer signed copy of entire tender document should be submit within 3 days from date of tender opening**

**Assistant General Manager**

## 1. INSTRUCTIONS TO THE TENDERER

1. This tender is for the " PROPOSED INTERIOR FURNISHING, ELECTRICAL, AIR CONDITIONING & INTERNAL CIVIL (SOFT CIVIL) WORKS FOR RENOVATION OF GROUND FLOOR AND SECOND FLOOR OF STATE BANK NIREEKSHAN BHAVAN, LINGAMPALLY POST, HYDERABAD, TELANGANA-500019" It is a Two Bid containing Technical bid and Price Bid.

In their own interest the contractors are advised to use their own specific seals and desist from using currency coins for the purpose. Tenders with incomplete or broken seals are liable to be rejected, the matter solely resting at the discretion of the EMPLOYER / ARCHITECTS. If a Contractor does not quote for one or more items, the Tender will be considered as incomplete and will be rejected.

2. Clients/Architects reserve to itself the right to accept or reject any tender without assigning any reason for doing so and does not bind itself to accept the lowest or any other tender.

3. General Specifications are for guidance only. The latest ISI codes and Specifications and mode of measurements will be referred to during execution.

4. The term "THE ARCHITECTS" in the said conditions shall mean **M/S ABHIKRAM-S Architects, Interior Designers, Urban Planners, Valuers & Project Managers. #3-6-134, Flat No-302, SVC Royal DM Apartments, Street No-18, Himayat Nagar, Hyderabad-500029.**

5. Employer or Client shall mean The Assistant General Manager (Admin), State Bank of India, Internal Audit Department, Admin Wing, Corporate Centre, State Bank Nireekshan Bhavan, Lingampally Post, Hyderabad  
Telangana – 500019.

## 2. ELIGIBILITY CRITERIA

### SECTION – 1

S.NO	CRITERIA	DOCUMENTS REQUIRED
<u>1</u>	The contractor should be a registered with CPWD or State PWD or MES or Railways or such other Government organizations or Registered in Public sector units or Public sector Bank's or Financial institutions or Reputed Corporate companies, MNC's, IT companies as Composite works (Interior Furnishing, Electrical and Air Conditioning works) contractors above 200 lac Category.	<b>A copy of valid registration certificate from respective authorities.</b>
<u>2</u>	The Contractor should have minimum of 07 (Seven) years' experience in the field as on 31.07.2024.	<b>Copy of Registration of the Firm or Copy of incorporation .At least one copy of the work order from the clients prior to 1.08.2017.</b>
<u>3</u>	Bidder should have a minimum of Rs. 74.22 Lakhs annual average turnover per year during last three financial years i.e. 2020-21, 2021-22, 2022-23 from the related business.	<b>Audited balance sheet and P&amp;L account for years mentioned and certificate from the Chartered Accountant.</b>
<u>4</u>	The Tenderer should have executed the following work in a single contract COMPOSITE NATURE ( Interior Furnishing works, Electrical and AC works) during the last Five (5) years ending with 31.07.2024 for at least,  One (1) similar work costing Rs.197.94 LAKHS. Excluding GST / Service tax or any other taxes. OR Two (2) similar works each costing Rs.123.71 LAKHS. Excluding GST / Service tax or any other taxes. OR. Three (3) similar works each costing Rs. 98.97 LAKHS . Excluding GST / Service tax or any other taxes.	<b>Satisfactory completion certificates of the works clearly indicating the cost &amp; nature of work executed, date of commencement &amp; completion issued by the Clients. The works shall Mandatorily be supported with form 26AS regarding the bills claimed for the Certificate submitted.</b>
<u>4a</u>	In addition to the above, The Eligible Contractor should have executed at least one similar work each costing Rs.123.71 LAKHS in Telangana and Andhra Pradesh during last three years ending with 31.07.2024.	<b>Satisfactory completion certificates of the works clearly indicating the cost &amp; nature of work executed, date of commencement &amp; completion issued by the Clients. The works shall Mandatorily be supported with form 26AS regarding the bills claimed for the Certificate submitted.</b>
<u>5</u>	The contractor must have valid GST registration, PAN number.	<b>Copy of the GST registration certificate and copy of PAN card.</b>
<u>6</u>	The contractor should submit the Labour License.	<b>Copy of the certificate of Central Labour License shall be Submitted by the successful tenderer.</b>

<b>7</b>	The bidder should not have been black-listed/ barred by any Public Sector Bank, RBI or IBA or any other Government/PSU agencies during last Seven years.	<b>An undertaking in this regard is to be submitted to the Bank by the Bidder on Rs.200/- Stamp Paper. Bank will verify the same.</b>
<b>8.</b>	The contractor (Proprietor / Partner/ Director ) should have a valid from Electrical Licensing Board Class –A license.	<b>Valid license to be submitted for carrying out the work Telangana state Electrical Licensing Board Class –A license is mandatory</b>
<b>9.</b>	The contractor should submit Solvency Certificate of ₹74,22,000.00 issued by any scheduled Bank in India, issued not later than 31 <sup>st</sup> March, 2024.	<b>Solvency Certificate should be submitted. If fail to submit, the tender will be summarily rejected.</b>
<b>10.</b>	The Contractor should have Registered Office or Branch Office in the state of Telangana or Andhra Pradesh from at least 2 Year prior to Tender date.	<b>Proofs for the same should be submitted. (Work orders, GST Certificate, Lease Agreement of Office Premises, property tax receipts Etc)</b>
<b>11.</b>	The Company/ Brand of the ACS should be Mentioned .	<b>A certificate from the manufacturer shall also be provided, to support and maintain the system for a period of 1 year on behalf of the tenderer/ contractor.</b>

**NO JOINT VENTURE PROJECTS ARE PERMITTED / ALLOWED.**

**SIMILAR WORKS MEANS:**

**INTERIOR FURNISHING WORKS: IT IS A COMBINATION OF WORKS**

**ASSOCIATED WITH PARTITIONS (SOLID, GLAZED & SEMI GLAZED PARTITIONS), TABLES, PANELING WORKS, DOORS (SOLID , PARTLY GLAZED & FULLY GLAZED DOORS), STORAGES( FULL HEIGHT &LOW HEIGHT) , FALSE CEILING ( GYP & MINERAL FIBER CEILING & WOODEN CEILING) , VENEER WORKS, LAMINATION WORKS, TOUGHENED GLASS WORKS, TOUGHENED LACQUERED GLASS WORKS, PVC MARBLE PANELING WORKS, SOFT BOARD WORKS, WHITE GLASS WORKS AND INTERIOR PAINTING WORKS ETC., FOR GOVERNMENT, NATIONALIZED BANKS,PSU'S, REPUTED CORPORATE COMPANIES, MNC'S, IT COMPANIES**

**ELECTRICAL WORKS: IT IS A COMBINATION OF WORKS ASSOCIATED WITH MAIN DBS,SUB MAIN DBS, CABELS FOR DBS WIRING FOR LIGTHING, RAW POWER AND UPS, LAN AND TELEPHONE CABLING AND ITS POINTS, LIGHT FIXTURES, PVC RACE WAYS, EARTHING,CABLE TRAY,WIRING FOR AC ETC, FOR GOVERNMENT, NATIONALIZED BANKS,PSU'S, REPUTED CORPORATE COMPANIES, MNC'S, IT COMPANIES.**

**AIR CONDITIOING WORKS: IT IS A COMBINATION OF WORKS ASSOCIATED WITH SPLIT ACS CASSETEST ACS .COMMUNICATION CABLES OF THE SAME ,COPPER PIPING,DRAIN PIPING,ERECTION OF OUT DOOR AND INDOOR UNITS STANDS ETC**

**NOTE.**

- **BIDDER MUST COMPLY WITH ALL THE CRITERIA MENTIONED ABOVE. NON-COMPLIANCE OF ANY OF THE CRITERIA WILL ENTAILED TO REJECTION OF THE BID SUMMARILY. THE BANK RESERVES THE RIGHT TO VERIFY / EVALUATE THE DOCUMENTS / CERTIFICATES SUBMITTED AS EVIDENCE BY THE BIDDER.**



- **RELEVANT COMPLETION CERTIFICATES OF HAVING COMPLETED SIMILAR WORKS (WORK ORDERS WILL NOT BE CONSIDERED) ISSUED BY COMPETENT AUTHORITY MUST BE ENCLOSED FAILING WHICH YOUR TENDER WILL BE SUMMARILY REJECTED.**
- **CERTIFICATES ISSUED BY THE PRIVATE BUILDERS, SUB CONTRACTUAL WORKS ARE NOT ELIGIBLE.**
- **COMMITTEE OF SBI WILL INSPECT THE SITES OF WORKS / OFFICES OF CLIENTS FOR WHICH RELEVANT CERTIFICATES ARE ENCLOSED IN PRE QUALIFICATION TENDER.**

SECTION – 2

**STRUCTURE AND ORGANIZATION**

Name of the Tenderer:

Address

The tenderer is

1. An Individual
2. A Proprietary firm
3. A limited company or limited corporation
4. A member of a group of companies (If yes, give names, address and present description of other companies)
5. A Subsidiary of large organization  
(If yes, give name and address of the present organization) if the company is subsidiary, State what involvement if any, will the parent company have in the project.

Attach the organization chart showing the structure of the organization including the names of the directors and position of officers.

6. Number of years of experience
  - **As a prime contractor**
    - i. In own country
    - ii. Other countries (specify country)
7. How many years your organization been in business under your present name?  
Add what were your fields when you established your organization.
8. Were you ever required to suspend construction for a period of more than six months continuously after you started? If so, give the names of project and reasons of failure.
9. Have you ever not completed any work awarded to you? If so, give name of project and reasons for not completing work.
10. In how many projects were imposed penalty for delay? Please give details.

Signature of Contractor

Client

Architect

Contractor  
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SECTION – 3  
FINANCIAL DETAILS

**ANNUAL TURNOVERS FOR THE LAST THREE YEARS**

S.No.	Year	Turnover from Similar works (in lakhs)	Turnover from all other sources (in lakhs)	Remarks
<b>1</b>				
<b>2</b>				
<b>3</b>				

1. List your sources of finance

- Own resources
- Bank credit
- Other sources specifies if any?

2. Name and address of Bank from whom reference can be obtained.

Name :

Address :

Ph.

**Note :**

1. Please attach certified/attested copies of the latest IT and/or Profit and Loss account statement to support the information furnished, failing which your firms will be summarily rejected.
2. Please attach certified Certificate of financial Soundness by Bank.

Signature of Contractor

Client

Architect

Contractor  
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SECTION – 4

**EXPERIENCE PROFILE**

DETAILS OF SIMILAR WORKS COMPOSITE NATURE INTERIOR,ELECTRICAL AND AC WORKS COMPLETED IN LAST FIVE YEARS									
S.No.	Description of the work	Name and address of the Employer	Contract No. and date.	Date of award of work	Stipulated date of completion	Actual date of completion	Value of completed work (in lakhs)	Reasons for delay	Penalty if any
<b>SIMILAR WORKS</b>									
1									
2									
3									
4									

**Note:**

1. Tenderer must attach copies of the certificates issued by the Client.
2. Only those works shall be considered for evaluation for which copies of the certificates issued by the client are attached

**Relevant certificates of having completed similar works issued by competent authority must be enclosed failing which your tender will be summarily rejected.**

Signature of Contractor  
Client

Architect

Contractor  
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**DETAILS OF OTHER WORKS COMPLETED IN LAST FIVE YEARS**

**Relevant certificates of having completed similar works issued by competent authority must be enclosed failing which your tender will be summarily rejected.**

S.No	Description of the work	Name and address of the Employer	Contract No. and date.	Date of award of work	Stipulated date of completion	Actual date of completion	Value of completed work (in lakhs)	Reasons for delay	Penalty if any
<b>OTHER WORKS</b>									
1									
2									
3									
<p><b>Note:</b></p> <p>1. Tenderer must attach copies of the certificates issued by the Client.</p> <p>2. Only those works shall be considered for evaluation for which copies of the certificates issued by the client are attached</p>									

Signature of Contractor

Client

Architect

Contractor  
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SECTION – 5

**RESOURCES PERSONNEL**

DETAILS OF SKILLED AND TRAINIED MANPOWER INCLUDING ENGINEERS AND TECHNICAL STAFF PRESENTLY EMPLOYED

<b>S.No.</b>	<b>Name</b>	<b>Qualification</b>	<b>Designation</b>	<b>Total Experience (in years)</b>	<b>Remarks</b>
1					
2					
3					
4					
5					
6					
7					
8					
9					

Signature of Contractor

Client

Architect

Contractor  
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**DETAILS OF ENGINEERS AND TECHNICAL STAFF PROPOSED TO BE DEPLOYED ON THE PROJECT ALONGWITH BIO-DATA OF KEY PERSONNEL**

<b>S.No.</b>	<b>Name</b>	<b>Qualification</b>	<b>Designation</b>	<b>Total Experience (in years)</b>	<b>Remarks</b>
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

Note :

Tenderers are also required to attach the complete organization chart of the Engineering and Technical Staff proposed to be deployed on the project.

Signature of Contractor

Client

Architect

Contractor  
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SECTION – 6

**DETAILS OF TOOLS, PLANT AND MACHINERY (IN WORKING CONDITIONS) OWNED BY THE TENDERER**

S.No	Description	Make	Model & Year of Manufacture	Capacity	Condition	Nos. Available	Any other relevant information	Remarks
1								
2								
3								
4								

**Note :**

Signature of Contractor



## RESOURCES PLANT & EQUIPMENT

DETAILS OF TESTING, MEASURING AND INSPECTION EQUIPMENT AND FACILITIES FOR CALIBRATION OWNED

S.No	Description	Make	Model & Year of Manufacture	Capacity	Condition	Nos. Available	Any other relevant information	Remarks
1								
2								
3								
4								

**Note :**

Signature of Contractor

Client

Architect

Contractor  
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DETAILS OF SAFETY APPLIANCES AND EQUIPMENT OWNED

S.No	Description	Make	Model & Year of Manufacture	Capacity	Condition	Nos. Proposed to be deployed	Any other relevant information	Remarks
1								
2								
3								
4								

**Note :**

Signature of Contractor

Client

Architect

Contractor  
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**DETAILS OF PLANT MACHINERY PROPOSED TO BE DEPLOYED ON THE PROJECT**

<b>S.No</b>	<b>Description</b>	<b>Make</b>	<b>Model &amp; Year of Manufacture</b>	<b>Capacity</b>	<b>Condition</b>	<b>Nos. Available</b>	<b>Any other relevant information</b>	<b>Remarks</b>
1								
2								
3								
4								

Signature of Contractor

SECTION – 7

DETAILS OF ON GOING WORKS								
S.No.	Description of the work	Name and address of the Employer	Contract No. and date.	Date of award of work	Stipulated date of completion	Value of work as per order (in lakhs)	Value of work completed so far (in lakhs)	Remarks
1								
2								
3								
4								
5								
<p><b>Note :</b></p> <p>1. Please attach copies of the certificates issued by the Client.</p> <p>2. Only those works shall be considered for evaluation for which copies of the certificates issued by the client are attached</p>								

Signature of Contractor

Client

Architect

Contractor  
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## SECTION – 8

### **DOCUMENTS TO BE ATTACHED WITH THE TENDER BY THE TENDERER**

1. Details of all works and similar works completed in last FIVE years.
2. Annual Turnover for the last three years with supporting documents.
3. Registration of Company.
4. Partnership deed/Memorandum and Articles of Association of the firm.
5. Registration under Labour Laws.
6. GST Registration Certificate .
7. Details of Skilled and Trained Manpower including Engineers and Technical staff presently employed.
8. Details of Tools, Plants and Machinery (in working conditions) owned.
9. Details of Testing, Measuring and Inspection Equipment and facilities for calibration owned.
10. Details of Safety Appliances and Equipment owned
11. ISO 9000 certificate (if any).
12. **General Service tax registration certificate to be enclosed COMPULSORY**
13. Original Power of Attorney of the person signing the tender documents or photocopy duly attested by Notary Public.
14. Details of on-going works & supporting Documents.
15. Details of Plants and Machinery proposed to be deployed on the project.
16. Details of Engineers and Technical staff proposed to be deployed on the project along with organization chart and bio-data of key personnels.
17. Programme for execution of works.
18. Month wise Cash flow requirements.
19. Valid Electrical licenace

Signature of Contractor

Client

Architect

Contractor  
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### 3. FORM OF TENDER

**PROJECT: PROPOSED INTERIOR FURNISHING, ELECTRICAL, AIR CONDITIONING & INTERNAL CIVIL (SOFT CIVIL) WORKS FOR RENOVATION OF GROUND FLOOR AND SECOND FLOOR OF STATE BANK NIREEKSHAN BHAVAN, LINGAMPALLY POST, HYDERABAD, TELANGANA-500019.**

**REF : INTERIOR FURNISHING, ELECTRICAL, AC AND INTERNAL CIVIL WORKS.**

Dear Sirs,

I/We the undersigned have carefully gone through and clearly understood after visiting the site and the Tender drawings and tender documents comprising of the tender form, Notice to contractors, and conditions for building contract, Special Conditions, Specifications and Schedule of Probable quantities and Draft Agreement prepared by your Architects **M/S ABHIKRAM-S Architects, Interior Designers, Urban Planners, Valuers & Project Managers. #3-6-134, Flat No-302, SVC Royal DM Apartments, Street No-18, Himayat Nagar, Hyderabad-500029.**

I/We do hereby undertake to execute and complete the whole or part of the work (as desired by you) at the respective rates which/I/We have quoted for the respective items of the Probable Bill of Quantities and at which rate the items specified amount **to Rs. 2,47,42,515.00**

I/We are depositing as Earnest Money a sum of **RS. 2,50,000.00/-** in favor of The Assistant General Manager (Admin), Internal Audit Dept, Hyderabad payable at Hyderabad along with this tender for due execution of the work at my/our tendered rates together with any variations which shall be adjusted by the Architects at prices based on our tendered rates. I/We shall deposit further sum equivalent to 2% of tender amount, less EMD paid in the event of my/our tender being accepted, towards initial security deposit.

In the event of this Tender being accepted I/We agree to enter into an agreement as and when required and execute the contract according to your form of Agreement, within 15 days of receipt of work order, in default thereof, I/We do hereby bind my-self/ourselves to forfeit the aforesaid initial security deposit.

I/We further agree to complete the work covered in the said schedule of quantities within 12 months from the 15<sup>th</sup> day reckoned from the date of issue of the work order to commence the work or on which contractor is instructed to take possession of the site, whichever is later.

I/We agree not to employ Sub-contractors other than those that may be specifically approved by your Architects for this contract work.

I/We agree to and to get the work, workers, employees (of contractor, Architect & Employer) engaged on the work at site and all materials at site for execution of the work shall be insured comprehensive insurance including fire / accidents / rain/ floods / riots / CAR policy (contractor's all risk insurance policy) and the insurance shall cover the period from date of start of work to date of actual completion of work plus 3 months. In case part work is taken over by the Employer before final completion of the whole work, such parts may not be covered by the insurance from the date of taking over that part of work by the Employer. Draft Insurance deed will be got vetted by the Architect, before obtaining the same. All the rates quoted by me/ us are inclusive of the same in full and nothing extra shall be claimed anytime on account of any of these.

I/We agree to pay Income tax, to be deducted at source, at the rate prevailing from time to time on the Gross value of the work done, and the rates quoted by me/we are inclusive of same.

Yours faithfully,

Contractor's Signature

Address:

Date:

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## 4. NOTICE TO CONTRACTOR

ADDRESS:

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**PROJECT: PROPOSED INTERIOR FURNISHING, ELECTRICAL, AIR CONDITIONING & INTERNAL CIVIL (SOFT CIVIL) WORKS FOR RENOVATION OF GROUND FLOOR AND SECOND FLOOR OF STATE BANK NIREEKSHAN BHAVAN, LINGAMPALLY POST, HYDERABAD, TELANGANA-500019.**

**REF : INTERIOR FURNISHING, ELECTRICAL, AC AND INTERNAL CIVIL WORKS.**

Dear Sirs,

On behalf of our clients, The Assistant General Manager (Admin), State Bank of India, Internal Audit Department, Admin Wing, Corporate Centre, State Bank Nireekshan Bhavan, Lingampally Post, Hyderabad, Telangana - 500019. we have pleasure in inviting you to tender for the aforesaid work.

1. The scope of work broadly as given below is for Proposed Interiors for **PROPOSED INTERIOR FURNISHING, ELECTRICAL, AIR CONDITIONING & INTERNAL CIVIL (SOFT CIVIL) WORKS FOR RENOVATION OF GROUND FLOOR AND SECOND FLOOR OF STATE BANK NIREEKSHAN BHAVAN, LINGAMPALLY POST, HYDERABAD, TELANGANA-500019.**
2. **Tender Documents should be filled and uploaded on the site of M/S e-procurement Technologies Limited. E-mail: [anshul@auctiontiger.net](mailto:anshul@auctiontiger.net)**
3. The tenderer must obtain for himself, on his own responsibility and at his own expenses, all the information which may be necessary for the purpose of filling this tender and for entering into a contract for the execution of the same and must examine the drawings and inspect the site of the work and acquaint himself with all local conditions and matters pertaining thereto.
5. Each of the tender documents page is required to be signed by the person or persons submitting the tender in token of his/their having acquainted himself/themselves with the General conditions etc., as laid down. Any tender with any of the documents not so signed will be rejected.
6. The tender documents must be filled in English and all the entries must be made by hand and written in ink. If any of the documents are missing or un-signed, the tender shall be considered invalid.
7. Each and every one of all erasures and additions/alterations made, while filling the tender, must be attested by initials of the tenderer. Over-writing of figures must be attested by initials of the tenderer. Overwriting of figures is not permitted. Failure to comply with either of these conditions will render the tender void. After submission of the tender no advice or any change in rate or conditions will be entertained. All the rates should be quoted both in figures and words. In-case of any discrepancy in rates quoted in words/figures and the amounts, the rate quoted in words shall be taken as final and binding.



8. The tender shall be valid for a period of 365 days from the date of opening.
- 9 TOTAL SECURITY DEPOSIT: shall comprise of:
  - a. Earnest Money deposit
  - b. Initial Security deposit
  - c. Retention money
- 9.1 The intending tenderer shall deposit with The Assistant General Manager (Admin), Internal Audit Dept, Hyderabad, by Demand Draft a sum of **RS. 2,50,000.00/-** as the Earnest Money, as a guarantee of good faith, which amount shall be forfeited as liquidated damages, in the event of any evasive/direct refusal or delay in starting the work and or signing the contract. The deposit of the unsuccessful tenderers will be returned, without interest, immediately after a decision is taken regarding the award of the contract. The Earnest money of the successful tenderer will be adjusted towards Security Deposit. A tender not accompanied by Earnest money deposit will not be considered.
- 9.2 **The successful tenderer will have to pay further sum equivalent to 2% of his contract value, as initial Security Deposit (ISD) by means of a D.D./Banker's cheque in favour of The Assistant General Manager (Admin), State Bank of India, Internal Audit Department, Admin Wing, Corporate Centre, State Bank Nireekshan Bhavan, Lingampally Post, Hyderabad Telangana – 500019. Within 14 days from the date of issue of work order to commence work. The EMD and Security deposit thus paid shall be held by the State Bank of India as Security deposit, for due execution and fulfillment of the contract, till the completion of the work and defect liability period in all respects and shall not bear any interest.**
- 9.3 Together with the money paid under clause 11.1 & 11.2 above, further retention of 10% of the value of the work done will be deducted from every running bill, till total retention, including EMD and initial SD paid earlier, comes to 5% of the contract value, and same shall be held by the Bank as Total Security Deposit. On the Architect's certifying the completion of work, 50% of the total security deposit shall be released to the contractor along with the final certificate of payment, and the balance amount will be retained in the manner stated elsewhere for a further period of twelve months after the completion date recorded in completion certificate, issued by the Architects and agreed to by the Bank. Also refer condition 23(ii) .
10. Within one month of the receipt of intimation from the Architects of the acceptance of his/their tender, the successful tenderer shall be bound to sign an agreement, on a stamp paper in accordance with the Draft Agreement and conditions of contract attached herewith, but the work order or the written acceptance of a tender by the Employer will constitute a binding agreement between the Employer and the person tendering whether such formal contract is or not signed by the contractor.
11. All compensation or other sums of money payable by the contractors to the clients, under the terms of this contract, may be deducted from the Security Deposit or from any sum that may be or may become due to the contractor on any account whatsoever, and in the event of the Security deposit being reduced by reasons of any such deductions, the contractor shall within 15 days of being asked to do so make good in cash or cheque, any sum which have been deducted from his security deposit.

12. The rates quoted by the Contractor shall include all eventualities, such as heavy rain, sudden floods, accidents, fire, riots etc., which may cause damage to the executed work or which may totally wash out the work. Until the completion certificate is issued to the Contractors, neither the Architect nor the clients will be responsible for such damage or wash out of the construction work.

13. Time is the essence of the contract. The work should be completed within stipulated time as per NIT. The date of commencement shall be within ONE WEEK after confirmation.

a) The day two weeks from the date of issue of work order.

**Or**

b) The day on which the contractor receives the possession of the site which ever is later.

**Or**

c) The contractor is asked in writing to take over the possession of the site.

The successful contractor will have to give a CPM/PERT chart of various activities of work to be done so that the work gets completed within the stipulated time as per NIT. The chart shall be submitted within 15 days from the date of acceptance of the tender.

14. If the contractor fails to complete the work by the Scheduled date of completion or within any sanctioned extended time, he will have to pay liquidated damages at the rate of ½% of contract amount for each week of delay the work remains incomplete beyond the completion (Original / extended date), subject to maximum of 5% of the contract value (without extra items) as per clause 31 of the General conditions of contract.

15. The quantities contained in the Schedule are only indicative. The work as actually carried out and done will be measured up from time to time, for which payment will be made subject to the terms and conditions of contract.

16. The unit prices shall be deemed to be fixed prices. In case of extra items, a record of labour charges paid shall be maintained and shall be presented every month for extra/substituted items regularly to the Architects for checking. The settlement will be made based on figures arrived at jointly and taking into account unit prices of items of work mentioned in the contract assigned to the successful tenderers. In case, of extra items, where similar or comparable items are quoted in the tender, extra rates shall invariably be based on those tender rates to the extent reasonable.

17. Our clients, **The Assistant General Manager (Admin), State Bank of India, Internal Audit Department, Admin Wing, Corporate Centre, State Bank Nireekshan Bhavan, Lingampally Post, Hyderabad Telangana – 500019**, do not bind themselves to accept the lowest or any tender and reserve to themselves the right to accept or reject any or all tenders, either in whole or in part, without assigning any reason whatsoever for doing so.

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

19. The tenderer, apart from being a competent contractor must associate himself with agencies of the appropriate class who are eligible to tender for (1) INTERIOR (2) Air conditioning works (3) Fire fighting systems & (6) Interiors (fixed furniture), as the case maybe.
20. Release of security deposit:
  - i) 100% of Retention money will also be released as noted under(i) above, subject to submission of a Bank Guarantee, to the satisfaction of SBI for an equivalent amount. This Bank Guarantee shall be valid upto completion of defects/removal liability period plus 3 months.

**ARCHITECTS:**

**M/S abhikram-s  
architects, interior designers, urban planners  
valuers & project managers  
#3-6-134 FLAT NO 302  
SVC ROYAL DM APARTMENTS  
STREET NO 18, HIMAYATNAGAR  
HYDERABAD-500029  
ph.no 040-23261158  
abhikramarchitects@gmail.com**

## 5. ARTICLES OF AGREEMENT

ARTICLES OF AGREEMENT made the \_\_\_\_\_ day of \_\_\_\_\_ 2024 between

\_\_\_\_\_

of \_\_\_\_\_

(hereinafter called the “Employer”) of the one part and \_\_\_\_\_  
of \_\_\_\_\_ (hereinafter called “The Contractor”) of the other  
part, where as the 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 ABHIKRAM-S Architects, Interior Designers, Urban Planners, Valuers & Project Managers. #3-6-134, Flat No-302, SVC Royal DM Apartments, Street No-18, Himayat Nagar, Hyderabad-500029.**

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. \_\_\_\_\_ (Rupees \_\_\_\_\_)  
(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 described 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 ABHIKRAM-S Architects, Interior Designers, Urban Planners, Valuers & Project Managers. #3-6-134, Flat No-302, SVC Royal DM Apartments, Street No-18, Himayat Nagar, Hyderabad-500029.** 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 disregard or 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 lumpsum contract or a piece work contract, but is a contract to carry out work in respect of the entire works 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 natures of the work, of adding/substitution to or omitting any items of work or having portions of the same carried out through alternate agencies without prejudice to this contract.
7. Time shall be considered a 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 **AS PER NIT** subject to 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 dispute rising 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 :

ADDRESS :

EMPLOYER

WITNESS : SIGNATURE

NAME :

ADDRESS :

## 6. INDEX TO GENERAL CONDITIONS OF CONTRACT

1. Interpretations
2. Scope of Contract
3. Drawings and Specifications
4. Schedule of Quantities
5. Sufficiency of Schedule of Quantities
6. Errors in schedule of Quantities
7. Contractor to provide everything necessary
8. Authorities, Notices, Patent rights and royalties
9. Materials and workmanship to conform to description.
10. The setting out
11. Removal of all offensive matters
12. Opening up works
13. Contractor's superintendence and representative on the work
14. Dismissal of workmen
15. Access to works
16. Employer's representative/PMC
17. Assignment of sub-letting
18. Sub contractors
19. Variations not to vitiate contract
20. Measurement to works
21. Prices of Extras etc., Ascertainment of
22. Unfixed materials
23. Removal of improper work and materials
24. Defects after completion

25. Certificate of virtual completion
26. Other persons engaged by the Employer
27. Insurance in respect of damage to persons and property
28. Contractor's All risk policy
29. Minimum amount of third party Insurance
30. Commencement and completion
31. Delay and extension of time
32. Damages for Non-completion
33. Failure by contractor to comply with Architect's instructions
34. Architect's delay in progress.
35. Supervision of works
36. Prime cost and provisional sums
37. Certificates and payments
38. Notices
39. Termination of contract by the Employer.
40. Termination of contract by the contractor.
41. Matters to be finally determined by the Architects
42. Settlement of dispute (Arbitration)

## 7. GENERAL CONDITIONS OF CONTRACT

### 1. INTERPRETATIONS:

In constructing these conditions and the specifications, schedule of quantities and contract agreement, the following words shall have the meaning herein assigned to them except where the subject or context otherwise required:

- a. “Employer” shall mean **The Assistant General Manager (Admin), State Bank of India, Internal Audit Department, Admin Wing, Corporate Centre, State Bank Nireekshan Bhavan, Lingampally Post, Hyderabad Telangana – 500019** and shall include his/their heirs, legal representatives, assignees and successors.
- b. “Contractor” shall mean \_\_\_\_\_  
\_\_\_\_\_ and shall include his/their heirs, legal representatives, assignees and successors.
- c. “Banks Engineer” shall mean any Engineer who is employed by SBI or any other Engineer appointed from time to time by the Employer, and certified in writing to the Architect and the contractor, to act as Engineer for the purpose of the Contract in place of the said engineer.
- d. “Architects” shall mean any Engineer/ representative appointed by **M/S ABHIKRAM-S Architects, Interior Designers, Urban Planners, Valuers & Project Managers. #3-6-134, Flat No-302, SVC Royal DM Apartments, Street No-18, Himayat Nagar, Hyderabad-500029.**
- e. “Works” shall mean the works to be executed in accordance with contract specifications, quantities etc.
- f. “Contract” shall mean the Articles of Agreement, the General Conditions, Special Conditions, the Appendix, the Schedule of Quantities, Specifications and drawings, work order etc., attached hereto and duly signed.
- g. “Contract Price” shall mean the sum named in the Tender, subject to such amount additions thereto or deductions there from as may be made under the provisions, hereinafter contained.
- h. “Site” shall mean the Premises, on which the works are to be, provided, by the Employer or Architect for the purpose of the Contract.
- i. “Drawings” shall mean the drawings referred to in the contract etc., and any modifications of such drawings approved in writing by the Architect and the Bank and such other drawings as may from time to time be furnished or approved in writing by the Architect and Employer.
- j. “Notice in Writing” or written notice shall mean a notice in writing, typed or printed characters sent (unless delivered personally or otherwise provided to have been received) by registered post to the last known private or business address or registered office of the



address and shall be deemed to have been received, when in the ordinary course of post, it would have been delivered.

- k. "Act of Insolvency" shall mean any Act of Insolvency as defined by the Presidency Towns Insolvency Act, or the Provincial Insolvency Act or any act amending such original.
- l. "Net Prices" if in arriving at the Contract Amount, the contractor has added to or deducted from the total of the items of the Tender any sum, either as a percentage or otherwise, then the net price of any items, in the tender, shall be the sum arrived at by adding to or deducting from the actual figure appearing in the Tender, as the price of that item, a similar percentage or proportionate sum. Provided always that in determining the percentage or proportion of the sum so added or deducted by the contractor, the total amount of any Prime cost items and provisional sums of money shall be deducted from the total amount of the Tender. The expression "net rates" or "net prices" when used with reference to the contract or account shall be held to mean rates or prices so arrived at.
- m. "Virtual Completion" shall mean that the building is in the opinion of the Architect and Employer, sufficiently completed for occupation by the Employer, in relation to the scope of work of this contract.
- n. Words importing persons include firms and corporations. Words importing the singular only, also include the plural and vice versa, where the context requires.

2. **SCOPE OF CONTRACT:**

The contractor shall carry out and complete the said work in every respect in accordance with this contract with the directions of and to the satisfaction of the Architect and Employer. Architect, with the approval of the Employer, may issue further drawings and/or written instructions, details, directions and explanations, which are hereafter collectively referred to as "Architect's Instructions" in regard to:

- a. The variations or modifications of the designs, quality or quantity of works or the addition or omission or substitution of any work.
- b. Any discrepancy in the drawings or between the Schedule of Quantities/ or drawings and/or specifications etc.
- c. The removal and/or re-execution or any works executed by the contractor.
- d. The removal from the site of any material brought there on by the contractor, and the substitution of any other material there from.
- e. The dismissal from the works of any person employed thereupon.
- f. The opening up for inspection of any work covered up.
- g. The amending and making good of any defects under clause 24 "Removal of Improper works and Materials".

