INVITES TENDERS ON BEHALF OF SBI LHO, HYDERABAD.

IN A SINGLE BID THROUGH E-TENDERING PROCESS.

Contractors who are on the panel of SBI, Hyderabad Circle, (LHO) for INTERIOR works in the appropriate category are only eligible. (Contractors should submit proof of the same)

FOR

PROPOSED INTERIOR FURNISHING INCLUDING ELECTRICAL WORKS FOR RENOVATION OF VANASTHALIPURAM COMPLEX BRANCH AT VANASTHALIPURAM, HYDERABAD.

UNDER RBO DILSUKHNAGAR : AO- SECENDERABAD.

M/S abhkram-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

The Vice president & Head,
SBI Infra Management Solutions Pvt. Ltd.
Ground Floor, Adj Commercial Branch, SBI LHO campus,
Bank Street, Koti,
Hyderabad – 500 095
Phone:040-23466310/46
**NOTICE INVITING TENDER (NIT)**

**NAME OF WORK:** On behalf of P&E Department, Hyderabad, SBIIMS invites e-TENDER FOR INTERIOR FURNISHING INCLUDING ELECTRICAL WORKS FOR PROPOSED RENOVATION OF VANASTHALIPURAM COMPLEX BRANCH AT VANASTHALIPURAM, HYDERABAD.

<table>
<thead>
<tr>
<th>1. Name of the Work</th>
<th>PROPOSED INTERIOR FURNISHING INCLUDING ELECTRICAL WORKS OF VANASTHALIPURAM COMPLEX BRANCH AT VANASTHALIPURAM. RBO DILSUKNAGAR : AO- SECENDERABAD</th>
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<td>2. Eligibility of the contractor</td>
<td>Interior Contractors empanelled with SBI, LHO, Hyderabad for appropriate category.</td>
</tr>
<tr>
<td>3. Estimated cost of work:</td>
<td>Rs.60,16,000.00 plus GST as applicable</td>
</tr>
<tr>
<td>4. Earnest Money Deposit. (EMD)</td>
<td>Rs. 61,000/- all Drafts/BCs shall be in favour of “SBIIMS, Hyderabad”. Payable at Hyderabad.</td>
</tr>
<tr>
<td>5. Tender Cost</td>
<td>Rs.3000/- to be paid through State Bank Collect ONLY as detailed under; 1) login <a href="https://www.onlinesbi.com">https://www.onlinesbi.com</a> 2) Select SB Collect from Top Menu, click the check box and “Proceed” 3) Select “All India” in “State of Corporate/Institution” &amp; Select “Commercial Services” in “Type of Corporate/Institution” then “Go” 4) Select “ SBI Infra Management Solutions Pvt. Ltd” in Commercial Services Name and “Submit” 5) Select “Tender Application Fee” in “Payment Category” and enter the “Tender ID” exactly as given in first page top of this tender(characters in uppercase only). 6) Fill up all fields such as email, GST No., Mobile No, Vendor/Firm Name etc and make payment. 7) Enclose payment receipt having unique reference Number. along with EMD.</td>
</tr>
<tr>
<td>6. Time of Completion:</td>
<td>90 (Ninety) DAYS.</td>
</tr>
<tr>
<td>7. Payment terms</td>
<td>Minimum 20.00 Lakhs in each running bill</td>
</tr>
<tr>
<td>8. Date of download of tender documents from Bank’s web site <a href="http://www.sbi.co.in">http://www.sbi.co.in</a> under “procurement news”.</td>
<td>From 24.06.2019 to 1.07.2019</td>
</tr>
<tr>
<td>9. Last date and time for submission of online e-tender. at <a href="https://etender.sbi">https://etender.sbi</a></td>
<td>Date: 1.07.2019 by 3.00 P.M.</td>
</tr>
<tr>
<td>11. Address of opening of tender</td>
<td>Vice President &amp; Head, SBI Infra Management Solutions Pvt. Ltd., Office, Ground floor, Adj to commercial branch, SBI LHO campus, Bank Street, Kothi, Hyderabad – 500 095. Technical Bid of those firms / contractors who do not submit EMD shall be rejected. Those who are already submitted the one time EMD need not to be submitted again. Representatives of Bidder may be present during opening of Bids. However Bids would be opened even in the absence of any or all the bidder’s representatives.</td>
</tr>
<tr>
<td>12. EMD &amp; Tender cost to be submitted at:</td>
<td>EMD should be submitted physically at above mentioned address before due date. Contact: Vice President. 040-23466346. <a href="mailto:vg.reddy@sbi.co.in">vg.reddy@sbi.co.in</a></td>
</tr>
</tbody>
</table>

Signature of the Contractor
13. Bidder Contact Details.  
Bidder to provide following information. 
   1) Name of Company. 
   2) Contact Person. 
   3) Mailing address with Pin Code. 
   4) Telephone number and Fax number. 
   5) Mobile Number and E-MAIL. 

14. Agency for arranging online bidding.  
e-Procurement technologies Limited, Ahmedabad. 
Primary Contact Numbers: M:- 9081000427, 9904407997 
Sujith Nair:- 079-68136857, sujith@eptl.in 
   1. Jaymeet Rathod:- 079-68136829, jaymeet.rathod@eptl.in 
   2. Vinayak Khambe:- 079-68136835, vinayak.k@eptl.in 
   3. Nadeem Mansuri:- 079-68136853, nadeem@eptl.in 
   4. Nandan Valera:- 079-68136843, nandan.v@eptl.in 
   5. Hemangi Patel:- 079-68136852, hemangi@eptl.in 
   6. Kanchan Kumari:- 079-68136820, kanchan.k@eptl.in 
   7. Deepak Narekar:- 079-68136863, deepak@eptl.in 
   8. Anshul Juneja:- 079-68136840, anshul.juneja@eptl.in 
   9. Salina Motani:- 079-68136831, salina.motani@eptl.in 
  10. Devang Patel:- 079-68136859, devang@eptl.in 
Alternate Contact No.: Mr. Yashrajsinh Rathod:- 079-68136815, 9879996111, yashrajsinh@auctiontiger.net 

15. Initial Security Deposit  
2% including EMD. in favor of SBI, Payable at Hyderabad. 

16. Defects Liability Period  
12 Months (Twelve months) 

17. Total Security Deposit  
5% of contract value including initial security deposit. 

18. Liquidated Damages  
0.50% per week subject to max 5% of the value of work 

19. Validity  
90 days 

20. Working time  
THE BRANCH IS A RUNNING BRANCH. LIMITED / RESTRICTED TIMEINGS WILL BE THERE FOR WORKING. WORK IS ALSO REQUIRED TO BE EXECUTED IN THE NIGHT TIMES AND DURING BANK HOLIDAYS. NO EXTRA PAYMENT WILL BE PAID FOR THE SAME. CONTRACTOR NEED TO ENGAGE additional labour for daily cleaning of the branch after working, failing which Branch will engage labour for cleaning of the same at the risk and cost of the contractor. 

The SBIIMS reserves the right to accept or reject any or all the tenders without assigning any reason whatsoever.
INSTRUCTIONS TO CONTRACTORS.

This tender is for the "INTERIOR FURNISHING INCLUDING ELECTRICAL WORKS FOR PROPOSED RENOVATION OF VANASTHALIPURAM COMPLEX BRANCH AT VANASTHALIPURAM, HYDERABAD of STATE BANK OF INDIA. It is a Single Bid containing Technical 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 Vice President, State Bank of India Infra Management Solutions Pvt. Ltd.,

6. Tenders are to be uploaded directly to M/S e-procurement Technologies Limited. E-mail: yashrajsinh@auctiotiger.net
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1. TENDER FORM

PROJECT: INTERIOR FURNISHING INCLUDING ELECTRICAL WORKS FOR PROPOSED RENOVATION OF VANASTHALIPURAM COMPLEX BRANCH AT VANASTHALIPURAM, HYDERABAD.

REF : INTERIOR FURNISHING & ELECTRICAL 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. 60.16 LAKHS.

I/We are depositing as Earnest Money a sum of Rs. 61,000.00/- (Rupees Sixty one Thousand Only) in favor of The ‘Vice President, SBI Infra Management Solutions Pvt Ltd, 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 15th 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:

___________________________ ____________________

___________________________ ____________________

___________________________ ____________________

___________________________ ____________________
2. NOTICE TO CONTRACTOR

ADDRESS:

__________________________________

__________________________________

__________________________________

PROJECT: INTERIOR FURNISHING INCLUDING ELECTRICAL WORKS FOR PROPOSED RENOVATION OF VANASTHALIPURAM COMPLEX BRANCH AT VANASTHALIPURAM, HYDERABAD.

REF : INTERIOR FURNISHING & ELECTRICAL WORKS

Dear Sirs,

1. On behalf of our clients, M/s SBIIMS Hyderabad, we have pleasure in inviting you to tender for the aforesaid work.

2. The scope of work broadly as given below is for Proposed INTERIOR FURNISHING INCLUDING ELECTRICAL WORKS FOR PROPOSED RENOVATION OF VANASTHALIPURAM COMPLEX BRANCH AT VANASTHALIPURAM, HYDERABAD.

3. Tender Documents should be filled and uploaded on the site of M/S e-procurement Technologies Limited. E-mail: yashrajsinh@auciotiger.net

4. 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 90 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 **SBIIMS HYDERABAD**, by Demand Draft a sum of **Rs. 61,000/-** 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, less EMD already paid, as initial Security Deposit (ISD) by means of a D.D./Banker’s cheque in favour of Vice President, SBI Infra Management Solutions Pvt Ltd, Hyderabad’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) on Page 7 of Volume 1.

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.

Signature of the Contractor
13. Time is the essence of the contract. The work should be completed within 90 days from the date of commencement. The date of commencement shall be within ONE day 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. 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, SBIIMS, 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 bank or SBIIMS 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 or SBIIMS. 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 or SBIIMS 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) Electrical (2) Airconditioning works (3) Fire fighting systems & (4) Interiors (fixed furniture), as the case maybe.
20. Release of security deposit:

i) 50% of the total security deposit will be released along with the final certificate of payments as stipulated under para 9 on page 12 of Volume I, Appendix to General Conditions of contract,

ii) Balance 50% 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
3. ARTICLES OF AGREEMENT

ARTICLES OF AGREEMENT made the ______________ day of __________ 2019
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.

Signature of the Contractor
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 in 90 days 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 45 days from the date of dispute having arisen.

AS WITNESS our hand this ______________ day of ____________ 2019

Signed by the said in the presence of:

WITNESS : SIGNATURE
NAME : 
ADDRESS : 
EMPLOYER

WITNESS : SIGNATURE
NAME : 
ADDRESS :
4. APPENDIX TO GENERAL CONDITIONS OF CONTRACT

1. Earnest Money Deposit (EMD) : Rs. 61,000/-

2. Initial Security Deposit (ISD) : 2% of contract value including EMD.

3. Period of completion : 90 DAYS

4. Defects Liability period : 12 months after completion as recorded in the completion certificate.

5. Agreed Liquidated Damages : ½% of contract amount per week of delay subjected to a maximum of 5% of contract value.

6. Period of final measurement : Three months after completion as recorded in the completion certificate.

7. Minimum value of work to be Executed for issue of interim Certificates for making payment : Minimum Rs. 20.00 Lakhs

8. a) Retention money from each bill : 10% of gross value of each interim bill, subject to 8(b) below.

b) Total retention money including Earnest money and initial security Deposit : 5% of the contract value.

9. Release of Security deposit after Virtual completion. : 50% of the total security to be released along with final certificate of payment, but only after removing all his materials, equipment, labour, huts/force, temporary sheds/stores, all his installations, machinery etc., from the site. Balance payment to be released on submission of Bank Guarantee on any Scheduled Bank, Other than SBI, and its associated banks in the prescribed manner and valid till the completion of defects liability period of 12 months plus 3 months.

10. Period for honouring certificate : 15 working days from date of Architects certificate of payment for interim bills and 45 working days for final certificate.

WITNESS : 

DATE : SIGNATURE OF THE CONTRACTOR WITH DATE
5. 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)
6. 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 Vice President, SBIIMS – Hyderabad
b. and shall include his/their heirs, legal representatives, assignees and successors.

c. “Contractor” shall mean ______________________________________
   ______________________________________________________________
   and shall include his/their heirs, legal representatives, assignees and successors.

d. “Banks Engineer” shall mean any Engineer who is employed by SBIIMS 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.

e. “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.

f. “Works” shall mean the works to be executed in accordance with contract specifications, quantities etc.

g. “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.

h. “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.

i. “Site” shall mean the Premises, on which the works are to be, provided, by the Employer or Architect for the purpose of the Contract.

j. “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.

k. “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.
1. “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.

m. “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.

n. “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.

o. 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 Architect’s 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 be given by the Architect and the SBIIMS, 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 SBIIMS, and in the event of the Architects and the SBIIMS 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 Contact.

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 Electrical 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 of every 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 form 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 debrix 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 give 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 vitiates 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 no 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 authorised 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 ender 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 Architecets 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 there from (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 be 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 within 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 SBIIMS 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.5.00 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 lien 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 incompleted 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 up to 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

Signature of the Contractor
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 determent 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 publication 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 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. Vice President, SBIIMS, Mumbai 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 his 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.
# 7. INDEX TO SPECIAL CONDITIONS OF CONTRACT

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60. B.I.S. Codes
8. 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:**

The rates and amounts for each tendered item should be filled in separate columns provided for in the Schedule of quantities and all the amounts should be totaled up in order to show the aggregate value of the entire tender. All rates shall be filled in both words and figures. These figures and words shall be preceded by ‘Rs’ and ‘Ps’ as the case may be, and while filling in words, must end with “Only”. Example:

i) Rs.15.25 (Rupees fifteen and paise twenty five only)
ii) Rs.20.00 (Rupees twenty only)

The rates quoted in figures should be clearly shown the rates in full. While filling rates in words, each line should end in ‘-’, and if continued further, last line for the rate of each item shall end in “Only”. All corrections, by the contractor in the tender schedule shall be duly attested by the initials of the tenderer. Corrections which are not attested or overwritings in rates may entail the rejection of the tender.

In case the rate written in figures/words/amount differ, the following procedure shall be followed:

a) When there is a difference between the rates in figures and in words, the rates which correspond to the amounts worked out by the contractor will be taken as correct.

b) When the amount of an item is not worked out by the contractor or it does not correspond with the rate written either in figures or in words, then the rate quoted by the contractors in words shall be taken as correct.

c) When the rates quoted by the contractor in figures and in word tallies but the amount is not worked out correctly, the rate quoted by the contractor shall be taken as correct and not the amount.

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:**

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, Electrical, 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 carry out all the mandatory tests as per list attached at the frequencies stated therein. Even after such tests, any materials brought to site or incorporated in the 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 electrical 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 one 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. **POSSSESSION 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 5th 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 5th 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) Witholding 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 SBIIMS 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 in 90 DAYS, and reckoned as under: WITHIN ONE DAY 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. 20.00 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 incase 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 /
SBIIMS.

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.
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. **MDF Board:**

MDF Board shall be of urea formaldehyde phenol bonded, make, brand, etc. Thickness of MDF Board 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 contract with moisture the adhesive shall be water proof.
20. **List of Indian Standards referred to:**

- **IS : 1200 : Latest**  Measurements of buildings & Civil Engineering works, methods of
- **IS : 3845 – 1966**  Code of practise for joints used in wooden furniture.
- **IS : 1137 – 1965**  Specification for ready mixed paint brushing
- **IS : 113 – 1950**  matt or egg shell flat/wooden coating under-coating/finishing, Grey filler etc., for
- **IS : 133 – 1975**  interiors.
- **IS : 110 – 1968**
- **IS : 129 – 1950**
- **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., to be measured separate in Sq.mt.

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 Sq.m. 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.
14. 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 electrical 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 electrically 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 electrical 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.
15. 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
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 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.
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 within 90 days from the commencement of the work. 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. 20,00,000/- (Rupees Twenty 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 in 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 SBIIMS 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 SBIIMS 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 SBIIMS 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 SBIIMS 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 expense effect and maintain up to one month after virtual completion of the contract, from an office approved by SBIIMS 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 SBIIMS 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. SBIIMS 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 Vice President**, SBI Infra Management Solutions Pvt. Ltd., Hyderabad Circle Adjacent to Commercial Branch State Bank of India, LHO Campus Bank Street, Kothi, HYDERABAD – 500 095 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 Vice President**, SBI Infra Management Solutions Pvt. Ltd., Hyderabad Circle Adjacent to Commercial Branch State Bank of India, LHO Campus Bank Street, Kothi, HYDERABAD – 500 095 in the manner and within the time aforesaid. The contractor shall be deemed to have waived and extinguished all his rights in respect of any claim not notified to **The Vice President**, SBI Infra Management Solutions Pvt. Ltd., Hyderabad Circle Adjacent to Commercial Branch State Bank of India, LHO Campus Bank Street, Kothi, HYDERABAD – 500 095 in writing in the manner and within the time aforesaid.
(b) **The Vice President**, SBI Infra Management Solutions Pvt. Ltd., Hyderabad Circle Adjacent to Commercial Branch State Bank of India, **LHO Campus Bank Street, Kothi, HYDERABAD – 500 095** 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 Vice President**, SBI Infra Management Solutions Pvt. Ltd., Hyderabad Circle Adjacent to Commercial Branch State Bank of India, **LHO Campus Bank Street, Kothi, HYDERABAD – 500 095** 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 Vice President**, SBI Infra Management Solutions Pvt. Ltd., Hyderabad Circle Adjacent to Commercial Branch State Bank of India, **LHO Campus Bank Street, Kothi, HYDERABAD – 500 095**.

