

TENDER

for

INTERIOR & ALLIED WORKS

of

CHANDIGARH REGIONAL OFFICE

SBI LIFE Insurance Co. Ltd., Plot No. 144, Industrial Area- Ph-II, Chandigarh

TENDER SUBMITTED BY

PREPARED / ISSUED BY

M/S BACHITTER SINGH ASSOCIATES

ARCHITECTS, ENGINEERS, AND INTERIOR DESIGNERS,

1514, Sector 7-C, Chandigarh – 160019

Office Landline : + 91 172 2792283
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PART -A

SECTION - I

Item rate tenders are invited on behalf of

**The Regional Director,
SBI Life Insurance Company Ltd.,
Regional Office, SCO 109-110, 3rd Floor
Sector –17B, Chandigarh. – 160 017.**

for the following work :

- a) **Name of work** - **INTERIOR & ALLIED WORKS OF REGIONAL OFFICE, CHANDIGARH**
 - b) **Location of work** - # 144, Industrial Area- Ph-II, Chandigarh
 - d) **Time of Completion** - 90 (Ninety days)
 - e) **Earnest Money** - Rs.3,00,000/- (three lac only) in the shape of bank draft drawn in favour of **SBI Life Insurance Company Ltd** and payable at Chandigarh. No interest will be Paid on this amount of Earnest money deposited.
 - f) **Cost of tender document** - Rs. 5000/- (in cash & non refundable) to the Architects/Consultants
 - g) **Pre Bid Meeting** - On **21-04-2017** at **3:00 P.M** in the office of **The Regional Director, SBI Life Insurance Company Ltd., Regional Office, SCO 109-110, 3rd Floor Sector –17B, Chandigarh. – 160 017.**
1. Two (2) copies of Tender documents and detailed drawings can be obtained from the office of the Architects/Consultants **from 12-04-2017 to 27-04-2017** upto 11:00 am.

M/S BACHITTER SINGH ASSOCIATES
ARCHITECTS, ENGINEERS, AND INTERIOR DESIGNERS,
1514, Sector 7-C, Chandigarh – 160019

Office Landline : + 91 172 2792283
Office fax : + 91 172 2792283
Office Cell : + 91 8860372037
Personal Cell : + 91 9592140000

2. Clarification, if any, required can be obtained from, **M/S. BACHITTER SINGH ASSOCIATES** between 2:00 pm to 5:30 pm on all working days.
3. Sealed Tender addressed to:

The Regional Director,

**SBI Life Insurance Company Ltd.,
Regional Office, SCO 109-110, 3rd Floor
Sector –17B, Chandigarh. – 160 017.**

are to be submitted at the office of the

**The Regional Director,
SBI Life Insurance Company Ltd.,
Regional Office, SCO 109-110, 3rd Floor
Sector –17B, Chandigarh. – 160 017.**

Tenders complete in all respect shall be received **on 27-04-2017** up to 2:00 pm. **Part-A/Envelope-I** of the tender will be opened on **27-04-2017** at 2.30 pm and **Part-B/Envelope-II** of the tender will be opened on **the same day** at 3.30 pm in the presence of tenderers, who choose to be present at that date and time.

4. The earnest money shall be deposited in the form of Bank Draft from a Nationalized Bank. Tenders without earnest money shall be rejected.
5. Tenders submitted shall remain valid for acceptance for a period of 90 days from the date of opening.
6. Both copies of Tenders duly filled shall be submitted, in two parts each **PART “A” & PART “B”** separately sealed and superscribed with the name of the work, **“Interior and Allied Works of Regional Office Chandigarh.”**

PART "A" (In envelope marked Part “A”): Envelope-I

Shall contain all commercial and general stipulations proposed by the tenderers and the earnest money in required shape.

PART “B” (In envelope marked Part “B”): Envelope-II

Duly sealed cover super scribed as **“Price Bid”** –shall contain **only Price Bid**

7. **PART "A"** will be opened on **27-04-2017** at 2.30 pm in the presence of the tenderers or their authorized representatives as stated above. **PART "B"** will be opened on **27-04-2017** at 3.30 pm.
8. Tenders shall be submitted on the printed forms issued by the Consultant. The tenderers should quote the **rates in figures as well as in words**. The amount of each item shall be worked out and the **requisite total shall be given**. All corrections shall be **attested by the initials** of the tenderers with the seal of the firm. In case any discrepancy difference is found on checking between rates quoted by the Contractor in words and figures or in the amount worked out by him, the following procedure shall be followed
 - a) When there is a difference between the rates in figure and in words, the **rate**, which corresponds to the amounts worked out by the Contractor, shall be taken as correct.
 - b) When the amount of any 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 rate quoted by the Contractor in figures and in words tallies but the amount is not worked out correctly **rate** quoted by the Contractor shall be taken as correct and not the amount.