The contractor shall forthwith comply and fully execute any work comprised in such Architect's instruction, provided always that instructions, directions and explanations given to the contractor or his representative upon the works by the Architect shall, if involving a variation, be confirmed in writing by the contractor or within 7 days, and if not dissented from in writing within further 7 days by the Architect, such shall be deemed to be the Architects instructions within the scope of contract.

If compliance with the Architect's instructions as aforesaid involved work and/or expense and/or loss beyond that contemplated by the contract, then unless the same were issued owing to some breach of this contract by the contractors, the employer shall pay to the Contractor on the Architect's certificate, the price of the said work (as an extra to be valued as herein after provided) and/or expense and/or loss.

3. **DRAWINGS AND SPECIFICATIONS:**

The works shall be carried out to the entire satisfaction of the EMPLOYER and the Architect, in accordance with the signed contract document, drawings and specifications and such further drawings and details as may be provided by the Architect, and in accordance with such written instructions, directions and explanations, as may from time to time be given by the Architect and the SBI, whose decision as to the sufficiency and quality of the work and materials shall be final and binding on the contractor. If the work shown on any such further drawings or work that may be necessary to comply with any such instructions, directions or explanations, be in the opinion of the contractor outside the scope of work or reasonably could not be inferred from the contract, he shall before proceeding with such work, give notice in writing to this effect to the Architect and the SBI, and in the event of the Architects and the SBI agreeing to the same in writing, the contractor shall be entitled to an allowance in respect of such extra work as an authorized extra. If the Architect and the contractor fail to agree, as to whether or not there is an extra, then, if the Architect decided that the contractor is to carry out the said work, the contractor shall do so, and the question whether or not there is any extra and if so, the amount thereof, shall failing agreement be settled by Arbitration as hereinafter provided, but such reference shall in no way delay the fulfillment of this contract.

No drawing shall be taken as in itself an order for variation, unless in addition to the Architect's signature, it bears express works stating that it is intended to be such an order or bears a remark "VALID FOR CONSTRUCTION". No claim for payment for extra work shall be allowed, unless the said work shall have been executed under the provisions of clause 8 (Authorities, notices, patents, rights and royalties) or by the authorities, of directions in drawing of the Architect as herein mentioned.

One complete set of the signed drawings and a copy of contract document (specifications and schedule of quantities etc) shall be furnished by the Architect to the contractor. The Architect shall furnish within such time as he may consider reasonable, one copy of any additional drawings, which in his opinion may be necessary for the execution of any part of the work. Such copies shall be kept at the works, and the Architect or his representatives shall, at all reasonable times have access to the same and shall be returned to the Architect by the Contractor, before the issue of the final certificate. The original contract documents shall remain in the custody of employer.

Please refer clause 36 of Special conditions of contract.

4. **SCHEDULE OF QUANTITIES:**

The Schedule of Quantities unless otherwise stated shall be deemed to have been prepared in accordance with the Standard Procedure of the Architects and shall be considered to be approximate and no liability shall attach to the Architect for any error/variations that may be discovered therein.

Please refer Clause 5, 6 and 40 of Special conditions of contract.

5. **SUFFICIENCY OF SCHEDULE OF QUANTITIES:**

The contract shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the prices stated in the schedule of Quantities and/or the Schedule of Rates and Prices, which rates and prices shall cover all things necessary for the proper completion of the works.

Please refer clauses 5, 6 and 39 of Special Conditions of Contract.

6. **ERRORS IN SCHEDULE OF QUANTITIES:**

Should any error appear in the Schedule of Quantities, other than in the Contractor's prices and calculations, it shall be rectified and such rectification shall not vitiate the contract but shall constitute a variation of the contract and be dealt with as an authorised extra or deduction.

7. **CONTRACTOR TO PROVIDE EVERYTHING NECESSARY:**

The contractor shall provide everything necessary for the proper execution of works according to the true intent and meaning of the drawings, specifications and the Schedule of Quantities etc., taken together, whether the same may or may not be particularly shown or described there in, provided the same can be inferred therefrom. The several document forming the contract are to be taken as mutually explanatory to one another; detailed drawings and figured dimensions in preference to scale, and special conditions in preference to General conditions and particular specifications in preference to General specifications.

In case of discrepancy between the Schedule of Quantities, the specifications and/or the drawings, the following order of preference shall be observed:-

- i) Description of Schedule of Quantities.
- ii) Particular specifications and special condition, if any.
- iii) Drawings.
- iv) C.P.W.D. specifications.
- v) Indian Standard specifications of B.I.S.

If there are varying or conflicting provisions made in any document forming part of the contract, the Architect shall be the deciding authority, with regard to the intention of the document and his decision shall be final and binding on the contractor.

Any error in description, quantity or rate in schedule of quantities or any omission therefrom shall not vitiate the contract or release the contractor from the execution of the whole or any part of the

works expressed therein according to drawings and specifications or from any of his obligations under the contract.

The contractor shall make his own arrangements for providing water, for carrying out the work, at his own cost. If water from any source other than Municipal main is to be used for construction, the same shall be tested at the contractor's cost, and a report submitted to the Architect for his approval, before such water is used for the works. Temporary INTERIOR connections shall be obtained by the contractor to facilitate execution and completion of work at their cost and all the charges there of should be borne by them.

The contractor shall supply, fix and maintain at his cost, during the execution of any works, all the necessary scaffolding, staging, hoarding, watching and lighting during nights as well as by day required not only for the proper execution and protection of the said works, but also for the protection of the public and the safety of any adjacent road, streets, cellars, vaults, pavements, walls, houses, buildings and all other erections, matters or things. The Contractor shall take down and remove any or all such scaffolding, staging, etc., as occasion shall require or when ordered or so to do, and shall fully reinstate at his own cost and make good all the matters and things disturbed during the execution of the works to the satisfaction of the Architects.

Please refer clause 7 of Special conditions of contract.

8. **AUTHORITIES, NOTICES, PATENT RIGHTS AND ROYALTIES:**

The contractor shall conform to the provisions of the statutes relating to the works, and to the regulation and by laws of any local authority, and of any water, lighting and other companies or authorities, with whose systems the structures are proposed to be connected; and shall before making any variation from the drawings or specifications, that may be necessitated by so conforming, give to the Architects a written notice, specifying the variations proposed to be made and the reason for making it and apply for instruction thereon. In case, the contractor shall not within ten days receive such instructions, he shall proceed with the work conforming with the provisions, regulations or by laws in question.

The contractor shall bring to the attention of the Architect all notices required by the said acts, regulations or bylaws to be given to any authority, and pay to such authority or to any Public Officer all fees that may be properly chargeable in respect of the works, and lodge the receipts with the Architects.

The contractor shall indemnify the Employer against all claims in respect of patent rights, designs, trademarks or name or other protected rights in respect of any constructional plant, machine, work or material used for or in connection with 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 Architects, before any such infringement and received their permission to proceed, and shall himself pay all royalties, licence fees, damages, cost and changes of all and every sort that may be legally incurred in respect thereof.

Please refer clause 23 of special conditions of contract.

9. **MATERIALS AND WORKMANSHIP TO CONFORM DESCRIPTION:**

All materials and workmanship shall, so far as procurable be of the respective kinds specified in the Schedule of Quantities and/or specifications and in accordance with the Architect's instructions and the contractor shall on the request of the Architects furnish to them all invoices, accounts, receipts and the other vouchers to prove that the materials comply therewith. The contractor shall at his own cost arrange for and/or carry any test of any materials, which the Architect & Employer may require. The costs of materials used for testing, packing, transportation and testing shall be borne by the contractor and his quoted rates/amounts shall include all such expenses/contingencies.

9a. In case of non-availability of specified Make/brand of any material the alternate make/brand will be given by the Employer/Architect.

10. **THE SETTING OUT:**

The Contractor shall at his own expense, set out the works accurately in accordance with the plans and to the complete satisfaction of the Architect. The Contractor shall be solely 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. If at any time any error shall appear during the progress or on completion of any part of the work, the contractor shall at his cost rectify such error if called upon to the satisfaction of the Architects/Employer. The work shall from time to time be inspected by the Architect and/or his representatives, but such inspections shall not exonerate the contractor in any way from his obligation to remedy any defects, which may be found to exist at any stage of the work or after the same is completed, at his own cost.

11. **REMOVAL OF ALL OFFENSIVE MATTERS:**

All debris arising out of the work shall be disposed off as per the rules and regulations of the Local authorities concerned.

12. **OPENING UP WORKS:**

In the event of the Architect / Employer feels that the work is not carried out as per tender specifications, contractor at his cost shall open the concealed work at his cost for which no Extra cost will be paid.

12. **CONTRACTOR'S SUPERINTENDENCE & REPRESENTATIVE ON THE WORKS:**

The contractor shall give all necessary personal superintendence during the execution of the works and so long thereafter as the Architect may consider it necessary until the expiration of the "Defects Liability Period" stated in clause 25. The Contractor shall meet the Architect or his representative, whenever required and so informed by the Architect.

The Contractor shall maintain and be represented at site at all times, while the work is in progress, by a responsible and efficient foreman, approved by the Architect and who must thoroughly understand all the trades entailed and be constantly in attendance while the men are at work. Any directions, explanations, instructions or notices given by the Architect & Employer to such foreman shall be deemed to have been given to the contractor and shall be binding as such on the contractor. The Foreman shall be thoroughly conversant with the English language and should be able to read, write and speak English.

13. **DISMISSAL OF WORKMEN:**

The contractor shall on the request of the Architect and Employer immediately dismiss from the works any person employed thereon who may, in the opinion of the Architect and Employer be unsuitable or incompetent or who may misconduct himself, and such person shall not again be employed or allowed on the works without the permission of the Architect & Employer.

14. **ACCESS TO WORKS:**

The Architect, the Employer and any person authorised by them shall at all reasonable times have free access to the works and to the workshops, factories or other places where materials are being prepared or constructed by the contract and also to any place where the materials are lying or from which they are being obtained. The Contractor shall give every facility to the Architect and the Employer and their representatives for inspection and examination and test of the materials and workmanship. No person, unless authorised by the Architect or the Employer, except the representatives of Public authorities, shall be allowed on the works at any time. If any work is to be done at a place other than the site of works, the contractor shall obtain the written permission of the Architect for doing so.

15. **EMPLOYER'S REPRESENTATIVE/PMC:**

The Employer may appoint an assistant to the Engineer, any Site Engineer or Project Management Consultant (PMC), who shall be the representative of the Employer. The duties of the Employer's representatives are to watch and supervise the works and to test any materials to be used and of workmanship employed in connection with the works. He shall have no authority either to relieve the contractor of any of his duties or obligations under the contract, or except those expressly provided hereunder, to order any work involving delay or any extra payment by the Employer or any variation of or in the works.

The contractor shall afford the Employer's representative every facility and assistance for examining the works and materials and checking and measuring item and materials. Neither the Employer's representative nor any assistant to the Architect shall have power to revoke, alter, enlarge or relax the requirements of this contract, or to sanction any new-work, additions, alterations, deviations or omissions unless such an authority may be specially conferred by a written order of the Architect and Employer.

The Employer's representative shall have to give notice to the Contractor or his representing about the non-approval of any work or materials and such works shall be suspended or the use of such materials should be discontinued until the decision of the Architect is obtained. The work will from time to time be examined by the Architect or the Employer's representative, but such examinations shall not in any way exonerate the contractor from the obligation to remedy any defects, which may be found to exist at any stage of the work or after the same is completed. Subject to the limitations of the clause, the contractor shall take instructions only from the Architect and Employer.

16. **ASSIGNMENT OF SUB-LETTING:**

The works included in the contract shall be executed by the contractor and the contractor shall not directly or indirectly transfer, assign or underlet the contract or any part/share thereof or interest

therein without the written consent of the Architect and Employer, and no undertaking shall relieve the contractor from the full and entire responsibility of the contract or from active superintendence of the works during their progress.

17. **SUB-CONTRACTORS:**

All specialists, merchants, tradesmen, and others, executing any work or supply and fixing any goods for which prime cost prices or provisional sums are included in the Schedule of Quantities and/or specifications, who may be nominated or selected by the Architect and employer and hereby declared to be sub-contractors employed by the Contractor, are herein referred to as nominated sub-contractors. No nominated sub-contractors shall be employed on or in connection with the works, against whom the contractor shall make reasonable objection or (see where the Architect and contractor shall otherwise agree), who will not enter into a contract provided.

- a. The nominated sub-contractors shall indemnify the contractor against the same obligations in respect of the sub-contract as the contractor is under, in respect of this contract.
- b. The nominated sub-contractors shall indemnify the contractor against claims in respect of any negligence by the sub-contractor, his servants or agents or any misuse by him or them of any scaffolding or other plant, the property of the contractor or under any Workman's Compensation Act in force.
- c. Payment shall be made by the contractor to the nominated sub-contractor, within 14 days of receipt of the Architect's certificate, provided that before any certificate is issued, the contractor shall upon request furnish to the Architect proof that all nominated sub-contractor's account included in the previous certificates have been duly discharged; in default whereof the Employer may pay the same upon a certificate of the Architect and deduct the amount thereof from any sums due to the contractor. The exercise of this power shall not create any contract between Employer and Sub-contractor.

18. **VARIATIONS NOT TO VITIATE CONTRACT:**

The contractor shall when directed in writing by the Architect, omit from or vary works shown upon the drawings or described in the specifications or included in the priced schedule of quantities, but the contractor shall not make any alterations or additions to or omissions from the works or any deviations from the provisions of the Contract without such authorizations or direction in writing from the Architect and Employer.

No claim for any extra item or deviations shall be allowed, unless it shall have been executed by the Authority of the Architect and Employer as herein mentioned. Any such extra item or deviation is hereinafter referred to as an authorised extra item or deviation. No variations i.e., additions, omissions or substitutions shall vitiate the contract.

The rate of items not included in the bill of quantities shall be settled by the Architect and Employer in accordance with the provisions of clause 21, hereof.

19. **MEASUREMENTS OF WORKS:**

The Architect/PMC may from time to time intimate the Contractor that he requires the works to be measured and the contractor shall forthwith attend or send a qualified agent to assist

PMC/Architect's representative in taking measurements and calculations, and to furnish all particulars or give all assistance required by either of them.

Should the contractor not attend or neglect or omit to send such an agent, then the measurements and calculations, and to furnish all particulars or give all assistance required by either of them.

Should the contractor not attend or neglect or omit to send such an agent, then the measurements taken by the PMC/Architects representative approved by them shall be taken to be the correct measurements. The mode of measurements wherever not mentioned in contract documents be taken in accordance with the Indian Standard of Method of measurements of building works (I.S.1200 – 1958) and its revisions, if any. In case of any discrepancy between various contract documents on mode of measurements, the mode given in Bill of Quantities will take precedence over others.

The contractor or his agent may at the time of measurement take such notes and measurements as he may require.

All authorized extra works, omissions and all variations made without the Architect's knowledge, if substantially sanctioned by him in writing shall be included in such measurements.

22. **PRICES FOR SUBSTITUTIONS/EXTRA ETC., ASCERTAINMENT OF:**

Should it be found after the completion of the works from measurements taken (in accordance with the previous paragraph) that any of the quantities or amounts specified for the works in the priced schedule of quantities of work thus ascertained are less or greater than the amounts and/or tender or that any variations, is made, and any substituted/ extra (new) items have been executed, the valuation of such quantities/items, amounts or variations, unless previously or otherwise agreed upon, shall be made in accordance with the following rules:

- a. The net rates or prices in the original tender shall determine the valuation of the extra (additional quantities and or extra/substituted item of work), where that work is of a similar character and executed under similar conditions of the work priced therein. This applied to extra and substituted items of work to the extent, they are similar in nature to the items in the contract.
- b. The net prices given in the original tender shall determine the value of the items omitted, provided if omissions vary the conditions under which any remaining items of work are carried out, the prices for the same shall be valued under thereof.
- c. Where extra/substituted item of works are not of similar character (either partly & fully) and/or executed under similar conditions as aforesaid or where the omissions vary the conditions under which any remaining items of works are carried out or if the amount of any omission or additions relative to the amount of the whole of the contract works or to be any part thereof shall be such that in the opinion of the Architects the net rate or price contained in the priced schedule of quantities or tender or for any item of the work involves less or more beyond that reasonably contemplated by the Contractor or is by reason of such omission or addition rendered unreasonable for in-applicable, the Architect shall fix in consultation with the Employer such other rates or prices as in the circumstances he shall think reasonable and proper, which shall be final and binding on the contractor. For extra



and substituted items this will apply for portions of the items for which, items of similar nature are not available in the contract.

- d. Where extra and or substituted items of work cannot be properly measured or valued, the contractor shall be allowed based on the net local day work rates and wages for the district and prevalent market rates for materials etc., at the time of ordering that item; provided that in either case vouchers for wages paid specifying the daily time (and if required by the Architect, the workmen's name) and materials employed at or before the end of the week following that in which the work has been executed.

The measurements and valuations in respect of the extra and substituted items of work shall be completed within the "Period of final measurement" or within 3 (three) months from the completion of the contract works as defined under clause No.26 (certificate of virtual completion).

See Special Conditions of Contract Clause 44.

23. **UNFIXED MATERIALS:**

When any materials intended for the works shall have been placed at site by the contractor, such materials shall not be removed therefrom (except for the purposes of being used on the works) without the written authority of the Architect and Employer and when the contractor shall have received payment in respect of any certificate in which the architect shall have stated that he has taken into account the value of such unfixed materials on the works such materials shall become the property of the Employer and the Contractor shall be liable for any loss or damage to any such materials.

24. **REMOVAL OF IMPROPER WORK AND MATERIALS:**

The Architect shall, during the progress of the works, have power to order in writing from time to time the removal from the works, within such reasonable times as may be specified in the order, of any materials which in the opinion of the Architect and Employer are not in accordance with the specifications or the instructions of the Architect and Employer; and the substitution with proper materials and the removal and proper re-execution of any work, which has been executed with materials or workmanship, not in accordance with the contract/drawings and specifications or instructions etc., the contractor shall forthwith carry out such orders at his own cost. In case of default on the part of the contractor to carry out such orders, the Employer shall have the power to employ and pay other persons to carry out the same and all expenses consequent thereon or incidental thereto shall be borne by the Contractor, and shall be recoverable from the contractor by the Employer, or may be deducted by the Architect, from any money due or may become due to the contractor for this work or on any other account.

Instead of this procedure for work not done in accordance with the contract, the Architect and Employer may allow such work to remain, and in that case may make allowance for the difference in value together with such further allowance for damages to the Employer, as in his opinion may be reasonable. This allowance shall be recoverable from the contractor by the Employer, or may be deducted by the Architect, from any money due or may become due to the contractor for this work or on any other accounts. The decision of Architects in these matters shall be final and binding on the contractor.

25. **DEFECTS AFTER COMPLETION:**

Any defect, shrinkage, settlement or other faults which may appear with in the “Defects Liability Period” stated in the Appendix on Page 10 i.e. within 12 months after the virtual completion of the works arising in the opinion of the Architect and the Bank, from materials or workmanship not in accordance with the contract, shall upon the directions and writing of the Architect and Employer and within such reasonable time as shall be specified therein, be rectified and made good by the Contractor at his own cost. In case of default, the Employer may employ any other person to amend and make good such defects, shrinkage, settlements or other faults. All damages, loss and expenses consequent therein or incidental thereto shall be made good and borne by the contractor and such damage, loss and expenses shall be recoverable from him by the employer or may be deducted by the Employer, the damages, loss and expenses from any sums that may be due to the contractor or amount retained under condition 38 (Certificate and payment) and in event of the amount retained being insufficient recover the balance from the amount held against EMD & Security deposit under clause 10.1 & 10.2 on Page 5 or any other amounts due or may become due later.

26. **CERTIFICATE OF VIRTUAL COMPLETION:**

The contractors shall intimate in writing to the Architects, as and when the works are complete in all respects in order to enable the Architect to intimate the Employer to take possession of the same. The works shall not be considered as virtually completed, until the Architect has certified in writing that the same have been “Virtually completed” and accepted by the employed. The defects liability period shall commence, only from the date of such virtual completion certificate.

27. **OTHER PERSONS ENGAGED BY THE EMPLOYER:**

The Employer reserves the right to use the premises and any portions of the site for the execution of any work not included in this contract which he may desire to carry out through other persons, and the contractor is to allow all reasonable facilities for the execution of such work, except by special arrangement with the Employer. Such work shall be carried out in such a manner a not to impede the progress of the works included in the contract, and the contractor shall not be responsible for any damage or delay which may happen to or be occasioned by such work.

28. **INSURANCE IN RESPECT OF DAMAGE TO PERSONS AND PROPERTY:**

The contractor shall be responsible for all injury to persons, animals or things and for all structural and decorative damage to property, which may arise from operation or neglect of himself or any of his or sub-contractor’s employees, whether or any other cause whatever in any way connected with the carrying out of this contract. This clause shall be held to include, interalia any damage to buildings, whether immediately adjacent or otherwise, any damage to roads, caused to the buildings and works forming the subject of this contract by frost or other inclement weather. The contractor shall indemnify the employer and hold him harmless in respect of all and any expenses arising from any such injury or damage to persons or property as aforesaid and also in respect of any claim made in respect of injury or damage under any acts of government or otherwise, and also in respect of any award of compensation or damages consequent upon such claim.

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

The contractor shall indemnify the Employer against all claims which may be made against the Employer, by any member of the Public or other party, in respect of anything which may arise in respect of the works or in consequence thereof and shall at his own cost, effect and maintain until one month after the works are taken over by the Employer or three months after the date of completion of the contract with an approved office, a policy of Insurance in the joint names of the Employer and the contractor against such risks and signing of the contract. The contract shall also indemnify the employer against all claims which may be made upon the Employer whether under the Workmen's compensation act or any other statute in force during the currency of this contract or at common law in respect of any employees of the contractor or of any sub-contractor and shall at his own expense effect and maintain until one month beyond the virtual completion of the contract, with an approved office. A policy of Insurance in the joint names of the Employer and the Contractor against such risks and deposit such policy or policies with the Architects from time to time, during the currency of the contract. In default of the contractor insuring as provided above, the Architect on behalf of the Employer may so insure and may deduct the premiums paid from any money due or which may become due to the contractor.

The contractor shall be responsible for anything which may be excluded from the Insurance Policies above referred to and also for all other damages to any property arising out of and incidental to the negligent or defective carrying out of this contract however, such damage shall be caused.

The Contractor shall also indemnify the Employer in respect of any costs, charges or expenses arising out of any claim or proceedings and also in respect of any Award of or compensation of damages arising therefrom.

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

29. **CONTRACTOR'S ALL RISK POLICY:**

The contractor shall within 14 days from the date of commencement of the work insure the works at his cost and keep them insured until one month after the works are taken over by the Employer or three months after the date of completion whichever is earlier, against loss or damage by fire and usual risks other than fire against which insurers generally provide cover in a CONTRACTOR'S ALL RISK POLICY, with an insurer to be approved the Architects, in the joint names of the Employer and contractor (the name of the former being placed first in the policy), progressively for the full amount of the contract, in three stages, beginning with 1/3 of the contract value, and for any further sum as called upon to do so by the Architect, with the prior written consent of the Employer, the premium of such further sum being allowed to the contractor as an authorised extra. Such policy shall cover the property of the Employer only and Architects and surveyor's fees for assessing the claim and in connection with his services generally in reinstatement and shall not cover any property of the contractor of any subcontractor or employee. The contractor shall deposit the policy and receipts for the premiums paid with the Architects, within twenty one days of the date of commencement of work, unless otherwise instructed, as provided above failing which the employer or the Architect on his behalf may insure and may deduct the premium paid from any

money that may be due or that may become due to the contractor. The contractor shall as soon as the claim under the policy is settled, or the work reinstated by the insurers should they elect to do so, proceed with all due diligence with the completion of the works in the same manner as though the fire or other such risk had not occurred and in all respects under the same conditions of contract.

The contractor in case of rebuilding or reinstatement after fire or other such usual risk shall be entitled to such extension of time for completion as recommended by the Architect.

Please refer Special Conditions of Contract, clauses.

30. **MINIMUM AMOUNT OF THIRD PARTY INSURANCE:**

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

The minimum insurance cover for physical property, injury, and death is Rs. 20.00 lakhs per occurrence with the number of occurrences limited to four. After each occurrence contractor will pay additional premium necessary to make insurance valid for four occurrences always.

31. **COMMENCEMENT AND COMPLETION:**

The contractor shall be allowed admittance to the site on the "Date of Commencement" stated in the Appendix, and he shall thereupon and forthwith begin the works and shall regularly proceed with and complete the same (except such painting or other decorative work as the Architect may desire to delay) on or before the "Day of Completion" started in the Appendix subject nevertheless to the provisions for extension of time hereinafter contained.

Refer clause 9 & 36 of Special Conditions of Contract.

32. **DELAY AND EXTENSION OF TIME:**

If in the opinion of the Architect the works be delayed:

- a. by force majeure, or
- b. by reason of any exceptionally inclement weather, or
- c. by reason of proceedings taken on threatened by or dispute with adjoining or neighbouring owners or public authorities arising otherwise, than through the contractor's own default, or
- d. by the works or delays of the contractors or tradesmen engaged or nominated by the Employer or Architect and not referred to in the Schedule of Quantities and/or specifications, or
- e. by reason of civil, commotion, local combination of workmen or strike or lock-out affecting any of the buildings/traders, or
- f. by reason of the Architect's instructions as per clause 2, or

- g. In consequence of the contractor not having in due time, necessary instructions from the Architect, for which he shall have specifically applied in writing ahead of time, giving reasonable time to prepare such instructions.

The Architect shall make a fair and reasonable assessment for extension of time, for completion of the contract works which may be approved by the Employer.

In case of such strike or lock-out, the contractor shall as soon as possible, give written notice thereof to the Architect, but the contractor shall nevertheless constantly use his endeavours to prevent delay and shall do all that may reasonably be required, to the satisfaction of the Architect to proceed with the work.

33. **DAMAGES FOR NON-COMPLETION:**

If the contractor fails to complete the works by the date stated in clause 31 (date of completion) or within any extended time certified under clause 32 (extension of time) and if the Architect shall certify in writing on or before the date of issue of the certificate for the last payment to which the contractor may become entitled hereunder that the works could have been reasonably completed by the said date or within the said extended time, then the contractor shall pay to the Employer or allow the employer to recover from dues to the contractor on any account the sum stated in clause 16 of "Notice to contractors" (Page 6) (liquidated damages and not by way of penalty), subject to a maximum amount of 5% as stated in Appendix of General Conditions of contract (page 10) and as stated in clause 16 of "Notice to contractors"(Page 6) and such damages may be deducted from any money due or which may become due to the contractor.

The deduction of such sums shall not, however, absolve the contractor of his responsibility and obligations to complete the work in its entirety.

Please refer clauses 9 & 36 of special conditions of contract.

34. **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 Architects 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 contractors 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 contractors.

35. **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.

36. **SUSPENSION OF WORKS:**

If the contractor, except on account of any legal restraint upon the employer preventing the continuance of the works, or on account of any of the causes mentioned in the clause "Extension of time" or in the case of certificate being withheld or not paid when due, shall suspend works or in the opinion of the Architects, shall neglect or fail to proceed with due diligence in the performance of his part of the contract or if he shall more than once make default in the respects mentioned in clause 24 (removal of improper work and materials), the Employer through the Architect shall have the power to give notice in writing to the contractor required that the works be provided within a reasonable manner, and with reasonable despatch, such notice shall not be unreasonably given and must signify that it purports to be a notice under the provisions of this clause and must specify the acts or defaults on the part of the contractor upon which it is based. After such notice shall have been given, the contractor shall not be at liberty to remove from the site of works, or from any ground contiguous thereto, the site of works, or from any ground contiguous thereto, any plant or materials belonging to him which shall have been placed thereon for the purpose of work, and the Employer shall have lien upon such plants and materials to subsist from date of such notice being given until the notice shall has been complied with, provided always that such line shall not under any circumstances subsist after the expiration of 30 (thirty) day from the date of such notice given, unless the employer shall have entered upon and taken possession of the works and site, as hereinafter provided.

If the contractor shall fail for seven days after such notice has been given, to proceed with the works as therein prescribed, the Employer may enter upon and take possession of the works and site, and of all such plants, machinery and materials thereon intended to be used for the works, and the Employer shall retain and hold a lien upon all such plants, machinery and materials until the work shall have been completed, under powers hereinafter conferred upon him;

If the Employer shall exercise the above power, he may engage any other person to complete the works and exclude the contractor, his agents and servants from entry upon or access to the same, except that the contractor or any person appointed in writing may have access at all times during the progress of the works to inspect, survey and measure the works. Such written appointments or a copy thereof shall be delivered to the Architects before the person appointed comes on to the works and the Employer shall take such steps as in the opinion of the Architect may be reasonably necessary for completion the works, without undue delay or expenses using for that purpose the plant, machinery and materials above mentioned in so far as they as they are suitable and adopted to such use.

Upon the completion of the works, the Architects shall certify the amount of the expenses properly incurred consequent on and incidental to the default of the contractor as aforesaid and in completion the works by other persons.

Should the amount so certified as the expenses properly incurred be less than amount which should have been due to the contractor upon the completion of the works by him, the difference shall be paid to the contractor by the Employer, should the amount of the former exceed the later, the difference shall be paid by the contractor to the Employer. The Employer shall not be liable to make any further payments or compensations to the contractor for or on accounts of the proper use of the plant for the completion of the works under the provisions herein before mentioned other than such payments as is included in the contract.

After the works shall have been so completed by persons other than the contractor, under the provisions herein before contained, the Architect shall give notice to the contractor to remove his plan and all surplus materials as may not have been used in the completion of the works from the site.

If such plant and materials are not removed within a period of 14 days after the notice shall have been given, the Employer may remove and sell the same, holding the proceeds less the cost of the removal and sale, to the credit of the contractor. The Employer shall not be responsible for any loss sustained by the Contractor from the sale of the plant in the event of the Contractor not removing it after notice.

37. **PRIME COST AND PROVISIONAL SUMS:**

- a. Where “Prime Cost” (P.C.) prices or provisional sums of money are considered for any goods or works in the specifications or Schedule of quantities or deviations hereof, the same are exclusive of any trade discounts, or allowances, discount for cash, or profit which the contractor may require and or carriage and fixing.
- b. All goods or work, for which prime cost prices or provisional sums of money are considered may be selected or ordered from any manufacturer’s or firms, at the discretion of the Architect or the Employer. The Employer reserves to himself the right of paying directly for any such goods or work and the Architect may deduct the said prices or sums from the amount of the contract. Should any goods or works for which prime cost prices or provisional sums are considered or portions of same be not required, such prices or sums, together with the profits allowed for such additional amount as the Contractor may have allowed for carriage and fixing will be deducted in full from the amount of the Contract. Whether the goods be ordered by the Contractor or otherwise, the contractor shall at his own cost fix the same, if called upon to do so, and the contractor shall also receive and sign for such goods and be responsible for their safe custody as and from the date of their delivery upon the works.
- c. In cases in which provisional quantities of items/materials are contained in the contract, the contractor shall provide such materials and or execute such items to such amounts or to greater or lesser amounts as the Architect shall direct in his schedule of quantities.
- d. No prime cost sum or sums (or any portion thereof) shall be included in any certificate for payment to the contractor until the receipted accounts relating to them have been produced by the contractor to the Architect. Such accounts shall show all discounts and any sum or sums in respect of such discounts shall be treated as a trade discount. Provided always, that should the contractor in lieu of producing such receipted accounts, request the Architect in writing to issue a certificate to the Employer for such sum or sums, due either on account or in settlement to a sub-contractor direct, the Architect shall, upon satisfying himself that the sub-contractor is entitled to the same, so issue the certificate and such sum or sums be deducted from the amount of the contractor, at the settlement of accounts and any profit or sum to which the contractor is properly entitled, in respect of such sub-contract, and which is in conformity with the terms of contract as though the amount of such certificates to the sub-contractor has been included in a certificate drawn in favour of the contractor.
- e. If the contractor neither produces the receipt nor gives authority to the Architect to issue a certificate in favour of such sub-contractor direct, the Architect may upon giving the contractor SEVEN DAYS NOTICE in writing of his intentions to do so, issue to the sub-contractor such

certificate direct to the Employer and obtain a receipt from the sub-contractor, which receipt shall be deemed as a discharge for the amount of such certificates, as though given by the contractor. In such event, the contractor shall not be allowed any profit he may have added in the Schedule of Quantities upon such sub-contract.

- f. The exercise of the option before referred to by the Contractor and the issue of certificates, as before described to sub-contractor direct of certificates by the Architect, shall not however, relieve the contractor from any of the liabilities in respect of insufficient, faulty or in completed work of the sub-contractor for which he may be liable under the terms of the contract.

38. **CERTIFICATES AND PAYMENTS:**

The contractor shall be paid by the Employer after due checking and after making necessary correction from time to time, by instalments under Interim Certificates to be issued by the Architect on account of the works executed by the contractor based on the joint measurements taken by the PMC, the Architects representative and the contractors representative when in the opinion of the Architect, work to the approximate value named in the Appendix on Page 10 as “Value of work for Interim Certificates”, (or less at the reasonable discretion of the Architect & Employer) has been executed in accordance with the Contract, subject however, to a retention of the percentage of such value named in the Appendix hereto mentioned as “Retention Percentage for Interim Certificates”, until the total amount retained shall reach the sum named in the appendix as Total Retention Money, after which time the instalments shall be upto the full value of the work subsequently so executed plus such amount as he may consider proper on account of materials delivered upon the site by the contractor for use in the work and available on the date of billing.

And when the works have been virtually completed and the Architect shall have certified in writing that they have been so completed, the contractor shall be paid by the Employer after satisfying himself in accordance with the certificate to be issued by the Architect, the sum of money named in the Appendix as ‘Instalment after Virtual Completion’ being a part of the said Total Retention Money.