(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 SBIIMS 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 SBIIMS. It will also be no objection to any such appointment that the Arbitrator so appointed is an 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 SBIIMS. 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 SBIIMS 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 mad 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 parities. 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 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 where 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 assertion 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.

34. The contractor should co-ordinate with other agencies viz., Electrical, HVAC (Air-Conditioning), Civil, LAN cabling etc.,

35. CONTRACTOR SHOULD WORK AT ODD HOURS, ON HOLIDAYS TO KEEP UP TIME SCHEDULE. CONTRACTOR TO CO-ORDINATE WITH L/W WITH REGARDS TO WORKING HOURS.

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.
### Abstract Terms and Conditions:

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<tbody>
<tr>
<td>1.</td>
<td>Defects Liability Period.</td>
<td>12 calendar months.</td>
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<tr>
<td>2.</td>
<td>Period for final measurement and valuation.</td>
<td>2 weeks.</td>
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<tr>
<td>3.</td>
<td>Date of commencement.</td>
<td>Within 1 day after confirmation.</td>
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<tr>
<td>4.</td>
<td>Date of completion.</td>
<td>NINETY (90) DAYS from date of commencement.</td>
</tr>
<tr>
<td>5.</td>
<td>Minimum value of Interim Certificate.</td>
<td>RS. 20,00,000/- (Rupees Twenty Lakhs Only.)</td>
</tr>
<tr>
<td>6.</td>
<td>Agreed liquidated damages.</td>
<td>½ % of the total contract amount per week beyond the date of completion subject to maximum of 5%.</td>
</tr>
<tr>
<td>7.</td>
<td>Initial Security Deposit.</td>
<td>1% to be paid along with the Tender, balance 1% to be paid within seven days from the date of receipt of work order.</td>
</tr>
<tr>
<td>8.</td>
<td>Retention Money.</td>
<td>10% of interim certificate amount of running account bill.</td>
</tr>
<tr>
<td>9.</td>
<td>Total retention money in final bill including EMD &amp; ISD Amount.</td>
<td>5% of the contract value.</td>
</tr>
<tr>
<td>10.</td>
<td>Installment after virtual completion.</td>
<td>Initial Security Deposit – after the contractor removes all the left over materials, machinery etc.,</td>
</tr>
<tr>
<td>11.</td>
<td>Period of honoring certificate.</td>
<td>7 days.</td>
</tr>
<tr>
<td>13.</td>
<td>Insurance, Custom duties and taxes.</td>
<td>To be provided and paid by contractor.</td>
</tr>
<tr>
<td>15.</td>
<td>Rate of BOQ’s items.</td>
<td>To include item complete in all respects.</td>
</tr>
<tr>
<td>16.</td>
<td><strong>GST TAX:</strong></td>
<td>The rate quoted by contractor must be exclusive of GST. GST will be paid as per prevailing government norms.</td>
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ARTICLES OF AGREEMENT

NAME OF WORK: INTERIOR FURNISHING INCLUDING ELECTRICAL WORKS FOR PROPOSED RENOVATION OF VANASTHALIPURAM COMPLEX BRANCH AT VANASTHALIPURAM, HYDERABAD.

Articles of agreement made at Hyderabad, this ________ day of_______2019 between The Vice President, SBI Infra Management Solutions Pvt. Ltd., Hyderabad Circle Adjacent to Commercial Branch State Bank of India, LHO Campus Bank Street, Kothi, HYDERABAD – 500 095 (herein after called the employer which expression shall include its successors and assignees) of the one part and_____________________(herein after called the contractors which expression shall include its successors and assignees) of the other part.

Whereas the employer desires to get the above mentioned work namely INTERIOR FURNISHING INCLUDING ELECTRICAL WORKS FOR PROPOSED RENOVATION OF VANASTHALIPURAM COMPLEX BRANCH AT VANASTHALIPURAM, HYDERABAD. as envisaged in tender documents dated _________________, schedule of quantities, specifications and the drawings.

And whereas the Contractor agreed to execute upon and subject to conditions set forth herein and to the conditions set forth in special conditions and in schedule of quantities, specifications, conditions of contract, drawings etc., (all of which are collectively hereinafter referred to as the said conditions) at the respective rates therein set forth amounting to the sum as herein arrived at or such sum as shall become payable there under (herein after referred as the said contract sum)

Now it is hereby agreed as follows :

1. In consideration of the said contract amount to be paid at the times and manner setforth in the said conditions the contractor shall upon and subjected to the said conditions and complete the work shown upon the said drawings and described in the specifications and schedule of quantities.

2. The employer will be pay the contractor a sum of RS.______________ (Rupees __________________________________________) herein after referred to as the contract sum or such other sum as shall become payable at the times and in the manner specified in the said conditions.

3. The term ‘THE ARCHITECTS‘ 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, which expression shall include successors and assignees or in the event their ceasing to be the Architects for the purpose of this contract for what ever reason such other person or persons as shall be nominated for that purpose by the employer, provided always that no person or persons subsequently appointed to be the architects under this contract shall be entitled to disregard or overrule any previous decisions or approval or directions given or expressed in writing by the Architects for time being.

4. The said conditions and appendix thereto shall be read and construed as forming part of this agreement and parties hereto shall respectively abide by, subject to themselves to the said conditions and perform agreements on their part respectively in the said conditions contained.
5. The following documents shall be deemed to form and read and construed as part of this agreement:
   
a) Notice Inviting Tenders. (NIT)
b) Tender Form.
c) Special Conditions of Contract.
d) General Specifications.
e) Drawings.
f) Employers letter of intent no.___________.
g) Contractors letter of acceptance.

6. This contract is neither a fixed lumpsum contract nor a piece work contract but a contract to carry out the work in respect of the entire building to be paid for according to actual measured quantities at the rates contained in schedule of quantities in the said conditions.

7. The Employer reserves to himself the right of altering the drawings and nature of work by adding or omitting any items of work having portions of the same carried out through the other agencies without prejudice to this contract.

8. The time shall be considered as essence of this contract and the contractor hereby agrees to commence the work from the ____________(which shall be considered as the date of commencement of the work) and to complete the entire work within 90 days from the date of commencement. The work shall throughout the stipulated period of contract, be proceeded with all due diligence and if the contractor fails to complete the work within the specified period, he shall be liable to pay compensation as provided in clause 7 of the special conditions of contract.

9. That the several conditions of this contract have been read to & fully understood by us.

As witness our hands, this __________day of __________2019 in the presence of:

Witness:

1. EMPLOYER:

2. CONTRACTOR.
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.

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 vise 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".
TECHNICAL SPECIFICATIONS
CHAPTER 1
INTERNAL ELECTRIFICATION

1.0 Scope:

This specification is intended to cover the requirements of supply, installation, testing and commissioning of electrical wiring installation and other accessories required for its satisfactory operation. This covers the essential requirements or precautions regarding wiring installations for ensuring satisfactory and reliable service.

2.0 Standards:


3. Construction

Wall mounted switch boards shall be installed such that the bottom is at a minimum height of 1.35 m above finished floor level wherever applicable, as indicated in the drawing.

Equipment which is on the front of a switch board shall be so arranged that inadvertent personnel contact with live parts is unlikely during the manipulation of switches, changing of fuses or similar operation.

In every case in which switches and fuses are fitted on the same pole, these fuses, shall be so arranged that the fuses are not live when their respective switches are in 'OFF' position.

No fuses other than fuses in instrument circuit shall be fixed on the back or behind a switch board panel or frame.

4. Capacity of circuit:

Lighting Circuits shall not have more than a total of ten points of fans, 5A socket outlets and light points and its total load shall not exceed 800 watts. Lights, fans, and 5A socket outlets can be wired on a single common circuit. If fan circuit is drawn separately, circuit shall not be used more than eight points and load shall not exceed more than 800 watts. In the circuit, the neutral and earth wires can be looped up to 10 points. From distribution boards Neutral & Earth wires shall be run for every circuit.

The power circuits shall not have more than two outlets per circuit if load to be fed by each outlet is less than 1KW, and if load is more than 2KW, each outlet shall be connected to a separate circuit.

Switches: All switches shall be placed in the live conductor of the circuit and no single pole switch or fuse shall be inserted in the earth or earthed neutral conductor of the circuits. Single pole switches (other than for multiple control) carrying not more than 15 amperes may be of the piano flush type and the switch shall be 'ON' when the knob is down.
Lamp holders: Lamp holders for use on brackets and the like shall have not less than 1.3 cm nipple and all those for use with flexible pendant shall be provided with cord grips. All lamp holders shall be provided with shade carriers. Where centre contact Edison screw lamp holders are used, the outer or screw contact shall be connected to the 'middle wire' or the neutral or to the earthed conductor of the circuit.

Lamps: All incandescent lamps, unless otherwise specified shall be hung at a height of not less than 2.5 m above the finished floor level.

Ceiling rose: a) A ceiling rose or any other similar attachment shall not be used on circuit, the voltage of which normally exceeds 250 volts.

A ceiling rose shall not embody fuse terminals as an integral part of it.

Every socket outlet shall be controlled by a switch. The switch controlling the socket shall be on the 'live' side of side line. 5 Amps and 15 Amps socket-outlet shall normally be fixed at any convenient place 60 cm above the floor level or near such level as indicated in drawing. 15 Amps socket outlets in kitchen shall be fixed at convenient place 23 cm above the working platform. In a room containing a fixed bath or shower, there shall be no socket outlet and there shall be no provision for connecting a portable appliance.

5 Recessed MS conduit wiring system

a) Making of chase: The chase in the wall shall neatly be made and shall be of suitable dimension to permit the conduit to be fixed in the manner desired by the Engineer-in-charge. In the case of buildings under construction, chases shall be provided in the wall, ceiling, etc. at the time of their construction and shall be filled up neatly after erection of conduit and brought to the original finish of the wall.

b) Fixing of conduit in chase: The conduit shall be fixed by means of staples or by means of saddles not more than 600 mm apart. Fixing of standard bends or elbows shall be avoided as far as practicable and all curves maintained by bending the conduit pipe itself with a long radius which will permit easy drawing-in of conductors. All the threaded joints of rigid steel conduits shall be treated with approved preservative compound to ensure protection against rust.

c) Inspection boxes: To permit periodical inspection and to facilitate replacement of wires, suitable inspection boxes shall be provided at convenient locations. They shall be mounted in flush with the wall. The minimum size of inspection boxes shall be 75 x 75 mm. Suitable ventilating holes shall be provided in the inspection box covers.

d) Types of accessories to be used: All outlets, such as switches and sockets, may be either of flush mounting type or of surface mounting type.

The switches and other outlets shall be mounted on such boxes. The metal box shall be efficiently earthed with the earth continuity wire run along the conduit.
When crossing through expansion joints in buildings, the conduit sections across the joint may be through flexible copper bellows of the same size as PVC conduit. The Number of wires that can be drawn through a conduit shall be strictly as per IS 732 and as mentioned in Drawings.

6. MS Conduits:

MS conduit shall be black enameled and of thickness not less than 16SWG and of size minimum 19 mm dia. The Conduit shall conform to IS 9537/ Part II

Bunching of cables: Separate conduits shall be used for bunching of conductors of AC supply and DC supply for lighting and small power outlet circuits.

All outlets of conduit systems shall be properly drained and ventilated, but in such a manner so as to prevent the entry of insects etc. as far as possible.

Bends in conduit: Wherever necessary, bends or diversions may be achieved by bending the conduits or by employing normal bends, inspection bends, inspection boxes, elbows or similar fittings.

In case of plain conduit, heat may be used to soften the conduit for bending and forming joints. Positioning of conduit in close proximity to hot surfaces should be avoided.

7. TESTING OF WIRING:

The following tests shall be carried out on all types of wiring on completion of the work and before energizing the installation:

i) Insulation resistance test,

ii) Electrical continuity test,

iii) Earth continuity test,

iv) Earth electrode resistance test,

v) Switch polarity test.

i) Insulation Resistance test:
The insulation resistance shall be measured by using 500 v megger between the following points.

Phase and neutral conductor with all fuses in position and all switches in closed condition and main switch in OFF position with lamps and other devices removed.

Between earth and whole system of conductors with all fuses in place, all switches closed and all lamps in position.
Between all conductors connected to one phase of the supply of the above tests shall not be less than 50 divided by the number of points on the circuit. Where a whole installation is being tested, a lower value than that given by the above formula is acceptable subject to a minimum of one megaohm.

The insulation resistance in megaohm as obtained by each of the above tests shall not be less than 50 divided by the number of points on the circuit. Where a whole installation is being tested, a lower value than that given by the above formula is acceptable subject to a minimum of one megaohm.

(ii) Electrical continuity test:

Each and every circuit shall be tested for electrical continuity by using a multimeter.

(iii) Earth continuity test:

The earth continuity conductor including metal conduit shall be tested for electrical continuity and the resistance of the same along with the earthing lead measured from the connection with the earth electrode to any point in the earth continuity conductor in the complete installation shall not exceed one ohm.

(iv) Earth electrode resistance test:

The earth electrode resistance shall be tested as specified in section

(v). Switch polarity test:

Test shall be made to verify that all switches in every circuit have been fitted in the same conductor throughout and such conductor shall be marked for connection to the phase conductor.

8 Distribution Boards:

All the distribution boards shall be with MCBs as described in the respective schedule.

The distribution boards shall be controlled by a switch fuse, miniature circuit breaker or an isolator as described in the respective schedule. Each outgoing circuit shall be provided either with MCB or a fuse on the phase. The neutral shall be connected to a common link and be capable of being disconnected individually for testing purposes.

The distribution boards shall be located as indicated in the respective electrical working drawings and as directed by Engineer - in - charge. The distribution boards shall be fixed on wall in the niche provided and marked with the details of circuits, source of supply, size of incoming wires etc.

All marking shall be clear and legible.

The total load of the consuming devices shall be evenly distributed between the number of ways of distribution board.

The consuming devices circuit shall be connected to distribution board in proper sequence, so as to avoid unnecessary crossing of wires.

Cables shall be connected to a terminal only by crimped lugs.
Cables shall be rigidly fixed in such a manner that a clearance of at least 2.5cm is maintained between conductors of opposite polarity or phase and between the conductors and any material other than insulating material.

The incoming and outgoing cables shall be neatly bunched.

9. MOUNTING HEIGHTS:

The Mounting heights of various fixtures shall be as specified in the Drawings.
1.0 **Scope**:
This specification is to cover the requirement of design, supply, installation, testing and commissioning of LT power control centres / main switch boards with all components, Instruments, fittings and accessories for efficient operation without any trouble.

2.0 **Standards**:
The PCC specified herein, unless otherwise stated shall conform to the relevant and latest revisions of Indian standards and Indian Electricity Rules.

3.0 **Design and construction**:
3.1 Design requirements: The power control centres shall be suitable for operation on 440 volt, 3 phase, 4 wire 50 HZ system to withstand a short circuit level of 50 KA RMS symmetrical.

The PCC shall be designed for operation in high ambient temperature upto 45 degrees centigrade and high humidity upto 95% and tropical atmospheric conditions. Means shall be provided to facilitate ease of inspection, Maintenance and Servicing.

3.2 Constructional requirements:
The power control centre shall be of

i) Metal clad, cubicle, indoor, free standing type suitable for Mounting on Built up Trenches with U Channels of adequate size.

ii) Made up of the requisite vertical sections, which when coupled together shall form continuous dead front switch board.

iii) Dust and damp protected, the degree of protection shall be better than IP - 54 as specified in IS-2147.

iv) Readily extendable on both sides by the addition of vertical sections after removal of the end covers.

v) Single front construction with the circuit beaker feeder and switch fuse feeders suitable for operation from the front of the panel.

The PCC shall have the feeder ratings as per the schematic diagrams enclosed with the schedule and constructed only of materials capable of withstanding the mechanical, electrical and thermal stresses as well as the effects of humidity, which are likely to be encountered in normal service.
3.3 Vertical Sections: Each vertical section shall comprise a front framed structure rolled folded sheet steel channel section of minimum 2 mm thickness rigidly bolted together. This structure shall house the components contributing the major weight of the equipment such as circuit breaker, switch fuse units, main horizontal busbars, vertical risers and other front mounted accessories. The structure shall be mounted on a rigid base frame of folded sheet steel of minimum of 2.5 mm thickness and 100 mm height. The design shall ensure structural stability during transit and also during operation after commissioning. Suitable cable chamber housing the cable end connections and power / control cable terminations shall be provided. The design shall ensure generous availability of space for ease of installation and maintenance of cabling and adequate safety for working in one vertical section without coming into accidental contact with live parts in the adjacent section.