- d) Amendments as mentioned above shall be based on the tender marked 'original' only.
- e) It shall be ensured that the rates for items of similar nature or analogous in specifications, are consistent throughout the tender.

In case, inconsistent rates are observed for items of the same description in the different parts of the schedule of quantities, the lowest of such rates shall be considered as the rate for all such items.

- 9. Tender will have to be submitted properly sealed and super-scribed with the name of the work.
- 10. Sales Tax or any other Tax on material or on finished work like Works Contract Tax, Turnover Taxes, Service Tax etc. in respect of this contract whether existing or future shall be payable by the Contractor and the Bank will not Entertain any claim whatsoever in this respect at any time. Rates should include all taxes.
- 11. The employer does not bind itself to accept the lowest tender and reserves to itself the *right to reject any or all the tenders* received without assigning any reason/s thereof. The notification of award of contract will be made to the successful tenderer by the Architect.
- 12. Tender notice duly signed by the tenderers in token of his acceptance of all the conditions mentioned herein should be attached to the tender that will be submitted by him.
- 13. It would be advisable for the intending tenderers to visit the site of the work and get themselves acquainted with the work to be executed including detailed study of drawings and specifications before sealed tenders are submitted by them.

Yours faithfully,

for **BACHITTER SINGH ASSOCIATES,**
CHANDIGARH.

SECTION - II

FORM OF TENDER

Date.....

**The Regional Director,
SBI Life Insurance Company Ltd.,
Regional Office, SCO 109-110, 3rd Floor
Sector –17B, Chandigarh. – 160 017.**

Dear Sir,

**Re: INTERIOR & ALLIED WORKS of CHANDIGARH REGIONAL OFFICE SBI LIFE
at # 144,
Industrial Area- Ph-II, Chandigarh**

1. I/We refer to the tender notice issued by your Architects/Consultants M/s Bachitter Singh Associates, # 1514, Sector 7-C, Chandigarh, on your behalf for **INTERIOR & ALLIED WORKS of CHANDIGARH REGIONAL OFFICE SBI LIFE at # 144, Industrial Area-Ph-II, Chandigarh**
2. I / We do hereby offer to perform, provide, execute, complete the work in conformity with drawings, Conditions of Contract, Specifications, Bill of Quantities for the sum of Rs..... at the respective rates quoted in the Bill of Quantities.
3. I / We have satisfied myself / ourselves as to the site conditions, examined the Drawings and all aspects of the tender conditions. Subject to above, I/We do hereby agree, should this tender be accepted in whole or in part...
 - a) Abide by and fulfill all the terms and provisions of the said conditions annexed here to.
 - b) Complete the work within Ninety(90) days, as stipulated more than one shifts if considered necessary by the Architects/Consultants at no extra cost to the Company.
4. I/We have deposited earnest money of **Rs. 300000 (three lac)** in the form of Demand draft which, I/We note, will not bear any interest and is subject to forfeiture solely at Bank's discretion
 - i) If the work is not commenced by me/us within 7 (seven) days from the date of issue of formal Work Order
OR
 - ii) If the offer is withdrawn within the validity period of acceptance
OR
 - iii) If the contract is not executed within the validity period of acceptance.
5. I / We understand that you are not bound to accept the lowest or any tender you receive.
6. The acceptance of this tender shall constitute a binding of contract and any failure as mentioned in item (4) above shall constitute a breach of contract by us and the tender accepting

authority shall be entitled to have the work executed at our risk and cost and to claim extra cost/expenditure incurred by them from us.

7. Our Bankers are

8. Name of partners/directors of our firm :

i:.....
ii:.....
iii:.....
iv:.....

Yours faithfully,

Signature:.....

Name:

Designation:

Partner/Director of the firm authorized to sign or Name of person having power of attorney to sign the contract. (Certified true copy of power of attorney should be attached)

Signature and addresses of :

Signature:.....

Witnesses

a. Signature:.....

Name :.....

Address :
.....

b. Signature:.....

Name :

Address :
.....

SECTION-III

ARTICLES OF AGREEMENT

ARTICLES OF AGREEMENT made this _____ day of 2017 between **SBI Life Insurance Company Ltd** a company incorporated under the State bank of India Act, 1955 and having its Regional Office at Chandigarh -160017, (hereinafter referred to as the “**EMPLOYER**” which expression shall include its successor or successors and assigns) of the ONE PART.