The Contractor shall be entitled to the payment of the final balance (balance security deposit/retention money) in accordance with the final certificate to be issued in writing by the Architect at the expiration of the period referred to as ‘The Defects Liquidation Liability period’ in appendix on page 10 hereto, from the date of virtual completion or as soon after the expiration of such period as the work shall have been finally completed and all defects made good according to the true intent and meaning hereof, whichever shall happen, provided always that the issue by the Architect of any Certificate during the progress of the works or after the completion shall not relieve the contractor from his liabilities in cases of fraud, dishonesty or fraudulent concealment relating to the works or materials or any matter dealt within the certificate, and in case of all such defects and insufficiencies in the works or materials, which reasonable examination would have disclosed. No certificate of the Architect shall by itself be conclusive evidence that any works or materials to which it relates are in accordance with the contract.

The Architect shall have power to withhold any Certificate, if the works or any parts thereof are not being carried out to his and employers satisfaction. The Architect may by any certificate make any correction in any previous Certificate, which shall have been issued by him. Payment upon the Architect’s Certificates shall be made within the period named in the Appendix as ‘Period of Honoring of Certificates, after such certificates have been delivered to Employer.



Please refer clause 37 & 46 of Special conditions of agreement.

39. **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 notice sent by registered post shall be deemed to be served at the time, when in the ordinary course of post it would be delivered.

40. **TERMINATION OF CONTRACT BY THE EMPLOYER:**

If the contractor being an individual or a firm, commit any act of insolvency, or shall be adjudged as Insolvent or being an incorporated Company shall have an order for compulsory winding up made against it or pass an effective resolution for winding up voluntarily or subject to the Supervision of the Court 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 requiring him to do so, to show to the reasonable satisfaction of the Architect that he is able to carry out and fulfill the contract, and to give security thereof, if so required by the Architect.

Or if the contractor (whether an individual, firm or incorporated Co.) 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 Architects/Employer first obtained.

Or shall charge or encumber this Contract or any payments due or which may be due to the Contract thereunder.

Or if the Architect shall certify in writing to the Employer that the contractor,

- 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 Architect written notice to proceed, or
- c. has failed to proceed with the works with such due diligence and failed to make such due progress as would enable the works to be completed within the time agreed upon, or
- d. has failed to remove materials from the site or to pull down and replace work for 7 days after receiving from the Architect written notice that the said materials or work were condemned and rejected by the Architect under these conditions, or
- e. has neglected persistently to observe and perform all or any of the acts, matters or things by this contract to the observed and performed by the Contractors for 7 days after written

notice shall have been given to the contractor requiring the contractor to observe or perform the same, or

- f. has to the detriment of good workmanship or in defiance of the Architect's instructions to the contrary, sublet any part of the contract.

Then and in any of the said cases the Employer with written consent of the Architect, may notwithstanding any previous waiver, after giving 7 days notice in writing to the contractor, determine the contract, but without hereby affecting the powers of the Architect to continue in force as full as if the contract has not been so determined and as if the works subsequently executed has been executed by or on behalf of the contractor.

And further, the Employer under recommendations of the Architect, by his Agents, or servants may enter upon and take possession of the works and all plants, tools, scaffoldings, sheds, machinery, and other equipment and materials also laying upon the premises or the adjoining lands or roads, and use the same as his own property or may employ the same by means of his own servants and workmen in carrying on and completion the works or by employing any other contractors or other persons to complete the works and the contractor shall not in any way interrupt or do not act, matter or thing to prevent or hinder such other contractor or other persons or person employed for completing and finishing or using the materials and plant for the works. When the works shall be completed or soon thereafter as convenient, the Architect shall give a notice in writing to the contractor to remove his surplus materials and plant, and should the contractor fail to do so, within a period of 14 days, after receipt thereof by him, the Employer shall sell the same by public auction and shall give credit to the contractor for the amount realised. The Architect shall thereafter ascertain and certify in writing under his hand when (if anything) what shall be due to or payable by the Employer for the value of the said plant and materials so taken possession of by the Employer, and the expense or loss, which the Employer shall have incurred due to the contractor, and the amount which shall be so certified shall thereupon be paid by the Employer to the contractor or by the contractor to the Employer, as the case may be.

41. **TERMINATION OF CONTRACT BY CONTRACTOR:**

If payment of the amount payable by the Employer under certificate of the Architect as provided for hereinafter shall be in arrears and unpaid for 30 (thirty) days after notice in writing requiring payment of the amount, as aforesaid shall have been given by the Contractor to the Employer, or if the Employer obstructs the issue of any such certificates, or if the employer commits any Act of insolvency, or if the Employer (being an incorporated company) shall have an order made against him or pass an effective.

Resolution for winding up, either compulsorily or subject to the supervision of the Court or voluntarily, or if the Official Liquidator or the Employer shall repudiate the contract, or if the Official Liquidator in any such winding up shall be unable within 15 days notice to him requiring him to do so, to the reasonable satisfaction of the contractor that he is not able to carry out and fulfill the contract and to give security for the same (including Earnest money), or if the works be stopped for any payments due, and to become due thereunder and if required under the order of the Architects or the Employer or by an injunction or other order of any court of law, then in any of the said cases, the contractor shall be at liberty to determine the contract by notice in writing to the Employer/Architect, and he shall be entitled to recover from the Employer, payment for all works

executed and for any losses he may sustain, upon any plant or materials supplied or purchased or prepared for the purpose of the contract.

In arriving at the amount of such payment, the net rates contained in the contract shall be followed, or where the same may not apply, valuation shall be made in accordance with clause 22 thereof.

42. Matters to be finally determined by the Architects and the Bank (Called excepted matters) – (refer 43(a) below), which shall be final, conclusive and binding on the following matters:
- a) Instructions
  - b) Transactions with local authorities
  - c) Proof of quality of materials
  - d) Assigning or under letting of the contract,
  - e) Certificate as to the causes of delay on the part of the contractor and justifying extension of time or otherwise,
  - f) Rectification of defects pointed out during the defects liability period.
  - g) Notice to the contractor to the effect that he is not proceeding with due diligence.
  - h) Certificate that the contractor has abandoned the contract.
  - i) Notice for determination of the contract by the Employer.

43. **ARBITRATION:**

- a. When the contractor is dissatisfied with the decision of the Architect/Employer, the contractor is required to give a notice to the Employer within 30 days of the receipt of such decision, for the appointment of the Arbitrator for the settlement of the outstanding disputes.
- b. The Assistant General Manager, State Bank Of India, Premises and Estate Department, Local Head Office, Bank Street, Koti, HYDERABAD shall be appointed to refer those disputes for adjudication to a sole arbitration.
- c. It is also a term of the contract that if the contractor does not make any demand for Arbitrator in respect of any claims within 90 days of receiving the intimation from the Bank that the final bill is ready for payment, the claims if any received after 90 days period shall be absolutely barred from reference to the Arbitrator.
- d. All disputes or differences of any kind whatsoever, which shall at any time arise between the parties hereto touching or concerning the works or the execution or maintenance thereof this contract, or the rights touching or of this contract, effect thereof, or to the rights or liabilities of the parties arising out of or in relation thereto, whether during progress or after determination, foreclosure or breach of the contract (other than those in respect of which the decision expressed to be final and binding in cases listed out in condition 40 above), Architects shall, after written notice to either party to the contract and to the appointing Authority, who shall be appointed for this purpose by the employer refer those disputes for adjudication to a sole arbitrator, to be appointed as hereinafter provided.
- e. For the purpose of appointing the sole arbitrator referred to above, the Appointing authority will send, within thirty days of receipt by him of the written notice aforesaid, to the contractor a panel of three names of persons, who shall be presently unconnected with the organization for which the work executed.

- f. The contractor shall on receipt by him of the names as aforesaid, select any one of the persons named to be appointed as a sole arbitrator and communicate his name to be appointed as a sole arbitrator to the Appointing Authority, within thirty days of receipt of the names by him. The Appointing Authority shall thereupon without any delay appoint the said person as the sole arbitrator. If the contractor fails to communicate such selection as provided above within the period specified, the Appointing Authority shall make the selection and appoint the selected person as the sole arbitrator.
- g. If the Appointing Authority fails to send to the contractor the panel of three names as aforesaid within the period specified, the contractor shall send to the appointing authority a panel of three names of persons, who shall be unconnected with either party. The Appointing Authority shall on receipt by him of the names as aforesaid select any one of the persons named and appoint him as the sole arbitrator. If the Appointing Authority fails to select the person and appoint him as the sole arbitrator within 30 days of receipt by him of the panel and inform the contractor accordingly, the contractor shall be entitled to appoint one of the persons from the panel as the sole arbitrator and communicate his name to the Appointing Authority.
- h. If the Arbitrator so appointed is unable or unwilling to act or resigns his appointment or vacates his office due to any reasons whatsoever, another sole arbitrator shall be appointed as aforesaid.
- i. The work under the contract, shall however, continue during the arbitration proceedings and no payment due or payable to the contractor shall be withheld on account of such proceedings.
- j. The arbitrator shall be deemed to have entered on the reference, on the date he issues notice to both the parties, fixing the date of first hearing.
- k. The arbitrator may from time to time, with the consent of the parties, enlarge the time for making and publishing the award.
- l. The Arbitrator shall give a separate award in respect of each dispute or difference referred to him. The Arbitrator shall decide each dispute in accordance with the terms of the contract and give a reasoned award. The venue of arbitration shall be such a place, as may be fixed by the Arbitrator in his sole discretion.

The fees, if any, of the Arbitrator, if required to be paid before the award is made and published, shall be paid half and half by each of the parties. The costs of the reference and of the award including the fees, if any, of the Arbitrator, who may direct to any by whom and in what manner such costs or any part there of shall be paid and may fix or settle the amount of costs to be so paid.

- m. The award of the Arbitrator shall be final and binding on both the parties.
- n. Subject to aforesaid, the provisions of the Arbitration and Conciliation Act, 1996, or any statutory modifications or re-enactments thereof, and the rules made thereunder, and for time being in force, shall apply to the arbitration proceedings under this clause.

## 8. INDEX TO SPECIAL CONDITIONS OF CONTRACT

1. Inspection of drawings
2. Contractor to visit site
3. Execution of work (Prices to include)
4. Schedule of Quantities
- 6a. Quantities liable to alterations
- b. Filling of tenders
7. Access for inspection
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9. Program of works
10. Water and Electricity
20. Procurement of materials
21. Facilities to other contractors
22. Testing
23. Site meetings
24. Custody and security of materials
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28. Measurements to be recorded before work is covered up.
29. Working at night or on holidays.
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52. Maintaining Registers at site
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## 9. SPECIAL CONDITIONS OF CONTRACT

### 1. INSPECTION OF DRAWINGS:

Before filling in the tender, the contractor will have to check up all drawings and Schedule of quantities, and will have to get immediate clarifications from the Architect on any point, that he feels is vague or uncertain. No claim/damages or compensation will be entertained on this account.

### 2. CONTRACTOR TO VISIT SITE:

Each tenderer must, before submitting his tender, visit the site of works, so as to ascertain the physical site conditions prices and availability and quality of materials according to specifications before submitting the quotations. No excuse regarding non-availability of any materials or changes in the price will be entertained or extra allowed on that account.

The existing adjacent buildings belonging to Govt/private which are in close proximity of the proposed Interiors, hence the contractor shall cater for all arrangements to carry out the work without causing any disturbance to the occupants by providing screens with bamboo matting or other suitable material approved by Architects/Engineer. The contractor shall ensure that no dust or construction material falls near/around the existing buildings.

### 3. EXECUTION OF WORK (PRICES TO INCLUDE):

- i) The whole of the work as described in the Contract (including the Schedule of Quantities, the specifications and all drawings pertaining thereto) and as advised by the Architect & employer from time to time is to be carried out and completed in all its parts to the entire satisfaction of the Architect & Employer. Any minor details of construction, which may not have been definitely referred to in this contract, but which are usual in sound building, road and all construction practice and essential to the work, are deemed to be included in this contract. Rates quoted in the Tender is inclusive of transportation and other over heads.

The rates quoted in the tender should also include all charges for:

- a)
1. Carrying
  2. Hauling
  3. Labour
  4. Fixing
  5. Watering
  6. Cleaning
  7. Making good and
  8. Maintenance etc.
- b) The contractor should arrange timely at his cost for all required.
- i) Plant, machinery, scaffolding, formwork, ladders, ropes, nails, spikes, shuttering, temporary supports, platforms, tools, all materials etc., required for executing the work, and protecting them from weather and other normal/natural causes.
- ii) Covering/protecting for the walling and other works, during inclement weather, strikes etc., as and when necessary and or as directed.

- iii) All temporary canvas covers/covering, lights, tarpaulin, barricades, water shoots etc.
  - iv) All stairs and steps, thresholds and any other requisite protection for the works.
  - v) All required temporary weather-proof sheds at such places and in a manner approved by the Architect, for the storage and protection of materials, against the effects of sun and rain.
  - vi) All required temporary fences, lighting/sign-boards etc., guards, approaches and roads as may be necessary for execution of the contract works and for safeguarding the public.
- c) The Architect & Employer will be the sole judge in deciding as to the suitability or otherwise of the tools/formwork/machinery or plant that may be brought to the work site by the contractor for the proper execution of the work.
  - d) The rates quoted by the tenderer in the Schedule of Probable items of work will be deemed to be for the finished work.

5. **SCHEDULE OF QUANTITIES:**

The Schedule of quantities forms part of the contract, but the Employer reserves the right to modify the same or any part thereof as per variation clause stated herein below. The contractor shall not be allowed any compensation or damages for the work which is so omitted or cancelled or added or substituted by the Architect & Employer.

Please refer clause 4 of General Conditions of Contract.

6.a. **QUANTITIES LIABLE TO VARY:**

This clause applies for unlimited variations (+ or -) for items of foundations and those executed below plinth level. For all other items, only in case where + variations of any item exceeds 100% of Quantities of respective items given in the schedule of quantities of the contract, such additional quantities of those items shall be treated as extra items and valued as per clause 45 of special conditions of contract, considering of that rates for these items cannot be derived from the contracted items of work.

The quantities indicated in the bill of quantities are only approximate, and hence may vary on either side (+ or -) for accomplishing the works enunciated under the scope of works, in accordance with designs, drawings and specifications and or instructions of the Architect & Employer. Variations may also occur, consequent upon addition or deletion or substitution of particular items, change of designs or specifications during the course of execution. The contractor, in either case, is bound to carryout the modified quantities upto +100% (plus one hundred percent) variation, without any enhancement in rates and at the same rates as per accepted original tendered rates.

Please refer clause 4, 5 & 6 of General conditions of contract.



b. **FILLING OF TENDERS: Rates of each item to be filled**

7. **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, gangways 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.

Refer clause 7 of General Conditions of Contract.

8. **DIMENSIONS:**

In all cases figured dimensions are to be accepted in preference to scaled sizes. Large scale details shall take precedence over small scale details/drawings. In case of any discrepancy, the contractor shall ask for a clarification, before proceeding with the work. Accordingly, if any work is executed without prior clarification, it is liable to be rejected and shall not be paid for,

9. **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 authorised by the Architect and Employer, to ensure the completion of construction work ins 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 labourers 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 programme 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.

Please refer clause 29 & 30 of General Conditions of contract.

10. **OFFICES, STORES, SHEDS ETC., ON THE SITE:**

- a. The contractor shall provide for all necessary storage on the site, in a specified area for all materials, in such a manner that all such materials, tools etc., shall be duly protected from damages by weather or any other cause. Stores for storage of cement shall have all weather proof floors, walls and roof and have proper locking arrangements and must be secure. All

these must be maintained till the work is completed and so certified by the Architect. Necessary and adequate watch and ward for all such accommodations and stores shall be provided for by the contractor at his cost and same included in the rates/amounts quoted by him. All such stores shall be cleared away and the ground left in good and proper order on completion of this contract unless otherwise expressly mentioned herein.

- b. All materials which are stored on the site such as plywood, false ceiling material etc., shall be stacked in such a manner as to facilitate rapid and easy checking of quantities of such materials and prevent deterioration in quality due to water etc.

11. **WATER AND ELECTRICITY: (Electricity boned by the contractor)**

Contractor shall make his own and adequate arrangements for water required for drinking and construction purposes and also for required electric supply at site for satisfactory execution and completion of the work, at his own cost. The contractor shall get the water used for construction purpose tested periodically as per relevant BIS codes at his cost, and shall get the same approved from Architect and clients before using such water for the work.

12. **PROCUREMENT OF MATERIALS:**

Contractor shall procure all the materials for the work from the open market. Time is the essence of the contract. Acceptance of the completion date by the contractor shall mean that he has taken into consideration the availability of all materials of approved make and quality in sufficient quantities at respective markets/sources, to enable him to complete the entire work in the stipulated period.

Contractor will get samples of all materials approved by the Architect and employer, before placing order/purchase/procurement. They shall conform to relevant B.I.S. codes and or tender specifications as applicable.

For all materials, the contractor shall quote for the best quality of the materials of best make/source or supply and they should be got approved by the architect and employer, before procurement.

In case sufficient quantities of approved quality materials from approved sources are not available in time, contractor may have to procure the same from neighbouring areas even with longer leads, as required and directed, at no extra cost.

Please refer clause 9 of General Conditions of contract.

13. **SANITARY ACCOMMODATION IN SITE:**

The contractor shall provide and maintain at his own cost and expense adequate closet and sanitary accommodation for the use of his workmen and others in accordance with the rules and regulations of the relevant local authorities.

14. **FACILITIES TO OTHER CONTRACTORS:**

The contractor shall give full facilities and co-operation to all other contractors working at site doing plumbing, INTERIOR, civil works etc., as directed by the Architect & Employer and shall arrange his programme 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.

15. **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 carryout 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 works 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 so 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 dues 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) CPWD norms.
- c) Manufacturer's Specifications.

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

17. **SITE MEETINGS:**

A senior representative of the contractor shall attend weekly meetings at works site; and in additions, 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.

18. **CUSTODY AND SECURITY OF MATERIALS:**

The contractor shall be responsible for the custody and security of all materials and equipment at site and he will provide full time watchman/watchmen to look after his materials, stores, equipments etc., including cement and steel at site and ensure that at no time unauthorised persons gains any access at works site.

23. **NOTICES:**

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.

Please refer clause 8 of General Conditions of Contract.

24. **STATUTORY REGULATIONS:**

The whole of the work including sanitation and INTERIOR is to be complied with, as per the requirements and bylaws of the relevant statutory authorities, including Contract Labour (Regulation and Abolition) Act, 1970 of Central Government.

25. **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.

Refer clause 20 of General Conditions of Contract.

26. **WORKING AT NIGHT OR ON HOLIDAYS:**

The contractor can carry out major work at night, only with prior permission of the Site Engineer of Employer/Architect and with proper supervision. However, all concrete work will be carried out only during the day light.

**WORKS AT NIGHT:**

If the contractor is required to do preliminary works at night, in order to complete the work within the Time Schedule, the contractor shall provide and maintain at his own cost necessary and sufficient barricades/lights etc., to enable the work to proceed satisfactorily without danger. Approaches to the site also shall be sufficiently lighted by the contractor.

27. **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.

28. **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.

29. **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.

30. **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, huts etc., belonging to the contractor. The site shall be delivered in a clean and neat condition, as required by Architect, within a period 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.

31. **POSSESSION OF BUILDINGS/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.

Please refer Appendix to General Conditions of contract.

32. **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.

33. **INFORMATION TO BE SUPPLIED BY THE CONTRACTOR:**

The contractor shall furnish to the architect & Employer the following from time to time:

- a. Detailed industrial statistics regarding the labour employed by him, etc., every month (within 5<sup>th</sup> of succeeding month),
- b. The Power of Attorney, name and signature of his authorised representative, who will be in charge for the execution of work.
- c. The list of technically qualified persons (to be approved by the Architect) employed by him for the execution of the work within 15 days from date of start of work,
- d. The total quantity and quality of materials used for the works, every month within 5<sup>th</sup> of succeeding month.

Last para of clause 33:

Failure to submit any of these details in time, shall be treated as a breach of the contract and likely to result in,

- i) Levying a fine of Rs.500 for each default for each month, and or
- ii) Withholding payments, otherwise due.
- iii) For the periods for which name of technically qualified persons are not given or for which such persons are not employed, recoveries shall be made at Rs.7,500/- per month for each month of default.

In all these matters the decision of the Architect shall be final and binding.

See clause 41 also.

34. **FORCE MAJEURE :**

Neither party shall be held responsible by the other for breach of any condition of this Agreement, attributable to any “Act of God”, Act of State, Strike, lock-out or control or any other reason, beyond the control of the parties and any breach of clauses arising from such Force Majeure conditions as aforesaid shall not be regarded as breach of the provisions of this Agreement.

35. **ARCHITECT’S DRAWINGS AND INSTRUCTIONS:**

A set of major drawings, along with the contract documents shall be provided to the contractor. If any clarification or further drawings are required by the Contractor during or before the start of construction work, the contractor shall inform the Architects and the SBI sufficiently in advance in writing to provide the same. Working details will be given to the Contractor from time to time, during the progress of work, as and when required. In case, any other drawing/detail is required by the contractor, he will give a minimum of fifteen days notice to the Architect.

Refer clause 2 & 3 of General conditions of contract.

37. **COMPLETION OF WORK AND LIQUIDATED DAMAGES:**

The work shall be completed within the Stipulated time as per NIT, and reckoned as under:  
WITHIN ONE WEEK AFTER CONFIRMATION.

- (a) The day two weeks from the date of issue of work order.

or

- (b) The day on which the contractor receives the possession of the site – whichever is later.

or

- (c) The contractor is asked in writing to take over the possession of the site. Time is the essence of the Contract. The Contractor shall strictly adhere to the programme/chart agreed to. In case the contractor fails to complete the work as mentioned above, the liquidated damages may be imposed at the rate of 0.5% per each week (or part thereof) of delay, subject to a maximum of 5% of contract amount.

Refer clause 30 & 31 of General Conditions of contract.

38. **BILLS OF PAYMENTS:**

The minimum value of work for interim payments will be Rs. 25.00 lakhs, as stated in Appendix. The contractor shall submit interim bills, once a month on the basis of joint measurements recorded at site by the contractor's Employer's and the Architects representatives. The bill will be certified by the Architect within 15 working days from the date of submission of the bill by the contractor, and the Employer will make payment as stated in the Appendix to General Conditions of Contract. All such interim payments shall not be considered as an admission of the due performance of the contract or any part thereof in any respect and shall not preclude the requiring of bad unsound and imperfect or unskilled work to be removed and taken away and reconstructed or re-erected at contractor's cost, all as per Employer and Architect's instruction and directions.

39. **WORKMANSHIP:**

Quality of materials and workmanship shall conform strictly to specifications given/stipulated in the tender/contract, and contractor will ensure that the best quality of work will be done to the satisfaction of the Architect and Employer, with strict control on the materials, workmanship and supervision.

Refer clause 9 of General Conditions of Contract.

40. **SCHEDULE OF QUANTITIES:**

Quantities mentioned in the Schedule of Quantities, included in the contract, are approximate and are subjected to variations as per actual site conditions & requirements and as directed by the Architect & Employer. The work shall be executed and completed accordingly.

Refer clause 4, 5 and 6 of General Conditions of Contract.

41. **SITE SUPERVISION:**

The contractor shall appoint at his own cost competent and adequate number of qualified Engineers at site, for (1a) joint measurements and preparations of bills. (2b) for testing materials at site and outside laboratory. (c) for concreting and reinforcement work. (d) for other general supervision. Their appointment shall be approved by the Architect & Employer. The site engineers shall not be removed from the site without the written consent of the Architect & Employer.

See clause 33 above also.

42. **ENGAGEMENT OF APPRENTICES:**

The Contractor shall during the currency of the contract, when called upon by the clients, engage and also ensure engagement by sub-contractors and others employed by the contractor in connection with the works such number of apprentices in the categories mentioned in the act and for such period as may be required by the clients. The contractor shall train them as required under the Apprentice Act 1961 and the Rules made thereunder and shall be responsible for all obligations of the clients under the said Act, including the liability to make payment of apprentices, as required under the said Act.

43. **RATES:**

Contractor shall quote all the rates both in figures and in words and any alterations shall have to be initialled by the contractor. Rates quoted by the contractor for the same item in different schedules shall be same, and in case different rates are quoted, the lowest will be taken as correct and the schedule corrected accordingly. In case of discrepancy between rates given in words and figures or in the amount worked out, the following procedure will be followed:

In case of item rate tender:

The tenderers shall quote their 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. If no rate is quoted for a particular item the contractor shall not be paid for that item when it is executed.

The amount of each item shall be calculated and the requisite total is given. In case of discrepancy between the unit rate and the total amount calculated from multiplication of unit rate and the quantity the unit rate quoted will govern and the amount will be corrected.

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

The tenderer should not change or modify or delete the description of the item. If any discrepancy is observed he should immediately bring to the knowledge of the Architect / SBI.

44. **INCOME TAX:**

Income tax shall be deducted at source by the client from the contractor's interim and final bill payments as required by law.

45. **EXTRA/SUBSTITUTED ITEM RATES:**

Such items shall be executed as per directions/instructions of the Architects of the employer.

The work on extra/substituted items shall be started only after the receipt of written order from the client/Architect. Rates for additional/extra or substituted (altered) items of work, which are not covered in the contract cannot be derived from the contract item rates either in full or partly, shall be calculated on the basis of actual costs plus 15% for overhead and profit etc., only to the extent not derivable from the contract item rates.

See clause 21 of General Conditions of Contract.

46. **SERVICES DRAWINGS/SHOP DRAWINGS/CATALOGUE:**

After getting approval from the Architect & Employer, the contractor shall submit to the concerned local authorities necessary services drawings showing layouts etc., for getting approval of the schemes. On completion, the contractor shall arrange to get Drainage Completion Certificate and other Certificate necessary for obtaining Building Completion certificate. The contractor shall



furnish completion drawings of all services in triplicate, showing the work as actual executed, along with levels. Contractor shall submit for approval 4 copies of shop drawings/ catalogue/ equipment characteristics/ manufacturer's specifications, drawings etc., as and when required and directed by the Architect & Employer. Costs of all these are deemed to have been included in the respective item rates quoted by the contractor and nothing extra shall be paid on account of any of these requirement/acts.

47. **PAYMENT:**

No payment whatsoever shall be made by the Employer, if the Contractor abandons the work, due to any site difficulties etc.,

See clause 36 & 37 of General conditions of contract.

48. **PERMISSION:**

The contractor shall also obtain necessary permission approvals from the relevant authorities shall be obtained by the contractor at no extra cost.

49. **MAINTAINING REGISTERS AT SITE:**

The contractor shall maintain registers for consumption of various specials, testing of materials etc., in the proforma which shall be given by the Architect & Employer from time to time.

50. **AGREEMENT:**

The successful contractor shall be required to enter into an agreement in accordance with the Draft Agreement and Schedule of Conditions etc., within 15 days from the date the contractor is advised by the Architect & Employer that his tender has been accepted. The contractor shall pay for all stamps and legal expenses incidental thereto. However, the written acceptance of the tender by the Employer, will constitute as a binding contract between the Employer and contractor, whose tender has been accepted, whether such formal agreement is or is not subsequently executed.

51. **INSURANCE:**

The contractor shall provide insurance in respect of damage to persons and property and firm insurance as per clause 27 and 28 of General conditions of contract. In addition he will also insure against riots and civil commotion. The insurance shall also cover third party and all the persons working at site and visitors including contractor's, worker's, Architect's and clients people, other contractor's workers etc. The contractor shall indemnify the Employer against any claim or compensation or mishaps of whatsoever nature at site during the progress of work.

The contractor shall prove to the Architect/Client from time to time that he has taken out all the insurance policies as required and directed and has paid the necessary premium for keeping the policies valid as per clause 27 & 28 of the General Conditions of Contract.

In case of failure by the Contractor or sub-contractor to effect and keep in force the insurance policies, then the client, without being bound to, may pay such premiums as may be necessary and deduct the same from any money due or which may become due to the contractor or recover the same as a debt due from the contractor.

52. **INDEBTEDNESS AND LIENS:**

The contractor agrees to furnish the Employer from time to time, during the progress of the work as requested, verified statement showing the contractor's total outstanding indebtedness in connection with the work covered by the contract. Before final payment is made, the Employer may require the contractor to furnish the Employer with satisfactory proof that there are no outstanding debts or liens in connection with the contract. If during the progress of the work, the contractor shall allow any indebtedness to accrue to sub-contractor or other and shall fail to pay or discharge same within five (5) days after demand, then the Employer may withhold any money due to the contractor until such indebtedness is paid, or apply the same towards the discharge thereof.

53. **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.

54. **PHOTOGRAPHS:**

The contractor at his own cost shall take photographs of site and individual buildings during the progress of the work as directed by the Architect/Client and submit two copies of each photograph with minimum size 20 cm x 15 cm to the client/Architect.

55. **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 all 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, plum bob, level 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 contractor on this account.

56. **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 there mentioned elsewhere.

57. **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.

58. **AS BUILT DRAWINGS**

The contractor shall prepare and submit a set of as-built drawings, duly certified by the Architect. The set consists of 2 soft copies and 3 sets of hard copies.

## 10. GENERAL AND TECHNICAL SPECIFICATIONS

1. **These specifications are for the work to done, items to be supplied and materials to be used in the works as shown and defined on the drawings and described herein all under the supervision and to the satisfaction of the Consultant/Bank.**
2. The workmanship is to the best available and of a high standard, use must be made of 'specialist' tradesman in all aspects of the work and allowance must be made in the rates for doing so.
3. The materials and items to be provided by the contractor shall be the best of their respective kinds and as approved by the consultant/Bank in accordance with samples, which may be submitted for approval and generally in accordance with the specifications.
4. Samples of all materials including these specified by name of the manufacturer or the brands, trades name or the Consultant/Bank for their approval before the contractor either orders or delivers in bulk to the site. Samples together with their packings are to be provided by the contractor free of any charge and should any materials be rejected, the same will be removed from the site at the expenses of the contractor.
5. The contractor is also required to submit specimen finishes of all colours, fabrics, polish shades, etc., for approval of the Consultant/Bank before proceeding with such works.
6. Should it be necessary to prepare shop drawings, the contractor at his own expenses prepare and submit atleast four sets of such drawings to Consultant/ Bank for approval.
7. The contractor shall produce all invoices, vouchers or receipts account of all purchases done by him for materials if called upon to do so either by consultants or the Bank.
8. The contractor should verify all measurements given in the drawing at the site before commencing the work. Any difference should be clarified with the Consultant before commencing the work.
9. Partition line out shall be done at the site before starting the work and got approved from the Consultants.
10. The contractor shall submit Bar chart (CPM Method) for the complete work within one week of letter of acceptance of tender and get the same approved from Consultant/Bank. In advance to co-ordinate the work with other agencies.
11. In order to complete the work in time, the contractor may have to work in more than one shift and beyond office hours. He will do so without any extra charges and without causing any disturbance/inconvenience to the neighbourhood.
12. The contractor shall make necessary security arrangements at the site for the safety of his tools, materials and equipment etc., at his own cost.
13. The contractor shall quote his rate including the cost of materials as specified, corresponding wastages, labour, sales tax or any other taxes and duties, octroi, transportation to worksite etc.

The rates are firm and no escalation on any account shall be allowed on accepted rates.

**14. Timber: Hardwood and Teakwood shall be the best wood locally available and should be well & properly seasoned of mature growth, free from worm holes, large loose or dead knots or other defects and will not suffer warping, splitting or other defects through improper handling.**

Teakwood to be either CP or Ballarshah and shall be of best quality, free from soft heart, worm & bee holes and other defects.

All wrought timber is to be sawn, planned or works to correct sizes and shapes as shown in the drawings. An allowance of 2mm shall be permitted for each wrought face.

All wooden members shall be liberally coated and treated with antitermite paint before fixing.

**15. Plywood:**

Plywood shall be of urea formaldehyde phenol bonded of approved B.W.P. type, make, brand, etc. Thickness of plywood shall be as per details given in the drawings/specifications.

**16. Workmanship for Joinery:**

Timber is to be cut to required size and length and the joinery should start immediately after the line out is finalised. It should be framed up (but not bonded) and stored until required for fixing position. At this stage it should be bonded and wedged up. Any portion that warps or develops shakes or other defects shall be replaced before wedging up. The whole work is to be framed and finished in a proper line and level and as detailed in the drawings and fitted with all necessary metal ties, straps, bolts, screws.

Twining bonded joints are to be cross tongued with teak tongues.

17. The contractor shall be responsible for providing and maintaining temporary coverage required for the protection of dressed, finished or semi-finished works if left unprotected. He is also to clean out all shavings, cut ends and other wastages from all parts of the work at his expenses.

18. Laminate sheeting shall be of specified thickness, make and either plain, sued, satin or with design finish samples showing the surface texture and pattern are to be submitted in proper sizes for approval before use.

The laminates shall be fixed with proper adhesive of approved grade and brand.

19. The contact surface of dowels, tenons, wedges etc., shall be glued with proper adhesive. Wherever joinery and carpentry works is likely to come in contact with moisture the adhesive shall be water proof.

20. **List of Indian Standards referred to:**

IS : 1200 : Latest neering works , methods of	Measurements of buildings & Civil Engi-
IS : 287 – 1973 Moisture content of timber.	Recommendation for maximum permissible
IS : 1141 – 1973	Code of practice for seasoning of timber.
IS : 3845 – 1966 furniture.	Code of practise for joints used in wooden
IS : 3548 – 1966	Glazing in Buildings.
IS : 1137 – 1965 IS : 113 – 1950 IS : 133 – 1975 IS : 110 – 1968 IS : 129 – 1950	Specification for ready mixed paint brushing matt or egg shell flat/wooden coating under- coating/finishing, Grey filler etc., for interiors.
IS : 1948	Aluminium doors, windows & partitions.

26. **Inspection and Testing:**

The Consultant/Bank shall be entitled at all times at the risk of contractor to inspect and/or test by itself or through an independent agency appointed by the Bank to inspect, and/or test all the materials, components, and items of work at the expenses of the contractor. All such tests shall be done as per ISI guidelines and as directed by Consultants/Bank.