A cover plate at the top of the vertical section shall be provided with necessary ventilating arrangements. Any aperture for ventilation shall be covered with a perforated sheet having less than 1 mm diameter perforations to prevent entry of vermin.

3.4 Sheet Steel Cubicle:

3.4.1 The sheet steel cubicle shall be designed in fully segregated multitier formation. Each cubicle shall have hinged front access door with easy operating fasteners. All the doors and covers shall be heavily gasketed to make the compartment dust tight. Each cubicle shall have a covering at the bottom to make a dust and vermin proof construction. Door hinges shall be of concealed type.

The cubicle shall be of minimum 2 mm thick sheet steel. Sheet steel shrouds and partitions shall be of minimum 1.6 mm thickness. All sheet steel work forming the exterior of switch boards shall be smoothly finished, leveled and free from flaws. The corners shall be rounded. The minimum thickness of gland plates shall be 3 mm.

3.4.2 The apparatus and circuits in the power control centers shall be so arranged as to facilitate their operation and maintenance at the same time to ensure the necessary degree of safety. Apparatus forming part of the control centers shall have the following minimum clearance.

i) between phases - 25 mm,

ii) between phase and neutral - 25 mm,

iii) between phases and earth - 25 mm,

iv) Between neutral and earth - 19 mm,

When, for any reason, the above clearances are not available suitable insulation shall be provided. Clearance shall be maintained during normal service conditions. Creepage distances shall comply with those specified in relevant standards.

3.4.3 All insulating materials used in the construction of the equipment shall be non hygroscopic duly treated to withstand the effect of high humidity, high temperature and tropical ambient service conditions.

3.4.4 Functional units such as circuit breakers and fuse switches shall be arranged in multitier formation, except that not more than one air circuit breaker housed in a single vertical section.

3.4.5 Metallic/insulated barriers shall be provided within vertical sections and between adjacent
sections to ensure prevention of accidental contact with:

i) Main busbars and vertical risers during operation, inspection or maintenance of functional units and front connected accessories.

ii) Cable terminations of one functional unit, when working on those of adjacent unit/units.

3.4.6. All doors / covers providing access to live power equipment / circuits shall be provided with tool operated fasteners to prevent unauthorized access.

3.4.7 Provisions shall be made for permanently earthing the frames and other metal parts of the switchgear by two independent connections.

3.5 Metal treatment and finish:
All steel works used in the construction of the switch boards shall have undergone a suitable rigorous metal treatment process so as to remove oxide scales and rust formation and to facilitate a durable coating of the paint on the metal surfaces and also to prevent the spreading of rust, in the event of the paint film being mechanically damaged.
Two coats of Anti Corrosive primer followed by a finishing coat of Epoxy spray power coating of the shade 631 of IS : 5 (i.e. Siemens grey) shall be given. The total thickness of paint shall not be less than 25 micron.

3.6 Bus Bars:

3.6.1 The busbars shall be housed in non-segregated sheet steel compartments in the cubicle at convenient locations with provision for access to the buses from the front of the panel. The busbar shall be suitably braced with DMC/SMC supports to provide a through fault withstand capacity of 50 KA RMS symmetrical for one second and a peak short circuit withstand capacity 150 KA minimum. The neutral as well as the earth bus shall be capable of withstanding the above fault level.

3.6.3 Large clearance and creeping distance shall be provided on the busbar system to minimize the possibility of a fault.

3.6.4 High tension bolts, nuts and spring washers shall be provided at all busbar joints.

3.6.5 The continuous rating of the busbar shall be 125% of the rated current. Maximum temperature of the bus and the connections shall not exceed 85 degrees centigrade. The busbars shall be of liberal design for the required current rating i.e. 0.8Amp/sq.mm.

The main phase busbars shall have continuous current rating throughout the length of each power control centre and the neutral busbars shall have continuous rating of at least 50% of phase busbars.

3.6.6 Connections from the main busbars to functional circuits shall be arranged and supported so as to withstand without any damage or deformation, the thermal and dynamic stresses due to short circuit currents.

All busbars and tapings shall be provided with color coded sleeves for phase identification.

All joints/tapping points of the buses shall be suitably shrouded to prevent accidental contact.
4.0 Circuit Breakers:

4.1 General:

4.1.1 Circuit breakers shall be of triple pole / four pole, air break, horizontal draw out /Fixed type, as given in the schedule of work and comply with the requirements of relevant IS with latest amendments and shall have the following:

i) A short circuit breaking capacity of not less than 50 KA RMS at 415 volts, 50 Hz AC.

ii) A short circuit making capacity of 105 KA.

iii) A short time withstand capacity of 150 KA for one second.

iv) Electrical overload performance at 6 times the rated current, 100% of the rated voltage as recovery voltage at 0.5 power factor.

v) Dielectric test of 2.5 KV applied for one minute on main circuits.

4.1.2 The circuit breakers shall be fitted with detachable arc chutes on each pole designed to permit rapid dispersion, cooling and extinction of the arc. Interphase barriers shall be provided to prevent flash over between phases.

4.1.3 Arcing contacts shall be of hard wearing material copper tungsten or silver tungsten and shall be easily replaceable. Main contacts shall be of silver plated copper of high pressure type and generous cross section.

4.2 Operating Mechanism:

The operating mechanism shall be of robust design, with minimum number of linkages to ensure maximum reliability. Manually operated circuit breakers shall be provided with spring operated closing mechanism which are independent of speed of manual operation. Electrically shall be independent of the motor which shall be used slowly for charging the closing spring.

The operating mechanism shall be such that the breaker is at all times free to open immediately when the trip coil is energized.

Mechanical operation indicators shall be provided to show open and close positions of the breaker. Electrically operated breakers shall be additionally provided with mechanical indications to show charged and discharged conditions of the charging spring.

Means shall be provided for slow closing and opening of the breaker for maintenance purposes, and for manual changing and closing of electrically operated breakers during emergencies.

4.3 Protection:

Provisions shall be available for fitting a minimum of five trip devices - three over current, as shunt trip and an under voltage release or two over current and earth fault release, a shunt trip and one under voltage release. The breakers shall be of the shunt or series trip type as specified in the schedule.
4.4 Housing of Circuit Breaker:

Circuit breakers shall be individually housed in sheet metal castle provided with hinged doors. The breaker along with its operating mechanism shall be mounted on a robust carriage moving on guide rollers within the castle. Isolating contacts for both power and control circuits shall be of robust design and fully self-aligning. The assembly shall be designed to allow smooth and easy movement of the breakers within its castle.

The breaker shall have three distinct positions within the castle as follows:

i) `Service' position: With main and auxiliary contacts connected.

ii) `Test' position: with power contacts fully disconnected and control circuit contacts connected.

iii) `Isolated' position: with both power and control circuit contacts fully disconnected.

It shall be possible to achieve any of the above positions with the castle doors closed. Mechanical position indicators shall be provided for the three positions of the breakers.

4.5 Interlocking:

4.5.1. The moving portion of the circuit breaker shall be interlocked so that:

i) It shall not be possible either to isolate it from the connected position, or to plug it in from the isolated position with the breaker closed.

ii) The circuit breaker can be closed only when it is in one of the three positions or when it is fully out of the castle.

iii) It shall not be possible to open the hinged door of the castle unless the breaker is drawn to the isolated position.

iv) Inadvertent withdraw of the circuit breaker too far beyond the supporters is prevented by suitable stops.

4.5.2 Provisions shall be available for the padlocking of the circuit breaker access frame in any of the three positions.

4.5.3 Automatically operated safety shutters shall be provided to screen the fixed isolating contacts when the breaker is drawn out from the castle.

4.5.4 The moving portion of the circuit breaker shall be provided with a heavy duty, self-aligning earth contact, which shall make before and break after the main isolating contacts during insertion into with withdraw from the service position of the breaker. Even in the isolated position positive earthing contact should exist.

4.5.5 Auxiliary switches directly operated by the breaker operating mechanism and having 4 `NO' and 4 `NC' contacts, shall be provided on each breaker. The auxiliary switch contacts shall have a minimum rated thermal current of 10 amps.
5.0 **Switch Fuse Units**:

5.1 **General**:

The switch fuse units shall be of the load break, heavy duty, cubicle type conforming to the requirements IS and of AC 23 duty.

The switch fuse units shall be capable of withstanding the thermal and electromagnetic stresses caused by short circuits for the time of operation of the associated fuse links.

The switch fuse units shall be double break and have quick make break mechanism, designed to ensure positive operation.

All switch fuse contacts shall be silver plated at the current transfer surfaces.

The unit shall be provided with a front operating handle. The ON and OFF positions of the switch handle shall be clearly marked.

5.2 **Interlocks and Safety**:

Interlocks shall be provided so as to prevent opening of the unit door when the switch is in the ON position and also to prevent closing of the switch with the door not properly secured. It should however be possible for a competent person to operate the switch shall be suitable for locking with switch in the OFF position by means of a padlock.

The interior arrangement of the switch fuse unit shall be such that all 'Live' parts are shrouded.

5.3 **HRC Fuses**:

The switch fuse units shall be fitted with High rupturing capacity cartridge fuse links with ISI marking for a rupturing capacity of not less than 80 KA at 415 volts. The fuse links shall be mounted in a drawout carriage, thus ensuring positive isolation of contacts during fuse replacements.

6.0 **Current Transformers**.

Current transformers shall comply with the requirements of relevant latest amendment IS. They shall have ratios, outputs and accuracy as specified in the schedule.

7.0 **Indicating/Integrating Meters**:

All indicating instruments shall be of flush mounted industrial pattern conforming to the relevant latest amended IS. The instrument shall have non reflecting bazels, clearly, divided and indelibly marked scales, and shall be provided with zero adjusting devices in the front. Integrating instruments shall be of flush mounted switch board pattern complying with the requirements of relevant latest IS.

8.0 **Relays**:

Circuit breakers shall be provided with integrally mounted relays as specified in the schedule.

The relay shall have a set of three phase characteristics, which shall be adjustable over a wide range, to provide discrimination between a multiplicity of devices. The relay shall be able to provide over
current and earth fault protection. Also UV and Shunt trip Relays are to be provided.

9.0 **Control switches/Selector switches** : Control switches/Selector switches shall be of the heavy duty rotary type, with plates clearly marked to show the operating position. They shall be of semi-flush mounted type with only the front plate and the operating handle projected.

Circuit breakers control switches shall be of the spring return to neutral type.

10.0 **Indicating lamps and push buttons** :

Indicating lamps shall be of the LED type of low watt consumption, provided with series resistors where necessary and with translucent lamp covers. Bulbs and lenses shall be easily replaceable from the front.

Push buttons shall be of the momentary contact, push to actuate type fitted with self-reset contacts and provided with plates marked with its junctions.

11.0 **Cable terminations** :

Cable entries and terminals shall be provided in the switch board to suit the number, type and size of aluminum conductor power cables and copper conductor control cables as indicated in the schematic diagram.

Provision shall be made for top or bottom entry of cables as required. Generous size of cabling chambers shall be provided, with the position of cable glands and terminals such that cables can be easily and safely terminated.

Barriers or shrouds shall be provided to permit safe working at the terminals of one circuit without accidentally touching that of another live circuit.

Cable riser shall be adequately supported to withstand the effects of rated short circuit currents without damage and without causing secondary faults.

Cable sockets shall be of copper and of the crimping type/soldering as required.

12.0 **Control wiring** : All control wiring shall be carried out with 1100/650 V grade single core Copper cable conforming to relevant IS having stranded copper conductors of minimum 2.5 sq.mm. section for CT Wiring and 1.5sq.mm for Control/indicating Instruments.

Wiring shall be neatly bunched, adequately supported and properly routed to allow easy access and maintenance.

Wires shall be identified by numbered ferrules at each end. The ferrules shall be of the ring type of non-deteriorating material. They shall be firmly located on each wire so as to prevent free movement.

All control circuit fuses shall be mounted in front of the panel and shall be easily accessible.

13.0 **Terminal blocks and labels** :
Terminal block shall be of 500 volts grade of the stud type. Insulating barriers shall be provided between adjacent terminals.

Terminal block shall have minimum current rating of 10 amps and shall be shrouded.

Provisions shall be made for label inscriptions.

Labels shall be made of anodized aluminum, with white engraving on black background. They shall be properly secured with fasteners. Danger plate of size and descriptions as recommended in the relevant IS shall be provided on the PCC.

14.0 Tests:

i) The power control centre shall be completely assembled, wired, adjusted and tested for operation under simulated conditions to ensure correctness of wiring and interlocking and proper functioning of all components.

ii) Each power control centre and components shall be subjected to standard routine tests as per applicable clauses of relevant standards.

iii) All current carrying parts and wiring of power control centre shall be subjected to power frequency voltage withstand test.

15.0 Drawings: After the award of the contract the contractors shall submit three copies of the following drawings for approval of the Department.

i) Outline dimensional drawing of the PCC showing the general arrangement indicating the following:
   a) Busbar clearances;
   b) power and control cable entry points;
   c) Configuration of busbars;
   d) Details of support insulations and spacings;
   e) Outgoing power cable termination arrangements.

ii) Single line diagram of power control centre showing Protection, Metering etc.

iii) Cubicle wiring diagram.

iv) List of Firements with Ratings & makes / Models

16.0 Installation Testing and commissioning:

The power control centre shall be installed over the cable trench/cable pit using suitable size of MS channel including grouting of the channel with necessary bolts and nuts. Proper earthing of PCC shall be done using two independent copper/GI strip of sizes as indicated in the schedule. The channel shall be painted with one coat of red oxide primer and two coats of anticorrosive enamel paint of proper shade as directed by the Engineer-i-charge.

The pre-commissioning tests as required shall be done and the PCC shall be commissioned.
CHAPTER 3  
LAYING OF CABLES

1.0 **Scope:**

This specification is intended to cover the requirements of installation and energizing of PVC/XLPE/PILCDSTA power cables including jointing of cables.

2.0 **Standards:**

The power cable and its fixing accessories shall comply with the latest relevant Indian Standards and National Electrical Code.

3.0 **Laying of Cables:**

3.1 **General:**

3.1.1 Before the commencement of cable laying, it shall be ensured by the Engineer-in-Charge that only ISI marked cables are used. It shall be the responsibility of the contractor to check the soundness and correctness of the size of the cable while taking delivery of the cable from stores. Any defect noticed shall be brought to the notice of the issuing authorities immediately. If any defects is noticed after the cable is laid or during the process of laying, it shall be brought to the notice of the Engineer-in-Charge and upon his satisfaction, that the cable is not damaged due to bad handling, it will be the entire responsibility of the contractor to retrieve the cable already laid and return the defective cable to store and take fresh length of the cable from the store and relay the same.

3.1.2 The material such as bricks, sand, cable route markers, RCC slab of best quality as approved by the Engineer-in-Charge only shall be used for cable laying works.

3.1.3 The contractor shall provide all the necessary labour, tools, plants and other requisites at his own cost for carrying out pumping of water and removing of water from trenches, if any, where required.

3.1.4 Installation shall be carried out in a neat, workman like manner by skilled, experienced and competent workman in accordance with standard practices.

3.1.5 While laying the cable care shall be taken to avoid formation of kinks and also damage to the cable. In the case of cable bends, it shall not have bent radius lesser than 20 times the overall diameter of the cable.

3.1.6 A cable loop of about five meters length and as directed by the Engineer-in-Charge / SBIIMS shall be provided at the following locations.
   a) Near the termination points
   b) Near to the straight through joint

3.1.7 The method of cable laying and routing of cables, shall in every case be as directed by the Engineer-in-Charge / consultant / SBIIMS.
3.1.8 Whenever cable passes through hume pipes/GI pipes embedded across the wall in a building, both the ends of the pipe shall be suitably sealed.

3.1.9 Identification tags indicating the size of the cable and feeder designation shall be securely attached at both ends of the cable. Such tags shall also be attached to the cable at intervals of 50 Mtrs. The materials of the tag shall be of either 12 SWG GI sheet. In case of plastic, the details have to be engraved and in case of GI sheet, the details should be punched. Cable route markers shall be provided at the intervals of 200 M with a minimum of one number route marker. The details of the route markers shall be as per the drawing. At the locations of straight through joints, necessary joint-markers shall be provided.

3.1.10 When cable runs vertically, it shall be clamped on mild steel flats or angle iron fixed on walls and are spaced at such intervals as to prevent buckling of the cables. All steel work shall be painted with a coat of red oxide and thereafter finished with suitable anticorrosive paints.

3.2 Cable laid in ground:

3.2.1. All MV cables (up to 1.1 KV) shall be laid at a minimum depth of 0.75 M & HT cables (1.1 KV to 11 KV) shall be laid at a depth of 1.0 M when laid in ground. When cable pass through roads, nallahs etc. they must be protected by either hume pipe or GI pipe of suitable dimensions.

3.2.2. Excavations of trenches shall be carried out as indicated in the drawing. The width of the trench at the bottom shall be 0.4 M for one cable. In case the total number of cables laid in trenches is more than one, then the width shall be such that the spacing between the cables is maintained as shown in the drawing. Before the cable is laid in the trench the bottom of the trench shall be cleared from stones and other sharp materials and filled with sand layers of 75 mm, as shown in the drawing.

3.2.3. While removing the cable from the drum, it shall be ensured that the cable drum is supported on suitable jacks and the drum is rotated to unwind the cable from the drum. The cable should never be pulled while unwinding from the drum. It shall be ensured that the cables are run over the wooden rollers placed in the trench at intervals not exceeding 2 M.

3.2.4. After placing the cables in the trench shall be filled in layers ensuring that each layer is well rammed by spraying water and consolidated. The extra earth shall be removed from the place of trench and deposited at a place as directed by the Engineer-in-Charge/consultant / SBIIMS.

3.2.5. The HT cables shall be provided with RCC slabs (marked HT cable) on top as protection.

3.3 Cables laid in built up trench:

3.3.1. Before the commencement of cable laying the cable trench shall be drained properly. Cable shall be laid as explained in item 3.2. Cable shall be properly clamped to the cable supports, which are provided in the cable trench. The method of clamping shall suit the size of the cable and the cable supports, which are provided in the cable trench. The method of clamping shall suit the size of the cable and the cable supports, as directed by the Engineer-in-Charge / SBIIMS.

Care shall be taken while removing and replacing the trench cover slab. It is the responsibility of the contractor to make good any damaged trench covers.
3.4. Cable terminations and straight through joints:

3.4.1. All cable jointing materials such as straight through joint boxes, cable compound, cable lugs, insulation tapes etc. shall be of best quality and as approved by the Engineer-in-Charge / SBIIMS.

3.4.2. Cable glands for strip / armoured cables shall include a suitable armour clamp for receiving and securely attaching the armouring of the cable in a manner such that no movement of the armour occurs when the assembly is subjected to tension forces.

The cable gland shall not impose on the armouring, a bending radius not less than the diameter of the cable. The clamping ring shall be solid and of adequate strength.

Provision shall be made for attachment of an external earthing bond between the metallic covering of the cable and the metallic structure of the apparatus to which the cable box is attached.

3.5 Sealing boxes:

3.5.1. A sealing box, irrespective of the class of insulation of the cable for which it is intended, shall be so designed that it may be filled with compound after connecting the cable specially in flame proof/hazardous areas.

3.5.2. All parts and connection for attaching the armouring, wiping or clamping the metallic sheath in a sealing box, shall be easily accessible. This may be achieved by splitting the box or by providing a suitable cover or other such means.

3.5.3. The joints in the box shall prevent leakage of the compound.

3.5.4. Provision shall be made to ensure that the cores of the cable are efficiently sealed to prevent moisture penetrating along the strands or the cable conductors.

3.5.5. The sealing box shall be provided with compound filling orifices with suitable covers or plugs of size that will permit easy pouring of the compound.

In all cases where screwed plugs are used, one or more air vents shall be provided to ensure complete expulsion of air and total filling of the box with compound.

3.5.6. The box shall be of sufficient length to allow for manipulation of the insulated cover without damage to them or to the insulation.

3.5.7. A sealing box intended to be attached directly to the apparatus shall be designed such that the box together with the connected cable may be detached from the apparatus without disturbing the sealing compound.

3.5.8. Cable sealing and dividing boxes intended for use in the flame proof areas shall comply additionally with the relevant requirements of IS:2148-1968.
4.0 Testing

Once cable is laid, following tests shall be conducted in the presence of Engineer-in-Charge, before energizing the cable:

i) Insulation resistance test (Sectional and Overall).
ii) Sheathing continuity test.
iii) Continuity and conductor resistance test.
iv) Earth test.
v) High voltage test.

Tests conducted shall be as per Indian Standards and National Electrical Code.
1.0 SCOPE:

This specification is intended to cover the requirements of supply, installation, testing and commissioning of

a) Pipe earthing
b) Plate earthing
c) Strip earthing

2.0 STANDARDS:

Earthing installations shall conform to the Indian Electricity Rules - 1956, as amended from time to time and IS 3043-1989 "code of practice for earthing", with latest amendments.

3.0 Earth electrode arrangement:

3.1 Pipe electrode:
3.1.1 Electrode shall be made of CI pipe having a clean surface and not covered with paint, enamel or poorly conducting material. Galvanized pipe shall not be smaller than 100 mm ID. Earthing with pipe electrode shall be done as per the details indicated in IS:3043/87.
3.1.2 Electrodes shall be embedded below permanent moisture level.
3.1.3 The length of pipe electrodes shall not be less than 2.5 m. If rock is encountered, pipes shall be driven to a depth of not less than 2.5 m with suitable inclination. Pipe shall be in one piece and deeply driven.
3.1.4 To reduce the depth of burial of an electrode without increasing the resistance, a number of rods or pipes may have to be connected together in parallel. The distance between two electrodes in such a case shall not be less than twice the length of the electrode. The earthing lead shall be connected by means of a through bolt, nuts and washers and cable socket.

3.2 Plate electrode:
For plate electrodes, minimum dimensions of the electrode shall be as under.

3.2.1 GI plate electrode: 600 x 600 x 6 mm thick.
3.2.2 Copper plate electrode: 600 x 600 x 3.15 mm thick
3.2.3 The electrode shall be buried in ground, with its faces vertical and top not less than 2.5 M from the surface of the ground.
3.2.4 Earthing using plate electrode shall be done as per details, indicated in drawing.
3.2.5 Plate electrodes shall have a galvanized iron water pipe, buried vertically and adjacent to the electrode. One end of pipe shall be at least 5 cm above the surface of the ground and need not be more than 10 cm. The internal diameter of the pipe shall be at least 19 mm. The length of pipe under the earth's surface shall be such that it shall be able to reach the center of the plate. The earthing lead shall be securely bolted the plate with two bolts, nuts, check nuts and washers.

3.3 Strip or conductor electrodes:
3.3.1. Strip electrode shall not be smaller than 25 x 1.6 mm, if of copper and 25 x 3 mm, if of...
galvanized iron and steel. If round conductors are used as earth electrodes, their cross sectional area shall not be smaller than 3 sq.mm, if of copper and 6 sq.mm. if galvanized iron and steel.

3.3.2. Conductor shall be buried in trenches not less than 0.5 m deep.

4.0 General:
  i) All materials used for connecting the earth lead with electrode shall be of GI in case of GI pipe and GI plate electrodes, and of tinned brass in case of copper plate electrode. The earthing lead shall be securely connected at the other end to the main board.

  ii) The earthing lead from electrode onwards shall be suitably protected against mechanical injury by routing the earth wire / strip through a suitable size of GI pipe.

  iii) All medium voltage equipments shall be earthed by two separate and distinct connections with the earth. In the case of high and extra high voltages, the neutral points shall be earthed by not less than two separate and distinct connections with the earth, each having its own electrode at the generating station or substation.

  iv) All materials, fittings etc. used in earthing shall conform to Indian standard specifications wherever they exist. In the case of materials for which Indian standard specifications do not exist, such materials shall be approved by the Engineer-in-Charge.

  v) The earth electrode shall be kept free from paint, enamel and grease.

  vi) It shall be ensured that similar materials for respective earth electrodes and earth conductors are used.

  vii) Earth electrode shall not be installed in proximity to a metal fence.

  viii) Copper/GI strip shall be connected to the respective earth electrodes, either by brazing or welding respectively. The Copper/GI strip shall be jointed only either by brazing or by riveting at the end of overlapping portions. The overlap shall not be less than 50 mm.

  ix) Earthing clamps used for supporting earth strips shall be made of such materials so as to avoid bimetallic action between strip and clamps.

5.0 Testing:

The earth resistance of each electrode shall be measured by using a reliable and calibrated earth megger and the value shall be as per IS/IE rules.
### LIST OF I.S.CODES FOR INTERNAL ELECTRIFICATION INSTALLATIONS

#### 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. **Rigid steel conduits for electrical wiring**  
   IS 9537-PII-1989

7. **Fittings for electrical wiring**  
   IS 2667-1964

8. **Flexible steel conduits electrical wiring**  
   IS 3430-1966

9. **Accessories for rigid steel conduit insulated cables**  
   IS 3837-1966

10. **General and safety requirements for electric lighting fittings**  
    IS 1913-1969

11. **Protecting of buildings and allied structures against lightning**  
    IS 2309-1967

12. **Busbar ratings**  
    IS 8084-1976

13. **On load change over switches**  
    IS 4064-1978
### LIST OF APPROVED MANUFACTURERS / NATURAL SOURCES OF MATERIALS TO BE USED IN

**THE ELECTRICAL WORKS SUBJECT TO THE APPROVAL OF SAMPLES BY THE CONSULTANT.**

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Material Name.</th>
<th>Brand / Manufacturer / Recommended Make.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Switches/Sockets/Fan Regulators/Front.</td>
<td>MK India (Logic) / Toyoma / Legrand / ABB / LK / Crabtree / Siemens.</td>
</tr>
<tr>
<td>2.</td>
<td>Telephone/Computer Sockets</td>
<td>MK India (Logic) / Toyoma / Legrand / ABB / LK / Crabtree / Siemens / AMP / Dlink.</td>
</tr>
<tr>
<td>3.</td>
<td>Cables/Copper Conductor wires</td>
<td>Finolesx / Polycab / Anchor / Havells / L &amp; T / RR Kables / lapp / Qflex.</td>
</tr>
<tr>
<td>4.</td>
<td>PVC conduits &amp; Accessories</td>
<td>Precision (Dt) / Sudhakar / Avon plast / Atul / Mecury / VIP.</td>
</tr>
<tr>
<td>5.</td>
<td>MS Conduits &amp; Accessories</td>
<td>Gupta / Bharat / BEC.</td>
</tr>
<tr>
<td>8.</td>
<td>MCCBs/Switchgear</td>
<td>GE Power / Merlin Gerin (Compact) / BCH / L&amp;T / MD.</td>
</tr>
<tr>
<td>9.</td>
<td>Under ground Cables</td>
<td>CCI / POLYCAK / FIOLEX / KEI / RR KABEL / Havells</td>
</tr>
<tr>
<td>10.</td>
<td>Cable Glands</td>
<td>HMI / Comet / Havells</td>
</tr>
<tr>
<td>12.</td>
<td>Cable Lugs</td>
<td>Dowell’s / 3D / Havells</td>
</tr>
<tr>
<td>13.</td>
<td>MV Panels (PCCs)</td>
<td>Manufacturers with CPRI Test Certificate.</td>
</tr>
<tr>
<td>14.</td>
<td>ELRs/CBCT</td>
<td>Prokdvs / Nagoba</td>
</tr>
<tr>
<td>15.</td>
<td>Measuring Instruments</td>
<td>Prokdvs / Enercon</td>
</tr>
<tr>
<td>16.</td>
<td>Indication Lamps LED (protected type)</td>
<td>Schneider / Vaishno / Binay</td>
</tr>
<tr>
<td>17.</td>
<td>Resign cast CTs</td>
<td>AE / Kappa</td>
</tr>
<tr>
<td>19.</td>
<td>LAN (RJ45) Sockets</td>
<td>Molex / Nordex / Avayya / Legrand.</td>
</tr>
</tbody>
</table>

**NOTE:** The contractor shall use only above mentioned material or equivalent make to be approved by the Consultant. All other materials shall confirm to the specifications laid down. The tenderer shall take this into account while tendering rates / prices. The Consultant / SBIIMS 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 SBIIMS / Consultant before Execution.
# LIST OF APPROVED MANUFACTURERS / NATURAL SOURCES OF MATERIALS TO BE USED IN THE INTERIOR WORKS SUBJECT TO THE APPROVAL OF SAMPLES BY SBIIMS / ARCHITECT.

(ALL THE MATERIALS USED HAVE TO CONFIRM TO GREEN INTERIOR NORMS OF IGBC)

<table>
<thead>
<tr>
<th>S. No.</th>
<th>MATERIAL NAME</th>
<th>BRAND / MANUFACTURER</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>FLEXI PLYWOOD – BWP (Boiling Water Resistant, Termite Resistant &amp; Borer Resistant) – CONFIRMING TO IS: 303.</td>
<td>GOLDEN PLY / SARDAPLY / ARCHID / GREEN PLY / CENTURY / UNIPLY / RAMA PLY / MAYUR / NATIONAL PLYWOOD.</td>
</tr>
<tr>
<td>5.</td>
<td>LAMINATE – CONFIRMING TO IS : 2046-1995.</td>
<td>GREENLAM / MERINO / CENTURY / ARCHID / VIR LAMINATE / AICA / FORMICA</td>
</tr>
<tr>
<td>6.</td>
<td>GLASS.</td>
<td>SAINT GOBAIN / GUJRAT GUARDIAN / TRIVENI / MODIFLOAT / ASAHI FLOAT.</td>
</tr>
<tr>
<td>7.</td>
<td>HARDWARE.</td>
<td>EFFICIENT GADGETS / EARL BEHARI (EBCO) / HARDWIN / ETALICA.</td>
</tr>
<tr>
<td>8.</td>
<td>BEECH WOOD.</td>
<td>AS APPROVED BY SBIIMS / ARCHITECT.</td>
</tr>
<tr>
<td>9.</td>
<td>SCREWS.</td>
<td>GKW NETTLEFOLD OR AS APPROVED.</td>
</tr>
<tr>
<td>10.</td>
<td>ADHESIVES.</td>
<td>MOVICOL / FEVICOL SH / ARALDITE.</td>
</tr>
<tr>
<td>11.</td>
<td>PAINT.</td>
<td>ASIAN / NIPSON / BERGER / KANSAI NEROLAC.</td>
</tr>
<tr>
<td>12.</td>
<td>FLOOR SPRING / DOOR CLOSER.</td>
<td>DOORSET / STERLING / DORMA / OZONE.</td>
</tr>
<tr>
<td>13.</td>
<td>LOCKS.</td>
<td>DOORSET / GODREJ.</td>
</tr>
<tr>
<td>14.</td>
<td>GI SUPPORT SYSTEM FOR PLAIN FALSE CEILING.</td>
<td>GYPSTEEL ULTRA / US BORAL.</td>
</tr>
<tr>
<td>15.</td>
<td>GI DRY WALL PARTITION SYSTEM.</td>
<td>GYPSTEEL / US BORAL / FRAME WORK / RONDO / BMS.</td>
</tr>
<tr>
<td>16.</td>
<td>GYPSUM / PLASTER BOARDS.</td>
<td>GYPBOARD / LAGYP.</td>
</tr>
<tr>
<td>17.</td>
<td>GI SUPPORT SYSTEM FOR GRID CEILING.</td>
<td>ARMSTRONG / GYPSTEEL ULTRA / US BORAL.</td>
</tr>
<tr>
<td>18.</td>
<td>CEILING TILES.</td>
<td>ARMSTRONG / GYPROCK / US BORAL.</td>
</tr>
<tr>
<td>19.</td>
<td>ACRYLIC SOLID SURFACE.</td>
<td>LG Hausys, HI - MACS / DUPONT - MONTELLI / MERINO – HANEX / LOTTE - STARON.</td>
</tr>
<tr>
<td>20.</td>
<td>TEXTURED PAINT.</td>
<td>TERRACO / SPECTRUM.</td>
</tr>
<tr>
<td>21.</td>
<td>VINYL FLOORING.</td>
<td>LG / WINNER.</td>
</tr>
<tr>
<td>22.</td>
<td>WRITING BOARD.</td>
<td>WHITE MARK OR APPROVED.</td>
</tr>
<tr>
<td>23.</td>
<td>VITRIFIED TILES.</td>
<td>JOHNSON / SIMPOLO / KAJARIA / RAK.</td>
</tr>
<tr>
<td>24.</td>
<td>SANITARY FAUCETS AND FIXTURES.</td>
<td>JAGUAR / HINDWARE / KOHLER.</td>
</tr>
<tr>
<td>25.</td>
<td>ALUMINIUM COMPOSITE PANELS.</td>
<td>ALSTRONG / EUROBOND / ALUDECOR.</td>
</tr>
<tr>
<td>26.</td>
<td>UPVC WINDOWS</td>
<td>NCL / LG / FINESTA.</td>
</tr>
<tr>
<td>27.</td>
<td>CEMENT FIBER / CALCIUM SILICATE / REINFORCED MAGNESIUM SILICATE BOARD.</td>
<td>VISAKA / TRILITE / SHERA / BISON.</td>
</tr>
<tr>
<td>28.</td>
<td>GROUTS &amp; EPOXY</td>
<td>LATECRETE EPOXY, BOSTIK EPOXY</td>
</tr>
</tbody>
</table>

**NOTE:** The Contractor shall use only above mentioned material. All other materials shall conform 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.
# Details of Shades of Materials to be Used in the Proposed Interior Work