10. MODE OF MEASUREMENTS

1. Partition Panelling : Sq.mt. area – one side only panelling finished length x finished height (frame work including vertical/horizontal members above the false ceiling will not be included in measurements and such members shall be treated as included in this mode of measurement in the case of partition having difference finished heights on either sides average height shall be considered eg.2400mm and 2500 then 2450mm will be average height. This will also include T.W. bends.
2. Storage Units : Sq.mt area – front elevation finished length x finished height
3. False ceiling : Sq.mt area finished length x finished width  
No. deduction of AC grills, lights, cutouts, cornices, drops etc.,

4. Soffits : Sq.mt total finished length x total finished depth (width including drops of pelment, if any).
5. Rounding off measurements : All measurements shall be rounded off to the nearest second decimal point eg.21 465m **will be 21.47m.**
- 
6. Measurement for venetian blinds : Area of the window opening in Sqm. to which it is specified.
7. PVC flooring : Sq.mts area  
Finished length x Finished width (deducting  
Shall be made for columns, cutouts, etc) only finished area shall be paid.

Wherever not mentioned measurements shall be measured as per ISI S.P.No.27.

## 11. SAFETY CODE

Suitable scaffolds should be provided for workman for all the works that cannot safely be done from the ground or from solid construction, except in cases of short duration works, which can be done safely from ladders. When a ladder is used, an extra mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying materials as well, it shall be of rigid construction made either of good quality wood or steel. The steps shall have a minimum width of 450mm and a maximum rise of 300mm. Suitable foot and hand holds of good quality wood or steel shall be provided and the ladder shall be given an inclination not steeper than 1 in 4 (1 horizontal to 4 vertical).

Scaffolding or staging more than 300mm above the ground or floor, swung or suspended from an overhead support, shall be erected with stationery supports and shall have guard rails properly attached, bolted, braced and otherwise secured and atleast 900mm high above the floor or platform of such scaffolding or staging and extending along the entire length of the outside and ends there of with only such openings as may necessary for the access of persons and delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.

Working platform, gangways and stairways should be so constructed that they should not sag unduly or unequally and if the height of the platform or the gangway or the stairway is more than 3-6m above ground level or floor level, they should be closely boarded, should have adequate width and should be suitably fastened, as described in (ii) above.

Every opening in the floor of a building or in a working platform be provided with suitable means to prevent the fall of persons or materials by providing suitable fencing or railing, whose minimum height shall be 900mm.

Safe means of access shall be provided to all working platforms and other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9 M in length while the width between side rails in ring ladder shall be in no case be less than 300mm. For longer ladders, this width should be increased atleast 6mm for each additional foot of length. Spacing of steps shall be uniform and shall not exceed 300mm.

Adequate precautions shall be taken to prevent danger from INTERIOR equipment. At the work site, no materials shall be so stacked or placed as to cause danger or inconvenience to any person or the public. The contractor shall also provide all necessary fencing and lights to protect the public from accident, and shall be bound to bear the expenses of defence of every suit, action or other proceedings at law that may be brought by any person for injury sustained owing to neglect of the above precautions and to pay damages and costs, which may be awarded in such suit, action or proceedings to any such persons or which may with the consent of the contractor be paid to compromise any claim by any such person.

### II. **Demolition:**

Before any demolition work is commenced and also during the progress of the work.

- a. All roads and open areas adjacent to the work site shall either be closed or suitably protected.
- b. No electric cable or apparatus which is liable to be a source of danger over a cable or apparatus used by the operator shall remain INTERIOR l y charged.



- c. All practical steps shall be taken to prevent danger to persons employed, from the risk of fire or explosion or flooding. No floor, roof or other part of the building shall be so over-loaded with debris or materials, so as to render it unsafe.
- III. All necessary personal safety equipments as considered adequate by the Architects should be kept available for the use of the persons employed on the site and maintained in a condition suitable for immediate use and the contractor should take adequate steps to ensure proper use of equipment by the concerned.
  - a. Workers employed in mixing asphaltic materials, cement and lime mortars shall be provided with protective footwear and protective gloves.
  - b. Those engaged in white washing and mixing or stacking of cement bags or any materials which is injurious to the eyes shall be provided with protective goggles.
  - c. Those engaged in welding works shall be provided with welder's protective (eye) shields.
    - a. Stone breakers shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
  - e. When workers are employed in sewers and manholes, which are in use, the contractor shall ensure that the manhole covers are opened and are ventilated atleast for an hour before the workers are allowed to get into the manhole and the manholes so opened shall be cardoned off with suitable railing and provided with warning signals or boards to prevent accidents to the public.
  - f. The contractor shall not employ men below the age of 18 years and women on the work of painting with products containing lead in any form. Wherever men above the age of 18 years are employed on the work of lead painting, the following precautions should be taken.
    - i) No paint containing lead or lead products shall be used except in the form of paste or ready made paint.
    - ii) Suitable face masks should be supplied for use to the workers when paint is applied in the form of spray or a surface having lead paint is rubbed and scrapped.
    - iii) Overalls shall be supplied by the contractors to the workers and adequate facilities for washing shall be provided to the working painters during and on cessation of work.
- IX. When the work is done near any place, where there is risk of drowning, all necessary equipment should be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provisions should be made for prompt first aid treatment of all injuries likely to be sustained during the course of the work.
- X. Use of hoisting machine and shackle including their attachments, in charge and supports shall conform to the following standards or conditions.
  - 1.a. These shall be of good mechanical construction, sound material and adequate strength and free from any patent defects and shall be kept in good working order.

- b. Every rope used in hoisting or lowering materials or as a means of suspension shall be of durable quality and adequate strength and free from patent defects.
2. Every crane driver or hoisting appliance operator shall be properly qualified and no person under the age of 21 years should be in charge of any hoisting machine including any scaffolding or give signals to the operator.
3. In case of every hoisting machine and of every chain, ring hook, shackle swivel and pulley block used in hoisting or lowering or as means of suspension, the safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with the safe working load. In case of a hoisting machine having a variable safe working load, each safe working load and the condition under which it is applicable shall be clearly indicated. No part of any machine or any gear referred above in this paragraph shall be loaded beyond the safe working load except for the purpose of testing.
4. In case of departmental machines, the safe working load shall be notified by the clients. As regards contractor's machines the contractor shall notify the safe working load of the machines to the consultants, whenever he brings any machinery to site of work and get it verified by the consultants.
- XI. Motors, gearing, transmission, electric wiring and other dangerous parts of hoisting appliances should be provided with efficient safeguards. Hoisting appliances should be provided with such means as will reduce and minimise the risk of accidental descent of loads. Adequate precautions should be taken to reduce to the minimum risks of any part of a suspended load becoming accidentally displaced. Sleeves and boots as may be necessary should be provided, whenever workers are employed on INTERIOR installations. The workers should not wear any rings, watches and carry keys or other materials, which are good conductors of electricity.
- XII. All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in safe condition. No scaffold, ladder, or equipment shall be altered or removed while it is in use. Adequate washing facilities should be provided at or near place of work.
- XIII. To ensure effective enforcement of the rules and regulations relating to safety precautions, the arrangements made by the contractor shall be open to inspection by the clients or the Architect.
- XIV. These safety provisions should be brought to the notice of all concerned by display of a notice board at a prominent place of the workspot. The person, responsible for compliance of the safety code, shall be named therein by the contractor.
- XV. Notwithstanding the above clauses for (i) to (xiv), there is nothing in these to exempt the contractor from the operation of any other Act or Rules in force in the Republic of India.

## **12. LABOUR LAWS AND RULES**

The Site Engineer shall ensure that the contractor maintains relevant records and fulfils all conditions and requirements in accordance with

- a. The payment of Wages Act
- b. Employer's Liability Act
- c. Workmen's Compensation Act
- d. Contract Labour (Regulations & Abolition) Act 1970 and Central Rules 1971.
- e. Apprentices Act 1961.
- f. Any other Act or enactment relating thereto and rules framed thereunder from time to time.

The Site Engineer shall refrain from involving himself and the supervisors under him by comments/advice/attempts at mediation in any kind of labour dispute at site. His job is only to report to his superiors any happenings of the this sort in an objective manner.

### **EMPLOYER'S RESPONSIBILITY – CONTRACT LABOUR (REGULATIONS AND ABOLITION) ACT 1970 AND RULES 1971**

With a view to ensuring that the provisions of the Act are not contravened, the Site Engineer should give particular attention to the following points and see that all the provisions of the Act are enforced:

1. Principal Employer (Banks) is registered as per the Act.
2. Contractor holds a licence under the Act from the Local Labour Commissioner for the appointment of Contract labour.
3. Required notice boards, registers and records as provided in section 29 of the Act are maintained by the contractor.
4. Payment of proper wages as per the rules are effected within the prescribed time limits by the contractor.
5. Prescribed facilities and amenities are provided by the contractor.
6. Proper efforts are made by the contractor to set right contravention of law, as soon as the notice pointing out the same is received from the Labour Enforcement Officer, and reports "on action taken" are sent to the Labour Enforcement officer at the earliest with copies to the Employer.

### **13. SPECIAL CONDITIONS.**

1. Contractor shall not be entitled to any compensation for any loss suffered by him on account of delays in commencing or executing the work, what ever the cause of the delays may be, including delays arising out of modifications to the work entrusted to him or in any subcontract connected there with or delays in awarding contracts for other trades of the project or in commencement or completion of such works in obtaining water and power connections for construction purpose or for any other reason what so ever and the Employer shall not be liable for any claim in respect thereof. The Employer does not accept liabilities for any sum besides the tender amount, subject to such variations as are provided for herein.
2. The successful tenderer is bound to carry out any items of work necessary for completion of the job if such instructions in respect of such additional items and their quantities will be issued in writing by the Architects with the prior consent in writing of the Employer.
3. The contractor must bear in mind that the work shall be carried out strictly in accordance with specifications made by the Architects.
4. The rates quoted in tender shall also include electric consumption charges for power. If no power is available at site the contractor shall have to make his own arrangement to obtain power connection and maintain at his expense an efficient service of electric light and power and shall pay for the electricity consumed. The Employer shall give all possible assistance to the contractor to obtain the requisite permission from the various authorities, but the responsibility for obtaining the same shall be that of contractor.
5. Contractor shall strictly comply with the provisions of safety code in addition to all local rules and regulations.
6. The contractor shall be responsible for the observance of all rules and regulations framed by the government under the contract labour act. The Employer shall be entitled to deduct all losses, damages that he might suffer on account of non-observance of these rules by the contractor, from the amount payable to the contractor.
7. Time shall be considered the essence of this contract. The entire work must be completed Stipulated time as per NIT. If the completion of the work is delayed beyond 1 month, a penalty at the rate of ½ % per week over the contract value will be imposed subjected to a maximum of 5%.  
  
If the work is delayed beyond 30 days after the date of completion, the remaining work will be carried out through other agencies at the risk and cost of the contractors under the contract with prevailing market rates.
8. The successful tenderer shall submit the phased programme of execution of different items of work within 2 days after receipt of acceptance letter.
9. Payment will be made subjected to a minimum of Rs. 50,00,000/- (Rupees Fifty Lakhs Only) and will be made within a period of TWO weeks after the bill is submitted to the Employer's Office with Architects Certificate.

10. Before filling in the tender the contractor will check all the drawings and schedule of quantities and will get an immediate clarification from the employer / Architects on item not clearly understood. No claims for any loss or compensation will be entertained on this account.
11. All the work shall be carried out as per detail drawings and specifications or as directed by employer / Architects.
12. The rates quoted in the tender shall be for the finished items of work They shall include all the charges labour, materials, transportation of material equipment, double scaffolding water and electric charges, tool and plants, marking out and cleaning of site, to do all things necessary to provide complete finished item for work consistent with the specifications attached to this tender document. The rates shall be inclusive of octroi duty, excise duty, packing and forwarding, loading or unloading or any other duties or fees levied by any government, public or local bodies. The rates shall be firm and shall not be subject to exchange variations, labour conditions or any other conditions whatsoever.
13. The calculations made by the tenderer should be based upon the probable quantities of the several items of work which are furnished for the tenderer's convenience in the schedule of quantities ,but it must be clearly understood that the contract is not a lumpsum contract , that neither the probable quantities nor the value of individual items nor the aggregate value of the entire tender will form part of the contract and that the employer / Architects do not in any way assure the tenderer or guarantee that the work would correspond there to.
14. Adequate engineering and technical staff to be appointed at site. INTERIOR contractor should inform of their number and qualification. An Approval of employer / Architects should be taken prior to appointing such technical staff on site.
15. **The contractor shall keep the tender submitted by him open for acceptance for a minimum period of three months from the date of it's submission .**When once the tender is accepted the rates quoted by the successful tenderer shall be firm and the variation in rates of any one or all the items on any account shall not be allowed during the entire duration of the contract.
16. During the execution of work, contractor must check the work with his drawings .The contractor shall be responsible for all the errors in this connection and shall have to rectify all the defects at his own cost, failing which the client reserves the right to get the same rectified at the risk and cost of contractor.
17. No claim for extra item or deviation from specification shall be entertained unless the same is pointed out and accepted as such before the work is taken in hand or within 15 days of work by the successful tenderer.
18. The contractor shall comply with all bye- laws and tax regulations (including GST) of local and other statutory authorities having jurisdiction over the works and shall be responsible for the payment of all the fees and other charges and for giving and receiving of all necessary notices drawings and test certificates.
19. The successful tenders shall properly safeguard against damage or injury to the public and to any property or thing and shall alone be responsible for any such damage and injury to any person or persons or thing arising in connection with it's execution of work .The successful tenderer shall protect and hold harmless the employer against any or all claims for any such injury or damage.

20. The work in every respect during the progress and till final acceptance by the employer, including raw materials delivered at the site to be incorporated or used in INTERIOR work by the successful tenderer will be at his own risk . Any loss or damage to any such material or work shall immediately be replaced by the successful tenderer at his own expense.
21. The employer shall have the right to direct the contractor to purchase and use the materials from any source for proper execution of work.
22. The employer / Architects or their authorized representatives shall have full power for inspecting the contractor's works or at any place from which the material is obtained. Acceptances of any such materials shall no way relieve the contractor of his responsibility for meeting the requirements and /or analysis not called for in the specifications shall be borne by the employer in case the material or work is found defective or of inferior quality .tests and /or analysis shall be done in the laboratory approved by the client and the contractor shall permit SBI and or the client's or their authorized representative to be present during any of the tests and /or analysis.
23. INSURANCE

The contractor shall indemnify the employer up to CAR Policy (Contractor's All Risk Policy) against all claim which may be made against SBI by any member of the public or third party in respect of anything which may arise in consequence thereof and shall at his own expense arrange to effect and maintain up to one month, after the virtual completion from an office approved by the SBI a policy of insurance in the joint names and deposit such policy or policies with the employer from time to time during the currency of this contract. The contractor shall also indemnify SBI against all claims which may be made upon the employer under the workman's compensation act or any other statute in force during the currency of this contract or at common law in respect of any employee of the contractor or any sub contractor and shall at his own expenses effect and maintain upto one month after virtual completion of the contract, from an office approved by SBI a policy or policies of insurance in the joint names of the employer and the contractor as aforesaid .The contractor shall be responsible for any other thing which may be excluded from the insurance policies above referred to and also for any other damage to any property arising out of and incidental to the negligent or defective carrying out of this contract.

He shall also indemnify SBI in respect of any costs,. charges or expenses arising out of any claim or proceedings and also in respect of any award of compensation or damage arising therefrom. SBI shall be at liberty and is hereby empowered to deduct the amount of any damages, compensation caused, charges and expenses arising or occurring from or in respect of any such claims or damages from any sum or sums due or to become due to the contractor.

24. WORKMAN AT SITE :

The contractors workpeople shall not be allowed to live on the site at any time throughout the contract nor to trespass beyond the limits of the site. The contractor will be held responsible for any acts of trespass by his workpeople.

25. DIMENSIONS :

Figures dimensions are to be taken in preference to scaled dimensions in all cases. Before commencing any work the contractor shall verify all measurements. If any discrepancies are found they shall immediately be brought to the notice of the Architects.

26. DISCREPANCIES

All the items shown on the drawings or specifications are taken to be included in both. Any discrepancies , which occur in either the drawings or specifications, shall immediately be brought to the attention of the Architects.

27. CUTTING AND MAKING GOOD

Where it is found necessary to interfere with finished work in order to execute this contract, the contractor will be required to do all necessary work at his expenses. Only approved hangers and bolts or other metal fixing devices shall be used to secure frames panels and other units in position .Wooden plugs will not be permitted .Holes shall be formed with electric drills whenever possible .Structural members shall not be cut or drilled without prior consent of the client .

28. MAINTENANCE AND GUARANTEE

The whole of the work to be performed under this contract shall be completed to the satisfaction of the Architects / Bank.

The contractor without additional charge to the employer renew or replaces any works which prove faulty from workmanship or materials and fully maintain the whole installations for a period of 6 months after the commencement of defects liability period of the main contract and a sum of 5% of the contract amount shall be retained by the employer for his period.

29. PREVENTION OF SPOIL DUMPING

The contractor shall take all reasonable steps to prevent spoil, rubbish, debris surplus materials etc.. arising from a work being dumped on an area other than a recognized or approved tipping area and the Contractor will be held responsible for and shall indemnify the employer against any claim or loss arising therefrom.

30. LEAVE PERFECT :

The Contractor shall remove all rubbish and superfluous material from the site of the works with all reasonable speed from time to time and at completion. On no account shall W.C' S or the employer's receptacles to be used for this purpose.

The client reserves its right to clear contractors un cleared debris at contractors own cost without any reasons & not more than one notice will be given for this.

31. 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 of materials used on the work or as to any other question, claim, right matter or thing whatsoever in any way arising out of our 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 work or after the cancellation, termination, completion or abandonment thereof shall be dealt with as mentioned hereinafter:

- (a) 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 (Admin), State Bank of India, Internal Audit Department, Admin Wing, Corporate Centre, State Bank Nireekshan Bhavan, Lingampally Post, Hyderabad Telangana – 500019** and endorse a copy of the same to the Architect, within 30 days from the date of disallowance thereof or the date of deduction or recovery. The said notice shall give full particulars of the claim, grounds on which it is based and detailed calculations of the amount claimed and the contractor shall not be entitled to raise any claim nor shall the bank be in any way liable in respect of any claim by the contractor unless notice of such claim have been given by the Contractor **The Assistant General Manager (Admin), State Bank of India, Internal Audit Department, Admin Wing, Corporate Centre, State Bank Nireekshan Bhavan, Lingampally Post, Hyderabad Telangana – 500019**. 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 (Admin), State Bank of India, Internal Audit Department, Admin Wing, Corporate Centre, State Bank Nireekshan Bhavan, Lingampally Post, Hyderabad Telangana – 500019**, in writing in the manner and within the time aforesaid.
- (b) **The Assistant General Manager (Admin), State Bank of India, Internal Audit Department, Admin Wing, Corporate Centre, State Bank Nireekshan Bhavan, Lingampally Post, Hyderabad Telangana – 500019** 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 (Admin), State Bank of India, Internal Audit Department, Admin Wing, Corporate Centre, State Bank Nireekshan Bhavan, Lingampally Post, Hyderabad Telangana – 500019**. submit his claims to the conciliating authority namely the Circle Development Officer, State Bank of India, Local Head Office, Hyderabad for conciliation along with all details and copies of correspondence exchanged between him and **The Assistant General Manager (Admin), State Bank of India, Internal Audit Department, Admin Wing, Corporate Centre, State Bank Nireekshan Bhavan, Lingampally Post, Hyderabad Telangana – 500019**.
- (c) 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 SBI 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.
- (d) Except where the decision has become final, binding and conclusive in terms of the contract, all disputes of 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 by the Sole Arbitrator appointed by SBI. It will also be no objection to any such appointment that the Arbitrator so appointed is a Officer and that he had to deal with the matters to which the Contract relates in the course of his duties as 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 SBI. 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 SBI as aforesaid should act 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 there under.

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

### 32. TERMINATION OF CONTRACT BY EMPLOYER:

If the contractor (being an individual or a firm) commit any “ Act of Insolvency “, or shall be adjudged as insolvent, or shall make an assignment or composition of the greater part in number of amount of his creditors, or shall enter into a Deed of Assignment with his creditors, or (being an incorporated Company) shall have an order made against him or pass an effective Resolution for winding up either compulsorily, or Subject to the supervision of the court or voluntarily, or if the official Assignee of the contractor shall repudiate the Contract, or if the Official Assignee or the Liquidator in any such winding up shall be unable, within seven days after notice to them requiring him to do so, to show to the reasonable satisfaction of the Architect that he is able to carry out and fulfill the Contract and if required by the Architect to give a security there for, or if the contractor shall suffer any payment under this contract to be attached by or on behalf of any of creditors of the Contractor, if the Contractor shall assign or sublet the contract without the consent in writing of the Architect first obtained, or if the contractor shall charge or encumber this Contract for any payments due or which may become due to the Contractor thereunder, or if the Architect shall certify in writing to the Employer that in his opinion the Contractor:

- (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 work for fourteen days after receiving from the Architect written notice to proceed, or
- (c) Has failed to proceed with the work with such due diligence and failed to make such due progress as would enable the works to be completed within time agreed upon or

- (d) Has failed to remove materials from site or to pull down and replace works within seven days after receiving from Architect written notice that the said materials or work were condemned and rejected by the Architect under these conditions or
- (e) Has neglected or failed persistently to observe and perform all or any of the acts, matters or things required by this Contract to be observed and performed by the Contractor for seven days after written notice shall have been given to the Contractor requiring the contractor to observe or perform the same, or
- (f) Has to the detriment of good workmanship or in defiance of the Architects instructions to the Contrary, submit any part of the contract or has used in the permanent works important materials which are substandard and not as per specification fraudulently making the Architect / Employer to believe that it is the specified material.

Then and in any of the said caused the Employer with the written consent of the Architect 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 Architect or the obligations and liabilities of the Contractor, the whole of which shall continue to be in force as fully as if the contract has not been so determined and as if the works subsequently executed and being executed by or on behalf of the contractor. And further, the Employer with the consent of the Architect by his agents or servants may enter upon and take possession of the works and all plant, tools, scaffoldings, shed, machines, steam and other power utensils and materials lying upon premises or the adjoining lands or roads, and use the same as his own property or may employ the same by means of his own servants and workman in carrying on and completing of the works or by employing any other Contractor or any other person or persons 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 Contractor or other person or persons employed for completing and finishing or using the materials and plant for the works, when the work shall be completed, or as soon thereafter as convenient, the Architect shall give a notice in writing to the Contractor, to remove his surplus material and plant and should the Contractor fail to do so within a period of fourteen days after receipt thereof by him, the Employer may sell the same by public auction and shall give credit to the Contractor for the amount so realized. The Architects shall thereafter shall assert and certify in writing under his hand what (if anything) shall be due or payable to or by the Employer, for the value of the said plant and materials so taken possession of by the Employer, and the expense or loss which the Employer shall have been put to in getting the works to be so completed, and the amount, if any owing to the Contractor and the amount which shall be so certified shall, thereupon, be paid by the Employer to the Contractor or by the Contractor to the Employer as the case may be, and the certificate of the Architect shall be final and conclusive between the parties.

- 33. The mode of measurements shall be as per IS: 1200.
- 35. CONTRACTOR SHOULD WORK AT ODD HOURS, ON HOLIDAYS TO KEEP UP TIME SCHEDULE. CONTRACTOR TO CO-ORDINATE WITH OTHER CONTRACTORS FOR SMOOTH EXECUTION OF WORK.
- 36. Partitions shall be measured from finished floor level to bottom level of false ceiling.
- 38. The Contractor shall not be eligible for any material advance.

## 14. ABSTRACT TERMS AND CONDITIONS:

1.	Defects Liability Period.	12 calendar months.
2.	Period for final measurement and valuation.	2 weeks.
3.	Date of commencement.	Within ONE week after confirmation.
4.	Date of completion.	As Per NIT.
5.	Minimum value of Interim Certificate.	RS. 50,00,000/- (Rupees Fifty Lakhs Only.)
6.	Agreed liquidated damages.	½ % of the total contract amount per week beyond the date of completion subject to maximum of 5%.
7.	Initial Security Deposit.	1% to be paid along with the Tender, balance 1% to be paid within seven days from the date of receipt of work order.
8.	Retention Money.	10% of interim certificate amount of running account bill.
9.	Total retention money in final bill including EMD & ISD Amount.	5% of the contract value.
10.	Installment after virtual completion.	Initial Security Deposit – after the contractor removes all the left over materials, machinery etc.,
11.	Period of honoring certificate.	15 days.
12.	Income Tax Deduction and S. T. under works contract act.	As per Central / State Government rules.
13.	Insurance, Custom duties and taxes.	To be provided and paid by contractor.
14.	Price Escalation.	Will not be considered.
15.	Rate of BOQ's items.	To include item complete in all respects.
16.	<b>GST TAX:</b>	<b>The rate quoted by contractor must be exclusive of GST. GST will be paid as per prevailing government norms.</b>

\*

## **15. GENERAL SPECIFICATIONS – INTERIOR WORKS.**

### **TIMBER :**

All timbers used are to be of top quality, free from knots, shakes, wormholes, and with a moisture content of not more than 8% to 10% depending on the climatic conditions prevailing at the site.

### **JOINTS :**

All Joints will be standard mortise and tenon, dovetails, dowel, cross-halved, mitred, tongued and grooved and invited. Nailed or glued butt joints will not be permitted. Except in exceptional cases nailed butt joints will not be accepted.

### **FASTENINGS :**

Screws , nails, bolts, will generally be of M.S. G. I wire, except in following examples : "Out door Furniture" fastenings will be of brass or other non-Corrosive metal. In hardware, they will match the finish of the hardware item.

Brass Nails in a finished surface shall be neatly punched and the hole filled with wood filler matching the finish. Screws in a finished surface will be round head, raised head or sunk (beneath the surface and the hole plugged with matching colour and grain of the wood surface) unless specially detailed.

### **PLYWOOD :**

Used mainly for the bodywork of this furniture, shall be Luaan or similar close-grained plywood suitable for veneering painting or bounding plastic laminate. It will be a resin bonded ( PFB ) weatherproof brand, and for "out door" furniture, standard specifications, ' marine' 'Mysore ply ', 'Anchor ply ' or Indian plywood brand or equivalent. Exposed edges will be finished with a piece of soiled wood, tongued and grooved and glued or as detailed.

### **HARDWARE :**

Hinges, lock, latches, door tracks etc., shall be as specified and as far as it possible, by the manufacturer specified. In any variation of this the quality of the substitute shall be equal to or better than the original specified, and sampled should be submitted to the Designer for prior approval.

### **METAL :**

Where metal logs frames etc., are used these shall be welded, brazed, bolted or riveted as required and on finished surfaces. Welding, brazing riveting shall be neatly smoothed so that no evidence of this is apparent on the final finish of the metal, which will be as specified on drawing. On all legs, wood or metal, nylon glides or castor as indicated are to be installed.

### **FINISH :**

This will be as indicated on the drawing and colour scheme chart and materials (timber, plastic laminates, lacquer, paints, etc.,) must be specified. No variations will be accepted unless with the prior approval of the Designer. " Backs " of cabinets etc., where wall hung, shall be treated with an approved brand of wood preservative. Full size drawings or sample prototypes are to be submitted for approval as requested.

**Note:** This specification is of a general type only, and must be used in conjunction with the drawing of the particular item being made. Anything shown on the drawing, but not in the specification must be complied with, and vice versa.

**MATERIALS:**

Finished timber shall be of the type specified colour, pattern, substance to be as specified and manufactured or supplied by the company specified. No variation of this will be permitted unless with prior approval of the Designer.

**FINISH:**

This will be as specified on the drawing and colour scheme chart. Where timber is finished in natural colour, care must be taken to "match" each separate piece of colour before assembly. Where timber is stained, the stain or colour on each member must "match".

## 16. TECHNICAL SPECIFICATIONS FOR ELECTRICAL WORKS

### EXECUTION OF ELECTRICAL WORKS:

1 The Contractor shall carry out and complete the Electrical work as per standard 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 rain water. The meter Board shall be properly earthed as per the regulatory requirements.

### 3 LT PANEL 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 sewage 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 cut out 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 ferruling** 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. Bunching shall be done as per phase separation respectively R, Y and B.** After Crimping insulation sleeves 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. Identifications labels of approved engraved type

nameplate/Radium stickers of suitable font size shall be fixed on DB. After complete termination of wire/cable same DB compartment 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 cables 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.

### **5.2 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.

**5.3** The end termination 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, Bus bar, terminal connectors etc. Only the respective metal lugs shall be used for termination. Aluminium lugs shall not be used to terminate in the copper bus bars 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 are 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, 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 wiring 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 extensions to outlets in hung ceiling or to equipment, motors etc. 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 entryspouts and smooth PVC bushes.

#### **6.1 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 and rustproof 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

#### **6.2 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 GI nails shall be used for all chasing width of the embedded conduit. Curing shall be carried out for a minimum of three days.

#### **6.3 CONCEALING IN THE CONCRETE:**

Conduits buried in concrete structure 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:**

#### **7.1 LAYING OF WIRES:**

Unless otherwise specified all wires shall be FRLS PVC 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

Client

Architect

Contractor  
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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.

## **7.2 SWITCH BOARDS 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 size to suit their respective locations and installations and shall 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 way 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.

## **7.3 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 boards 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 wires 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. 230 V power supply wiring shall be distinctly separate from any other different voltage system and lighting wiring.

## **7.4 CONTROL SWITCHES**

Control switches shall be connected in the phase conductors 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.

## **7.5 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 INSTALLATION:**

8.1 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 replan 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 fitting support and accessories shall be fixed. Wires shall be connected to the connector of light fitting as per standard. Light fitting shall be mounted on the support fitted. Line level and final alignment shall be checked with line dori.

### **8.2 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 pipe lines, 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.

8.3 In case of the Gypsum false ceiling, the marking 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 frame required have to provided by the contractor for the 2'x2' fixtures.

8.4 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

8.5 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, laying of cables above false ceiling to avoid any damage or any hindrance to the proposed architectural features.

## **9 EARTH STRIPS / CABLE TRAYS:**

### **9.1 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. Arrangement shall be made for proper scaffold for strip laying on the tray. Check wall and beam finishing before strip clamping on the wall and beam. Ensure that all Earth strip installation 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 5 mtr.interval. Clamps shall be fixed at an interval of 1000mm. Copper to GI earth strip connection shall be done by using the bimetallic washer

### **9.2 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 areas such as

inside substation, all embedded portion etc. Welding joints are cleaned with wire brush and then coated with Galva brite. 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.

### **9.3 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, bolts 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, Endpoints supports shall be installed as shown on the approved drawings. Nylon line 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 CORE CUT:**

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 spacing shall be provided. Centre 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 ply piece.

### **11 CONCEALING INSIDE WALL/PARTITIONS/GROUND/CEILING :**

11.1 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.

11.3 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.

11.4 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.

11.5 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.

<b>LIST OF I.S.CODES FOR INTERNAL ELECTRIFICATION INSTALLATIONS</b>		
<b>S.No.</b>	<b>Description</b>	<b>IS Code</b>
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 26671964
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 switchgear & control gear for voltage up to and including 1100 V AC	IS-8623-1977 (Part-1)
12.	DBS	IS-13947-1993
13.	The general construction for factory built assembled switchgear & control gear for voltage up to and including 1100 V AC	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 conduits 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)

## **17. TECHNICAL SPECIFICATIONS FOR AC WORKS**

### **A. Cassette type indoor units.**

These units shall be installed between the bottom of finished slab & top of false ceiling.

The maximum allowable height for the cassette type units shall not exceed 350 mm.

The unit shall be pre charged with first charge of R 32 / R 134A / R 407 / R 410 refrigerant. Additional charge shall be added as per refrigerant piping at site.

The unit must have in built drain pump, suitable for vertical lift of 750 mm.

The unit casing shall be Galvanized Steel Plate / or as per manufacturer's specifications.

Unit must be insulated with sound absorbing thermal insulation material, Polyurethane foam. The noise level of unit at the highest operating level shall not exceed 42 dB(A), at a vertical distance of 1.5 m from the grille of the unit.

Unit shall have provision of connecting fresh air without any special chamber & without increasing the total height of the unit (288 mm maximum).

The unit shall be supplied with suitable decorative panel.

The unit shall be supplied with Resin Net filter with Mold Resistance. The filter shall be easy to remove, clean & re install.

The unit will be connected in series to a suitable outdoor unit & it must be possible to Operate the unit independently, through corded/ cordless remote specified in the "Bill of quantities". The unit will be further connected to Intelligent Building Management System (To be supplied by other vendors) & it shall be possible to operate the unit through this IBMS system.

The unit shall be supplied with following from the factory with following:

Operation Manual

Installation Manual

Paper pattern for installation

Drain hose/ Clamp metal/ Washer fixing plate/ Sealing pads/ Clamps/ Screws/Washer for hanging bracket/ Insulation for fitting

### **B. Wall Mounted Units.**

Wall mounted units must be compact & stylish design that does not detract from the Décor of the room.

The unit shall be precharged with first charge of R 32 / R 134A / R 407 / R 410 refrigerant.

Additional charge shall be added as per refrigerant piping at site.

Each indoor unit must have electronic expansion valve operated by microprocessor thermostat based temperature control to deliver cooling/ heating as per the heat load of the room.

The unit must have provision of adding drain pump kit if required & specified. The drain pump must be suitable to lift drain up to 1000 mm from the bottom of the unit.

Unit must be insulated with sound absorbing thermal insulation material, polystyrene/Polyethylene foam. The noise level of unit at the highest operating level shall not exceed 46 dB(A), at a vertical distance of 1.5 m from the grille of the unit.

The unit shall be supplied with Resin Net filter with Mold Resistance. The filter shall be easy to remove, clean & re install.

The unit grille must be washable with soap solution.

It shall be possible to set minimum 5 steps of discharge angle by remote controller.

It shall be possible to fit drain pipe from either side of the unit (Left or right)

The unit will be connected in series to a suitable outdoor unit & it must be possible to Operate the unit independently, through corded/ cordless remote specified in the bill of quantities. The unit will be further connected to Intelligent Building Management System(To be supplied by other vendors) & it shall be possible to operate the unit through this IBMS system.

The unit shall be supplied with following from the factory with following:

Operation Manual

Installation Manual

Installation panel

Paper pattern for installation

Insulation tape/ Clamps/ Screws

#### **A – 1: COPPER TUBING.**

The parent material used for air – conditioning system refrigerant tubing should be Copper tubes, tubes and fittings conforming to following specifications:

1. Material composition should be conforming to C-1220 (JIS-H-3300) or C-12200 (ASTM).It should have a minimum Copper content of 99.9 % and Phosphorus content between 0.015 % and 0.040 %. It should have low residue ( below 0.038 gm / sq mtr ). The material should also be as per the RoHS norms specified by EU; that is, Mercury, Chromium and Lead contents below 1000 ppm, and Cadmium content below 100 ppm.
2. Physical properties of the material should conform to JIS-H-3300 or ASTM-B-68 & B-75, should be tested for Tensile / elongation / hardness / grain size tests as per ASTM B –280.
3. Dimensional tolerance should be as per JIS-H-3300 or ASTM-B-251. The tubes should be tested using non-destructive Eddy current test before the final anneal, as per JIS- H-3300 or ASTM-E-243.
4. Heat treatment should be carried out in non-oxidizing atmosphere to ensure oxygen free and Cuprous oxide-free surface.

5. Proper certificates describing composition and results of all tests carried out must be supplied with each consignment. These certificates, along with check results for dimensional and thickness accuracy are recommended to be carried out for every delivered lot, should be maintained till handing over of the project.
6. Tubes should have 360 degree concentric wall thickness along their entire length.
7. Wall thickness for soft tubes (bright annealed mirror finish ) should be 0.8 mm for ¼”, 3/8” & ½” tubes, 1.0 mm for 5/8” tubes, 1.2 mm for ¾” tubes. Wall thickness for hard tubes should be 1 mm for 7/8”, 1” and 1.1/8” tubes, 1.1 mm for 1.1/4”, 1.2 mm for 1.3/8” and 1.3 mm for 1.5/8” tubes.
8. Wall thickness for elbows and fittings should be minimum 0.2 mm more than corresponding tube / tube size.
9. For 1/4” to sizes up to ¾”, pulley type benders should be used for soft tubes and brazed joints should be avoided as far as possible. Similarly, for half hard tubes of size ¾” or more, one side expanded tubes must be used and use of couplings should be avoided as far as possible.

#### **A -2 : TUBING DESIGN:**

1. Contractor should study the tender / GFC drawings carefully, and should carry out detailed survey of site, relating the drawings with site, and understand the system design and site limitations.
2. Contractor should also collect final architectural and reflected ceiling plans from client and study the drawings for any mismatches with the HVAC drawings received.
3. Contractor should discuss any such mis- matches and any doubts regarding system design with the consultant and get all doubts clarified.
4. Before commencement of tubing work, proper shop drawings must be generated by the contractor, and same should be got approved from the consultant. The drawings must clearly indicate schematic flow diagrams for various circuits, tube sizes, description and quantities for refrigerant joints, indoor and outdoor unit models and room / block /floor names, tube routes, levels for horizontal tubes, details regarding insulation type and thickness and surface treatment for insulation, typical and critical sections and any other details to explain the entire tubing layout to the installer.
5. Tube sizing and routing must be carried out taking into consideration various site constraints and system manufacturer’s recommendations.
6. Care should be taken to design tubing as per the manufacturer’s recommendation for maximum tubing total length, maximum tubing length after first tapping, vertical height difference between outdoor and indoor units etc. and necessary corrections should be carried out in outdoor unit capacity if required.

#### **A – 3 : REFRIGERANT TUBING INSTALLATION WORK:**

1. The installer must first study the shop drawings in detail with respect to the site condition and point out any fouling / alternatives to the agency prepare shop drawing sand necessary revisions must be carried out in the drawings, to be approved by consultant.

2. The layout must be marked on the true ceiling and any civil openings required should be marked and got done from concerned agency.
3. Supports as described in BOQ / specifications should be installed, leaving adjustable free length for supports.
4. Before installation, the tubes and tubes must not be removed from their original packing. Proper storage of tubing is a must to maintain the temper of the tubes / tubes. Any abrasion on ends / surface, or any in grace of dirt / dust must be avoided. Proper Polyethylene sheets should be used for covering the tubes and tubes, while wooden pellets and soft expanded Polyethylene / rubber sheets should be used as floor supports.
5. Necessary loops / slopes must be followed as recommended by system manufacturer.
6. Tubes must be cut to required sizes using cutting tools recommended by system manufacturer.
7. Using proper quality of brazing set, Oxygen / Acetylene and Copper brazing rods having minimum 2% Silver content.
8. During brazing, Nitrogen must be filled in the Copper tubing at a mild positive pressure and must be kept bleeding out continuously, to prevent any oxidation of parent material.
9. After tubing work, each circuit should be pressure tested as per the system manufacturer's recommendation and as per the procedure described in the following paragraphs. A certificate mentioning the test pressure, time of first and final pressure readings, make, model, serial number, range and least count of the gauge used, along with a copy of valid calibration certificate must be maintained, duly signed by the inspecting technician, and client /PMC representative.
10. After pressure testing, insulation must be completed as per the material, make and thickness mentioned in the approved shop drawing. The joints of insulation must be sealed by minimum 50 mm wide Aluminium adhesive tape. Care should be taken to avoid any air gaps between tube / tube and insulation sleeves, and between two insulation sleeve joints.
11. Proper tagging must be carried out to trace the tubing to respective indoor and outdoor circuits.
12. The tubes exposed to sunlight must be covered / cladded / treated to prevent damage from UV radiation and bird pecks / tampering, as mentioned in the BOQ. The cladding should be made out of 26 G Aluminium sheet or G.S.S. sheet. While cladding, care should be taken to avoid penetrating the insulation by screws. Short screws Of metallic straps should be used for securing cladding sheets. Instead of cladding, glass cloth, with two coats of protective resin should be used.
13. While charging refrigerant, manufacturer's recommendations must be strictly followed, and charging must be carried out using proper charging hose, gauge manifold with calibrated gauges and electronic weigh scale. Further leak check using a gas leak detector should be carried out. Charging must be carried out after proper evacuation of the tubing. The quantity of refrigerant to be charged should be calculated by totalizing the liquid tube volume as per the manufacturer's recommendation.



#### **A – 4 : RECOMMENDATIONS FOR PRESSURE TESTING:**

Refrigerant tubes carry refrigerant at pressures different from atmospheric pressure. When pressure inside tubes is more than atmospheric pressure, refrigerant may escape to the atmosphere, causing commercial loss due to loss of refrigerant, inefficient system performance or even system breakdown and contamination of surroundings. When pressure inside the tubes is less than atmospheric pressure, such as in case of suction tubes of some low temperature refrigeration machines, or during pump-down cycle of normal air-conditioning systems, leakages in tubes leads to ingress of air and moisture, causing severe system damage. Therefore, it is a must that the refrigerant tubing is thoroughly tested for leakages. Pressure testing for any tubing must be carried out at a pressure higher than the maximum operating pressure within the system. It is recommended that the pressure recommended by manufacturer be followed very strictly. Testing at lower pressures may lead to non-detection of some small leakages, while testing at higher pressures may lead to damage to some factory manufactured components within the system. Generally, for R-410 systems a pressure of around 650psig is used. Nitrogen is the most common gas used for carrying out pressure testing. It has numerous advantages, some of which are listed below:

1. Nitrogen is easily available as a commercial gas packed in easy to handle cylinders.
2. Nitrogen, being the most abundant component of the atmosphere, is safe for leaking out without contaminating the atmosphere.
3. Nitrogen is less costly as compared with other gases.
4. Nitrogen is safe for handling and testing.
5. Nitrogen does not readily react with system components Pressure gauge/s used for testing must be calibrated and a calibration certificate with traceability to a Government(National) Physical Laboratory must be documented. The gauge should be capable of measuring pressure at least 10% above the reading to be recorded.

#### **A – 5 : PROCEDURE FOR CARRYING OUT PRESSURE TEST**

- 1) Ensure that the tubing to be tested is properly secured/supported and the openings have been sealed off as per manufacturer's recommendation.
- 2) Install pressure gauge/s at strategic location/s where it shall not be tampered with, at the same time, should be easily visible.
- 3) Install a valve and connecting tubing so that the open end of the tube reaches the cylinder outlet without moving the cylinder.
- 4) Connect the tube to the cylinder and after ensuring proper connection, crack open the cylinder valve, keeping an eye on the pressure gauge. Let the pressure rise to around 10 psig.
- 5) Check for proper sealing of all flanged / flare nut joints or valves/ valve glands looking for noise of escaping Nitrogen and seal same.
- 6) Open the cylinder valve again and raise the pressure to 200 psig.

- 7) Check the tube line for major leakages at brazed joints, elbows, valve glands, equipment end connections and tube seams with the help of soap water. Make up the leaks by tightening nuts. If the leaks are in brazed joints, flush out Nitrogen and carry out necessary re-brazing.
- 8) Open the cylinder valve again and increase the pressure to 150 psig less than the final test pressure. Repeat leak check as above.
- 9) Open the cylinder valve again and slowly raise the pressure to the manufacturer recommended pressure. Carry out a thorough leak check.
- 10) Record the pressure and time. Let the pressure stand for 24 hours without tampering. Check the pressure again after 24 hours. If pressure has dropped, the tubing should be checked very thoroughly for minor leakages. It is important to follow this 24 hours period as it gives enough time to detect minute leakages, and it removes the doubt created by thermal expansion of Nitrogen ( as after exact 24 hours, ambient conditions are generally same).
- 11) In case of tubing extending to lengths more than 30 m and / or having more than 20 site fabricated joints, the pressure should be recorded after 24 hours as well as after 48 hours, so that all leakages are detected and made up.
- 12) After detecting and making up any leak, the pressure testing must be carried out once again from beginning.

**A – 6 : DOCUMENTATION RECOMMENDED FOR ENSURING PROPER QUALITY ASSURANCE:**

1. Manufacturer's certificate with every Delivery Challan declaring composition of parent material
2. Signed and approved Shop drawings approved by Architect, prior to start of work
3. Pressure test report signed by Architect/ Client / Equipment manufacturer / PMC / Consultant.
4. False Ceiling closure check list duly signed by Architect / Client / Equipment manufacturer/ PMC /Consultant.

**GENERAL:**

**ACR GRADE COPPER TUBES AND FITTINGS : SIZES AND SPECIFICATIONS**

**Tube material Specification :**

( CFC- free refrigerant compatible tubes produced using Total loss lubricants )

1. De-oxidized High Phosphorized copper (DHP grade) raw material, with Chemical Composition of Copper = 99.9 % ; Phosphorus = 0.015 to 0.040 %
2. RoHS Compliant
3. 360 degree concentric Wall thickness along the entire length of the tubes

4. Half hard drawn copper tubes should confirm to ASTM B75/ASTM280 ( C12200 ) / JIS H:3300( C1220 ) / BS2871 part 3 ( C106 ). Use Half Hard Temper Type for tube sizes above 19.1 mm.
5. Soft copper tubes, bright annealed (mirror finish) should confirm to ASTM B68 / JIS H:3300
6. Super clean quality with low residual content below the permissible levels of 0.038 g/m<sup>2</sup> for compatibility with use of CFC-free refrigerant.
7. 100 % Eddy Current Tested Tubes are to be used
8. Proper packaging, Storage and Traceability of the tubes.

**Copper tube and Fittings Sizes and Insulation Specifications for CFC-free Refrigerant.**

S. No.	OUTER DIAMETER IN INCH & (MM)	WALL THICKNESS IN GAUGE & (MM)	LENGTH IN FEET & (MTRS.)	TEMPER	WEIGHT PER METER (kg.)	SOCKET AND ELBOW THICKNESS IN SWG & (MM)	RUBBER INSULATION THICKNESS
1.	1/4" (6.4 mm)	21 ( 0.8 mm)	50' (15.24)	Soft	0.1265	18 (1.2mm)	15mm
2.	3/8" (9.5 mm)	21 ( 0.8 mm)	50' (15.24)	Soft	0.199	18 (1.2mm)	15mm
3.	1/2" (12.7 mm)	21 ( 0.8 mm)	50' (15.24)	Soft	0.2714	18 (1.2mm)	15mm
4.	5/8" (15.9 mm)	19 ( 0.99 mm)	50' (15.24)	Soft	0.4241	18 (1.2mm)	15mm
5.	3/4" (19.1 mm)	19 ( 0.99 mm)	50' (15.24)	Soft	0.5147	18 (1.2mm)	20mm
6.	1/4" (6.4 mm)	21 ( 0.8 mm)	12' (3.658)	Half Hard	0.1265	18 (1.2mm)	15mm
7.	3/8" (9.5 mm)	21 ( 0.8 mm)	12' (3.658)	Half Hard	0.199	18 (1.2mm)	15mm
8.	1/2" (12.7 mm)	21 ( 0.8 mm)	12' (3.658)	Half Hard	0.2714	18 (1.2mm)	15mm
9.	5/8" (15.9 mm)	19 ( 0.99 mm)	12' (3.658)	Half Hard	0.4241	18 (1.2mm)	15mm
10.	3/4" (19.1 mm)	21 ( 0.8 mm)	12' (3.658)	Half Hard	0.4164	18 (1.2mm)	20mm
11.	7/8" (22.2 mm)	21 ( 0.8 mm)	12' (3.658)	Half Hard	0.489	18 (1.2mm)	20mm
12.	1.0" (25.4 mm)	20 ( 0.88 mm)	12' (3.658)	Half Hard	0.6054	18 (1.2mm)	20mm
13.	1 1/8" (28.6 mm)	19 ( 0.99 mm)	12' (3.658)	Half Hard	0.7865	18 (1.2mm)	20mm
14.	1 1/4" (31.8 mm)	18.5 ( 1.1 mm)	12' (3.658)	Half Hard	0.843	16 (1.6mm)	20mm
15.	1 3/8" (34.9 mm)	18 ( 1.21 mm)	12' (3.658)	Half Hard	1.155	16 (1.6mm)	20mm
16.	1 1/2" (38.1 mm)	17.5 ( 1.3 mm)	12' (3.658)	Half Hard	1.340	16 (1.6mm)	20mm

	mm)	mm)	(3.658)	Hard			
17.	1 5/8" (41.3 mm)	17 (1.43 mm)	12' (3.658)	Half Hard	1.594	16 (1.6mm)	20mm

Use Soft tube only for Indoor Unit Connection

10. **INSULATION TO REFRIGERANT PIPING:**  
FR nitrile rubber / cross linked closed cell polyethylene tube insulation of 13mm upto 1”dia pipes and 19mm thick for 1” and above shall be used for copper piping both for suction line and liquid line. All joints shall be sealed with self-adhesive tape or with heat.
11. **COMMUNICATION CABLE AND CONTROL CABLING:**  
Communication cable and control cabling: Communication cable and control cabling should be of non-polar shielded 2 core cable shall be laid in 20 mm dia PVC conduits of required size. PVC conduit should be clamped neatly maintaining a distance from power cables, Cable terminations and dressing shall be done properly and neatly.
12. **DRAIN PIPING:**  
PVC drain piping shall be used for the drain piping. Proper care shall be taken to lay the drain piping with sufficient slope and should be clamped or supported at 1.5 m interval. All drain pipe joints shall be done with adhesive. Drain piping should be tested for leaks before commissioning. After testing for leaks, drain pipe shall be insulated with 9 mm thick nitrile rubber tube insulation. Insulation shall be finished with self-adhesive black cotton tape.

**18. LIST OF APPROVED MANUFACTURERS / NATURAL SOURCES OF MATERIALS TO BE USED IN THE INTERIOR WORKS SUBJECT TO THE APPROVAL OF SAMPLES BY SBI / ARCHITECT.  
(ALL THE MATERIALS USED HAVE TO CONFIRM TO GREEN INTERIOR NORMS OF IGBC)**

<b><u>S. No.</u></b>	<b><u>MATERIAL NAME.</u></b>	<b><u>BRAND / MANUFACTURER.</u></b>
1.	MDF – Exterior Grade (Medium Density Fibre Board) – CONFIRMING TO IS : 12406 - 2003. (Density: 750 – 850 Kgs/m <sup>3</sup> )	GREEN PLY / CENTURY / ARCHID / TESA
2.	PLYWOOD – BWR – CONFIRMING TO IS : 303.	GREENPLY / AUSTIN /CENTURY PLY / NICON PLY / MAYUR PLY/.
3.	BLOCK BOARD – CONFIRMING TO IS :11255 - 2003.	NICON / GOLDEN / GREENPLY./ CENTURY
4.	FLUSH DOOR – CONFIRMING TO IS : 2202 (Part – 1) – 1991.	NICON / GREENPLY / CENTUARY / UNIPLY
5.	LAMINATE – CONFIRMING TO IS : 2046-1995.	GREENLAM / MERINO/ FORMICA/ CENTURY / AICA/ SUNMICA ARCHID / VIR LAMINATE / BRAVIA.
6.	GLASS.	SAINT GOBAIN /MODIFLOAT / ASAHI FLOAT.
7.	HARDWARE.	EFFICIENT GADGETS (EG) / EARL BEHARI (EBCO) / DOORSET/OZEN
8.	BEECH WOOD.	AS APPROVED BY SBI / ARCHITECT.
9.	SCREWS.	GKW NETTLEFOLD OR AS APPROVED.
10.	ADHESIVES.	MOVICOL / FEVICOL SH / ARALDITE/ JEEVANJOR
11.	PAINT.	ASIAN / NIPPON / BERGER / NEROLAC.
12.	FLOOR SPRING / DOOR CLOSER.	HETTICH/DOORSET / STERLING / DORMA / OZONE.
13.	LOCKS.	DOORSET / DORMA/ HETTICH/OZONE.
14.	GI SUPPORT SYSTEM FOR PLAIN FALSE CEILING.	GYPSTEEL ULTRA / US BORAL.
15.	GI DRY WALL PARTITION SYSTEM.	GYPSTEEL / US BORAL / FRAME WORK / RONDO / BMS.
16.	GYPSUM / PLASTER BOARDS.	GYPBOARD / LAGYP.
17.	GI SUPPORT SYSTEM FOR GRID CEILING.	ARMSTRONG / GYPSTEEL ULTRA / US BORAL.
18.	CEILING TILES.	ARMSTRONG / GYP ROCK / US BORAL./ DAIKEN
19.	ACRYLIC SOLID SURFACE.	LG Hausys, HI - MACS / DUPONT - MONTELLI / MERINO – HANEX / LOTTE - STARON.
20.	TEXTURED PAINT.	TERRACO / SPECTRUM.
21.	VINYL FLOORING.	LG / WINNER.
22.	WRITING BOARD.	WHITE MARK OR APPROVED.
23.	VITRIFIED, CERAMIC AND GLAZED TILES.	JOHNSON / KAJARIA / RAK/SOMAY/AGL.
24.	SANITARY FAUCETS AND FIXTURES.	JAGUAR / HINDWARE / KOHLER.

25.	ALUMINIUM COMPOSITE PANELS.	ALSTRONG / EUROBOND / ALUDECOR.
26.	CARPET TILES FLOORING.	GODREJ / ELEMENT / UNITEX / FLORTEX.
27.	CEMENT FIBER / CALCIUM SILICATE / REINFORCED MAGNESIUM SILICATE BOARD.	VISAKA / TRILITE / SHERA / BISON.
28.	MODULAR FURNITURE	GODREJ/ FEATHERLITE/ MONARCH/ WIPRO.

**NOTE:** The Contractor shall use only above mentioned material. All other materials shall confirm to the specifications laid down. The Contractor shall take this into account while tendering rates / prices. All materials and sections used should adhere to the manufacturer's guidelines and the contractor has to submit certificate from the manufacturer on usage of their specified product / sections.

**LIST OF APPROVED MANUFACTURERS / NATURAL SOURCES OF MATERIALS TO BE USED IN THE ELECTRICAL WORKS SUBJECT TO THE APPROVAL OF SAMPLES BY THE CONSULTANT.**

Sno	ITEMS	BRAND NAME
1.	MCCB/MCB/RCCB/MCB DB	L&T/SIEMENS/ SCHNEIDER/ ABB / LEGRAND /HAVELLS
2.	HT/LT CABLES	L&T/KEI / POLYCAB / HAVELLS
3.	CABLE GLANDS	HAX/DOWELLS/HMI/BRACO/COMET/
4.	CABLE LUGS	DOWELL/3D/JAINSON
5.	CHANGE OVER SWITCH	HPL/L&T/C&S
6.	INDICATING METERS	L&T/AE/IMP/MECO/CONZERV
7.	RELAYS	L&T/ GE/TELEMECANIQUE/AREVA
8.	CT'S RESIN-CAST	KAPPA/IMP/AE/KALPA
9.	SELECTOR SWITCHES	L&T/SIEMENS/KAYCEE
10.	FRLS WIRES	RR KABEL/FINOLEX/POLYCAB/L&T/HAVELLS/KEI
11.	MODULAR SWITCHES	ANCHOR/LEGRAND/ HONEYWELL/HAVELLS/SCHNIDER
12.	PVC CONDUITS	VIP/PRECISION/ATUL/SUDHAKAR/MODI
13.	CASING / CAPPING	CLASSIC/ MODI/SUDHAKAR
14.	LIGHT FITTINGS	PHILIPS / CROMPTON/ WIPRO/ HAVELLS
15.	EXHAUST FANS	CROMPTON/ GEC/ARMONALD/HAVELLS
16.	CEILING FANS	CROMPTON/HAVELLS/ BAJAJ/ USHA
17.	ACB	L&T/SIEMENS/ SCHNEIDER/ ABB
18.	CONTACTORS	L&T/SIEMENS/ SCHNEIDER/ ABB
19.	CABLE TRAY	STELCO/STEELWAYS/SLOTCO/PILCO
20.	BUS BAR SUPPORT SYSTEM(SMC SHEETS)	POWERMAT/L&T/C&S/LEGRAND
21.	BUS BAR TAPING BOX	SIEMENS/SCHNEIDER/ABB/C&S
22.	M S CONDUITS	BHARAT / ZINDAL/
23.	CAPACITOR BANKS	SCHNIDER/L&T/LEGRAND/EPCOS
24.	CAT-6/TELEPHONE CABLES	D-LINK/ FINOLEX/ POLYCAB/ LEGRAND/

		SKYTONE
25.	LAN SWITCHES I/O PORT	CISCO/D-LINK/ JUNIPER/LEGRAND
26.	NETWORK RACK	D-LINK/VALRACK/NETRACK/EMERSON
27.	ACs	O-General/Mistubishi/Hitachi/Daikin/Bluestar
	Important: Please Tick (/) the make of materials considered in the Tender.	

**NOTE :** The contractor shall use only above mentioned materials. All other materials shall confirm to the specifications laid down. The tenderer shall take this into account while tendering rates / prices. The Consultant / SBI has got every right to select any of the above Makes for the Project. However the samples of every material including all fixing accessories shall be got approved by SBI / Consultant before Execution.

**LIST OF APPROVED MANUFACTURERS / NATURAL SOURCES OF MATERIALS TO BE USED IN THE AC WORKS SUBJECT TO THE APPROVAL OF SAMPLES BY THE CONSULTANT.**

<b><u>S.No.</u></b>	<b><u>Material Name.</u></b>	<b><u>Brand / Manufacturer / Recommended Make.</u></b>
1.	CASSETTE AND HI WALL UNITS.	O-General, Daikin, Carrier, LG, Voltas, Blue Star, Mitsubishi Heavy and Hitachi
2.	GI Sheets	TATA / HSL / SAIL / NIPPON DENRO or approved equivalent.
3.	Fire Damper	Caryaire / AirMaster / Air Breeze / Ravistar or approved equivalent.
4.	Vibration Isolators / FlexibleConnectors	Resistoflex / Dunlop or approved equivalent.
5.	INSULATION / Fibre glass.	UP Twiga / Kimmco / Owens corning or approved equivalent.
6.	Power Cables	CCI / ICC / Gloster / UCL or approved equivalent.
7.	Cables	Finolex / RR cables /polycab/finecab
8.	Aluminum Grilles Diffusers /Linear Grilles	Caryaire / Air Master / Air Breeze/SRIFABS or approved equivalent.
9.	Filters	Klenzaid / Airtech / Aerosol / Anfilco or approved equivalent.
10.	Cooling Coils / Heating Coils	Bluestar / Rohini / Ethos / Carrier / Jaypee / Coil Company / ZECO or approved equivalent.
11.	Nitrile rubber	Armaflex / k flex

**NOTE :** The contractor shall use only above mentioned materials. All other materials shall confirm to the specifications laid down. The tenderer shall take this into account while tendering rates / prices. The Consultant / SBI has got every right to select any of the above Makes for the Project. However the samples of every material including all fixing accessories shall be got approved by SBI / Consultant before Execution.

**BOQ FOR THE PROPOSED RENOVATION OF SBI INSPECTION AND AUDIT  
DEPARTMENT AT GACHIBOWLI, HYDERABAD.**

S.NO	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
<b>I</b>	<b>INTERIOR FURNISHING WORKS</b>				
<b>1</b>	<b>DOORS</b>				
<b>1.1</b>	<b>GLASS DOORS</b>				
	Providing ,supplying, and fixing in position of Glass door in 12 mm thk clear float glass TOUGHENED, edges with crystal/pencil polished alround, frame less fixed with patch fittings as per the design and drawing provided with SS brush finished handles 600 mm long and 20 mm dia of approved shape and design fixed over the HEAVY DUTY floor spring, pivote bottom lock etc ,making complete as per the design. The glass shall be provided with etched designer film of branded company to suit the interior decor as per the selection (given as seperate item)The rate shall be inclusive of all the necessary material, required hardware, labour, transportation, necessary for the complete execution of the item.	<b>SQMT</b>	<b>22.00</b>		
<b>1.2</b>	<b>PARTLY GLAZED DOORS IN LAMINATE</b>				
	Providing ,supplying, and fixing partly glazed door of 35mm thk solid core flush door with beach wood frame of 75mm x 37.5mm finished with 1.0 mm thk laminate on both sides with lipping around the door of 35mm x18 mm in BEACH wood, and 6 mm thk float glass inside the door fixed with beach wood beading from a ht of 300mm to 1500mm form bottom as per the design ,with hinges, tower bolts, door stoppers, mortice lock, handles of s.s and door closers of s.s mat finished making complete as per the design. The rate shall be inclusive of all the necessary material, required hardware, labour, transportation, necessary for the complete execution of the item.	<b>SQMT</b>	<b>20.00</b>		
<b>1.3</b>	<b>PARTLY GLAZED DOORS IN ONE SIDE VENEER AND ONE SIDE LAMINATE</b>				
	Providing ,supplying, and fixing partly glazed door of 35mm thk solid core flush door with beach wood frame of 75mm x 37.5mm finished with 4 mm thk Veneer finished with High gloss PU polish on one side and 1mm thk laminate on onee side with lipping around the door of 35mm x18 mm in BEACH wood, and 6 mm thk float glass inside the door fixed with beach wood beading from a ht of 300mm to 1500mm form bottom as per the design ,with hinges, tower bolts, door stoppers, mortice lock, handles of s.s and door closers of s.s mat finished making complete as per the design. The rate shall be inclusive of all the necessary material, required hardware, labour, transportation, necessary for the complete execution of the item. Basic rate of Veneer Rs:1500 - 1800 / SQMT.	<b>SQMT</b>	<b>6.00</b>		



<b>2</b>	<b>PARTITIONS</b>				
<b>2.1</b>	<b>FULLY GLAZED PARTITIONS</b>				
	Providing and fixing of fixed Full height glazed partitions with 12mm thick toughened glass using SS PATCH FITTINGS of branded make at the top and bottom including cutting, making holes in glass ,fixing the fitting in floor,, ceilings etc and making the same good, with necessary screws, sealants wherever required., making complete as per the design and drawing. All the exposed edges shall be crystal polised around. Necessary wooden frame support shall be made in the Ceiling to support the glass firmly. The rate shall be inclusive of all the necessary material, required hardware, labour, transportation, necessary for the complete execution of the item.	<b>SQMT</b>	<b>28.00</b>		
<b>2.2</b>	<b>FULL HEIGHTSOLID PARTITIONS IN LAMINATE</b>				
	Providing & fixing of FULL Height solid partition in metal studs with, Supporting system comprising of 25mm x 50 mm x 1.2 mm aluminum sections at 600 mm c/c Vertically and at floor, middle and at slab/beam bottom level with joints staggered and fixed at the slab/beam bottom, shall include all the necessary for strengthening with studs/tracks or channels at openings and 9 mm thk BWR Ply with 1mm thk laminate with nail grooves as per banks corporate color scheme on both sides, and provide 75 x18 mm Beech wood beading on exposed edges with Melamine polish on both sides as per design & drawing. The rate shall be inclusive of all the necessary material, required hardware, labour, transportation, necessary for the complete execution of the item. NOTE : The height of the full height partitions shall be considered only till the false ceiling height, irrespective of the fact that the framework has to be fixed to the RCC Slab / Beam.	<b>SQMT</b>	<b>191.00</b>		
<b>2.3</b>	<b>FULL HEIGHTSOLID PARTITIONS IN ONE SIDE VENEER AND ONE SIDE LAMINATE</b>				
	Providing & fixing of FULL Height solid partition in metal studs with, Supporting system comprising of 25mm x 50 mm x 1.2 mm aluminum sections at 600 mm c/c Vertically and at floor, middle and at slab/beam bottom level with joints staggered and fixed at the slab/beam bottom, shall include all the necessary for strengthening with studs/tracks or channels at openings and 9 mm thk BWR Ply with 4mm thk Veneer finished with Highgloss PU polish on one side and 1mm thk laminate on one side, and provide 75 x15 mm Beech wood beading on exposed edges with High gloss PU on both sides as per design & drawing. The rate shall be inclusive of all the necessary material, required hardware, labour, transportation, necessary for the complete execution of the item. Basic rate of Veneer Rs:1500 - 1800 / SQMT. NOTE : The height of the full	<b>SQMT</b>	<b>35.00</b>		

	height partitions shall be considered only till the false ceiling height, irrespective of the fact that the framework has to be fixed to the RCC Slab / Beam.				
<b>2.4</b>	<b>LOW HEIGHT PARTITIONS IN LAMINATE UPTO 1200 MM</b>				
	Providing & fixing of Low Height Solid partition in metal studs with, Supporting system comprising of 25mm x 50 mm x 1.2 mm aluminum sections at 600 mm c/c Vertically and at floor, middle and at top level with joints staggered and fixed at the slab/beam bottom, shall include all the necessary for strengthening with studs/tracks or channels at openings and 9 mm thk BWR Ply with 1mm thk laminate with nail grooves as per banks corporate color scheme on both sides and all exposed edges shall be provided with 75 x18 mm thk Beech wood beading with Melamine polish on both sides as per design & drawing. The rate shall be inclusive of all the necessary material, required hardware, labour, transportation, necessary for the complete execution of the item.	<b>SQMT</b>	<b>385.00</b>		
<b>2.5</b>	<b>SAME AS ABOVE BUT PARTLY GLAZED LOW HT PARTITION</b>	<b>SQMT</b>	<b>93.00</b>		
<b>2.6</b>	<b>LOW HEIGHT PARTITIONS AT WORK STATIONS UPTO 1200MM</b>	<b>SQMT</b>	<b>160.00</b>		
	Providing & fixing metal stud Low height solid Partitions with following specifications.				
	Supporting system comprising of best locally available make 25mm x 50 mm x 1.2 mm aluminum sections at 600 mm c/c Vertically and at floor, middle and at top level with joints staggered . The rate should include all the necessary for strengthening with studs/tracks or channels at openings as per the drawing.				
	9 mm BWR Ply finished with 1mm thk laminate on both sides as per the Drawing.				
	75 x18 mm Beech wood beading on exposed edges with melamine finish as per Directions & drawing.				
	The rate shall be inclusive of all the material ,labour, hardware, transportation necessary required for the complete execution of the item as directed by the architect.				
<b>3</b>	<b>TABLES</b>				
<b>3.1</b>	<b>CGM / GM TABLE</b>	<b>NOS</b>	<b>3</b>		
	Providing, making and placing in position of GM Table and Side Table of approximate size 2100mm x 900mm x 750mm + 1200 mm x 450 mm x 750 mm with following specifications.				
	Table Top in shape to be made in 37.5 mm BWR PLY 2 nos 19 mm Camouflaged finished with 4mm thk Veneer with High gloss PU polish on all exposed surfaces and 0.8 mm thk				

	laminate on all the internal surfaces as per the directions.				
	Front Modesty Panel of the table shall be in shape and design with 37.5 mm thk BWR PLY 2 nos 19 mm camouflaged ,with 4 mm thk veneer finished with Hgh Gloss PU polish finish on all the exposed surfaces and with 0.8 mm thk laminate on all the internal surfaces as per the design. The Modesty panel shall also be provided with 50 mm bands in BWR PLY finished with 4mm thk veener with Hgh Gloss PU polish as per the design and Drawing.				
	The sides (Verticals) shall be made with 37.5 mm thk BWR PLY 2 nos 19 mm camouflaged ,finished with 4 mm thk veneer on all the exposed surfaces with Hgh Gloss PU polish and with 0.8 mm thk laminate on all the internal surfaces as per the design, The side verticals shall also be provided with 50 mm bands in BWR PLY finished with 4mm thk veener and Hgh Gloss PU polish as per the design and Drawing.				
	All the exposed edges of the Table shall be lipped with 4 mm thk veneer and finished with Hgh Gloss PU polish as per the directions and Drawing				
	The Table and side table shall be provided with Drawer unit Comprising of 3 nos of sliding drawers in 19 mm thk BWR PLY for all the verticals and horizontals with 4mm thk veneer finshed with Highgloss PU polish on all the exposed sufaces and 0.8 mm laminate on all the internal surfaces with sleek Telescopic channels, Handles ,one set locks and Necessary Hardware,ss cabel manager, required as per the Drawing				
	The table shall be provided with one CPU TROLLEY with castors, One Key board Tray with telescopic channels, and Erogonimic designed Foot rest in metal as per direction and the drawing				
	Basic rate of Veneer Rs:1500 - 1800 / SQMT.				
	Anti termite solution to be sprayed before using the BWR PLY in the work and making complete as per the design and drawing.The rate shall be inclusive of all the necessary material,required hardware, labour, transportation, necessary for the complete execution of the item.				
<b>3.2</b>	<b>DGM TABLES</b>	<b>NOS</b>	<b>16</b>		
	Providing, making and placing in position of DGM Tables and Side Table top only with verticals of approximate size 1800mm x 750mm x 750mm + 1200 mm x 450 mm x 750 mm with following specifications.				
	(a)Table Top, side Table top to be made in 19 mm BWR PLY with 1mm thk lamiante on all the exposed surfaces and 0.8mm thk laminate on all the internal surfaces.The front ,sides and back side of the table to be camouflage with 19 mm thk BWR,PLY as per the directions and Drawing.				
	Front Modesty Panel of the table shall be of 19 mm thk BWR PLY,camouflaged with 12mm thk BWR ply finished with 1 mm thk laminate as per the directtion and drawing.				