## 1mm Gloss Laminate: BLUE COLOR

<table>
<thead>
<tr>
<th>Brand. / Manufacturer</th>
<th>Product Code</th>
<th>Product Shade</th>
</tr>
</thead>
<tbody>
<tr>
<td>GREENLAM.</td>
<td>291 – HDG.</td>
<td>ELECTRIC BLUE.</td>
</tr>
<tr>
<td>MERINO.</td>
<td>21122 – HGL.</td>
<td>KINGFISHER BLUE.</td>
</tr>
<tr>
<td>VIR.</td>
<td>1031 – SG.</td>
<td>CARBON BLUE.</td>
</tr>
<tr>
<td>CENTURY.</td>
<td>245 – LU.</td>
<td>BLUE.</td>
</tr>
<tr>
<td>BRAVIA.</td>
<td>452 – HG</td>
<td>ROYAL BLUE.</td>
</tr>
<tr>
<td>ARCHID.</td>
<td>11025 – HG.</td>
<td>ELECTRIC BLUE.</td>
</tr>
<tr>
<td>FORMICA.</td>
<td>1568 – DGL.</td>
<td>ELECTRIC BLUE.</td>
</tr>
</tbody>
</table>

## 1mm Gloss Laminate: WHITE COLOR

<table>
<thead>
<tr>
<th>Brand. / Manufacturer</th>
<th>Product Code</th>
<th>Product Shade</th>
</tr>
</thead>
<tbody>
<tr>
<td>GREENLAM.</td>
<td>108 – HDG.</td>
<td>ABSOLUTE WHITE.</td>
</tr>
<tr>
<td>MERINO.</td>
<td>21081 – HGL.</td>
<td>WHITE LILY.</td>
</tr>
<tr>
<td>VIR.</td>
<td>1001 – SG.</td>
<td>WHITE</td>
</tr>
<tr>
<td>CENTURY.</td>
<td>101 – LU.</td>
<td>WHITE</td>
</tr>
<tr>
<td>BRAVIA.</td>
<td>401 HG</td>
<td>WHITE</td>
</tr>
<tr>
<td>ARCHID.</td>
<td>11023 – HG.</td>
<td>WHITE</td>
</tr>
<tr>
<td>FORMICA.</td>
<td>1324 – DGL.</td>
<td>SUPPER WHITE.</td>
</tr>
</tbody>
</table>

## 1mm Gloss – Textured Laminate: WHITE COLOR

<table>
<thead>
<tr>
<th>Brand. / Manufacturer</th>
<th>Product Code</th>
<th>Product Shade</th>
</tr>
</thead>
<tbody>
<tr>
<td>GREENLAM.</td>
<td>108 – HDG + RFF.</td>
<td>ABSOLUTE WHITE.</td>
</tr>
<tr>
<td>MERINO.</td>
<td>21081 – DZL.</td>
<td>WHITE LILY.</td>
</tr>
<tr>
<td>VIR.</td>
<td>4001 – SG + NT.</td>
<td>WHITE</td>
</tr>
<tr>
<td>CENTURY.</td>
<td>101 – LU + WK.</td>
<td>WHITE</td>
</tr>
<tr>
<td>BRAVIA.</td>
<td>401 – HG + AW.</td>
<td>WHITE</td>
</tr>
<tr>
<td>ARCHID.</td>
<td>1023 – HG + WV.</td>
<td>WHITE</td>
</tr>
<tr>
<td>FORMICA.</td>
<td>1324 – DGL + ATO.</td>
<td>SUPPER WHITE.</td>
</tr>
</tbody>
</table>

## 6mm Acrylic Solid Surface:

<table>
<thead>
<tr>
<th>Brand. / Manufacturer</th>
<th>Product Code</th>
<th>Product Shade</th>
</tr>
</thead>
<tbody>
<tr>
<td>LG Hausys, HI. - MACS.</td>
<td>P001</td>
<td>PERNIA WHITE.</td>
</tr>
<tr>
<td>MERINO – HANEX.</td>
<td>P004</td>
<td>SOLARIS.</td>
</tr>
<tr>
<td>DUPONT – MONTELLI.</td>
<td>M1518</td>
<td>GLITTERING WHITE.</td>
</tr>
<tr>
<td>GREENPLY – AVONITE.</td>
<td>8206</td>
<td>ALPINE SHIMMER.</td>
</tr>
<tr>
<td>LOTTE – STARON.</td>
<td>EG501</td>
<td>GLARING WHITE.</td>
</tr>
</tbody>
</table>

Signature of the Contractor
BOQ FOR PROPOSED INTERIOR INCLUDING ELECTRICAL WORKS AT VANASTHALIPURAM COMPLEX BRANCH AT VANASTHALIPURAM, HYDERABAD.

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Item / Particulars</th>
<th>Quantity</th>
<th>Unit</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>I.</td>
<td>INTERIOR WORKS:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td>FIXED FURNITURE:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.1</td>
<td>FULL HEIGHT PARTITIONS:</td>
<td>75</td>
<td>Sq.M.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Providing and fixing metal stud dry wall partition with following specifications: The Partition will be fully opaque OR partly opaque and partly glazed as per specific site conditions and drawings.

(a) Supporting system comprising of 51mm / 50mm x 35mm / 34mm x 0.5mm metal studs at 600mm c/c and 51mm / 50mm x 32mm x 0.5mm metal tracks at floor, middle, door and ceiling level with joints staggered to avoid through joints. The vertical members should touch the ceiling with horizontal ceiling channel at slab / beam bottom. The rate should also include necessary strengthening with studs / tracks or channels at doors and other openings.

(b) 12mm MDF Exterior Grade Board fixed on both sides with 25mm dry wall screws for the entire height of the partition.

(c) Partition from floor level upto 2350mm level to have 100mm Aluminum Skirting, two part skirting with retainer along with curved top edge (blue color) at bottom + from 100mm to 300mm level to have 1mm Glossy Laminate (blue color) + from 300mm level to 950mm level to have 1mm Glossy Laminate (white color) + from 950mm level to 1100mm level 1mm Glossy Laminate (blue color) + from 1100mm level to 2250mm level to have 1mm Textured Glossy Laminate (white color) OR 8mm clear float glass as detailed in (d) below + from 2250mm level to 2350mm level 1mm Glossy Laminate (blue color) on both sides as shown in drawing.

(d) Partition to have 8mm clear float glass instead of 1mm Textured Glossy Laminate fixed with 85mm x 18mm around MDF Exterior Grade jamb and 12mm x 12mm MDF Exterior Grade button beading on both sides of the glass, to a neat finish as per drawings and directions etc., complete.

(e) Partition above 2350mm level to have LAMINATION FINISH

(f) All exposed surfaces of MDF Exterior Grade members to have 1 MM thick laminate.

(g) All sections used should adhere to the manufacturers guidelines and the contractor has to submit certificate from the manufacturer on usage of their specified sections.
1.2  **HALF HEIGHT PARTITIONS:**

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Same as item 1.1 above, but for height of 1100mm from finished floor level, to a neat finish as per drawings and directions etc., complete and the following:</td>
<td>50 Sq.M.</td>
</tr>
<tr>
<td>(a) 15 X 75 mm thk Beech wood Beading with Melamine polish on all the Exposed Edges as per drawings and directions etc., complete.</td>
<td></td>
</tr>
<tr>
<td>(b) Partition from floor level upto 1100mm level on both sides to have 100mm Aluminium Skirting, two part skirting with retainer along with curved top edge (blue color) at bottom + from 100mm to 300mm level to have 1mm Glossy Laminate (blue color) + from 300mm level to 950mm level to have 1mm Glossy Laminate (white color) + from 950mm level to 1100mm level 1mm Glossy Laminate (blue color) on both sides as shown in drawing.</td>
<td></td>
</tr>
<tr>
<td>(c) The cost to include all materials and hardware required etc., as per site conditions. The rate is for a finished item of work etc., complete as directed.</td>
<td></td>
</tr>
</tbody>
</table>

1.3  **DOORS IN PARTITIONS:**

1.3.1  **35MM DOORS IN PARTITIONS:**

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Providing and fixing 35mm thick solid core flush shutter with 85mm x 18mm MDF Exterior Grade jamb around and 12mm x 12mm MDF Exterior Grade button beading fixed 1mm Laminate as specified on both sides and 8mm clear float glass with 3M privacy film fixed as per drawing with 50mm x 18mm MDF Exterior Grade jamb around the glass opening and 12mm x 12mm MDF Exterior Grade beading for fixing of glass on both sides.</td>
<td>14 Sq.M.</td>
</tr>
<tr>
<td>The rate to include necessary hardware viz., door stopper, door buffer, pair of &quot; H &quot; type handles, Mortise Dead Lock and Euro Profile Cylinder - Key and Knob 70mm SS, 4 Nos. SS 2 ball-bearing hinges - (127mm x 76mm x 2.5mm), door closer (all of approved make and quality), ZERO VOC or NO VOC duco paint finish for all exposed surfaces of MDF Exterior Grade members, etc., complete as directed.</td>
<td></td>
</tr>
</tbody>
</table>

1.4  **FIXED GLASS WORKS: (12MM TOUGHENED GLASS WORK WITH MAIN ENTRANCE DOOR AND GLASS PARTITION DOORS)**

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Providing, making and fixing in position Fixed 12mm / 10mm toughened glass as fixed glass from Floor to available Ceiling level along with Main Entrance Door and for Partitions. The glass is to be fixed with patch fittings and all the edges of the glass have to be polished for a smooth finish. The work includes cost of all materials, approved hardware, making necessary template before toughening of glass and fixing the same as per site conditions to a neat finished work as per drawings and directions etc., complete.</td>
<td>55 Sq.M.</td>
</tr>
</tbody>
</table>
### 1.5 12MM TOUGHENED GLASS MAIN ENTRANCE DOOR AND PARTITION DOORS:

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Providing, making and fixing in position Fixed 12mm / 10mm toughened glass openable shutters work as per specifications given below and for the openings mentioned. Main Entrance Glass Work comprising of Door opening of approximate size 1800mm x 2250mm - 2400mm in two pieces, and Partition Doors of approximate size 900 - 1000mm x 2250mm - 2400mm. The entire work to be done as per site conditions with following specifications etc., complete as directed. (a) Entrance door - Providing, fixing in position glazed entrance Double door and Single door with patch fitting or approved make (Double Door approx. Size: 1800mm - 1500mm x 2400mm - 2250mm and Single Door approx. Size: 900mm - 1200mm x 2400mm - 2250mm) using 12mm / 10mm toughened glass edge polished. The Door to consist of Heavy Duty Floor spring, Upper Patch, Bottom Patch, Lock Keeper Plate, Euro Profile Cylinder (EPC), &quot;H&quot; Type Handle 32 x 600mm, Corner Lock and the side fixed glass to have 2 Nos. Bottom Patch and 2 Nos. Upper Patch for each door to a neat finish etc., complete as per drawing. (b) The work includes cost of all materials, approved hardware, making necessary template before toughening of glass and fixing the same as per site conditions to a neat finished work as per drawings and directions etc., complete.</td>
<td>15</td>
<td>Sq.M.</td>
</tr>
</tbody>
</table>

### 1.6 WALL PANELLING:

#### 1.6.1 WALL PANELLING IN BANKING HALL:

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Same as item 1.1 above, but for Wall Panelling. The basic frame work to comprise all cladding specified only from one side to a neat job as per drawings and directions etc., complete. (a) Providing 18mm thick MDF Exterior Grade jamb for door and window openings of suitable depth as per site conditions. (b) All exposed surfaces of MDF Exterior Grade members to have Beach wood beading finished with melamine polish.</td>
<td>115</td>
<td>Sq.M.</td>
</tr>
</tbody>
</table>

#### 1.6.2 WALL PANELLING WITH SPECIAL HIGH GLOSS LAMINATE FOR E-LOBBY:

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Same as item 1.4 above to be cladded with 1mm High Gloss Laminate (Laminate Base Rate Rs - 600/- Sq.M.) from one side to a neat finish as per drawings and directions etc., complete.</td>
<td>40</td>
<td>Sq.M.</td>
</tr>
</tbody>
</table>

### 1.7 COLUMN PANELLING:

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Providing and fixing metal stud column panelling with following specifications:</td>
<td>15</td>
<td>Sq.M.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td><strong>(a)</strong></td>
<td>Supporting system comprising of 51mm / 50mm x 35mm / 34mm x 0.5mm metal studs at 600mm c/c and 51mm / 50mm x 32mm x 0.5mm metal tracks at floor, middle, lintel level and ceiling level with joints staggered to avoid through joints. The vertical members should touch the ceiling with horizontal ceiling channel at slab / beam bottom. The rate should also include necessary strengthening with studs / tracks or channels at doors and other openings.</td>
<td></td>
</tr>
<tr>
<td><strong>(b)</strong></td>
<td>12mm MDF Exterior Grade Board fixed on all four sides with 25mm dry wall screws for the entire height of the partition.</td>
<td></td>
</tr>
<tr>
<td><strong>(c)</strong></td>
<td>Column Paneling from floor level upto 2350mm level to have 100mm Aluminum Skirting along with curved top edge (blue color) at bottom + from 100mm to 2350mm level to have 1mm Glossy Laminate (Beech Wood color) on two longer sides of the column as shown in drawing.</td>
<td></td>
</tr>
<tr>
<td><strong>(d)</strong></td>
<td>Column Paneling to have 8mm toughened glass with 1mm glossy Laminate in blue color fixed with 12mm x 12mm MDF Exterior Grade button beading on two shorter sides of the column, to a neat finish as per drawings and directions etc., complete.</td>
<td></td>
</tr>
<tr>
<td><strong>(e)</strong></td>
<td>Column Paneling above 2350mm level to have NO VOC or LOW VOC plastic emulsion paint finish on all four sides as shown in drawing.</td>
<td></td>
</tr>
<tr>
<td><strong>(f)</strong></td>
<td>All exposed surfaces of MDF Exterior Grade members to have Beach wood beading finished with melamine polish.</td>
<td></td>
</tr>
<tr>
<td><strong>(g)</strong></td>
<td>All sections used should adhere to the manufacturers guidelines and the contractor has to submit certificate from the manufacturer on usage of their specified sections.</td>
<td></td>
</tr>
</tbody>
</table>

### 1.8 FALSE CEILING:

Providing, making and fixing in position the following types of different false ceilings with different materials as specified below for a finished item of work as per drawings and directions etc., complete.

#### 1.8.1 GRID FALSE CEILING:

Providing & Fixing of Mineral Fiber Acoustical Suspended Ceiling System with 15mm Tiles and Exposed GRID. The tiles should have Humidity Resistance (RH) of 90% - 99%, NRC 0.5, Light Reflectance ≥87%, Thermal Conductivity $k = 0.052 - 0.057 \text{ w/m K}$, Colour White, Fire Performance UK Class 0 / Class 1 (BS 476 pt - 6 &7) in module size of 600 x 600 x 16mm, suitable for Green Building application, with Recycled content of 30% - 45%.

The tile shall be laid on Microline / Silhouette profile grid system with 15mm - 16mm white flanges incorporating a 6mm central reveal in white/black colour and with a web height of 38mm and a load carrying capacity of minimum 8 Kgs/M2 & minimum pull out strength of 100 Kgs. Microline / Silhouette, Main Runners & Cross Tees to have mitred ends.
& “birdsmouth” notches to provide mitred cruciform junctions. The T Sections have a Galvanizing of 90 grams per M2 and need to be installed with Suspension system as per manufacturers details.

The Installation to comprise main runner spaced at 1200mm centre securely fixed to the structural soffit using US Boral / Gyproc / Armstrong suspension system (specifications below) at 1200mm maximum centre. The First/Last suspension system at the end of each main runner should not be greater than 450mm from the adjacent wall.

Flush fitting 1200mm long cross tees to be interlocked between main runners at 600mm centre to form 1200 x 600 mm module. Cut cross tees longer than 600mm require independent support. 600 x 600mm module to be formed by fitting 600mm long flush fitting cross tees centrally between the 1200 mm cross tees. Perimeter trim to be Wall angles of size 3000mm x 19mm x 19mm, secured to walls at 450 mm maximum centres.

### 1.8.2 PLAIN FALSE CEILING:

<table>
<thead>
<tr>
<th>Plain False Ceiling</th>
<th>168 Sq.M.</th>
</tr>
</thead>
</table>

Providing and fixing Concealed Grid suspended ceiling system of 12.5mm Gypsum Boards / Standard Plaster Boards fixed to ceiling Frame Work as per manufacturers instructions and details for a concealed grid key lock suspended ceiling system consisting of following:

(a) 27 x 37 x 1.6mm Soffit Clip, 5mm suspension rod / 25 x 10 x 0.5mm Ceiling Angle, adjustable spring loaded suspension clip / 2.64mm dia Connecting Clip, 20 x 28 x 30 x 0.5mm Perimeter Channel, Top Cross Rail of 3000mm long of 0.55BMT Furring Channel / 15 x 45 x 15 x 0.9mm Intermediate Channel and 4000mm long made of 0.5mm BMT the Top Cross Rail / 80 x 26 x 0.5mm Ceiling Section to be suspended from ceiling at every 1200mm and Furring / Intermediate Channel to be fixed to Top Cross Rail / Ceiling Section at every 600mm to make a grid of 1200 x 600mm.