	The sides (Verticals) shall be made with 35 mm thk with 2 nos 19mm thk BWR PLY with 1mm thk lamiante on the exposed surfaces and 0.8 mm thk Laminate on all the Internal surfaces as per the directions and Drawing.				
	All the exposed edges of the Table with specified width shall be lipped with 18 mm thk beach wood and finished with Melamine polish as per the directions and Drawing				
	The Table and side table ,shall be provided with Drawer unit Comprising of 3 nos of sliding drawers in 19mm thk BWR PLY for all the verticals and horizontals with 1mm thk laminate on all the exposed sufaces and 0.8 mm thk lamiinate on all the internal surfaces as per the directions with sleek Telescopic channels, Handles ,one set locks and Necessary Hardware,SS cabel manager, required as per the Drawing				
	The table shall be provided with one CPU TROLLEY with castors, One Key board Tray with telescopic channels, and Erogonimic designed Foot rest in metal as per direction and the drawing				
	Anti termite solution to be sprayed before using the BWR PLY in the work and making complete as per the design and drawing.The rate shall be inclusive of all the necessary material,required hardware, labour, transportation, necessary for the complete execution of the item.				
<b>3.3</b>	<b>AGM TABLES</b>	<b>NOS</b>	<b>46</b>		
	Providing, making and placing in position of AGM Tables and Side Table top only with verticals of approximate size 1500mm x 750mm x 750mm + 1050 mm x 450 mm x 750 mm with following specifications.				
	(a)Table Top, side Table top to be made in 19 mm BWR PLY with 1mm thk lamiante on all the exposed surfaces and 0.8mm thk laminate on all the internal surfaces. The front ,sides and back side of the table to be camouflage with 19 mm thk BWR,PLY as per the directions and Drawing.				
	Front Modesty Panel of the table shall be of 19 mm thk BWR PLY,camouflaged with 12mm thk BWR ply finished with 1 mm thk laminate as per the directtion and drawing.				
	The sides (Verticals) shall be made with 35 mm thk with 2 nos 19mm thk BWR PLY with 1mm thk lamiante on the exposed surfaces and 0.8 mm thk Laminate on all the Internal surfaces as per the directions and Drawing.				
	All the exposed edges of the Table with specified width shall be lipped with 18 mm thk beach wood and finished with Melamine polish as per the directions and Drawing				
	The Table and side table ,shall be provided with Drawer unit Comprising of 3 nos of sliding drawers in 19mm thk BWR PLY for all the verticals and horizontals with 1mm thk laminate on all the exposed sufaces and 0.8 mm thk lamiinate on all the internal surfaces as per the directions with sleek Telescopic channels, Handles ,one set locks and Necessary Hardware,SS				

	cabel manager, required as per the Drawing				
	The table shall be provided with one CPU TROLLEY with castors, One Key board Tray with telescopic channels, and Erogenimic designed Foot rest in metal as per direction and the drawing				
	Anti termite solution to be sprayed before using the BWR PLY in the work and making complete as per the design and drawing.The rate shall be inclusive of all the necessary material,required hardware, labour, transportation, necessary for the complete execution of the item.				
<b>3.4</b>	<b>CM TABLES</b>	<b>NOS</b>	<b>37</b>		
	Providing, making and placing in position of CM Tables and Side Table top only with verticals of approximate size 1500mm x 675mm x 750mm + 1050 mm x 450 mm x 750 mm with following specifications.				
	(a)Table Top, side Table top to be made in 19 mm BWR PLY with 1mm thk lamiante on all the exposed surfaces and 0.8mm thk laminate on all the internal surfaces.The front ,sides and back side of the table to be camouflage with 19 mm thk BWR,PLY as per the directions and Drawing.				
	Front Modesty Panel of the table shall be of 19 mm thk BWR PLY,camouflaged with 12mm thk BWR ply finished with 1 mm thk laminate as per the directtion and drawing.				
	The sides (Verticals) shall be made with 35 mm thk with 2 nos 19mm thk BWR PLY with 1mm thk lamiante on the exposed surfaces and 0.8 mm thk Laminate on all the Internal surfaces as per the directions and Drawing.				
	All the exposed edges of the Table with specified width shall be lipped with 18 mm thk beach wood and finished with Melamine polish as per the directions and Drawing				
	The Table and side table ,shall be provided with Drawer unit Comprising of 3 nos of sliding drawers in 19mm thk BWR PLY for all the verticals and horizontals with 1mm thk laminate on all the exposed sufaces and 0.8 mm thk lamiinate on all the internal surfaces as per the directions with sleek Telescopic channels, Handles ,one set locks and Necessary Hardware,SS cabel manager, required as per the Drawing				
	The table shall be provided with one CPU TROLLEY with castors, One Key board Tray with telescopic channels, and Erogenimic designed Foot rest in metal as per direction and the drawing				
	Anti termite solution to be sprayed before using the BWR PLY in the work and making complete as per the design and drawing.The rate shall be inclusive of all the necessary material,required hardware, labour, transportation, necessary for the complete execution of the item.				
<b>3.5</b>	<b>WORK STATION TABLES</b>	<b>NOS</b>	<b>48</b>		

	Providing, supplying and fixing in position o Workstation Table with verticals of approximate size 1500mm x 1200mm x 600 DEPTH AND 750 MM HT mm IN "L" SHAPE as per design HAVING following specifications.				
	Table top to be made in 25mm Thk MDF Board, Shape to be made with CNC cutting Machine and finished with 1mm thk laminate on exposed surfaces and 0.8 mm thk laminate on internal surfces as per the design / directions .				
	The sides (Verticals) shall be made with 19 mm BWR PLY finished with 1mm thk Laminate on all Exposed surfaces and 0.8 mm thk laminate on all Internal surfaces as per the design .				
	The Table shall be provided with Drawer unit Comprising of 3 nos of sliding drawers in 19 mm thk BWR PLY for all the verticals and horizontals with 1mm htk laminate on all the exposed surfaces and 0.8 mm thk on all the internal surfaces with sleek Telescopic channels, Handles ,locks and Necessary Hardware,ss cabel manager, required as per the Drawing.				
	All the exposed edges of the Table to be lipped with Factory made 2mm thk PVC edge binding made as per the directions and Drawing. Edge binding at site will not accepted.				
	The table shall be provided with one CPU TROLLEY with castors, One Key board Tray with telescopic channels, and Erogonomic designed Foot rest in metal as per direction and the drawing.				
	Anti termite solution to be sprayed before using the BWR PLY in the work and making complete as per the design and drawing.The rate shall be inclusive of all the necessary material,required hardware, labour, transportation, necessary for the complete execution of the item.				
<b>3.6</b>	<b>SAME AS ABOVE LINER WORK STATIONS (1350MM x 750MM x 750MM )</b>	<b>NOS</b>	<b>4</b>		
<b>4</b>	<b>STORAGES 750MM,1200M AND 2400 MM HT IN LAMINATE</b>				
	Providing and Fixing of Low Height Storage cabinet of size upto 3000 mm X 450 mm Depth and 750 mm ht with following specifications				
	The storageTop shall be made with 19 mm thk BWR PLY finished with 1 mm thk laminate on all the exposed surfaces and 0.8 mm thk lamiante on all the internal surfaces as pe the direction and Drawing.				
	The sides and vertical dividers shall be made with 19 mm thk BWR PLY with 1mm thk laminate on all the exposed surfaces and 0.8 mm htk lamiante on all the internal surfaces as per the diretions and Drawing.				
	The back of the storage (carcass) shal be in 12mm thk BWR PLY finsihed with 0.8 mm thk laminate on the exposed and internal surfaces as per the directions and Drawing.				

	All the exposed edges of the Table shall be lipped with 18 mm thk Beach wood and finished with Melamine polish as per the directions and Drawing				
	The Storage unit shall be provided with openable shutters of 19 mm thk BWR PLY with 1mm thk laminate on all the exposed surfaces, and 0.8 mm thk laminate on all internal surfaces Comprising of 1 nos of Horizontal Shelve with 0.8 mm thk laminate on both sides ,with Handles ,one set locks and Necessary Hardware required as per the directions and Drawing				
	Anti termite solution to be sprayed before using the BWR PLY in the work and making complete as per the design and drawing.The rate shall be inclusive of all the necessary material,required hardware, labour, transportation, necessary for the complete execution of the item.				
<b>4.1</b>	<b>LEFT WING</b>				
<b>A</b>	FOR AGM'S & DGM'S BACK STORAGE UPTO 750 HT IN LAMINATE	<b>SQMTS</b>	<b>111.00</b>		
<b>C</b>	AT WORKSTATIONS UPTO 1200 HT IN LAMINATE	<b>SQMTS</b>	<b>139.00</b>		
<b>D</b>	SAME AS ABOVE BUT FINISHED IN VENEER WITH HIGH GLASS PU POLISH FOR GM. BASIC RATE OF VENEER 1500-1800 / SQMT.	<b>SQMTS</b>	<b>11.00</b>		
<b>5</b>	<b>WALLS &amp; COLUMNS PANELLING</b>				
<b>5.2</b>	<b>WALL &amp; COLUMN PANELLING IN LAMINATE</b>				
	Providing and Fixing of Wall Panelling with following specificationsSupporting system comprising of 25mm x 25 mm x 1.2 mm aluminium sections at 600 mm c/c Vertically and at floor,middle and at slab/beam bottom level with joints staggered and fixed at the slab/beam bottom,with 9 mm BWR Ply with 1mm thk laminate on all the exposed surfaces as per the directions and Drawings. The rate should include all the necessary for strengthening with studs/tracks or channels at openings as per the drawings.The rate shall be inclusive of all the necessary material,required hardware, labour, transportation, necessary for the complete execution of the item	<b>SQMTS</b>	<b>626.00</b>		
<b>5.3</b>	<b>WALL PANELLING IN VEENER</b>	<b>SQMTS</b>	<b>122.00</b>		
	Providing and Fixing of Wall Panelling with following specifications				
	Supporting system comprising of 25mm x 25 mm x 1.2 mm aluminium sections at 600 mm c/c Vertically and at floor,middle and at slab/beam bottom level with joints staggered and fixed at the slab/beam bottom. The rate should include all the necessary for strengthening with studs/tracks or channels at openings as per the drawings.				
	9mm BWR Ply in combination with 4mm thk veneers on all sides with Hgh Gloss PU polish with 4mm nail grooves as per the directions and Drawing. Basic rate of Veneer Rs: 1500 - 1800 / SQMT.				

	The rate shall be inclusive of all the necessary material,required hardware, labour, transportation, necessary for the complete execution of the item.				
<b>5.4</b>	<b>WALL PANELLING IN LACQUERED GLASS</b>				
	Providing and Fixing of Wall Panelling with following specificationsSupporting system comprising of 25mm x 25 mm x 1.2 mm aluminium sections at 600 mm c/c Vertically and at floor,middle and at slab/beam bottom level with joints staggered and fixed at the slab/beam bottom,with 9mm BWR Ply finished with 8 mm thk White Toughened LACQUERED GLASS on exposed side as per the design and drawing. The rate should include all the necessary for strengthening with studs/tracks or channels at openings as per the drawings.The rate shall be inclusive of all the necessary material,required hardware, labour, transportation, necessary for the complete execution of the item	<b>SQMTS</b>	<b>14.00</b>		
<b>6</b>	<b>FALSE CEILING</b>				
<b>6.1</b>	<b>MINERAL FIBRE CEILING TILES</b>				
	Providing and fixing in the true horizontal level false ceiling system of mineral Fibre Ceiling tiles .The suspension system shall be the Trulock Silhouette revealed profile grid system with 15mm wide flanges incorporating a 3mm or 6mm central recess color black or white revealed Silhouette main runners and cross tees to have mitered ends with birds mouth notches to provide mitered cruciform junctions. Main runners to be spaced at 12mm c/c fixed by using 2mm pre straightened GI Wire.Main tee,rotary stitched of size 15mm x44mmx3600mm at every 1200mm c/c maximum and 1200mm cross tee of size 15mmx44mm x1200mm at every 600 mm c/c maximum and 600mm c/c cross tee of size 15mmx44mmx600mm at every 1200mm c/c maximum and 19mmx19mmx3000 wall angle allround the wall to form grid size of 600mmx600mm and suspending the grid using 2mm prestraightened GI Wire and 6mm nylon raw plug at every 1200mm intervals at the main tee and laying of dunne premier micro look mineral fiber tiles manufactured by Armstrong world industries of size 600mmx600mmx15mm over the formed grid complete as directed. Note: the work includes cost and conveyance of materials and labour charges includings .All Operational charges tools lifts and all heights etc surfaces of the false ceiling should be with drop ceiling.Manufactures specifications to be strictly followed. No extra shall be payable for making cutouts and providing frame for cutouts of for making staggred ceiling making complete as per the design.The rate shall be inclusive of all the necessary material,required hardware, labour, transportation, necessary for the complete execution of the item.	<b>SQMTS</b>	<b>690.00</b>		



<b>6.2</b>	<b>GYP SUM BOARD CEILING</b>				
	<p>Providing, supplying, and fixing in position of Gypsum Board False Ceiling as per manufacturers specification and instructions with 12.5 mm thk board. Gypboard Screw- fixed to the underside of suspended G.I grid. G.I grid should be constructed and suspended from the main ceiling as per the manufactures instructions and as per the specifications using original Co. Specified framework sections G.I24 Gauge the Gypboard should be fixed to G.I Grid with 25mm long Drawali Screws. the Gypboard to be used should be 12.5mm thk tapered edge boards. the boards should be taped and filled from underside to give smooth, seamless ceiling. The rates should include necessary additional ceiling sections and intermediate channels openings for light fixtures, vertical drops offsets etc. Additional Intermediate Channels should be fixed to strap hangers for additional support to prevent strap hangers from buckling swaying at every 1200mm. Item to be completed in all respects including necessary sleeves for ducts finishings of joints cutouts supports for light fixtures A.C grills speakers etc. making complete as per the design. The rate shall be inclusive of all the necessary material, required hardware, labour, transportation, necessary for the complete execution of the item.</p> <p><b>Note: (No separate measurements will be considered for the vertical surfaces and cove lighting areas only plan are will be considered for the measurements ). The cost including 2 coats of wall care putty and one coat of primer and two coats of emulsion paint.</b></p>	<b>SQMTS</b>	<b>690.00</b>		
<b>6.3</b>	<b>VENEER CEILING WITH RAFTERS CGM / GM CABIN &amp; ISO LOUNGE</b>	<b>SQMTS</b>	<b>25.00</b>		
	Providing and Fixing of Veneer Ceiling with following specifications				
	Supporting frame system comprising of of sal wood sections of 50mm x37.5 mm thk sal wood frames at 600 mm c/c bothways and vertical drops of same section at slab with joints staggered fixed to slab. as per the directions and Drawings				
	Shall be provided with 12 mm thk BWR ply backing on sal wood frame .The ply to be finished with 4 mm thk veneer & melamine polish etc. as per directions and Drawing. Basic rate of Veneer Rs:1200 / SQMT.				
	making complete as per the design. The rate shall be inclusive of all the necessary material, required hardware, labour, transportation, necessary for the complete execution of the item.				
<b>7</b>	<b>PAINTING</b>				
<b>7.1</b>	<b>INTERIOR WALL PAINTING</b>				

	Providing, supplying, and applying of putty finish to the walls of three coats and finished with one coat primer and three coats of Royal Emulsion paint to the walls of approved and shade to suit the interiors of the corporate office. The rate shall include scrapping and preparing of the surface etc making complete fo applying of paint complete as per the desing.The rate shall be inclusive of all the necessary material,required hardware, labour, transportation, necessary for the complete execution of the item.	<b>SQMTS</b>	<b>1000</b>		
<b>7.2</b>	<b>TEXTURE PAINT</b>				
	Applying painting of two or more coats of plastic/ acryliclight textured emulsion paint of approved shade& manufactured by spectrum or equivalent conforming to ISI to walls after scraping the original surface rubbing with sand paper of zero sizefor smooth, surface ,two coats putty & two coats of emulsion paint of approves colour. Coats have to be made successively after drying each coat and finishing with sponge roller(matt finish) over a coat of approved primer with necessary scaffolding etc.	<b>SQMTS</b>	<b>200</b>		
	The rate shall be inclusive of all the necessary material,required hardware, labour, transportation, necessary for the complete execution of the item.				
<b>8</b>	<b>SHOWCASE BOXES</b>				
	Providing, making and placing in position SHOWCASE BOXES of suitable Size in AGM cabin & Conference hall and otherplaces, with 19 mm BWR ply with 4mm thk veneer finished with Highgloss PU polish on all the surfaces as per the design and provision of glass dividers of 12mm thk toughfnd fixed with brackets as per the design.The rate shall be inclusive of all the necessary material,required hardware, labour, transportation, necessary for the complete execution of the item. Basic rate of Veneer Rs:1500 - 1800 / SQMT.	<b>SQMT</b>	<b>9.00</b>		
<b>9</b>	<b>OTHER WORKS</b>				
<b>9.1</b>	<b>ROLLER BLINDS:</b>				
	Providing supplying and fixing of transperent Roller blinds of approved make,shade and texture of branded make using good quality of roller mechanism as per the direction.The rate shall be inclusive of all the necessary material,required hardware, labour, transportation, necessary for the complete execution of the item. Basic Rate:Rs 900 per SQM.	<b>SQMTS</b>	<b>84.00</b>		
<b>9.2</b>	<b>DESIGNER FILM WORK</b>				

	Providing supplying and fixing of Designer film with elipse design on all glass as per drawing and heights mentioned .The designer film is Harmony/ 3M OR APPROVED MAKE .The rate is for a finished item of work etc transperent.The rate shall be inclusive of all the necessary material,required hardware, labour, transportation, necessary for the complete execution of the item. Basic Rate:Rs 400 per SQM.	<b>SQMTS</b>	<b>250</b>		
<b>9.3</b>	<b>GLASS DIVIDERS ON WORK STATIONS</b>				
	Supplying ,Providing and fixing of Glass Dividers of 8mm thk White Lacquered glass of size 450 mm x 600 mm with D brackets 4 nos at specified palces as per the directions The rate shall be inclusive of all the material ,labour, hardware, transportation necessary required for the complete execution of the item as directed by the architect.	<b>NOS</b>	<b>19</b>		
<b>9.4</b>	<b>SOFT BOARD ON WORK STATION TABLES</b>				
	Providing & Fixing of soft board, of 600mmx450mm made with 12mm thick soft board and wraped with fabric to suit to the interiors of the bank.Basic rate of Rs. 350 per sq.mtr.The rate shall be inclusive of all the necessary material,required hardware, labour, transportation, necessary for the complete execution of the item	<b>SQMTS</b>	<b>25.00</b>		
<b>9.5</b>	<b>WHITE GLASS BOARD ON WORK STATION TABLES</b>				
	Providing, Supplying and fixing of <b>WHITE GLASS</b> on Partitions and fixed <b>WHITE SILLICA</b> with all necessary arrangement as per manufacturers specifications. The rate shall be inclusive of all the necessary material,required hardware, labour, transportation, necessary for the complete execution of the item. Basic rate of White Magnetic Board 1000 Per SQM.	<b>SQMTS</b>	<b>25.00</b>		
<b>9.6</b>	<b>DEEP CLEANING ( GROUND FLOOR AND SECOND FLOOR )</b>	<b>LS</b>	<b>1</b>		
<b>9.7</b>	<b>BUYBACK</b>				
<b>A</b>	Dismantlaing the Existing Furniture in the Ground floor and Second floor ( Partitions, doors, Ceiling, Wall panelling, tables and storage etc., as directed and Buy back of all the materials.	<b>LS</b>	<b>-1</b>		
	<b>TOTAL INTERIOR FURNISHING WORKS</b>				
<b>II</b>	<b>INTERNAL ELECTRICAL WORKS</b>				

	<p><b>The scope of the successful tenderer includes Arrangement of temporary power, Lighting, UPS wiring etc without effecting the operation of the branch working hour. Liaisoning with the supply authorities and other Government bodies if required. If any official fee payable to Telangana Power Distribution company will be reimbursed by the Bank.</b></p> <p><b>Meaning of Temporary Power: vendor has to lay suitable copper flexible cable from UPS/ raw power to counters with a protection of ELCB and laying of LAN cable also. The scope of work extends to removing of old wiring and disposal of the same from the premises.</b></p>				
<b>A</b>	<b>GROUND FLOOR LEFT WING</b>				
1	<p><b>DISTRIBUTION BOARDS:-</b> Supply, installation and concealing/surface of following size MCB/MCCB/RCBO distribution boards with following combination of C curve-MCBs as required. the scope of work includes supply of blanking plates for Vacent slots. .</p>				
1.1	<p><b>LDB</b> Ekinox<sup>3</sup> TPN DB - 6way 7 segment DB's for DX<sup>3</sup> MCB, Isolator, RCCB and RCBO :With provision for FP MCB/Isolator/RCCB/RCBO as incomer and SP MCB's as</p> <p>(1) 40 A 4 Pole MCB-1no (2) 40A 2P 30mA RCCB-3no (3)6-10A SP MCB-14no (4) 16A SP MCB-3 nos (5) 20A SP MCB-1 no</p>	<b>No</b>	<b>1</b>		
1.2	<p><b>PDB DB + AC DB:</b> 3 phase 4 way Ekinox<sup>3</sup> TPN DB-VTPN DPX<sup>3</sup> 160 MCCB DB's IP 43 - #IK 09 with metal Double door:-</p> <p>(1) 100A,25KA, 4P, MCCB-1 no (2) 63A,3P, MCB- 02 NO (3) 40A, 3P, MCB-01 No, (4) 6-32A, SP MCB-3 No</p> <p>Note: for indicating lamps, tap the power supply from output of incomer</p>	<b>No</b>	<b>2</b>		
1.3	<p><b>UPS DB</b> <b>3 phase 4 way Ekinox<sup>3</sup> TPN DB-VTPN DB's for DX<sup>3</sup> MCB, IP 43 - #IK 09 with metal Double door:-</b></p> <p>(1) 63A, 4P, MCB-1 no ( (2)63A,4P, 100mA, RCCB-1 no (3) 32A,3P, MCB- 02 NO (4) 6-32A SP MCB-3 No</p>	<b>No</b>	<b>1</b>		

1.4	UPS Output Dbs Ekinox <sup>3</sup> 4 way ETPN DB's for DX <sup>3</sup> MCB, Isolator, RCCB and RCBO IP 43 - #IK 09 with Double door. (1)63A,4P, MCB-1no (2)40A, 2P, MCB-1no (3)32A,4P, MCB-1no (4)6A,2P, MCB-1no (5)6A,2P,MCB-1 No	No	3		
1.5	2 pole 32A MCB in a suitable enclosure	No	1		
2	<b>ARMOURED CABLES FOR DB INPUT, CASSETTE ACS &amp; UPS INPUT DB:-</b> Supply,Laying, Testing and commissioning of 1.1 KV grade XLPE insulated armoured alluminium/copper conductor cable of the following size including laying in trenches, cable trays, on wall including claming and including civil works etc complete as per IS 7098 - Part 1 - 1983. The scope of work includes supply & laying of 2 runs of 8 SWG GI wire along with the cable				
2.1	3.5C X35sqmm Al AR cable for PDB and AC DB	Rmt	150		
2.2	3.5C*25 sqmm Al AR cable for LDB	Rmt	75		
2.3	4C X 10 sqmm CU AR cable for UPS input DB	Rmt	75		
2.4	4C *4sqmm Cu ar cable from UPS DB to UPS o/p DB	Rmt	160		
2.5	3C *4 sqmm CU ar cable fo rGM cabin AC	Rmt	60		
3	<b>TERMINATIONS:</b> Termination of the following cables with <b>double compression(DC) cable glands</b> and also with suitable size alluminium/copper lugs including supply and fixing of Lugs.				
3.1	3.5C X35sqmm Al AR cable for PDB and AC DB	No	6		
3.2	3.5C*25 sqmm Al AR cable for LDB	No	2		
3.3	4C X 10 sqmm CU AR cable for UPS input DB	No	2		
3.4	4C *4sqmm Cu ar cable from UPS DB to UPS o/p DB	No	9		
3.5	3C *4 sqmm CU ar cable	No	4		
4	<b>LIGHT &amp; FAN POINT WIRING:-</b> Point Wiring for Light/fan point with 3X1.5 sqmm copper conductor FRLS insulated 1100v grade multi strand wires (P+N+E) in concealed/ surface using 20/25/32 Medium duty FRLS PVC conduit 16swg thick with all bend, tees, saddle mounting box, cover plate, ceiling rose, etc. complete as required etc. The scope of work includes the circuit wiring from DB to point control box /switch box using 3x2.5 sqmm copper conductor FRLS insulated 1100V grade multistrand wire (P+N+E) in FRLS PVC conduit 16 swg thick complete in all respect. Each circuit shall have separate earth wire. All switch socket must be modular type with M.S. Boxes and plate etc. as required. Without Banks instructions, if contractor executes primary points morethan given quantity , it will be treated as				

	secondary points only. Use ferrouling for all wires				
4.1	Primary points	No	70		
4.2	same as the above secondary point ( only one secondary point on the primary point	No	30		
4.3	one switch controlled by three lights	No	3		
4.4	Call bell points for the cabins including supply of call bell as required	No	6		
5	MODULAR SOCKETS: Supply and fixing of switch(s) & socket(s) fixed on a suitable module metal box(16 guage) and white front plate (Modular type) including all interconnections as required and blank plate has to be provided if necessary. The scope of work extends to Supply and wiring with 2runs of 4.0 sq.mm & one run of 2.5sqmm 1100 V grade PVC insulated multi strand FRLS 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/ raw power sockets in the single window counters and officer tables. use ferruling for all wires				
5.1	PRIMARY POINT: RAW POWER 1 no of 6/16A socket with 1 no of 16A switch For power point in banking hall cooler, Kitch	No	4		
5.2	PRIMARY POINT: RAW POWER 2 nos of 6/16A socket with 2 no of 16A switch For Kitchen	No	4		
6	Supply and fixing of switch(s) & socket(s) fixed on a suitable module metal box(16 guage) and white front plate (Modular type) including all interconnections as required and blank plate has to be provided if necessary. The scope of work extends to Supply and wiring with 3runs of 2.5 sq.mm 1100 V grade PVC insulated multi strand FRLS 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/ raw power sockets in the single window counters and officer tables. use ferruling for all wires				
6.1	PRIMARY POINT:UPS POWER 4nos. 6A sockets with 1 no 16A switch for NET WORK RACK, CCTV, FIRE PANEL etc)	No	4		
7	Supply and fixing of switch(s) & socket(s) fixed on a suitable module metal box(16 guage) and white front plate (Modular type) including all interconnections as required and blank plate has to be provided if necessary. The scope of work extends to Supply and wiring with 3runs of 1.5 sq.mm 1100 V grade PVC insulated multi strand FRLS 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/ raw power sockets in the single window counters and officer tables. if these sockets are mounted in SB ( along with point wiring) we will treat it as on board socket.use ferruling for all wires				
7.1	PRIMARY POINT:UPS POWER 4nos. 6A sockets with 1 no 16A switch (Switch shall be fixed above the table and sockets shall be fixed below table etc)	No	16		
7.2	SECONDARY POINT:UPS POWER 4nos. 6A sockets with 1 no 16A switch (Switch shall be fixed above the table and sockets shall be fixed below table etc)	no	20		
7.3	PRIMARY POINT: RAW POWER 2nos 6A SocketS with 1 No of 6A switch (Raw Sockets)- for counters( Switch & Socket should be mounted above the table	No	16		
7.4	SECONDARY POINT: RAW POWER (2 X6A socket & 1 X6A switch) same as above but looped from nearest point (Primary point to Secondary point) from counter to counter	No	20		
7.5	PRIMARY POINT:UPS/ RAW POWER 2 nos of 6A socket with 2 no of 6A switch PRINTERS, COMMON AREAS	No	6		
8	Supply and fixing of switch(s) & socket(s) fixed on a suitable module metal box(16 guage) and white front plate (Modular type) including all interconnections as required and blank plate has to be provided if necessary.				
8.1	ON BOARD SWITCH & SOCKET 1 no of 6A socket with 1 no of 6A switch and it should be fixed in the switch board -RAW POWER	No	2		
8.2	SOCKET FOR WALL MOUNTING FAN 1 no of 6A socket 3" below the false ceiling for wall mounting fan - RAW POWER	No	26		
9	NETWORKING				
9.1	POINT WIRING:Supplying, laying, tesing and commissioning of four pair CAT 6, UTP cable 23 AWG solid bare copper or better;Insulation - Polyethylene;Jacket - Flame Retardant PVC;Pair Separator - Star Quad Separator or equivalent; 250 MHz;UL Subject 444, EIAITIA-568 B.2.1, ISO/IEC 11801 & IEC61156-5for LAN in a suitable FRLS PVC conduit of 2mm thick and making connection on both ends complete as required with all acessories including labour charges. The scope of work includes supply & fixing of RJ-45 LAN socket outlet(I/O) in GI metal box and front cover plate .use ferruling for all wires	No	38		
9.2	SITC of branded UTP Category 6 four pair, 1 meter Patch Cord with factory crimped boots on RJ 45 plugs at both ends. Should conform or exceed ISO/IEC 11801, EIA/TIA 568, EN50173 and UL, ETL	No	38		
9.3	SITC of branded UTP Category 6 four pair, 2 meter Patch Cord with factory crimped boots on RJ 45 plugs at both ends. Should	No	38		

	conform or exceed ISO/IEC 11801, EIA/TIA 568, EN50173 and UL, ETL				
9.4	Supply of Cat-6 24 port jack panel make-D-link or equivalent	<b>No</b>	<b>2</b>		
9.5	Supply of 9U wall mount rack with all accessories(self, power manager, cable Manager, Fan etc. Pl note that while installing the rack, power supply sockets and switch to be installed above the rack. To avoid loose hanging power wires.	<b>No</b>	<b>1</b>		
10	<b>TELEPHONE WIRING</b>				
10.1	<b>POINT WIRING</b> Supply, installation, testing and commissioning of high Conductivity Solid Annealed Bare Copper industrial 0.5mm dia Telephone (Switchboard) Cables with High Density Polyethylene Insulation, Paired, Polyester and Sheathed with High Oxygen Index, Fire Retardant, PVC Compound, Grey Outer Sheath generally conforming ITD Specification. the scope of work inclusive of all fixing accessories & laying in a suitable ISI medium PVC conduit. The scope of work extends to Supply and Fixing of modular type RJ11 Telephone outlet with anodized GI box and front plate complete as required. use ferruling for all wires				
10.2	2 pair -Primary	<b>No</b>	<b>16</b>		
10.3	2 pair- Secondary	<b>No</b>	<b>10</b>		
10.4	<b>KRONE ENCLOSURE</b>				
	Supply, installation, testing & commissioning of Telephone krone in an MS powder coated enclosure for the following sizes..				
10.5	50 PAIR KRONE	<b>No</b>	<b>1</b>		
<b>11</b>	<b>PA &amp; MUSIC SYSTEM</b>				
11.1	S & I of point wiring for music - cum PA system comprising of 2x 1.0 sqmm stranded , copper conductor , flexible PVC insulated and PVC Sheathed wire pulled through 20 mm dia FRLS PVC heavy gauge conduits and looped from one speaker to other and to the volume control and control switch wherever applicable and finally terminated at Tag Block.	<b>Pts.</b>	<b>10</b>		
11.2	S & I of Philips / Bosch/Ahuja make music 6W (101.6mm Diameter) speaker flush mounted on the false ceiling with proper clamping arrangement	<b>Nos.</b>	<b>10</b>		
11.3	S & I of 100 Watts BOSCH/Ahuja make Central Music System Amplifier and MP3/CD/USB Player with FM facility of make Samsung/Onida/LG.	<b>SET</b>	<b>1</b>		
12	<b>FIXTURES/FANS( All light fixtures and fans to be supplied COMMERCIAL MODELS only)</b> Supply & Installation of following type direct/ indirect type recess/surface/ wall mounted 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. including cost and conveyance of all materials, taxes and all labor charges etc.,				



	complete.				
12.1	Supply & Installation of 12-15W COB Led down light fixture. including cost and conveyance of all materials, taxes and all labor charges etc., complete.	No	30		
12.2	Supply & Installation of 33-36W 2X2 LedLight fixtures (Havells - PLANO2X2PLR36WLED857S / VENUSNEOHE2X2PLR34WLED8XXS or CROMPTON: LCTLRNE-36-FO-CDL or Philips RC 375B30S 6500K or Equ) including cost and conveyance of all materials, taxes and all labor charges etc., complete. Weight of the light should not be on the grid/ Gypsum ceiling. light has to be fixed with the help of GI/chain wires and to the anchored to the ceiling.	No	36		
12.3	Supply & Installation of 610x610 LedLight fixtures Frames including cost and conveyance of all materials, taxes and all labor charges etc., complete.	No	36		
12.4	Supply & Installation of 9-12W T5 led Light fixtures and giving connections and all labour charges etc., complete for erection. (LUMILINEBS9WLED857SPCWH - Havels or BN021-12S in Philips or Equ)	No	3		
12.5	Supply and Installation of 18-20W T5 fixtures SURFACE type with all interconnections and fixing arrangement as required. (LUMILINEBS18WLED857SPCWH - Havels or BN021-21S in Philips or CROMPTON: CCS-103-20-65-SL-DP-NWH or equivalent)	No	10		
12.6	supply & fixing of 20 watts per meter rope lights	Rmt	60		
12.7	WALL MOUNTING FANS Supply and Fixing of 17-18 inch metal(body & Blades) wall mounted fans with 3 pin socket, fan body should be earthed if 3 pin socket not available in the market .(BM,counters,Server RM, Field Officer, ), Make:ACVORTEX18mm model(450mm sweep) in CG or MARK II WALL FAN model in ALMONARD 18" 450MM equivalent OR SUPREME PLUS IN BAJAJ	No	1		
12.8	EXHAIST FAN:- Supply & Installation of fresh air exhaust fan 50W of light duty 300mm size (12"), Metallic body & blades, wire mesh, bird louvers etc. including cost and conveyance of all materials, taxes and all labor charges etc., complete for erection	No	4		
12.9	CEILING FAN:- supply & Fixing of 1200mm sweep 5 star High speed ceiling fan with electronic step regulator in suitable locations as required. And Supplying of double anchor fastener hooks and down rods . complete in all respects as directed by Bank. CG/ Havells	No	3		
13	Supply & fixing of occupancy sensor	No	3		
14	Supply and Fixing of modular type TV. Socket outlet with anodized GI box and front plate complete as required. Supply and Laying of RG 11 Coaxial TV cable in PVC Conduits Supply and Fixing of 4way TV Splitter in a MS powder coated enclosure	No	10.00		

<b>B</b>	<b>GROUND FLOOR RIGHT WING</b>				
1	<b>DISTRIBUTION BOARDS:-</b> Supply, installation and concelling/surface of following size MCB/MCCB/RCBO distribution boards with following combination of C curve-MCBs as required. the scope of work includes supply of blanking paltes for Vacent slots. .				
1.1	<b>LDBEkinox<sup>3</sup> TPN DB - 6way 7 segment DB's for DX<sup>3</sup> MCB, Isolator, RCCB and RCBO :With provision for FP MCB/Isolator/RCCB/RCBO as incomer and SP MCB's as</b> (1) 40 A 4 Pole MCB-1no (2) 40A 2P 30mA RCCB-3no (3)6-10A SP MCB-14no (4) 16A SP MCB-3 nos (5) 20A SP MCB-1 no	<b>No</b>	<b>1</b>		
1.2	<b>PDB DB + AC DB:</b> 3 phase 4 way Ekinox <sup>3</sup> TPN DB-VTPN DPX <sup>3</sup> 160 MCCB DB's IP 43 - #IK 09 with metal Double door:- (1) 100A,25KA, 4P, MCCB-1 no (2) 63A,3P, MCB- 02 NO (3) 40A, 3P, MCB-01 No, (4) 6-32A, SP MCB-3 No Note: for indicating lamps, tap the power supply from output of incomer	<b>No</b>	<b>2</b>		
1.3	<b>UPS DB</b> <b>3 phase 4 way Ekinox<sup>3</sup> TPN DB-VTPN DB's for DX<sup>3</sup> MCB, IP 43 - #IK 09 with metal Double door:-</b> (1) 63A, 4P, MCB-1 no ( (2)63A,4P, 100mA, RCCB-1 no (3) 32A,3P, MCB- 02 NO (4) 6-32A SP MCB-3 No	<b>No</b>	<b>1</b>		
1.4	UPS Output Dbs Ekinox <sup>3</sup> 4 way ETPN DB's for DX <sup>3</sup> MCB, Isolator, RCCB and RCBO IP 43 - #IK 09 with Double door. (1)63A,4P, MCB-1no (2)40A, 2P, MCB-1no (3)32A,4P, MCB-1no (4)6A,2P, MCB-1no (5)6A,2P,MCB-1 No	<b>No</b>	<b>3</b>		
1.5	2 pole 32A MCB in a suitable enclosure	<b>No</b>	<b>1</b>		
2	<b>ARMOURED CABLES FOR DB INPUT, CASSETTE ACS &amp; UPS INPUT DB:-</b> Supply,Laying, Testing and commissioning of 1.1 KV grade XLPE insulated armoured alluminium/copper conductor cable of the following size including laying in trenches, cable trays, on wall including claming and including civil works etc complete as per IS 7098 - Part 1 - 1983. The scope of work includes supply & laying of 2 runs of 8 SWG GI wire along				

	with the cable				
2.1	3.5C X35sqmm Al AR cable for PDB and AC DB	<b>Rmt</b>	<b>150</b>		
2.2	3.5C*25 sqmm Al AR cable for LDB	<b>Rmt</b>	<b>75</b>		
2.3	4C X 10 sqmm CU AR cable for UPS input DB	<b>Rmt</b>	<b>75</b>		
2.4	4C *4sqmm Cu ar cable from UPS DB to UPS o/p DB	<b>Rmt</b>	<b>160</b>		
2.5	3C *4 sqmm CU ar cable fo rGM cabin AC	<b>Rmt</b>	<b>60</b>		
3	<b>TERMINATIONS:</b> Termination of the following cables with <b>double compression(DC) cable glands</b> and also with suitable size alluminium/copper lugs including supply and fixing of Lugs.				
3.1	3.5C X35sqmm Al AR cable for PDB and AC DB	<b>No</b>	<b>6</b>		
3.2	3.5C*25 sqmm Al AR cable for LDB	<b>No</b>	<b>2</b>		
3.3	4C X 10 sqmm CU AR cable for UPS input DB	<b>No</b>	<b>2</b>		
3.4	4C *4sqmm Cu ar cable from UPS DB to UPS o/p DB	<b>No</b>	<b>9</b>		
3.5	3C *4 sqmm CU ar cable	<b>No</b>	<b>4</b>		
4	<b>LIGHT &amp; FAN POINT WIRING:-</b> Point Wiring for Light/fan point with 3X1.5 sqmm copper conductor FRLS insulated 1100v grade multi strand wires (P+N+E) in concealed/ surface using 20/25/32 Medium duty FRLS PVC conduit 16swg thick with all bend, tees, saddle mounting box, cover plate, ceiling rose, etc. complete as required etc. The scope of work includes the circuit wiring from DB to point control box /switch box using 3x2.5 sqmm copper conductor FRLS insulated 1100V grade multistrand wire (P+N+E) in FRLS PVC conduit 16 swg thick complete in all respect. Each circuit shall have separate earth wire. All switch socket must be modular type with M.S. Boxes and plate etc. as required. Without Banks instructions, if contractor executes primary points morethan given quantity , it will be treated as secondary points only. Use ferrouling for all wires				
4.1	Primary points	<b>No</b>	<b>70</b>		
4.2	same as the above secondary point ( only one secondary point on the primary point	<b>No</b>	<b>30</b>		
4.3	one switch controlled by three lights	<b>No</b>	<b>3</b>		
4.4	Call bell points for the cabins including supply of call bell as required	<b>No</b>	<b>6</b>		
5	<b>MODULAR SOCKETS:</b> Supply and fixing of switch(s) & socket(s) fixed on a suitable module metal box(16 guage) and white front plate (Modular type) including all interconnections as required and blank plate has to be provided if necessary. The scope of work extends to Supply and wiring with 2runs of 4.0 sq.mm & one run of 2.5sqmm 1100 V grade PVC insulated multi strand FRLS 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/ raw power sockets in the single window counters and officer tables. use ferruling for all wires				
5.1	PRIMARY POINT: RAW POWER 1 no of 6/16A socket with 1 no of 16A switch For power point in banking hall cooler, Kitch	No	4		
5.2	PRIMARY POINT: RAW POWER 2 nos of 6/16A socket with 2 no of 16A switch For Kitchen	No	4		
6	Supply and fixing of switch(s) & socket(s) fixed on a suitable module metal box(16 guage) and white front plate (Modular type) including all interconnections as required and blank plate has to be provided if necessary. The scope of work extends to Supply and wiring with 3runs of 2.5 sq.mm 1100 V grade PVC insulated multi strand FRLS 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/ raw power sockets in the single window counters and officer tables. use ferruling for all wires				
6.1	PRIMARY POINT:UPS POWER 4nos. 6A sockets with 1 no 16A switch for NET WORK RACK, CCTV, FIRE PANEL etc)	No	4		
7	Supply and fixing of switch(s) & socket(s) fixed on a suitable module metal box(16 guage) and white front plate (Modular type) including all interconnections as required and blank plate has to be provided if necessary. The scope of work extends to Supply and wiring with 3runs of 1.5 sq.mm 1100 V grade PVC insulated multi strand FRLS 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/ raw power sockets in the single window counters and officer tables. if these sockets are mounted in SB ( along with point wiring) we will treat it as on board socket.use ferruling for all wires				
7.1	PRIMARY POINT:UPS POWER 4nos. 6A sockets with 1 no 16A switch (Switch shall be fixed above the table and sockets shall be fixed below table etc)	No	25		
7.2	SECONDARY POINT:UPS POWER 4nos. 6A sockets with 1 no 16A switch (Switch shall be fixed above the table and sockets shall be fixed below table etc)	no	25		
7.3	PRIMARY POINT: RAW POWER 2nos 6A SocketS with 1 No of 6A switch (Raw Sockets)- for counters( Switch & Socket should be mounted above the table	No	25		
7.4	SECONDARY POINT: RAW POWER (2 X6A socket & 1 X6A switch)	No	25		

	same as above but looped from nearest point (Primary point to Secondary point) from counter to counter				
7.5	PRIMARY POINT:UPS/ RAW POWER 2 nos of 6A socket with 2 no of 6A switch PRINTERS, COMMON AREAS	No	6		
8	Supply and fixing of switch(s) & socket(s) fixed on a suitable module metal box(16 guage) and white front plate (Modular type) including all interconnections as required and blank plate has to be provided if necessary.				
8.1	ON BOARD SWITCH & SOCKET 1 no of 6A socket with 1 no of 6A switch and it should be fixed in the switch board -RAW POWER	No	2		
8.2	SOCKET FOR WALL MOUNTING FAN 1 no of 6A socket 3" below the false ceiling for wall mounting fan - RAW POWER	No	42		
9	NETWORKING				
9.1	POINT WIRING: Supplying, laying, tesing and commissioning of four pair CAT 6, UTP cable 23 AWG solid bare copper or better;Insulation - Polyethylene;Jacket - Flame Retardant PVC;Pair Separator - Star Quad Separator or equivalent; 250 MHz;UL Subject 444, EIA/TIA-568 B.2.1, ISO/IEC 11801 & IEC61156-5for LAN in a suitable FRLS PVC conduit of 2mm thick and making connection on both ends complete as required with all accessories including labour charges. The scope of work includes supply & fixing of RJ-45 LAN socket outlet(I/O) in GI metal box and front cover plate .use ferruling for all wires	No	62		
9.2	SITC of branded UTP Category 6 four pair, 1 meter Patch Cord with factory crimped boots on RJ 45 plugs at both ends. Should conform or exceed ISO/IEC 11801, EIA/TIA 568, EN50173 and UL, ETL	No	62		
9.3	SITC of branded UTP Category 6 four pair, 2 meter Patch Cord with factory crimped boots on RJ 45 plugs at both ends. Should conform or exceed ISO/IEC 11801, EIA/TIA 568, EN50173 and UL, ETL	No	62		
9.4	Supply of Cat-6 24 port jack panel make-D-link or equlent	No	2		
9.5	Supply of 9U wall mount rack with all accessories(self, power manager, cable Manager, Fan etc. Pl note that while installing the rack, power supply sockets and switch to be installaed above the rack. To avoid loose hanging power wires.	No	1		
10	TELI PHONE WIRING				
10.1	POINT WIRING Supply, installation, testing and commissioing of high Conductivity Solid Annealed Bare Copper industrial 0.5mm dia Telephone (Switchboard) Cables with High Density Polyethylene Insulation, Paired, Polyester and Sheathed with High Oxygen Index, Fire Retardant, PVC Compound, Grey Outer Sheath generally conforming ITD Specification. the scope of work inclusive of all fixing accessories & laying in a				

	suitable ISI medium PVC conduit. The scope of work extends to Supply and Fixing of modular type RJ11 Telephone outlet with anodized GI box and front plate complete as required. use ferruling for all wires				
10.2	2 pair -Primary	<b>No</b>	<b>25</b>		
10.3	2 pair- Secondary	<b>No</b>	<b>20</b>		
10.4	KRONE ENCLOSURE				
	Supply, installation, testing & commissioning of Telephone krone in an MS powder coated enclosure for the following sizes..				
10.5	50 PAIR KRONE	<b>No</b>	<b>1</b>		
<b>11</b>	<b>PA &amp; MUSIC SYSTEM</b>				
11.1	S & I of point wiring for music - cum PA system comprising of 2x 1.0 sqmm stranded , copper conductor , flexible PVC insulated and PVC Sheathed wire pulled through 20 mm dia FRLS PVC heavy gauge conduits and looped from one speaker to other and to the volume control and control switch wherever applicable and finally terminated at Tag Block.	<b>Pts.</b>	<b>10</b>		
11.2	S & I of Philips / Bosch/Ahuja make music 6W (101.6mm Diameter) speaker flush mounted on the false ceiling with proper clamping arrangement	<b>Nos.</b>	<b>10</b>		
11.3	S & I of 100 Watts BOSCH/Ahuja make Central Music System Amplifier and MP3/CD/USB Player with FM facility of make Samsung/Onida/LG.	<b>SET</b>	<b>1</b>		
12	FIXTURES/FANS( All light fixtures and fans to be supplied COMMERCIAL MODELS only) Supply & Installation of following type direct/ indirect type recess/surface/ wall mounted 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. including cost and conveyance of all materials, taxes and all labor charges etc., complete.				
12.1	Supply & Installation of 12-15W COB Led down light fixture. including cost and conveyance of all materials, taxes and all labor charges etc., complete.	<b>No</b>	<b>30</b>		
12.2	Supply & Installation of 33-36W 2X2 LedLight fixtures (Havells - PLANO2X2PLR36WLED857S / VENUSNEOHE2X2PLR34WLED8XXS or CROMPTON: LCTRLNE-36-FO-CDL or Philips RC 375B30S 6500K or Equ) including cost and conveyance of all materials, taxes and all labor charges etc., complete. Weight of the light should not be on the grid/ Gypsum ceiling. light has to be fixed with the help of GI/chain wires and to be anchored to the ceiling.	<b>No</b>	<b>36</b>		
12.3	Supply & Installation of 610x610 LedLight fixtures Frames including cost and conveyance of all materials, taxes and all labor charges etc., complete.	<b>No</b>	<b>36</b>		

12.4	Supply & Installation of 9-12W T5 led Light fixtures and giving connections and all labour charges etc., complete for erection. (LUMILINEBS9WLED857SPCWH - Havels or BN021-12S in Philips or Equ)	No	3		
12.5	Supply and Installation of 18-20W T5 fixtures SURFACE type with all interconnections and fixing arrangement as required. (LUMILINEBS18WLED857SPCWH - Havels or BN021-21S in Philips or CROMPTON: CCS-103-20-65-SL-DP-NWH or equivalent)	No	10		
12.6	supply & fixing of 20 watts per meter rope lights	Rmt	60		
12.7	WALL MOUNTING FANS Supply and Fixing of 17-18 inch metal(body & Blades) wall mounted fans with 3 pin socket, fan body should be earthed if 3 pin socket not available in the market .(BM,counters,Server RM, Field Officer, ), Make:ACVORTEX18mm model(450mm sweep) in CG or MARK II WALL FAN model in ALMONARD 18" 450MM equivalent OR SUPREME PLUS IN BAJAJ	No	1		
12.8	EXHAIST FAN:- Supply & Installation of fresh air exhaust fan 50W of light duty 300mm size (12"), Metallic body & blades, wire mesh, bird louvers etc. including cost and conveyance of all materials, taxes and all labor charges etc., complete for erection	No	4		
12.9	CEILING FAN:- supply & Fixing of 1200mm sweep 5 star High speed ceiling fan with electronic step regulator in suitable locations as required. And Supplying of double anchor fastener hooks and down rods . complete in all respects as directed by Bank. CG/ Havells	No	3		
13	Supply & fixing of occupancy sensor	No	3		
	Supply and Fixing of modular type TV. Socket outlet with anodized GI box and front plate complete as required. Supply and Laying of RG 11 Coaxial TV cable in PVC Conduits Supply and Fixing of 4way TV Splitter in a MS powder coated enclosure	No	10.00		
<b>C</b>	<b>SECOND FLOOR LEFT WING</b>				
1	DISTRIBUTION BOARDS:- Supply, installation and concelling/surface of following size MCB/MCCB/RCBO distribution boards with following combination of C curve-MCBs as required. the scope of work includes supply of blanking paltes for Vacent slots. .				

1.1	<b>LDB</b> Ekinox <sup>3</sup> TPN DB - 6way 7 segment DB's for DX <sup>3</sup> MCB, Isolator, RCCB and RCBO :With provision for FP MCB/Isolator/RCCB/RCBO as incomer and SP MCB's as (1) 40 A 4 Pole MCB-1no (2) 40A 2P 30mA RCCB-3no (3)6-10A SP MCB-14no (4) 16A SP MCB-3 nos (5) 20A SP MCB-1 no	No	1		
1.2	<b>PDB DB + AC DB:</b> 3 phase 4 way Ekinox <sup>3</sup> TPN DB-VTPN DPX <sup>3</sup> 160 MCCB DB's IP 43 - #IK 09 with metal Double door:- (1) 100A,25KA, 4P, MCCB-1 no (2) 63A,3P, MCB- 02 NO (3) 40A, 3P, MCB-01 No, (4) 6-32A, SP MCB-3 No Note: for indicating lamps, tap the power supply from output of incomer	No	2		
1.3	<b>UPS DB</b> <b>3 phase 4 way Ekinox<sup>3</sup> TPN DB-VTPN DB's for DX<sup>3</sup> MCB, IP 43 - #IK 09 with metal Double door:-</b> (1) 63A, 4P, MCB-1 no ( (2)63A,4P, 100mA, RCCB-1 no (3) 32A,3P, MCB- 02 NO (4) 6-32A SP MCB-3 No	No	1		
1.4	UPS Output Dbs Ekinox <sup>3</sup> 4 way ETPN DB's for DX <sup>3</sup> MCB, Isolator, RCCB and RCBO IP 43 - #IK 09 with Double door. (1)63A,4P, MCB-1no (2)40A, 2P, MCB-1no (3)32A,4P, MCB-1no (4)6A,2P, MCB-1no (5)6A,2P,MCB-1 No	No	3		
1.5	2 pole 32A MCB in a suitable enclosure	No	1		
2	<b>ARMOURED CABLES FOR DB INPUT, CASSETTE ACS &amp; UPS INPUT DB:-</b> Supply,Laying, Testing and commissioning of 1.1 KV grade XLPE insulated armoured alluminium/copper conductor cable of the following size including laying in trenches, cable trays, on wall including claming and including civil works etc complete as per IS 7098 - Part 1 - 1983. The scope of work includes supply & laying of 2 runs of 8 SWG GI wire along with the cable				
2.1	3.5C X35sqmm Al AR cable for PDB and AC DB	Rmt	150		
2.2	3.5C*25 sqmm Al AR cable for LDB	Rmt	75		
2.3	4C X 10 sqmm CU AR cable for UPS input DB	Rmt	75		
2.4	4C *4sqmm Cu ar cable from UPS DB to UPS o/p DB	Rmt	160		



2.5	3C *4 sqmm CU ar cable fo rGM cabin AC	<b>Rmt</b>	<b>60</b>		
3	<b>TERMINATIONS:</b> Termination of the following cables with <b>double compression(DC) cable glands</b> and also with suitable size alluminium/copper lugs including supply and fixing of Lugs.				
3.1	3.5C X35sqmm Al AR cable for PDB and AC DB	<b>No</b>	<b>6</b>		
3.2	3.5C*25 sqmm Al AR cable for LDB	<b>No</b>	<b>2</b>		
3.3	4C X 10 sqmm CU AR cable for UPS input DB	<b>No</b>	<b>2</b>		
3.4	4C *4sqmm Cu ar cable from UPS DB to UPS o/p DB	<b>No</b>	<b>9</b>		
3.5	3C *4 sqmm CU ar cable	<b>No</b>	<b>4</b>		
4	<b>LIGHT &amp; FAN POINT WIRING:-</b> Point Wiring for Light/fan point with 3X1.5 sqmm copper conductor FRLS insulated 1100v grade multi strand wires (P+N+E) in concealed/ surface using 20/25/32 Medium duty FRLS PVC conduit 16swg thick with all bend, tees, saddle mounting box, cover plate, ceiling rose, etc. complete as required etc. The scope of work includes the circuit wiring from DB to point control box /switch box using 3x2.5 sqmm copper conductor FRLS insulated 1100V grade multistrand wire (P+N+E) in FRLS PVC conduit 16 swg thick complete in all respect. Each circuit shall have separate earth wire. All switch socket must be modular type with M.S. Boxes and plate etc. as required. Without Banks instructions, if contractor executes primary points morethan given quantity , it will be treated as secondary points only. Use ferrouling for all wires				
4.1	Primary points	<b>No</b>	<b>70</b>		
4.2	same as the above secondary point ( only one secondary point on the primary point	<b>No</b>	<b>30</b>		
4.3	one switch controlled by three lights	<b>No</b>	<b>3</b>		
4.4	Call bell points for the cabins including supply of call bell as required	<b>No</b>	<b>6</b>		
5	<b>MODULAR SOCKETS:</b> Supply and fixing of switch(s) & socket(s) fixed on a suitable module metal box(16 guage) and white front plate (Modular type) including all interconnections as required and blank plate has to be provided if necessary. The scope of work extends to Supply and wiring with 2runs of 4.0 sq.mm & one run of 2.5sqmm 1100 V grade PVC insulated multi strand FRLS 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/ raw power sockets in the single window counters and officer tables. use ferruling for all wires				
5.1	<b>PRIMARY POINT: RAW POWER</b> 1 no of 6/16A socket with 1 no of 16A switch For power point	<b>No</b>	<b>4</b>		

	in banking hall cooler, Kitch				
5.2	PRIMARY POINT: RAW POWER 2 nos of 6/16A socket with 2 no of 16A switch For Kitchen	No	4		
6	Supply and fixing of switch(s) & socket(s) fixed on a suitable module metal box(16 guage) and white front plate (Modular type) including all interconnections as required and blank plate has to be provided if necessary. The scope of work extends to Supply and wiring with 3runs of 2.5 sq.mm 1100 V grade PVC insulated multi strand FRLS 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/raw power sockets in the single window counters and officer tables. use ferruling for all wires				
6.1	PRIMARY POINT:UPS POWER 4nos. 6A sockets with 1 no 16A switch for NET WORK RACK, CCTV, FIRE PANEL etc)	No	4		
7	Supply and fixing of switch(s) & socket(s) fixed on a suitable module metal box(16 guage) and white front plate (Modular type) including all interconnections as required and blank plate has to be provided if necessary. The scope of work extends to Supply and wiring with 3runs of 1.5 sq.mm 1100 V grade PVC insulated multi strand FRLS 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/raw power sockets in the single window counters and officer tables. if these sockets are mounted in SB ( along with point wiring) we will treat it as on board socket.use ferruling for all wires				
7.1	PRIMARY POINT:UPS POWER 4nos. 6A sockets with 1 no 16A switch (Switch shall be fixed above the table and sockets shall be fixed below table etc)	No	20		
7.2	SECONDARY POINT:UPS POWER 4nos. 6A sockets with 1 no 16A switch (Switch shall be fixed above the table and sockets shall be fixed below table etc)	no	24		
7.3	PRIMARY POINT: RAW POWER 2nos 6A SocketS with 1 No of 6A switch (Raw Sockets)- for counters( Switch & Socket should be mounted above the table	No	20		
7.4	SECONDARY POINT: RAW POWER (2 X6A socket & 1 X6A switch)same as above but looped from nearest point (Primary point to Secondary point) from counter to counter	No	24		
7.5	PRIMARY POINT:UPS/ RAW POWER 2 nos of 6A socket with 2 no of 6A switch PRINTERS, COMMON AREAS	No	6		

8	Supply and fixing of switch(s) & socket(s) fixed on a suitable module metal box(16 guage) and white front plate (Modular type) including all interconnections as required and blank plate has to be provided if necessary.				
8.1	ON BOARD SWITCH & SOCKET 1 no of 6A socket with 1 no of 6A switch and it should be fixed in the switch board -RAW POWER	No	2		
8.2	SOCKET FOR WALL MOUNTING FAN 1 no of 6A socket 3" below the false ceiling for wall mounting fan - RAW POWER	No	34		
9	NETWORKING				
9.1	POINT WIRING: Supplying, laying, tesing and commissioning of four pair CAT 6, UTP cable 23 AWG solid bare copper or better;Insulation - Polyethylene;Jacket - Flame Retardant PVC;Pair Separator - Star Quad Separator or equivalent; 250 MHZ;UL Subject 444, EIA/TIA-568 B.2.1, ISO/IEC 11801 & IEC61156-5for LAN in a suitable FRLS PVC conduit of 2mm thick and making connection on both ends complete as required with all accessories including labour charges. The scope of work includes supply & fixing of RJ-45 LAN socket outlet(I/O) in GI metal box and front cover plate .use ferruling for all wires	No	50		
9.2	SITC of branded UTP Category 6 four pair, 1 meter Patch Cord with factory crimped boots on RJ 45 plugs at both ends. Should conform or exceed ISO/IEC 11801, EIA/TIA 568, EN50173 and UL, ETL	No	50		
9.3	SITC of branded UTP Category 6 four pair, 2 meter Patch Cord with factory crimped boots on RJ 45 plugs at both ends. Should conform or exceed ISO/IEC 11801, EIA/TIA 568, EN50173 and UL, ETL	No	50		
9.4	Supply of Cat-6 24 port jack panel make-D-link or equlent	No	2		
9.5	Supply of 9U wall mount rack with all accessories(self, power manager, cable Manager, Fan etc. Pl note that while installing the rack, power supply sockets and switch to be installaed above the rack. To avoid loose hanging power wires.	No	1		
10	TELI PHONE WIRING				
10.1	POINT WIRING Supply, installation, testing and commissioing of high Conductivity Solid Annealed Bare Copper industrial 0.5mm dia Telephone (Switchboard) Cables with High Density Polyethylene Insulation, Paired, Polyester and Sheathed with High Oxygen Index, Fire Retardant, PVC Compound, Grey Outer Sheath generally conforming ITD Specification. the scope of work inclusive of all fixing accessories & laying in a suitable ISI medimum PVC conduit. The scope of work extends to Supply and Fixing of modular type RJ11 Telephone outlet with anodized GI box and front plate complete as required.use ferruling for all wires				
10.2	2 pair -Primary	No	20		

10.3	2 pair- Secondary	<b>No</b>	<b>14</b>		
10.4	KRONE ENCLOSURE				
	Supply, installation, testing & commissioning of Telephone krone in an MS powder coated enclosure for the following sizes.				
10.5	50 PAIR KRONE	<b>No</b>	<b>1</b>		
<b>11</b>	<b>PA &amp; MUSIC SYSTEM</b>				
11.1	S & I of point wiring for music - cum PA system comprising of 2x 1.0 sqmm stranded , copper conductor , flexible PVC insulated and PVC Sheathed wire pulled through 20 mm dia FRLS PVC heavy gauge conduits and looped from one speaker to other and to the volume control and control switch wherever applicable and finally terminated at Tag Block.	<b>Pts.</b>	<b>10</b>		
11.2	S & I of Philips / Bosch/Ahuja make music 6W (101.6mm Diameter) speaker flush mounted on the false ceiling with proper clamping arrangement	<b>Nos.</b>	<b>10</b>		
11.3	S & I of 100 Watts BOSCH/Ahuja make Central Music System Amplifier and MP3/CD/USB Player with FM facility of make Samsung/Onida/LG.	<b>SET</b>	<b>1</b>		
12	FIXTURES/FANS( All light fixtures and fans to be supplied COMMERCIAL MODELS only) Supply & Installation of following type direct/ indirect type recess/surface/ wall mounted 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. including cost and conveyance of all materials, taxes and all labor charges etc., complete.				
12.1	Supply & Installation of 12-15W COB Led down light fixture. including cost and conveyance of all materials, taxes and all labor charges etc., complete.	<b>No</b>	<b>30</b>		
12.2	Supply & Installation of 33-36W 2X2 LedLight fixtures (Havells - PLANO2X2PLR36WLED857S / VENUSNEOHE2X2PLR34WLED8XXS or CROMPTON: LCTRLNE-36-FO-CDL or Philips RC 375B30S 6500K or Equ) including cost and conveyance of all materials, taxes and all labor charges etc., complete. Weight of the light should not be on the grid/ Gypsum ceiling. light has to be fixed with the help of GI/chain wires and to be anchored to the ceiling.	<b>No</b>	<b>37</b>		
12.3	Supply & Installation of 610x610 LedLight fixtures Frames including cost and conveyance of all materials, taxes and all labor charges etc., complete.	<b>No</b>	<b>37</b>		
12.4	Supply & Installation of 9-12W T5 led Light fixtures and giving connections and all labour charges etc., complete for erection. (LUMILINEBS9WLED857SPCWH - Havels or BN021-12S in Philips or Equ)	<b>No</b>	<b>3</b>		

12.5	Supply and Installation of 18-20W T5 fixtures SURFACE type with all interconnections and fixing arrangement as required. (LUMILINEBS18WLED857SPCWH - Havels or BN021-21S in Philips or CROMPTON: CCS-103-20-65-SL-DP-NWH or equivalent)	No	10		
12.6	supply & fixing of 20 watts per meter rope lights	Rmt	70		
12.7	<b>WALL MOUNTING FANS</b> Supply and Fixing of 17-18 inch metal(body & Blades) wall mounted fans with 3 pin socket, fan body should be earthed if 3 pin socket not available in the market .(BM,counters,Server RM, Field Officer, ), Make:ACVORTEX18mm model(450mm sweep) in CG or MARK II WALL FAN model in ALMONARD 18" 450MM equivalent OR SUPREME PLUS IN BAJAJ	No	1		
12.8	<b>EXHAIST FAN:-</b> Supply & Installation of fresh air exhaust fan 50W of light duty 300mm size (12"), Metallic body & blades, wire mesh, bird louvers etc. including cost and conveyance of all materials, taxes and all labor charges etc., complete for eraction	No	4		
12.9	<b>CEILING FAN:-</b> supply & Fixing of 1200mm sweep 5 star High speed ceiling fan with electronic step regulator in suitable locations as required. And Supplying of double anchor fastener hooks and down rods . complete in all respects as directed by Bank. CG/ Havells	No	3		
13	Supply & fixing of occupancy sensor	No	3		
14	Supply and Fixing of modular type TV. Socket outlet with anodized GI box and front plate complete as required. Supply and Laying of RG 11 Coaxial TV cable in PVC Conduits Supply and Fixing of 4way TV Splitter in a MS powder coated enclosure	No	10.00		
<b>D</b>	<b>SECOND FLOOR RIGHT WING</b>				
1	<b>DISTRIBUTION BOARDS:-</b> Supply, installation and concelling/surface of following size MCB/MCCB/RCBO distribution boards with following combination of C curve-MCBs as required. the scope of work includes supply of blanking paltes for Vacent slots. .				
1.1	<b>LDB</b> Ekinox <sup>3</sup> TPN DB - 6way 7 segment DB's for DX <sup>3</sup> MCB, Isolator, RCCB and RCBO :With provision for FP MCB/Isolator/RCCB/RCBO as incomer and SP MCB's as (1) 40 A 4 Pole MCB-1no (2) 40A 2P 30mA RCCB-3no (3)6-10A SP MCB-14no (4) 16A SP MCB-3 nos (5) 20A SP MCB-1 no	No	1		

1.2	<b>PDB DB + AC DB:</b> 3 phase 4 way Ekinox <sup>3</sup> TPN DB-VTPN DPX <sup>3</sup> 160 MCCB DB's IP 43 - #IK 09 with metal Double door:- (1) 100A,25KA, 4P, MCCB-1 no (2) 63A,3P, MCB- 02 NO (3) 40A, 3P, MCB-01 No, (4) 6-32A, SP MCB-3 No Note: for indicating lamps, tap the power supply from output of incomer	No	2		
1.3	<b>UPS DB</b> <b>3 phase 4 way Ekinox<sup>3</sup> TPN DB-VTPN DB's for DX<sup>3</sup> MCB, IP 43 - #IK 09 with metal Double door:-</b> (1) 63A, 4P, MCB-1 no ( (2)63A,4P, 100mA, RCCB-1 no (3) 32A,3P, MCB- 02 NO (4) 6-32A SP MCB-3 No	No	1		
1.4	UPS Output Dbs Ekinox <sup>3</sup> 4 way ETPN DB's for DX <sup>3</sup> MCB, Isolator, RCCB and RCBO IP 43 - #IK 09 with Double door. (1)63A,4P, MCB-1no (2)40A, 2P, MCB-1no (3)32A,4P, MCB-1no (4)6A,2P, MCB-1no (5)6A,2P,MCB-1 No	No	3		
1.5	2 pole 32A MCB in a suitable enclosure	No	1		
2	<b>ARMOURED CABLES FOR DB INPUT, CASSETTE ACS &amp; UPS INPUT DB:-</b> Supply,Laying, Testing and commissioning of 1.1 KV grade XLPE insulated armoured alluminium/copper conductor cable of the following size including laying in trenches, cable trays, on wall including claming and including civil works etc complete as per IS 7098 - Part 1 - 1983. The scope of work includes supply & laying of 2 runs of 8 SWG GI wire along with the cable				
2.1	3.5C X35sqmm Al AR cable for PDB and AC DB	Rmt	150		
2.2	3.5C*25 sqmm Al AR cable for LDB	Rmt	75		
2.3	4C X 10 sqmm CU AR cable for UPS input DB	Rmt	75		
2.4	4C *4sqmm Cu ar cable from UPS DB to UPS o/p DB	Rmt	160		
2.5	3C *4 sqmm CU ar cable fo rGM cabin AC	Rmt	60		
3	<b>TERMINATIONS:</b> Termination of the following cables with <b>double compression(DC) cable glands</b> and also with suitable size alluminium/copper lugs including supply and fixing of Lugs.				
3.1	3.5C X35sqmm Al AR cable for PDB and AC DB	No	6		
3.2	3.5C*25 sqmm Al AR cable for LDB	No	2		