(b) All sections used should adhere to the manufacturers guidelines and the contractor has to submit certificate from the manufacturer on usage of their specified sections.

(c) Further the rates to include cutouts for lighting fixtures / AC grilles / Fire Alarm Detectors etc., along with necessary strengthening and supports for fixing of these. The board joints are to be flush finished with jointing compound and paper tape etc., complete as directed.

### 1.90 STORAGE UNITS:

<table>
<thead>
<tr>
<th>Storage Units</th>
<th>25 Sq.M.</th>
</tr>
</thead>
</table>

| Storage Units: (with 6MM ACRYLIC SOLD SURFACE TOP) | 25 Sq.M. |
Providing, making and placing in position Storage Units with horizontal partitions of 1200mm high abutting wall and 750mm high as back credenza or abutting partition made in 18mm MDF Exterior Grade Board to all members except table top and 25mm block board for table top. The Table top of 25mm Block Board to have extra thickening with 18mm x 50mm MDF Exterior Grade Board and front vertical facia to have 12mm x 43mm MDF Exterior Grade Board lipping cladded with 6mm thick acrylic solid surface for the entire table top and the front facia and remaining all exposed faces to have 1mm Glossy Laminate as specified. All other exposed faces of the unit to have 1mm Glossy Laminate as specified and all unexposed faces to have 0.8mm Laminate finish and all necessary hardware viz., 'W' or wing hinges, locks, handles, tower bolts etc., and MDF Exterior Grade beading 36mm x 36mm at top and MDF Exterior Grade edge lipping 18mm x 12mm etc., as per drawings and directions etc., complete.

### 2.0 LOOSE FURNITURE:

#### 2.1 BRANCH HEAD TABLE:

<table>
<thead>
<tr>
<th>1. Providing, making and placing in position Executive Table and Side Table of approximate size 2100mm x 900mm x 750mm + 1050mm x 450mm x 750mm with following specifications.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Main Table and side Table top and to be made in 25mm block board with 6mm thick acrylic solid surface. The front side of the table to have a &quot;C&quot; made with 2 x 18mm thick MDF Exterior Grade Board cladded with 6mm acrylic solid surface on the front and the verticals towards the modesty panel. The modesty panel to have 18mm MDF Exterior Grade Board cladded with 1mm glossy Laminate (blue color) + 8mm clear toughened glass as specified.</td>
</tr>
<tr>
<td>(b) The &quot;L&quot; shaped table top of 25mm Block Board to have extra thickening with 18mm x 50mm MDF Exterior Grade Board and front vertical facia to have 12mm x 43mm MDF Exterior Grade Board lipping cladded with 6mm thick acrylic solid surface for the entire table top and the front facia and remaining all exposed faces to have 1mm Glossy Laminate as specified.</td>
</tr>
<tr>
<td>(c) All other members to be with 18mm MDF Exterior Grade Board and all exposed faces of the table to have 6mm acrylic solid surface OR 1mm Glossy Laminate as specified above to be used.</td>
</tr>
<tr>
<td>(d) All the edges of 18mm MDF Exterior Grade Board to have 18mm x 12mm MDF Exterior Grade edge lipping.</td>
</tr>
<tr>
<td>(e) One readymade CPU mobile pedestal.</td>
</tr>
<tr>
<td>(f) One Molded Key Board Tray with channels etc.,</td>
</tr>
</tbody>
</table>
(g) One Three Drawer Unit made with 18mm MDF Exterior Grade Board and 12mm MDF Exterior Grade Board. The unit to have one vertical filing drawer at bottom and two equal drawers on top. The rate to include all necessary hardware viz., telescopic drawer channels, handles, locks, etc., and 18mm x 12mm MDF Exterior Grade edge lipping etc.,

(h) One Side Table with shutter unit of 400mm made with 18mm MDF Exterior Grade Board and 19mm plywood with necessary hardware viz., ' W ' hinges, handles, locks, tower bolts, etc., and 18mm x 12mm MDF Exterior Grade edge lipping etc.,

(i) All the unexposed faces to have 0.8mm Laminate finish.

(j) Ready Made Modular Foot Rest - 400mm x 350mm x 65mm.

The cost to include all materials, labour etc., for a finished item of work as per drawings and directions etc., complete.

### 2.2 OTHER OFFICER's EXECUTIVE TABLES:

#### 2.2.1 OFFICER's AND SIDE EXECUTIVE TABLES:

5 Each.

Providing, making and placing in position Executive Table and Side Table of approximate size 1650mm - 1550mm x 750mm x 750mm + 1050mm x 450mm x 750mm with following specifications.

(a) Main Table and side Table top and to be made in 25mm block board with 6mm thick acrylic solid surface. The front side of the table to have a inverted " U " made with 2 x 18mm thick MDF Exterior Grade Board cladded with 6mm acrylic solid surface on the front and the verticals towards the modesty panel. The modesty panel to have 18mm MDF Exterior Grade Board cladded with 1mm Glossy Laminate and 1mm Laminate as specified.

(b) The " L " shaped table top of 25mm Block Board to have extra thickening with 18mm x 50mm MDF Exterior Grade Board and front vertical facia to have 12mm x 43mm MDF Exterior Grade Board lipping cladded with 6mm thick acrylic solid surface for the entire table top and the front facia and remaining all exposed faces to have 1mm Glossy Laminate as specified.

(c) All other members to be with 18mm MDF Exterior Grade Board and all exposed faces of the table to have 6mm acrylic solid surface OR 1mm Glossy Laminate as specified above to be used.

(d) All the edges of 18mm MDF Exterior Grade Board to have 18mm x 12mm MDF Exterior Grade edge lipping.

(e) One ready made CPU mobile pedestal.

(f) One Molded Key Board Tray with channels etc.,
<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>(g) One Three Drawer Unit made with 18mm MDF Exterior Grade Board and 12mm MDF Exterior Grade Board. The unit to have one vertical filing drawer at bottom and two equal drawers on top. The rate to include all necessary hardware viz., telescopic drawer channels, handles, locks, etc., and 18mm x 12mm MDF Exterior Grade edge lipping etc.,</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(h) One Side Table with shutter unit of 400mm made with 18mm MDF Exterior Grade Board with necessary hardware viz., 'W' hinges, handles, locks, tower bolts, etc., and 18mm x 12mm MDF Exterior Grade edge lipping etc.,</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(i) All the unexposed faces to have 0.8mm Laminate finish.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(j) Ready Made Modular Foot Rest - 400mm x 350mm x 65mm. The cost to include all materials, labour etc., for a finished item of work as per drawings and directions etc., complete.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>2.3 GRAHAK MITRA / TECH MITRA TABLE:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>2.3.1 GRAHAK MITRA AND TECH MITRA TABLE:</strong></td>
<td>1 Each.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(a) Main Table Top of 25mm Block Board to have extra thickening with 18mm x 50mm MDF Exterior Grade Board and front vertical facia to have 12mm x 43mm MDF Exterior Grade Board lipping cladded with 6mm thick acrylic solid surface for the entire table top and the front facia and remaining all exposed faces to have 1mm Glossy Laminate as specified. The vertical supports of the table is to be made with two side boxing of 75mm x 800mm x 750mm made with 18mm MDF Exterior Grade Board and the front side boxing to 200mm x 450mm x 750mm on either sides and central boxing of 250mm x 600mm x 750mm, all made with 18mm MDF Exterior Grade Board cladded with 6mm acrylic solid surface on all the exposed sides and top.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(b) The front of the table to have a 600mm x 1050mm proud portion with provision for cove lighting at bottom and this central portion to be cladded with 6mm thick blue colored lacquered glass.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(c) All other members to be with 18mm MDF Exterior Grade Board and all exposed faces of the table to have 6mm acrylic solid surface and the drawer unit to have 1mm Glossy Laminate as specified to be used.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(d) All the edges of 18mm MDF Exterior Grade Board to have 18mm x 12mm MDF Exterior Grade edge lipping.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(e) 2 Nos. readymade CPU mobile pedestals.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(f) 2 Nos. Molded Key Board Trays with channels etc.,</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
(g) 2 Nos. Three Drawer Unit made with 18mm MDF Exterior Grade Board and 12mm MDF Exterior Grade Board. The unit to have one vertical filing drawer at bottom and two equal drawers on top. The rate to include all necessary hardware viz., telescopic drawer channels, handles, locks, etc., and 18mm x 12mm MDF Exterior Grade edge lipping etc.,

(i) All the unexposed faces to have 0.8mm Laminate finish.

(j) 2 Nos. Ready Made Modular Foot Rests - 400mm x 350mm x 65mm.

The cost to include all materials, labour etc., for a finished item of work as per drawings and directions etc., complete.

2.3.2 YONO TABLE:

Providing, making and placing in position Yono Table of approximate size 1500mm x 800mm - 900mm x 750mm with following specifications.

(a) Main Table Top of 25mm Block Board to have extra thickening with 18mm x 50mm MDF Exterior Grade Board and front vertical facia to have 12mm x 43mm MDF Exterior Grade Board lipping cladded with 6mm thick acrylic solid surface for the entire table top and the front facia and remaining all exposed faces to have 1mm Glossy Laminate as specified. The vertical supports of the table is to be made with two side boxing of 75mm x 800mm x 750mm made with 18mm MDF Exterior Grade Board and the front side boxing to 200mm x 450mm x 750mm on either sides and central boxing of 250mm x 600mm x 750mm, all made with 18mm MDF Exterior Grade Board cladded with 6mm acrylic solid surface on all the exposed sides and top.

(b) The front of the table to have a 600mm x 1050mm proud portion with provision for cove lighting at bottom and this central portion to be cladded with 6mm thick blue colored lacquered glass.

(c) All other members to be with 18mm MDF Exterior Grade Board and all exposed faces of the table to have 6mm acrylic solid surface and the drawer unit to have 1mm Glossy Laminate as specified to be used.

(d) All the edges of 18mm MDF Exterior Grade Board to have 18mm x 12mm MDF Exterior Grade edge lipping.

(e) One readymade CPU mobile pedestal.

(f) One Molded Key Board Tray with channels etc.,

(g) One Three Drawer Unit made with 18mm MDF Exterior Grade Board and 12mm MDF Exterior Grade Board. The unit to have one vertical filing drawer at bottom and two equal drawers on top. The rate to include all necessary hardware viz., telescopic drawer channels, handles, locks, etc., and 18mm x 12mm MDF Exterior Grade edge lipping etc.,

(i) All the unexposed faces to have 0.8mm Laminate finish.

(j) Ready Made Modular Foot Rest - 400mm x 350mm x
<table>
<thead>
<tr>
<th>65mm.</th>
</tr>
</thead>
<tbody>
<tr>
<td>The cost to include all materials, labour etc., for a finished</td>
</tr>
<tr>
<td>item of work as per drawings and directions etc., complete.</td>
</tr>
<tr>
<td>2.4 SINGLE WINDOW COUNTERS:</td>
</tr>
<tr>
<td>5 Each.</td>
</tr>
<tr>
<td>Providing, making and placing in position Single Window Counters</td>
</tr>
<tr>
<td>along with necessary partitions as per item 1.2 above (The</td>
</tr>
<tr>
<td>partitions will be measured and paid as per item 1.2 i.e., Half</td>
</tr>
<tr>
<td>Height Partitions) with following specifications and per dimensions</td>
</tr>
<tr>
<td>specified. The front side of the Single Window Counter to have</td>
</tr>
<tr>
<td>100mm Aluminium Skirting of bottomline make, expression series,</td>
</tr>
<tr>
<td>two part skirting with retainer along with curved top edge (blue</td>
</tr>
<tr>
<td>color) at bottom.</td>
</tr>
<tr>
<td>(a) The overall size of each Single Window Counter to be</td>
</tr>
<tr>
<td>1650mm - 1500mm x 900mm - 975mm x 750mm + 1050mm x 450mm x 750mm.</td>
</tr>
<tr>
<td>(b) Tabletop of main table and side table to have 25mm Block</td>
</tr>
<tr>
<td>Board to have extra thickening with 18mm x 50mm MDF Exterior Grade</td>
</tr>
<tr>
<td>Board and front vertical facia to have 12mm x 43mm MDF Exterior</td>
</tr>
<tr>
<td>Grade Board lipping cladded with 6mm thick acrylic solid surface</td>
</tr>
<tr>
<td>for the entire table top and the front facia and remaining all</td>
</tr>
<tr>
<td>exposed faces to have 1mm Glossy Laminate as specified. The</td>
</tr>
<tr>
<td>acrylic solid surface to continue in the front side with curvature</td>
</tr>
<tr>
<td>from the front table top to the modesty panel in front with cove</td>
</tr>
<tr>
<td>lighting provision.</td>
</tr>
<tr>
<td>(c) All other members to be with 18mm MDF Exterior Grade Board /</td>
</tr>
<tr>
<td>2 Nos. of 6mm Flexi Plywood in curvature (which should be</td>
</tr>
<tr>
<td>achieved with a frame work of 50mm x 50mm sal wood frame to be</td>
</tr>
<tr>
<td>fixed from the front modesty panel / apron and the bottom of this</td>
</tr>
<tr>
<td>niche to have provision of cove lighting with LED strips) and all</td>
</tr>
<tr>
<td>exposed faces of the table to have 6mm thick acrylic solid surface</td>
</tr>
<tr>
<td>as specified in the drawing to be used.</td>
</tr>
<tr>
<td>(d) All the edges of 18mm MDF Exterior Grade Board to</td>
</tr>
<tr>
<td>have 18mm x 12mm MDF Exterior Grade edge lipping.</td>
</tr>
<tr>
<td>(e) One readymade CPU mobile pedestal.</td>
</tr>
<tr>
<td>(f) One Molded Key Board Tray with channels etc.,</td>
</tr>
<tr>
<td>(g) One Three Drawer Unit made with 18mm MDF Exterior Grade Board</td>
</tr>
<tr>
<td>and 12mm MDF Exterior Grade Board. The unit to have one vertical</td>
</tr>
<tr>
<td>filing drawer at bottom and two equal drawers on top. The rate</td>
</tr>
<tr>
<td>to include all necessary hardware viz., telescopic drawer channels,</td>
</tr>
<tr>
<td>handles, locks, etc., and 18mm x 12mm MDF Exterior Grade edge</td>
</tr>
<tr>
<td>lipping etc.,</td>
</tr>
<tr>
<td>(h) One Side Table with shutters made with 25mm block board top</td>
</tr>
<tr>
<td>and 18mm MDF Exterior Grade Board for all other members with</td>
</tr>
<tr>
<td>necessary hardware viz., ' W ' hinges, SS handles, locks, SS tower</td>
</tr>
<tr>
<td>bolts, etc., and 18mm x 12mm beech wood edge lipping etc.,</td>
</tr>
<tr>
<td>(i) All the unexposed faces to have 0.8mm Laminate finish.</td>
</tr>
<tr>
<td>(j) Ready Made Modular Foot Rest - 400mm x 350mm x 65mm.</td>
</tr>
</tbody>
</table>
The cost to include the "L" shaped Single Window Counter and to include all materials, hardware, labour for a neat and finish job as per drawings and directions etc., complete.