3.3	4C X 10 sqmm CU AR cable for UPS input DB	No	2		
3.4	4C *4sqmm Cu ar cable from UPS DB to UPS o/p DB	No	9		
3.5	3C *4 sqmm CU ar cable	No	4		
4	LIGHT & FAN POINT WIRING:-Point Wiring for Light/fan point with 3X1.5 sqmm copperconductor FRLS insulated 1100v grade multi strandwires (P+N+E) in concealed/ surface using 20/25/32Medium duty FRLS PVC conduit 16swg thick with allbend, tees, saddle mounting box, cover plate, ceilingrose, etc. complete as required etc. The scope ofwork includes the circuit wiring from DB to pointcontrol box /switch box using 3x2.5 sqmm copperconductor FRLS insulated 1100V grade multistrandwire (P+N+E) in FRLS PVC conduit 16 swg thickcomplete in all respect. Each circuit shall have separate earth wire. All switch socket must be modular type with M.S. Boxes and plate etc. asrequired. WWithout Banks instructions, if contractor executes primary points morethan given quantity , it will be treated as secondary points only. Use ferrouling for all wires				
4.1	Primary points	No	100		
4.2	same as the above secondary point ( only one secondary point on the primary point	No	45		
4.3	one switch controlled by three lights	No	3		
4.4	Call bell points for the cabins including supply of call bell as required	No	6		
5	MODULAR SOCKETS: Supply and fixing of switch(s) & socket(s) fixed on a suitable module metal box(16 guage) and white front plate (Modular type) including all interconnections as required and blank plate has to be provided if necessary. The scope of work extends to Supply and wiring with 2runs of 4.0 sq.mm & one run of 2.5sqmm 1100 V grade PVC insulated multi strand FRLS 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/ raw power sockets in the single window counters and officer tables. use ferruling for all wires				
5.1	PRIMARY POINT: RAW POWER 1 no of 6/16A socket with 1 no of 16A switch For power point in banking hall cooler, Kitch	No	4		
5.2	PRIMARY POINT: RAW POWER 2 nos of 6/16A socket with 2 no of 16A switch For Kitchen	No	4		
6	Supply and fixing of switch(s) & socket(s) fixed on a suitable module metal box(16 guage) and white front plate (Modular type) including all interconnections as required and blank plate has to be provided if necessary. The scope of work extends to Supply and wiring with 3runs of 2.5 sq.mm 1100 V grade PVC insulated multi strand FRLS 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/ raw power sockets in the single window counters and officer tables. use ferruling for all wires				
6.1	PRIMARY POINT:UPS POWER 4nos. 6A sockets with 1 no 16A switch for NET WORK RACK, CCTV, FIRE PANEL etc)	No	4		
7	Supply and fixing of switch(s) & socket(s) fixed on a suitable module metal box(16 guage) and white front plate (Modular type) including all interconnections as required and blank plate has to be provided if necessary. The scope of work extends to Supply and wiring with 3runs of 1.5 sq.mm 1100 V grade PVC insulated multi strand FRLS 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/ raw power sockets in the single window counters and officer tables. if these sockets are mounted in SB ( along with point wiring) we will treat it as on board socket.use ferruling for all wires				
7.1	PRIMARY POINT:UPS POWER 4nos. 6A sockets with 1 no 16A switch (Switch shall be fixed above the table and sockets shall be fixed below table etc)	No	35		
7.2	SECONDARY POINT:UPS POWER 4nos. 6A sockets with 1 no 16A switch (Switch shall be fixed above the table and sockets shall be fixed below table etc)	no	30		
7.3	PRIMARY POINT: RAW POWER 2nos 6A SocketS with 1 No of 6A switch (Raw Sockets)- for counters( Switch & Socket should be mounted above the table	No	35		
7.4	SECONDARY POINT: RAW POWER (2 X6A socket & 1 X6A switch) same as above but looped from nearest point (Primary point to Secondary point) from counter to counter	No	30		
7.5	PRIMARY POINT:UPS/ RAW POWER 2 nos of 6A socket with 2 no of 6A switch PRINTERS, COMMON AREAS	No	6		
8	Supply and fixing of switch(s) & socket(s) fixed on a suitable module metal box(16 guage) and white front plate (Modular type) including all interconnections as required and blank plate has to be provided if necessary.				
8.1	ON BOARD SWITCH & SOCKET 1 no of 6A socket with 1 no of 6A switch and it should be fixed in the switch board -RAW POWER	No	2		
8.2	SOCKET FOR WALL MOUNTING FAN 1 no of 6A socket 3" below the false ceiling for wall mounting fan - RAW POWER	No	40		



9	NETWORKING				
9.1	POINT WIRING: Supplying, laying, tesing and commissioning of four pair CAT 6, UTP cable 23 AWG solid bare copper or better;Insulation - Polyethylene;Jacket - Flame Retardant PVC;Pair Separator - Star Quad Separator or equivalent; 250 MHz;UL Subject 444, EIA/TIA-568 B.2.1, ISO/IEC 11801 & IEC61156-5for LAN in a suitable FRLS PVC conduit of 2mm thick and making connection on both ends complete as required with all accessories including labour charges. The scope of work includes supply & fixing of RJ-45 LAN socket outlet(I/O) in GI metal box and front cover plate .use ferruling for all wires	No	66		
9.2	SITC of branded UTP Category 6 four pair, 1 meter Patch Cord with factory crimped boots on RJ 45 plugs at both ends. Should conform or exceed ISO/IEC 11801, EIA/TIA 568, EN50173 and UL, ETL	No	66		
9.3	SITC of branded UTP Category 6 four pair, 2 meter Patch Cord with factory crimped boots on RJ 45 plugs at both ends. Should conform or exceed ISO/IEC 11801, EIA/TIA 568, EN50173 and UL, ETL	No	66		
9.4	Supply of Cat-6 24 port jack panel make-D-link or equest	No	6		
9.5	Supply of 9U wall mount rack with all accessories(self, power manager, cable Manager, Fan etc. Pl note that while installing the rack, power supply sockets and switch to be installaed above the rack. To avoid loose hanging power wires.	No	3		
10	TELI PHONE WIRING				
10.1	POINT WIRING Supply, installation, testing and commissioing of high Conductivity Solid Annealed Bare Copper industrial 0.5mm dia Telephone (Switchboard) Cables with High Density Polyethylene Insulation, Paired, Polyester and Sheathed with High Oxygen Index, Fire Retardant, PVC Compound, Grey Outer Sheath generally conforming ITD Specification. the scope of work inclusive of all fixing accessories & laying in a suitable ISI medimum PVC conduit. The scope of work extends to Supply and Fixing of modular type RJ11 Telephone outlet with anodized GI box and front plate complete as required.use ferruling for all wires				
10.2	2 pair -Primary	No	35		
10.3	2 pair- Secondary	No	16		
10.4	KRONE ENCLOSURE				
	Supply, installation, testing & commissioning of Telephone krone in an MS powder coated enclosure for the following sizes..				
10.5	50 PAIR KRONE	No	1		
11	PA & MUSIC SYSTEM				

11.1	S & I of point wiring for music - cum PA system comprising of 2x 1.0 sqmm stranded , copper conductor , flexible PVC insulated and PVC Sheathed wire pulled through 20 mm dia FRLS PVC heavy gauge conduits and looped from one speaker to other and to the volume control and control switch wherever applicable and finally terminated at Tag Block.	<b>Pts.</b>	<b>10</b>		
11.2	S & I of Philips / Bosch/Ahuja make music 6W (101.6mm Diameter) speaker flush mounted on the false ceiling with proper clamping arrangement	<b>Nos.</b>	<b>10</b>		
11.3	S & I of 100 Watts BOSCH/Ahuja make Central Music System Amplifier and MP3/CD/USB Player with FM facility of make Samsung/Onida/LG.	<b>SET</b>	<b>1</b>		
12	FIXTURES/FANS( All light fixtures and fans to be supplied COMMERCIAL MODELS only) Supply & Installation of following type direct/ indirect type recess/surface/ wall mounted 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. including cost and conveyance of all materials, taxes and all labor charges etc., complete.				
12.1	Supply & Installation of 12-15W COB Led down light fixture. including cost and conveyance of all materials, taxes and all labor charges etc., complete.	<b>No</b>	<b>50</b>		
12.2	Supply & Installation of 33-36W 2X2 Led Light fixtures (Havells - PLANO2X2PLR36WLED857S / VENUSNEOHE2X2PLR34WLED8XXS or CROMPTON: LCTRLNE-36-FO-CDL or Philips RC 375B30S 6500K or Equ) including cost and conveyance of all materials, taxes and all labor charges etc., complete. Weight of the light should not be on the grid/ Gypsum ceiling. light has to be fixed with the help of GI/chain wires and to be anchored to the ceiling.	<b>No</b>	<b>45</b>		
12.3	Supply & Installation of 610x610 Led Light fixtures Frames including cost and conveyance of all materials, taxes and all labor charges etc., complete.	<b>No</b>	<b>45</b>		
12.4	Supply & Installation of 9-12W T5 led Light fixtures and giving connections and all labour charges etc., complete for erection. (LUMILINEBS9WLED857SPCWH - Havels or BN021-12S in Philips or Equ)	<b>No</b>	<b>3</b>		
12.5	Supply and Installation of 18-20W T5 fixtures SURFACE type with all interconnections and fixing arrangement as required. (LUMILINEBS18WLED857SPCWH - Havels or BN021-21S in Philips or CROMPTON: CCS-103-20-65-SL-DP-NWH or equivalent)	<b>No</b>	<b>10</b>		
12.6	supply & fixing of 20 watts per meter rope lights	<b>Rmt</b>	<b>60</b>		

12.7	WALL MOUNTING FANS Supply and Fixing of 17-18 inch metal(body & Blades) wall mounted fans with 3 pin socket, fan body should be earthed if 3 pin socket not available in the market .(BM,counters,Server RM, Field Officer, ), Make:ACVORTEX18mm model(450mm sweep) in CG or MARK II WALL FAN model in ALMONARD 18" 450MM equivalent OR SUPREME PLUS IN BAJAJ	No	1		
12.8	EXHAIST FAN:- Supply & Installation of fresh air exhaust fan 50W of light duty 300mm size (12"), Metallic body & blades, wire mesh, bird louvers etc. including cost and conveyance of all materials, taxes and all labor charges etc., complete for eraction	No	4		
12.9	CEILING FAN:- supply &Fixing of 1200mm sweep 5 star High speed ceiling fan with electronic step regulator in suitable locations as required. And Supplying of double anchor fastener hooks and down rods . complete in all respects as directed by Bank. CG/ Havells	No	3		
13	Supply & fixing of occupancy sensor	No	3		
14	Supply and Fixing of modular type TV. Socket outlet with anodized GI box and front plate complete as required. Supply and Laying of RG 11 Coaxial TV cable in PVC Conduits Supply and Fixing of 4way TV Splitter in a MS powder coated enclosure	No	10.00		
	<b>TOTAL INTERNAL ELECTRICAL WORKS</b>				
<b>III</b>	<b>INTERNAL CIVIL WORKS</b>				
<b>1</b>	<b>DISMANTALING</b>				
	Dismantlaing the Existing brickwork, Doors, Windows, Lintels and rcc chajjas any other item as directed and removing and Carting away debris form the site to the contractors own dump yard or Municipal Dumpyard atleast 10 km away form the site.The rate shall include all the labour transporation etc for the complete item of work	CMT	102		
<b>2</b>	<b>BRICK WORK</b>				
<b>2.1</b>	<b>115 THK MASONARY</b>				

	<p>Providing and constructing 115 mm thick Brick masonry using approved quality Table Moulded bricks in CM 1:4 of minimum 50 kg straight walls at all levels including a concrete band of 75mm thick with 3-nos of 8mm dia reinforcement rod at every 750mm ht with M20 grade concrete mix including shuttering, staging, scaffolding, centering, formwork, curing, etc., cement mortar of 1:4 including packing the residual space between masonry &amp; other structural members like columns, beams, slabs etc., providing openings as directed and finishing neatly around the same, the item shall include all materials including reinforcement steel, cost of labour, cost of equipment and machinery, work at all leads and lifts, loading and unloading, transportation, and all other incidental charges etc., complete. The work shall be carried out as per the directions of the Architect. The rate shall be inclusive of all the material, labour, hardware, transportation necessary required for the complete execution of the item as directed by the architect.</p>	<b>SQM</b>	<b>210</b>		
<b>3</b>	<b>WALL PLASTERING</b>				
	<p>Plastering in 2 coats with 16mm thk 12mm thk in CM (1:6) prop and top coat 4mm thk in CM (1:4) prop for internal walls at all levels including shuttering, staging, scaffolding, curing, etc. with dubara sponge finishing including cost and conveyance of all materials all leads and lifts, loading and unloading, transportation, and all other incidental charges etc. complete. The work shall be carried out as per the directions of the Architect. The rate shall be inclusive of all the material, labour, hardware, transportation necessary required for the complete execution of the item as directed by the architect.</p>	<b>SQMT</b>	<b>418</b>		
<b>4</b>	<b>600X1200 MM VITRIFIED TILE FLOORING</b>				
<b>4.1</b>	<p>Providing and laying Vitrified floor tiles of size 600 MM X 1200 MM (10/12 thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on hacked floor with Tile Adhesive ( MYK LATICRATE – 335 Maxi, application with Notched Trowel) , including Skirting if any required during laying and finishing complete. The work shall be carried out as per the directions of the Architect. BASIC RATE OF THE TILE SHALL BE RS.60 - 65 PER SQ.FT. and filling the joints using "+" shaped 3 mm wide plastic spacers at corners (to be removed before jointing) during fixing of Vitrified tile in floor to achieve a perfectly straight joint line, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete. The work shall be carried out as per the directions of the Architect. The rate shall be inclusive of all the material, labour, hardware, transportation necessary required for the complete execution of the item as directed by the architect. The</p>	<b>SQM</b>	<b>1374</b>		

	rate inclusive of Hacking of Existing floor.				
<b>5</b>	<b>UPVC SLIDING WINDOWS AND VENTILATORS</b>				
	Removing the existing aluminium windows and Providing, fixing factory made unplasticised polyvinyl Chloride (UPVC) white colour sliding glazed window upto 1.20 m in height dimension comprising of UPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ±0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to UPVC profile), appropriate dimension of UPVC extruded glazing beads and UPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. Two and half track two panels sliding window made of frame 52 x 44 mm & sash 32 x 60 mm both having wall thickness of 1.9 ± 0.2 mm With mesh shutter and single glazing with 6mm thick Glass of appropriate dimension.	<b>SQM</b>	<b>51</b>		
	The rate shall be inclusive of all the material ,labour, hardware, transportation necessary required for the complete execution of the item as directed by the architect. NCL, LG FINESTA				
<b>6</b>	<b>TOILET DOORS</b>				
	Providing of Factory made prelaminate FPVC (Foamed Polyvinyl Chloride) Door frame of the size 105x40mm with a wall thickness of 10mm made out of extruded rigid FPVC profile mitre joined with 6 Nos. of 50mm long screw. The door frame shall be fixed to the wall by using 80mm long screws through the frame with the help of PVC fasteners of 3 no's to be provided for each vertical member, GI stiffeners of ("U" channel of size 29x9x1mm, 150mm long) -3 no's at hinge point, Frame reinforcement of("U" GI channel of size 46x22x.06mm), Bottom tie rod of ("U" GI channel size of 15x15x1mm) etc. complete as per manufacturers specification for finished item of work. Maximum door frame size : 980 x 2070 including providing of 35mm thick Factory made Pre-laminated ABS (Acrolonitrile Butadyne Styrene) Door shutter moulded in different designs, consisting of all round Frame made out of water proof solid foam PVC bar of size 20x32mm, reinforced by 32x 32mm - 2 nos. for vertical made out of LVL (Laminated Veneer Lumber), core material of 32	<b>SQMT</b>	<b>35</b>		

	mm thick high density craft paper honey comb board, sandwiched on both sides with prelaminate ABS sheet thickness of 1.5mm . PVC edge banding of size 0.45mm on the vertical sides. Hardware made out of steel coated butterfly hinges - 3 Nos. for each shutter and ISI make S.S round lock completes for finished item of work.size of : 900 mm X 2050 mm & 750 mm X 2050 mm.				
<b>7</b>	<b>WATERPROOFING IN TOILET</b>				
	Providing waterproofing for the in Toilets,urinals, wash basin areas,on floor before plumbing and on walls upto 600mm. by chemical method as follows:Brushing,cleaning & hacking the surface area and mixing and applying two coats of ready to use two component acrylic polymer modified cementations, waterproof coating in 2 layers one after the other with 1mm tk with air cure of 4 hours for first coat and second coat followed with water curing for 48 hours as per manufacturers' specification.Including providing ten years guarantee against leakage on a requisite stamp paper complete. The Water proofing also to include 2 coats of waterproofing plaster done with 12 mm aggregates finishing in CM1:3 mixed with waterproofing compound, finishing with rough finish to required slope with an avg thk of 40mm.Ponding test to be done for 24 hours before plumbing work can begin. The rate shall be inclusive of all the material ,labour, hardware, transportation necessary required for the complete execution of the item as directed by the architect. FOSROC,LATICRATE,PIDILITE DR FIXIT	<b>SQMT</b>	<b>162</b>		
<b>8</b>	<b>CINDER CONCRETE FILLING IN TOILETS</b>				
	Providing cinder concrete after laying of soil pipes and water pipes in floors of toilets areas at all levels of proportion one part of cement and ten parts of cinder by volume. Cinder available from furnaces of steam boilers using coal fuel onlyshall be used and brick kiln cinder shall not be allowed. The cinder should be cleaned, free from dirt and wood ashes and shall pass through IS 3.35 sieve with 50% passing through IS 1.70 sieve and should not contain more than 10% of unburnt carbon and not more than 0.5% of acid soluble sulphates(SO). The cinder should be soaked in water before soaking. The concrete shall be cured for 7 days as directed by the architect. The work shall be carried out as per the directions of the Architect.The rate shall be inclusive of all the material ,labour, hardware, transportation necessary required for the complete execution of the item as directed by the architect.	<b>CMT</b>	<b>17</b>		
<b>9</b>	<b>FLOORING IN TOILET</b>				

	Supply, providing and laying of 1st quality anti-skid vitrified tiles of approved colour and design 10 mm thick floor tiles of approved make and 300 x 600 size fixed over 20 mm thick cement base mortar 1:6. The floor shall have proper slopes for better drainage of water to the traps as directed by the architect. The rate shall be inclusive of all the material, labour, hardware, transportation necessary required for the complete execution of the item as directed by the architect. BASIC RATE OF THE TILES SHALL BE RS 45 to 50 PER SFT. RAK, JOHNSON,KAJARIA	SQMT	76		
	Including using "+" shaped 3 mm wide plastic spacers at corners (to be removed before jointing) during fixing of Vitrified tile in floor to achieve a perfectly straight joint line, Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete for 300 mm x 300 mm tiles. The work shall be carried out as per the directions of the Architect. The rate shall be inclusive of all the material, labour, hardware, transportation necessary required for the complete execution of the item as directed by the architect. FOSROC, LATICRATE, PIDILITE DR FIXIT				
<b>10</b>	<b>DADOOING IN TOILET</b>				
	Supply and fixing of wall tiles of 1st quality vitrified tiles of 300mm x 600mm size of approved colour, design and make over a base plaster of 15mm thick on the brick work and 12 mm thick cement plaster 1:4 levelling course all required tools, plants, materials and labour required to complete the work in all respects as directed by architect. (PVC corner beading to be provided in all the corners). The rate shall be inclusive of all the material, labour, hardware, transportation necessary required for the complete execution of the item as directed by the architect. BASIC RATE TILES SHALL BE RS 45 to 500 PER SFT RAK, JOHNSON,KAJARIA	SQMT	353		
	Including using "+" shaped 3 mm wide plastic spacers at corners (to be removed before jointing) during fixing of Vitrified tile in floor to achieve a perfectly straight joint line, Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete for 300 mm x 300 mm tiles. The work shall be carried out as per the directions of the Architect. The rate shall be inclusive of all the material, labour, hardware, transportation necessary required for the complete execution of the item as directed by the architect. FOSROC, LATICRATE, PIDILITE DR FIXIT				
<b>11</b>	<b>WASH BASIN COUNTER IN GRANITE</b>				

	Providing and fixing Granite Counter in 36 mm thick comoflanged machine cut and mirror polished Granite slabs of approved colour in length upto 2000mm, set in 20 mm thick cement mortar 1:4, joint finished with neat cement slurry with matching colour including dressing the nosing and sides to the required shape etc. as directed with sizes as per drawing for wash basin counter, laid over 36 mm thk POLISHED GRANITE supports. Rate to include cutting for washbasins of required size, final mirror polish after installation (Basic cost of Granite Rs.1650 per SQMTS ).	<b>RMTS</b>	<b>16</b>		
<b>12</b>	<b>SANITARY FIXTURES</b>				
<b>12.1</b>	<b>EXTENDED WALL HUNG WATER CLOSET TWO PIECES FOR TOILETS</b>				
	Providing & Fixing white vitreous china two picece wall hung extended EWCs with cistern ,seat and soft closing lid,(handle lever), twin flush fittings with C.I flush bend with fittings & C.I. brackets, 40 mm flush bend, Braided connector pipe to connect to bid cock overflow arrangements with specials of standard make and mosquito proof coupling of approved design complete including painting of fittings and brackets, cutting and making good the walls and floors wherever required.	<b>NOS</b>	<b>5</b>		
	The rate shall include white solid plastic seat and soft closing lid - wc p trap, connecting to the soil pipe.The rate shall be inclusive of all the material ,labour, hardware, transportation necessary required for the complete execution of the item as directed by the architect. Models Cera : Clair, Parry ware : verve, Hindware : Constellation Basic rate of EWC shall be rs 7,500.00				
<b>12.2</b>	<b>WALL HUNG WATER CLOSET</b>				
	Providing & Fixing white vitreous china wall hung water closet of approved make with seat cover and soft closing lid, (handle lever) conforming to IS: 7213 with C.I flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangements with specials of standard make and mosquito proof coupling of approved design complete including painting of fittings and brackets, cutting and making good the walls and floors wherever required. The rate shall include white solid plastic seat and soft closing lid - wc p trap, and PVC connectors connecting to the existing soil pipe. The rate shall include white solid plastic seat and soft closing lid - wc p trap, connecting to the soil pipe.The rate shall be inclusive of all the material ,labour, hardware, transportation necessary required for the complete execution of the item as directed by the architect. Models Cera : Clair, Parry ware : verve, Hindware : Constellation Basic rate of EWC shall be rs 12500.	<b>NOS</b>	<b>6</b>		
<b>12.3</b>	<b>CONCEALED CISTERN</b>				



	Supplying and Fixing of Slim concealed cistern dual flush with wall mounted frame, installation kit, angle cocks and drain pipe connection set for wall hung WC with Square chrome flush control plate. Make: Jaquar, Hindware, Parryware or Equivalent .Basic Cost of the concealed cistern should be Rs.7500.00	NOS	6		
<b>12.4</b>	<b>FAUCET FOR WATER CLOSET IN TOILETS</b>				
	Providing & fixing C.P. heavy quality health faucet [Jet Spray] with wall hook ,Braided connector pipe up to 600mm long including jointing using Teflon tape etc to bid cock. complete. The rate shall be inclusive of all the material ,labour, hardware, transportation necessary required for the complete execution of the item as directed by the architect. JACQUAR CONTINENTAL SERIES,CERA, PARRY WARE	NOS	11		
<b>12.5</b>	<b>TWO WAY BIB COCK FOR WATER CLOSET IN TOILETS</b>				
	Providing & fixing C.P. heavy quality 2 way Bib cock, with wall flange, including jointing using Teflon tape etc.complete.The rate shall be inclusive of all the material,labour, hardware, transportation necessary required for the complete execution of the item as directed by the architect. JACQUAR CONTINENTAL SERIES,CERA, PARRY WARE	NOS	11		
<b>12.6</b>	<b>COUNTER TOP WASH BASIN</b>				
	Providing and fixing counter top wash basin of approved make commercial size of approved make & design including -i) Heavy CI brackets as required.ii) 32 mm CP brass waste coupling with 32 mmCP brass heavy bottle trap (detachable type) with. CP brass extension piece & wall flange, reducers (75/50 or 40 mm), elbows, cleanouts,tees etc including making holes in RCC/Civil works, connecting to sleeves (where left) in floor etc complete. Pipes to be of 6 bar variety with solvent joint & will be measured (running length) & paid under separate item. iv) 15 mm CP brass heavy fancy pillar angle cock with CP connector of required length connecting to.v) Angle Valve with wall flange including jointing using Teflon tape etc. complete.WHB (for circular /oval basin) below the counters as required including brackets as required.The rate shall be inclusive of all the material ,labour, hardware, transportation necessary required for the complete execution of the item as directed by the architect. basic price RS : 7500.00 CERA, PARRY WARE HINDWARE	NOS	13		
<b>12.7</b>	<b>HALF STALL URINALS WITH MANUAL FLUSH COCK.</b>				

	Providing & Fixing white vitreous china flat back half Stall Urinal, with Manual auto flush valve, standard size CP brass flush pipe, spreaders, with brass unions, and clamps (all in CP Brass) with CI trap with outlet grating and other couplings in CP brass including painting of fittings and cutting and making good the walls and floors wherever required. The rate shall be inclusive of all the material, labour, hardware, transportation necessary required for the complete execution of the item as directed by the architect. CERA, PARRY WARE, HINDWARE Basic rate of Urinal shall be rs 7500.00	NOS	4		
<b>12.8</b>	<b>TOWEL RAIL</b>				
	Providing & fixing CP Brass towel rail complete with brackets fixed to wooden cleats with C.P brass screws with concealed fitting arrangement of approved quality and colour. 600 mm long toilet towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190 gms. JACQUAR CONTINENTAL SERIES, CERA, PARRY WARE	NOS	13		
<b>12.9</b>	<b>MIRROR IN TOILET</b>				
	Providing & Fixing 6mm thick beveled edge mirror (Mirror of approved quality & as per specifications) with 6mm thick fixed on wall with SS Studs & washers & complete as per approval. Approx Size 1500mm X 1200mm	SQMT	22		
<b>13</b>	<b>PLUMBING WORKS</b>				
<b>13.1</b>	Providing and fixing chlorinated poly vinyl chloride (CPVC) pipes having thermal stability for hot and cold water supply, including all CPVC plain and brass threaded fitting, including fixing the pipe with clamps at 1m spacing. This includes jointing of pipes and fitting with one step CPVC solvent cement and cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. <b>16 mm OD pipe</b>	RMT	150		
<b>13.2</b>	Providing and fixing chlorinated poly vinyl chloride (CPVC) pipes having thermal stability for hot and cold water supply, including all CPVC plain and brass threaded fitting, including fixing the pipe with clamps at 1m spacing. This includes jointing of pipes and fitting with one step CPVC solvent cement and cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. <b>20 mm OD pipe</b>	RMT	150		
<b>13.3</b>	Providing and fixing chlorinated poly vinyl chloride (CPVC) pipes having thermal stability for hot and cold water supply, including all CPVC plain and brass threaded fitting, including fixing the pipe with clamps at 1m spacing. This includes jointing of pipes and fitting with one step CPVC solvent cement and	RMT	100		

	cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.. 25 mm OD pipe				
<b>13.4</b>	Providing and fixing chlorinated poly vinyl chloride(CPVC) pipes having thermal stability for hot and cold water supply, including all CPVC plain and brass threaded fitting, including fixing the pipe with clamps at 1m spacing. This includes jointing of pipes and fitting with one step CPVC solvent cement and cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.. 32 mm OD pipe	<b>RMT</b>	<b>110</b>		
<b>13.5</b>	Supplying, fixing and testing of Concealed stop cock with brass body with ss angle cock valves screwed end of approved make including cost and conveyance of all materials to site, labour charges, sales and other taxes on all materials etc., complete for finished item of work for all floors. 19.05 mm dia valve JACQUAR CONTINENTAL SERIES,CERA, PARRY WARE	<b>NOS</b>	<b>18</b>		
<b>13.6</b>	Supplying and fixing 100 mm dia inlet - 75 mm (3") outlet PVC floor traps 1st quality ISI marked with C.P grating fixing with white cement as per the site requirements with standard practice including CP cockroach trap with grating, black painted for all floors including cost and conveyance of all materials to site, labour charges etc, complete for finished item of work.	<b>NOS</b>	<b>22</b>		
<b>13.7</b>	Supplying, laying, fixing in position and testing on wall / under floor Prince / Sudhakar PVC / SWR pipes & fittings (as per ISI standards) 4 kg /cm <sup>2</sup> for sanitary lines with specials of approved make as per manufacturers specification including cutting the pipes to the required lengths, jointing with specials where ever required necessary chasing & restoring the original condition, testing, clamps if necessary cowls etc., complete for including cost and conveyance of all materials, all taxes and all labour charges for finished item of work. 75 mm (3") dia	<b>RMT</b>	<b>120</b>		
<b>13.8</b>	Supplying, laying, fixing in position and testing on wall / under floor Prince / Sudhakar PVC / SWR pipes & fittings (as per ISI standards) 4 kg /cm <sup>2</sup> for sanitary lines with specials of approved make as per manufacturers specification including cutting the pipes to the required lengths, jointing with specials where ever required necessary chasing & restoring the original condition, testing, clamps if necessary cowls etc., complete for including cost and conveyance of all materials, all taxes and all labour charges for finished item of work. 100 mm (4") dia	<b>RMT</b>	<b>120</b>		

14	<b>BUY BACK OF EXISTING MS WINDOWS INCLUDING GRILLS</b>	<b>SQM</b>	<b>-40</b>		
	<b>TOTAL INTERNAL CIVIL WORKS</b>				
<b>IV</b>	<b>AIR CONDITIONING WORKS</b>				
<b>A</b>	<b>PART - A - HIGH SIDE</b>				
<b>1</b>	<b>SITC of the following capacities of Cassette Units(Gas -R 32/ R134A/R407/R410-Ozone Friendly and Non CFC Reifeigerant) with necessary gas Top Up complete with invertor compressor, copper condenser,evaporator, vibration isolators,structural supports with required hard ware, control cabel,tc.,</b>				
<b>1.1</b>	<b>3.0TR ( 3 STAR UNIT )</b>	<b>Nos</b>	<b>4</b>		
	<b>TOTAL AMOUNT -A</b>				
<b>B</b>	<b>PART - B - LOW SIDE WORKS</b>				
<b>1</b>	<b>COPPER PIPING WORKS:</b>				
<b>1.1</b>	<b>SITC of 20 SWG soft copper piping with 9mm thk. Nitrile tube insulation aluminium foil 22G GI wire mesh,supports with required hardware etc.,(Refrigerent Piping -5Mtr within the supply) (only one length will be considered for both suction and liquid lines)</b>				
	<b>9.05mm dia. &amp; 16.08mm dia / 12.05 mm dia &amp; 20mm dia For 3TR Cassette Units.</b>	<b>Rmt</b>	<b>100</b>		
<b>2</b>	<b>SITC of UPVC pipe (6KG duty) drain pipe with 6mm Alm backed Nitrile Rubber insulation wrapped with 22 G GI chicken wire mesh of various sizes and with required wall chasing,supports &amp; clamps, etc., The sizes given shall be verified by Supplier for adequacy and size given shall be verified by Supplier for adequacy and size based on manufacturer standards (Pre drain -5Mtr within the supply)</b>				
<b>2.1</b>	<b>20 mm (ID)</b>	<b>Rmt</b>	<b>35</b>		
<b>2.2</b>	<b>25 mm (ID)</b>	<b>Rmt</b>	<b>30</b>		
<b>2.3</b>	<b>32 mm (ID)</b>	<b>Rmt</b>	<b>30</b>		
<b>3</b>	<b>Supply, laying and commissioning of following size power and Communication Copper cabel with PVC conduct with clamps, cable ties including connecting and testing:(Electrical Cable - 5Mtr within the supply)</b>				
<b>3.1</b>	<b>4core x 2.5 sq mm for 3TR cassette Units.</b>	<b>Rmt</b>	<b>125</b>		
<b>4</b>	<b>OUT SIDE STAND / CC BED FOR ALL AC UNTITS AS DIRECTED.</b>	<b>Nos</b>	<b>4</b>		

<b>5</b>	<b>Associated Civil works</b>				
	Chipping ,chasing & Plastering the wall openings in cement mortar 1:6 of 15 mm thick finishing to line and level with sand facied finishing at all levels, including all leads & lifts, scaffolding, curing etc complete (for Copper & Drain openings in all rooms etc.	<b>Lum</b>	<b>1</b>		
<b>6</b>	Removing and refixing of existing Split AC Units including existing copper pipe/ if required new copper pipe (Rate should be quoted considering both), new electrical cable, new drain pipe, existing ODU stand etc., as per the directions. Rate including gas topup as per the directions.	<b>Nos</b>	<b>5</b>		
<b>7</b>	<b>UNDER DECK INSULATION FOR ROOF</b> Providing and installing 50 mm thick under deck insulation conforming to IS 8183 with having a density of 32 kg/cum glass wool backed with 0.05 mm thick aluminum foil and 24 G x 25 mm wire mesh netting including fixing with 100x50x6 slotted mild steel plate welded to MS plate insert embedded at the soffit of the slab at suitable distance and 14G steel wire drawn through slots and fixing to wire netting etc. all complete.	<b>Sqmt</b>	<b>650</b>		
	<b>TOTAL AMOUNT -B</b>				
	<b>TOTAL AIR CONDITIONING WORKS (A+B)</b>				
	<b>SUMMARY</b>				
<b>I</b>	<b>TOTAL INTERIOR FURNISHING WORKS</b>				
<b>II</b>	<b>TOTAL ELECTRICAL WORKS</b>				
<b>III</b>	<b>TOTAL CIVIL WORKS</b>				
<b>IV</b>	<b>TOTAL AIR CONDITIONING WORKS</b>				
	<b>TOTAL RUPEES (I+II+III+IV)</b>				
	<b>DISCOUNT IF ANY</b>				
	<b>GRAND TOTAL</b>				
	<b>GST EXTRA AS APPLICABLE</b>				