<table>
<thead>
<tr>
<th>2.5</th>
<th><strong>12MM TOUGHENED GLASS DIViders FOR SInGLe WInDow COUNters:</strong></th>
<th>5</th>
<th>Each.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Providing, making and fixing in position 12mm thick toughened clear float glass in the front side of half height partitions of Single Window Counters of approximate size 1150mm x 400mm - 100mm in tapered shape. All the edges of the glass to be polished for a smooth finish and the glass is to be fixed with &quot;D&quot; brackets. The cost to include all materials, labour, hardware etc., for a neat finished job as per drawings and directions etc., complete.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2.6</th>
<th><strong>12MM TOUGHENED GLASS ON TRANSACTION SIDE FOR SInGLe WInDow COUNters:</strong></th>
<th>5</th>
<th>Each.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Providing, making and fixing in position 12mm thick clear float glass in the front side of approximate size 1650mm x 450mm with a central cut out of 200mm x 175mm. All the edges of the glass to be polished for a smooth finish and the glass is to be fixed with &quot;D&quot; brackets. The cost to include all materials, labour, hardware etc., for a neat finished job as per drawings and directions etc., complete.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2.7</th>
<th><strong>WRITING DESK:</strong></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2.7.1</td>
<td><strong>FLOOR MOUNTED WRITING DESK:</strong></td>
<td>1</td>
<td>Each.</td>
</tr>
<tr>
<td></td>
<td>Providing, making and placing in position Wall Mounted Circular Writing Desk 900mm dia x 750mm with following specifications.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(a) A Octogonal support boxing is to be made 450mm at floor level tapering upwards to 600mm at 900mm from floor made in 12mm MDF Exterior Grade Board cladded with 1mm Glossy Laminate. A top to be provided at 900mm level from floor to be made with 25mm Block Board cladded with 1mm Glossy Laminate which will have verticals made with 12mm MDF Exterior Grade Board cladded with 1mm Glossy Laminate upto the table top level of 1050mm from floor level.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(b) The Writing Desk Circular Top to have 12mm dia toughened clear float glass with 25mm champered bull nosing alround.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(c) All members to be with 12mm / 18mm MDF Exterior Grade Board and all exposed faces to have 1mm Glossy Laminate as specified.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(d) All the edges of 12mm / 18mm MDF Exterior Grade Board to have 18mm x 12mm MDF Exterior Grade edge lipping.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(e) All the unexposed faces to have 0.8mm Laminate finish.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>The cost to include all materials, labour etc., for a finished item of work as per drawings and directions etc., complete.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<p>| 2.7.2 | <strong>WALL MOUNTED WRITING DESK:</strong> |  1 | Each. |</p>
<table>
<thead>
<tr>
<th><strong>Providing, making and placing in position Wall Mounted Writing Desk 750mm x 300mm x 450mm with following specifications.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) The entire unit is to be made with 18mm MDF Exterior Grade Board cladded with 1mm Glossy Laminate as per drawing.</td>
</tr>
<tr>
<td>(b) The Writing Desk to have 12mm thick toughened clear float glass with 25mm champered bull nosing around at top fixed with SS supports.</td>
</tr>
<tr>
<td>(c) All members to be with 18mm MDF Exterior Grade Board and all exposed faces to have 1mm Glossy Laminate as specified.</td>
</tr>
<tr>
<td>(d) All the edges of 12mm / 18mm MDF Exterior Grade Board to have 18mm x 12mm MDF Exterior Grade edge lipping.</td>
</tr>
<tr>
<td>(e) All the unexposed faces to have 0.8mm Laminate finish.</td>
</tr>
<tr>
<td>The cost to include all materials, labour etc., for a finished item of work as per drawings and directions etc., complete.</td>
</tr>
</tbody>
</table>

### 3.0 OTHER WORKS:

#### 3.1 PLASTIC EMULSION PAINTING:

| Cleaning the surface of the wall & then applying one coat of altex putty followed by one coat of primer & then applying second coat of putty to give smooth finish exactly in line and level & then finally applying a minimum of two coats of NO VOC or LOW VOC Plastic Emulsion Paint of approved shade to give a neat finish including cost of all materials necessary scaffolding etc., complete for walls & ceiling. |
| 750 Sq.M. |

#### 3.2 ROLLER BLINDS:

| Providing and fixing in position of Roller Blinds of approved Fabric (Fabric Cost - RS. 1,000/- per Meter) of Hunter Douglas / Mac / Vista make or approved equivalent of approved shade etc., as directed. |
| 38 Sq.M. |

#### 3.3 DESIGNER FILM WORK:

| Providing and fixing in position Designer Film with ellipse design on all glasses as per drawings and heights mentioned. The Designer Film is of Harmony / 3M or equivalent approved make. The rate is for a finished item of work etc., complete as directed. |
| 50 Sq.M. |

#### 3.4 ACP CLADDING:

| Supplying and fixing aluminum composite cladding with skin material 0.5 mm thick aluminum sheet cover material natural polyethylene aluminum cladding panel fixed with extruded aluminum basis frame (50x25x1.5mm) angle cleats, weather sealants, rivets, GI brackets all as approved, using suitable bolts on structural steel work including necessary accessories complete in all respects including all labour charges etc., complete for finished item of work but excluding cost of structural steel fabrication, scaffolding charges, if any, ACP Cladding - 4 mm thick. |
| 40 Sq.M. |
### 3.5 ACRYLIC LOGO:

<p>| | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td><strong>Providing SBI Logo 1500mm diameter made with 6mm Inky Blue color acrylic sheet with provision for back lighting as per drawings and directions etc., complete.</strong></td>
<td>1 Each.</td>
</tr>
</tbody>
</table>

### 3.6 ROLLING SHUTTER BOX

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<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td><strong>Supplying and fixing 50mmx50mm TW frame and closing with 18mm thk MDF Board (Exterior Grade ) on all sides as per the design and finished on all internals and exposed areas of bank with 3 mm thk ACP with netural sillica as per the design and directions of the architects. The rolling shutter box shall be provided with trap door in 18mm thk MDF board (Exterior Grade ) with necessary locks ,handles as directed .</strong></td>
<td>10 Sq.M.</td>
</tr>
</tbody>
</table>

The rate shall be inclusive of all the necessary material,required hardware, labour, transportation, necessary for the complete execution of the item.

### 3.7 VITRIFIED TILE FLOORING IN BRANCH AND ELOBBY

#### 3.7.1 Providing and laying vitrified floor tiles 800 MM X 800 MM (10/12 thickness to be specified by the manufacturer) Double Charged ,with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including Skirting if any required during laying 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. **BASIC RATE OF THE TILE SHALL BE RS 850 SQMTS**

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<table>
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<tbody>
<tr>
<td><strong>385 SQ.M</strong></td>
<td></td>
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</tbody>
</table>

#### 3.7.2 Extra for 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. 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.

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<tbody>
<tr>
<td><strong>385 SQ.M</strong></td>
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</tbody>
</table>

### 3.8 UPVC WINDOWS
Providing and 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. MAKES : NCL LG,FINESTA

### 3.9 MS WINDOW GRILLS

Providing, Fabricating, assembling, hoisting/erecting and fixing in position MS Window grills in 10mm MS Square bars at 230 mm C/C horizontally and vertically and 16mmX3mm Thk MS Flats frame around including cutting, welding, riveted, bolted and fixing the the members as per the Directions. The MS Square bars and Ms flats shall be powder coated with suitable shade and colour as directed. The rate shall be inclusive of all the necessary material, required hardware, labour, transportation, Grinding, finishing edges etc. scaffolding necessary for the complete execution of the item.

### 3.10 GRANITE JAMBS FOR WINDOWS

Providing & Fixing in position 19mm thick machine cut, Telephone Black Mirror polished Granite as per the approved sample for window cills, jambs or any other specified etc. as per the drawing laid to the required level & line including cutting of stone to the required size & shape, edge polishing / chamfered edges, surface preparation including cement backing with 1:1 cement grout, filling & finishing the joints with cement & approved colour pigments, cutting, mirror polishing, curing, cleaning etc complete as per the instructions of the Architect.
3.11 TEMPORARY FURNITURE

Removing existing furniture and re-fixing in new location with all electrical & lan Provision for temporary purpose.

The rate shall be inclusive of all the necessary material, required hardware, labour, transportation, necessary for the complete execution of the item.

3.12 SITE CLEANING

Cleaning of the Site after completion of all the works. The rate shall be inclusive of all the necessary material, required hardware, labour, necessary for the complete execution of the item.

ELECTRICAL WORKS

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Design, Fabrication, Testing and Commissioning of floor mounted Main Panel with as per given specification an following switchgears. The panel will be manufactured/ Fabricated in accordance with IS specifications using good quality 14/16SWG CRCA sheets, dust and vermine proof Aluminum busbar of suitable size rated to the I/C switch gear heat shrinkable colour code sleeves and busbar supports and assembly.</td>
<td>1</td>
</tr>
<tr>
<td>INCOMER</td>
<td>a) 125A, FP, 25KA MCCB - 1No</td>
<td></td>
</tr>
<tr>
<td></td>
<td>b) Phase Indicating lamps LED type with fuse control - 1Set</td>
<td></td>
</tr>
<tr>
<td></td>
<td>c) On, off, trip, indication lamps - 2Set</td>
<td></td>
</tr>
<tr>
<td></td>
<td>d) 0 to 125A Ampere meter with selector switch with 3nos of 125A/5A, CL-1, 15VA CT's with tape wound - 1job</td>
<td></td>
</tr>
<tr>
<td></td>
<td>e) 0 to 500V voltage meter with selector switch - 1job</td>
<td></td>
</tr>
<tr>
<td></td>
<td>f) Load Manager - 1No</td>
<td></td>
</tr>
<tr>
<td>OUT GOINGS</td>
<td>a) 125A 4P, MANUAL CHANGEOVER - 1No</td>
<td></td>
</tr>
<tr>
<td></td>
<td>b) 125A, TPN, MCCB - 2 No's</td>
<td></td>
</tr>
<tr>
<td></td>
<td>c) 63A, TPN, MCB - 3 No's</td>
<td></td>
</tr>
<tr>
<td></td>
<td>d) 40A, TPN, MCB – 5 No's</td>
<td></td>
</tr>
<tr>
<td></td>
<td>e) 32A, TPN, MCB – 1 No</td>
<td></td>
</tr>
<tr>
<td></td>
<td>f) 40A, DP, MCB – 2 No's</td>
<td></td>
</tr>
<tr>
<td></td>
<td>g) 25A, DP, MCB – 8 No's</td>
<td></td>
</tr>
<tr>
<td></td>
<td>h) 63A, FP, MCCB with TVSS - 1 No</td>
<td></td>
</tr>
<tr>
<td></td>
<td>i) 63A,TP, MCB with 2Nos of 5KVAR AUTOMATIC CAPACITOR BANK - 1 No</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>BUS BAR 40mm X 6mm</td>
</tr>
</tbody>
</table>

2 Supply, erection, testing and commissioning of Double Door type MCB Distribution Boards, wall mounted (either surface / recess mounted). The erection rate shall include fixing of DB on a M.S frame, Providing 32mm dia. PVC pipe for cable
incoming and all other fixing accessories and necessary civil works as required.

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Quantity</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>4 Way, TPN MCB DB (Metal door) with 63A, 4P, MCB -1 No as incomer and 6-32 A (10KA) SP MCBs -12 Nos as outgoings. For Power DB &amp; UDB</td>
<td>2</td>
<td>no</td>
</tr>
<tr>
<td>b</td>
<td>4 Way, TPN MCB DB (Metal door) with 40A, 4P, ELCB -1 No as incomer and 6-32 A (10KA) SP MCBs -12 Nos as outgoings. For Lighting DB</td>
<td>1</td>
<td>no</td>
</tr>
<tr>
<td>c</td>
<td>4 Way, TPN MCB DB (Metal door) with 63A, 4P, MCB -1 No as incomer and 6-32 A (10KA) SP MCBs -12 Nos as outgoings. For AC-DB</td>
<td>1</td>
<td>no</td>
</tr>
<tr>
<td>d</td>
<td>Supply of 8 Way SPN DB with IP 43 Protection as per IS:13032 and suitable for 6Nos S.P outgoings and for 1 No 40A DP Incommer etc complete For UPS DB</td>
<td>1</td>
<td>no</td>
</tr>
<tr>
<td>e</td>
<td>4 Way, VTPN TPN MCB DB (Metal door) with 63A, TPN, MCB -1 No as incomer and 63 A (10KA) TP MCBs -4Nos as outgoings. UDB</td>
<td>0</td>
<td>no</td>
</tr>
</tbody>
</table>

3 CABLES

i) SUBMAINS

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Quantity</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>Supply and laying following size 1.1KV grade PVC insulated armoured aluminum/Cu. FRLS conductor under ground cable on the surface of wall, above false ceiling along with 2 runs of 12swg GI wire with all installation materials. The cable shall conform to IS 1554 Part- I scope also includes termination of the cable as required with suitable glands and lugs.</td>
<td>80</td>
<td>mtr</td>
</tr>
<tr>
<td>b</td>
<td>Providing end terminations for following size cables including supply of Compression type cable gland, lugs, insulation tape and identification tags complete with end termination and earthing of gland.</td>
<td>4</td>
<td>Nos</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Quantity</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>1) 3.5 core x 50sqmm Aluminum Cable for MAIN PANEL</td>
<td>80</td>
<td>mtr</td>
</tr>
<tr>
<td>b</td>
<td>2) 4 core x 10sqmm Copper Cable for ACDB/PDB &amp; AC O/D UNITS</td>
<td>150</td>
<td>mtr</td>
</tr>
<tr>
<td>c</td>
<td>3) 4 core x 6sqmm Copper Cable for LDB &amp; AC O/D UNITS</td>
<td>80</td>
<td>mtr</td>
</tr>
<tr>
<td>d</td>
<td>4) 3 core x 6sqmm Copper Cable for UPS &amp; UPS DB</td>
<td>30</td>
<td>mtr</td>
</tr>
<tr>
<td>e</td>
<td>5) 3 core x 4sqmm Copper Cable for SPLIT AC</td>
<td>200</td>
<td>mtr</td>
</tr>
<tr>
<td>f</td>
<td>6) 4 core x 4sqmm Copper Cable for 3 Ph Cassette AC</td>
<td>150</td>
<td>mtr</td>
</tr>
</tbody>
</table>

ii) POINT WIRING - LIGHTS & CEILING FANS

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Quantity</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>Point wiring with 1.5sqmm FRLS 650V grade multistranded PVC insulated copper wire in 2mm thick 25mm dia PVC pipe for lights, fans including supply &amp; fixing of 5 amp modular</td>
<td>35</td>
<td>pts</td>
</tr>
<tr>
<td></td>
<td>Description</td>
<td>Points</td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>--------</td>
<td></td>
</tr>
<tr>
<td>b</td>
<td>Same as above but for secondary points looped from the above</td>
<td>50 pts</td>
<td></td>
</tr>
<tr>
<td>c</td>
<td>Same as point wiring but for the call bell points for the cabins including supply of call bell as required</td>
<td>2 pts</td>
<td></td>
</tr>
<tr>
<td>d</td>
<td>Supply and fixing of 1nos. 6A sockets fixed the switch board with 1 no 6A switch including all interconnections as required including the supply and fixing of 6A modular socket 3&quot; below the false ceiling and 6A switch in the switchboard as required.</td>
<td>13 no</td>
<td></td>
</tr>
<tr>
<td>iii)</td>
<td><strong>POINT WIRING- WALL MOUNTING FANS :</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wiring for the wall mounting fans from the nearest switch board with 1.5sqmm FRLS 650V grade multistranded PVC insulated copper wire in 20mm dia 2mm thick PVC pipe and all interconnections as required including the supply and fixing of 6A modular socket 3&quot; below the false ceiling and 6A switch in the switchboard as required.</td>
<td>24 nos</td>
<td></td>
</tr>
<tr>
<td>iv)</td>
<td><strong>WIRING FOR AIRCONDITIONERS :</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wiring with 1100V grade PVC insulated Copper conductor multistrand wires along with one run of 2.5mm FRLS copper earth wire run in suitable size 2 mm thick 25mm dia PVC conduit run concealed on wall/ Ceiling etc as required for Single phase 2.0/1.5/1.0 TR High Wall Split ACs as under :</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Supply and Fixing of 25 A DP MCB fixed on a suitable module metal box including all interconnections as required. (for Single Phase AC units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>For 25A DP for 1.0 &amp; 1.5 wall split AC's (wiring with 2runs of 4.0 sq.mm FRLS and 1 run of 2.5sqmm FRLS 1100 V grade PVC insulated multi strand copper conductor wires conforming to IS 694 (with latest amendments) in suitable size</td>
<td>15 nos</td>
<td></td>
</tr>
<tr>
<td>ii)</td>
<td>For 40A TP REAR SOCKET for 2TR -2 Nos Cassette 3 phase Acs (with latest amendments) in suitable size</td>
<td>2 nos</td>
<td></td>
</tr>
<tr>
<td>v)</td>
<td>40A DP MCB with enclosure for UPS Output</td>
<td>2 nos</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td><strong>SOCKETS - RAW :</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>RAW Socket - 1 x 6A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>Supply and fixing of 1nos. 6A sockets fixed Above the table with 1 no 6A switch fixed above the table on 3 module metal box and white front plate (Modular type)with 2runs of 2.5 sq.mm FRLS and 1 run of 1.5sqmm FRLS 1100 V grade PVC insulated multi strand copper conductor wires conforming to IS 694 (with latest amendments) in suitable size 25mm dia PVC conduit of 2mm thick concealed in wall/floor and supply of all fixing materials and accessories ,interconnections complete as required for the raw power primary sockets (DB to work stations Primary point)</td>
<td>5 no</td>
<td></td>
</tr>
<tr>
<td>ii)</td>
<td>Supply and fixing of 2nos. 6A sockets fixed Above the table</td>
<td>6 no</td>
<td></td>
</tr>
</tbody>
</table>
with 1 no 16A switch fixed above the table on 5 module metal box and white front plate (Modular type) with 2 runs of 2.5 sq.mm FRLS and 1 run of 1.5 sq.mm FRLS 1100 V grade PVC insulated multi strand copper conductor wires conforming to IS 694 (with latest amendments) in 25mm dia PVC conduit of 2mm thick concealed in wall/floor and supply of all fixing materials and accessories, interconnections complete as required for the raw power primary sockets (DB to work stations Primary point)

| iii) | same as above but looped from nearest Raw Power point (Primary point to Secondary point) | 13 | no |

iv) Supply and fixing of 16A/6A 5 Pin sockets 1 no 16A switch on 5 module metal box and white front plate (Modular type) with 2 runs of 4 sq.mm FRLS and 1 run of 2.5 sq.mm FRLS 1100 V grade PVC insulated multi strand copper conductor wires conforming to IS 694 (with latest amendments) in 25mm dia PVC conduit of 2mm thick concealed in wall/floor and supply of all fixing materials and accessories, interconnections complete as required for the raw power primary sockets (DB to work stations Primary point)

| iv) | Supply and fixing of 16A/6A 5 Pin sockets 1 no 16A switch on 5 module metal box and white front plate (Modular type) with 2 runs of 4 sq.mm FRLS and 1 run of 2.5 sq.mm FRLS 1100 V grade PVC insulated multi strand copper conductor wires conforming to IS 694 (with latest amendments) in 25mm dia PVC conduit of 2mm thick concealed in wall/floor and supply of all fixing materials and accessories, interconnections complete as required for the raw power primary sockets (DB to work stations Primary point) | 17 | no |

SOCKETS - UPS:

b UPS Socket - 4 x 6A

i) Supply and fixing of 4 nos. 6A sockets with 1 no 16A switch fixed on a suitable module metal box and white front plate (Modular type) including all interconnections as required (switch shall be fixed above the table with suitable modular front plate / box and sockets shall be fixed below the counters) with 3 runs of 2.5 sq.mm FRLS grade 1100 V PVC insulated multi strand copper conductor wires conforming to IS 694 (with latest amendments) in suitable size PVC conduit of 2mm thick concealed in the above ducts in the floor and supply of all fixing materials and accessories, interconnections complete as required for the UPS power sockets. (DB to work stations Primary point)

| ii) | same as above but looped from nearest UPS Power point (Primary point to Secondary point) | 14 | no |

iii) Supply and fixing of 16A/6A 5 Pin sockets 1 no 16A switch on 5 module metal box and white front plate (Modular type) with 2 runs of 4 sq.mm FRLS and 1 run of 2.5 sq.mm FRLS 1100 V grade PVC insulated multi strand copper conductor wires conforming to IS 694 (with latest amendments) in 25mm dia PVC conduit of 2mm thick concealed in wall/floor and supply of all fixing materials and accessories, interconnections complete as required for the raw power primary sockets (DB to Soccket)

| iii) | Supply and fixing of 16A/6A 5 Pin sockets 1 no 16A switch on 5 module metal box and white front plate (Modular type) with 2 runs of 4 sq.mm FRLS and 1 run of 2.5 sq.mm FRLS 1100 V grade PVC insulated multi strand copper conductor wires conforming to IS 694 (with latest amendments) in 25mm dia PVC conduit of 2mm thick concealed in wall/floor and supply of all fixing materials and accessories, interconnections complete as required for the raw power primary sockets (DB to Soccket) | 5 | no |

5 TELEPHONE & DATA:
<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Quantity</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>Supply and fixing of RJ 11 Telephone socket with 2 Pair (0.5mm) Telephone Cable From Each Table to Krone Box, this include suitable Surface/concealed box and all required materials this Includes Wiring, Supply and fixing of Suitable PVC Conduits and Cable Numbers to provided.</td>
<td>16</td>
<td>nos.</td>
</tr>
<tr>
<td>b</td>
<td>Supplying and fixing a 20 pair krone connector in a suitable box as required. AGM anti room and Maintenance room</td>
<td>1</td>
<td>nos.</td>
</tr>
<tr>
<td>c</td>
<td>Supply and Laying of 4Pair, UTP(Unshielded Twisted Pair) cat6 Lan Cable with Information outlet and Suitable 2mm Thick PVC Pipe Laying Below Flooring/Wall/Slab etc MS Junction Boxes to All Tables, Including all Related Civil Works etc All Cable Numbers to be Provided at both ends</td>
<td>35</td>
<td>nos.</td>
</tr>
<tr>
<td>d</td>
<td>supply &amp; fixing of 7 feet feet Patch Cords.</td>
<td>100</td>
<td>nos.</td>
</tr>
<tr>
<td>e</td>
<td>supply &amp; fixing of 3 feet Patch Cords.</td>
<td>100</td>
<td>nos.</td>
</tr>
<tr>
<td>f</td>
<td>Supply &amp; Fixing of 24 Port Jack Panel &amp; switch</td>
<td>1</td>
<td>nos.</td>
</tr>
<tr>
<td>g</td>
<td>Supply &amp; Fixing of 12U Rack with Accessories</td>
<td>1</td>
<td>nos.</td>
</tr>
<tr>
<td></td>
<td><strong>6 PA &amp; MUSIC SYSTEM</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>S &amp; 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 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.</td>
<td>20</td>
<td>Pts.</td>
</tr>
<tr>
<td>b</td>
<td>S &amp; I of Philips / Bosch/Ahuja make music 6W (101.6mm Diameter) speaker flush mounted on the false ceiling with proper clamping arrangement</td>
<td>20</td>
<td>Nos.</td>
</tr>
<tr>
<td>c</td>
<td>S &amp; I of volume control - cum - ON - OFF switch flush mounted on wall along with other electrical switches .The size and plate of the regulating knob should match with other switches nearby (MK make)</td>
<td>2</td>
<td>Nos.</td>
</tr>
<tr>
<td>d</td>
<td>S &amp; I of 100 Watts BOSCH/Ahuja make Central Music System Amplifier and MP3/CD/USB Player with FM facility of make Samsung/Onida/LG</td>
<td>2</td>
<td>SET</td>
</tr>
<tr>
<td></td>
<td><strong>7 SUPPLY AND INSTALLATION OF LIGHTING FIXTURES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Supply &amp; Installation of 18W Led down light fixture. (Havells:- ENDURANEODLR15WLED840S or Equi) including cost and conveyance of all materials, taxes and all labor charges etc., complete.</td>
<td>59</td>
<td>Nos</td>
</tr>
<tr>
<td>b</td>
<td>Supply &amp; Installation of 36W 2' X 2' LedLight fixtures (CROMPTON MAKE - SIGNATURE SERIES STELLUX-H Or Equi) including cost and conveyance of all materials, taxes</td>
<td>14</td>
<td>Nos</td>
</tr>
<tr>
<td></td>
<td>Description</td>
<td>Quantity</td>
<td>Unit</td>
</tr>
<tr>
<td>---</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>----------</td>
<td>-------</td>
</tr>
<tr>
<td>c</td>
<td>Supply &amp; Installation of 1X25W 4FT Wide T5 FIXTURE LED Light including cost and conveyance of all materials, taxes and all labor charges etc., complete.</td>
<td>11</td>
<td>Nos</td>
</tr>
<tr>
<td>d</td>
<td>Supply &amp; Installation of 1X25W 2FT Wide T5 FIXTURE LED Light including cost and conveyance of all materials, taxes and all labor charges etc., complete.</td>
<td>0</td>
<td>Nos</td>
</tr>
<tr>
<td>e</td>
<td>Supply, Fixing of 5W/MTR LED Strip Light including driver cost and conveyance of all materials, Labour Charges etc. complete. MAKE: Phillips/ GE / Crompton / Havells / JAQUAR.</td>
<td>4</td>
<td>ROLL</td>
</tr>
<tr>
<td>f</td>
<td>Ceiling Mounting Fans</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Supply and fixing of 50W hi speed Crompton Greves Rivera model with 120W step type regulator (or) equivalent 48&quot; inches ceiling fan (Including 2F length down road and Hooks) of approved make with all connections and anchor fasteners, fan hooks, down rods etc. as required</td>
<td>3</td>
<td>Nos</td>
</tr>
<tr>
<td>g</td>
<td>Wall Mounting Fans</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Supply and Fixing of wall mounted fans of approved make 400mm Hi flow model.</td>
<td>24</td>
<td>Nos</td>
</tr>
<tr>
<td>h</td>
<td>Exhaust Fans</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Supply &amp; Installation of fresh air exhaust fan 50W of light duty 300mm size (12&quot;), Metallic body plastic blades, wire mesh, bird louvers etc. including cost and conveyance of all materials, taxes and all labor charges etc., complete for erection</td>
<td>8</td>
<td>Nos</td>
</tr>
<tr>
<td></td>
<td><strong>8</strong> EARTHING</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Providing standard copper plate earth station, with 600x600x3.15mm thick copper plate, 40mm dia, 2.5 mtr GI pipe with 25X3 copper strips runs on both sides up to top of the earth pit including excavation and construction of brick pedestal providing meshed funnel, CI cover and other Civil works, spreading a homogeneous mixture of salt, charcoal around the plate etc. completely as per IS 3043, 1987 or latest revision</td>
<td>2</td>
<td>nos</td>
</tr>
<tr>
<td>b</td>
<td>Providing G.I earth station, with 40mm dia, 2500mm long galvanized iron pipe including construction of brick pedestal providing meshed funnel CI cover and other Civil works, spreading a homogenous mixture of salt charcoal around the pipe etc. completely as per IS 3043, 1987 or latest revision.</td>
<td>2</td>
<td>nos</td>
</tr>
<tr>
<td>c</td>
<td>Supply &amp; Laying of 100mmX 25mmX 5mm Copper strip with supporting insulator and holes</td>
<td>1</td>
<td>nos</td>
</tr>
<tr>
<td>d</td>
<td>Supply and laying of 8SWG CU Wire in 20mm dia rigid PVC conduit for ups DB earthing from the existing earth pits in PVC conduit of suitable size.</td>
<td>200</td>
<td>mtr</td>
</tr>
<tr>
<td>e</td>
<td>Supply and laying of 8SWG GI Wire in 20mm dia rigid PVC conduit for Raw power &amp; Lighting DB earthing from the existing earth pits as required in PVC conduit of suitable size.</td>
<td>250</td>
<td>mtr</td>
</tr>
<tr>
<td></td>
<td>SUBSTATION ACCESSORIES</td>
<td></td>
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<tr>
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<td></td>
</tr>
<tr>
<td></td>
<td>Safety Accessories: Supply and fixing of following fixing accessories. All accessories shall bear ISI certification mark</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>11KV Rubber mats of size 2000X600mm long 12mm thick</td>
<td>2 Each</td>
<td></td>
</tr>
<tr>
<td>b</td>
<td>4.5KG CO2 type fire extinguishers</td>
<td>2 Each</td>
<td></td>
</tr>
<tr>
<td>c</td>
<td>Shock treatment charts (English, Telugu &amp; Hindi languages-Laminated)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>d</td>
<td>Danger Boards (English, Telugu &amp; Hindi languages)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>e</td>
<td>Laminated SLD in suitable A2 color</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>f</td>
<td>First Aid kit with complete set of medicines</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Preparation &amp; submission of As built drawings/documents along with necessary handing over documents, as required in the form of the Soft &amp; hard copy sets.</td>
<td>1 LS</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>WEATHER PROOF ENCLOSURES WITH SUITABLE ELCBS FOR VRF/VRV O/D UNITS</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Supply and fixing of factory made following ratings ELCBs with 300mA sensitivity powder coated Enclosures along with suitable supports, interconnections including all fixing accessories complete as required.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>32A, FP ELCB with 300mA sensitivity</td>
<td>1 Nos</td>
<td></td>
</tr>
<tr>
<td>b</td>
<td>40A, FP ELCB with 300mA sensitivity</td>
<td>4 Nos</td>
<td></td>
</tr>
<tr>
<td>c</td>
<td>63A, FP ELCB with 300mA sensitivity</td>
<td>2 Nos</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Supply, Fixing of MS slotted Angle iron supports from Roof for Heavy gauge MS conduits above False ceiling with 2 coats of red oxide paint and 2 coats of synthetic enamel paint including supply and providing of 10mm dia Anchor fasteners &amp; studs at every 1mtr interval.</td>
<td>0.40 Ton</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Supply and Fixing of modular type TV. Socket outlet with anodized GI box and front plate complete as required.</td>
<td>1 Nos</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Supply and Laying of RG 11 Coaxial TV cable in PVC Conduits</td>
<td>50 Mtr</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Supply and Laying of RG 6 Co.axial TV cable in PVC Conduits</td>
<td>150 Mtr</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Supply and Fixing of 4way TV Splitter in a MS powder coated enclosure</td>
<td>1 Nos</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Supply and laying of 1.6mm Thick Aluminum Floor Raceways of the following sizes in the floor including cutting/chipping of the existing floor with cutting machines etc wherever required and making the finishing to normal good level as required (Power / Data / Voice)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>25x25mm 1.6mm thick Aluminum Box Section as Raceway</td>
<td>180 Mtr</td>
<td></td>
</tr>
<tr>
<td>b</td>
<td>50x25mm 1.6mm thick Aluminum Box Section as Raceway</td>
<td>30 Mtr</td>
<td></td>
</tr>
<tr>
<td>c</td>
<td>80x44mm 1.6mm thick Aluminum Box Section as Raceway</td>
<td>15 Mtr</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Description</td>
<td>Quantity</td>
<td>Unit</td>
</tr>
<tr>
<td>---</td>
<td>-----------------------------------------------------------------------------</td>
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<td>-------</td>
</tr>
<tr>
<td>18</td>
<td>Supply and fixing of Junction boxes made out of 2mm thick MS sheet including powder coating as required fixed in floor. The box shall be provided with removable type 3mm thick powder coated cover.</td>
<td>a 125X125X50mm deep junction boxes</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b 300X300X50mm deep junction boxes</td>
<td>2</td>
</tr>
<tr>
<td>19</td>
<td>Cutting &amp; chipping of the floor to lay the floor raceways / conduits. The cutting shall be made with the cutting machines and the debris shall be shift outside the premises. The floor shall be made good to normal after laying the raceways /conduits. (as directed by the site engineer).</td>
<td>19</td>
<td>.50 Cu.Mt</td>
</tr>
<tr>
<td>20</td>
<td>Supply and fixing of following size GI perforated cable tray made out of 2mm thick galvanized sheet and the tray covered with 2mm thick cover including GI / MS supports for fixing the tray, anchor fasteners etc., complete as required. (for Power / Data &amp; Voice Cables)</td>
<td>a 500mm wide</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b 300mm wide</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>c 150mm wide</td>
<td>75</td>
</tr>
<tr>
<td>21</td>
<td>LAN CABLE/ RJ 45 SOCKETS</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Supply and laying of following size heavy guage FRLS PVC Conduits concealed in wall/ ceiling/ floor/ column including supply and drawing of 12SWG GI wire as fish wire for laying of LAN cables at a later stage and supply of all fixing materials complete as required.</td>
<td>a 20mm</td>
<td>75</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b 25mm</td>
<td>300</td>
</tr>
<tr>
<td></td>
<td></td>
<td>c 32mm</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td></td>
<td>d 20mm dia Flexible Conduit</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td></td>
<td>e 25mm dia Flexible Conduit</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>f 32mm dia Flexible Conduit</td>
<td>25</td>
</tr>
<tr>
<td>22</td>
<td>Supplying and fixing following size/ modules, GI box along with modular base &amp; cover plate for modular switches in recess etc. as required, 1 or 2 Module (75mmX75mm) including all accessories,(NOTE: Color of the front plate shall be as finalized by the architects).</td>
<td>22</td>
<td>35 Nos</td>
</tr>
<tr>
<td>23</td>
<td>Supply, fixing, testing and commissioning of LAN outlet (RJ45) with anodised GI box/with suitable front plate and plug in type socket (NOTE: Color of the front plate shall be as finalized by the clients/architects/consultants).</td>
<td>23</td>
<td>35 Nos</td>
</tr>
<tr>
<td></td>
<td>Description</td>
<td>Quantity</td>
<td>Unit</td>
</tr>
<tr>
<td>---</td>
<td>-----------------------------------------------------------------------------</td>
<td>----------</td>
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</tr>
<tr>
<td>24</td>
<td>Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required (NOTE: Make as finalized by the clients/architects/consultants).</td>
<td>1400</td>
<td>Mtr</td>
</tr>
</tbody>
</table>

TOTAL

| 26 | **BUY BACK (amount to be paid to the Bank)**                                   | -1       | LS   |
|    | Removing of existing electrical fixtures viz., Light fixtures, fans, exhaust fans, all distribution boards, sockets, switches, wiring, conduits, Lan, telephone sockets and wiring. All distribution boards etc., complete and carting away non serviceable material and disposing of all debris to contractor's dump yard or approved land fill as directed etc., complete. All serviceable items are to be handed over to SBI and to be carted to their stack yard as per directions etc., complete. |          |      |

| 3.13 | **BUY BACK (amount to be paid to the Bank)**                                  | -1       | LS   |
|      | Removing and Buy back of Existing Furniture Branch head table -1, officer tables -4, cash counters-2, Counters-4 , Cash counting table-2 Rmt, partitions 35 sqm, ceiling 200 sqm, storages 15 sqm Etc.,                                |          |      |

Note  All the electrical works to be executed through LHO approved electrical contractors only. An undertaking by the agencies need to be submitted at the time of commencement of the work. All required warranty / guaranties to be given / signed by both the agencies.

TOTAL RUPEES

DISCOUNT IF ANY

GRAND TOTAL