AND

M/s

having its registered office at _____ (hereinafter referred to as the ‘**CONTRACTOR**’ of the OTHER PART,

And WHEREAS the Employer is desirous of executing **Interior & Allied Works of Chandigarh Regional Office, SBI LIFE Insurance Company Ltd.** at # 144, Industrial Area- Ph-II, Chandigarh as stated hereinafter in Clause 1, 2 and 3 in the APPENDIX -I to the General Conditions (hereinafter called the WORK).

AND WHEREAS the Employer in order to effectively carry out the said work at Chandigarh engaged **M/s. Bachitter Singh Associates # 1514, Sector-7-C, Chandigarh-160019** (hereinafter referred to as (the “ARCHITECTS/CONSULTANTS”) to prepare Plans, Drawings and Specifications describing to be executed for SBI Life Insurance Company Ltd, # 144, Industrial Area- Ph-II, Chandigarh to call for tenders from contractors for the job, to open tenders received at the office of the **EMPLOYER**, to scrutinize and recommend to the Employer, the name or names of the Contractor or Contractors from whom the tenders were received and to issue Work Order to the Contractor or Contractors so recommended after having the approval and acceptance thereof from the Employer.

AND WHEREAS the Employer has caused the Drawings as per list attached Specifications, Bill of Quantities for the Work as per Instructions to Tenderers, General Conditions of Contract and Special Conditions of Contract prepared with the assistance of the said Architects/Consultants, subject to which the offer of the Contractor shall be accepted.

AND WHEREAS the tender of the Contractor for execution of the said work at Chandigarh (UT) has been approved by the Employer.

AND WHEREAS the contractor has deposited with the Employer **Rs.300000/- (three lac) (EMD)** as Earnest Money for the due performance of the Agreement.

AND WHEREAS the said Architects/Consultants have issued Work Order therefore to the Contractor. **AND WHEREAS** the relevant Drawings inclusive of the Specifications, Agreed Priced Schedule of Quantities, Instructions to tenderers, General Conditions of Contract, Special Conditions and letters exchanged by & between the parties from submission of tender up to acceptance including Work Order (hereinafter collectively referred to as "the said conditions") have been signed by the parties hereto and the Contractor has agreed to execute upon and subject to the said conditions.

NOW IT IS HEREBY AGREED AS FOLLOWS

1. In consideration of the payments to be made to the Contractor as hereinafter provided the Contractor shall upon and subject to the said conditions execute and complete the work as described in the said specifications and the said agreed rates.
2. The Employer will pay to the Contractor the sum of Rs..... (Rupees)(hereinafter called the 'Contract Sum') or such other sum as shall become payable hereunder at the times and in the manner specified in the said conditions.
3. The term 'Architects/Consultants' in the said conditions shall mean the said M/s. Bachitter Singh Associates, Chandigarh and in the event of the said Architects/Consultants ceasing to be the Architects/Consultants for the purpose of this contract such other person or persons as shall be nominated for the purpose by the Employer, provided always that no person subsequently appointed to be the Architects/Consultants under this contract shall be entitled to disregard or overrule any decision or approval expressed in writing by the outgoing Architects/Consultants for the time being if the same had been done under instructions from the Employer.
4. The agreement and documents mentioned above shall form the basis of this contract and all disputes to be decided in the manner prescribed in the conditions attached hereto.
5. The said contract comprises Interior and Allied works at # **144, Industrial Area- Ph-II, Chandigarh** as mentioned above and in the tender documents and all subsidiary work connected therewith within the same site as may be ordered to be done from time to time by the said Employer through the Architects/Consultants the case may be even though the said work may not be shown on the Drawings or described in the said Specifications or the Agreed Priced Schedule of Quantities.
6. Notwithstanding what is stated herein before or hereinafter or in the instruction to the tenderer, General Conditions of Contract, Special Conditions, the Employer through the Architects/Consultants reserves to himself the right to alter the nature of the work and of adding to or omitting any items of work from the contract or of having portions of the same carried out departmentally or otherwise and such alterations or variations shall be carried out without prejudice to this contract.
7. The above conditions shall be read and be treated as forming part of this agreement and the parties hereto will respectively be bound hereby and to abide by themselves to the conditions and stipulations and perform the same on their parts to be respectively observed and preferred.
8. Any dispute arising under this agreement between the parties hereto shall be referred for adjudication to a sole arbitrator in Chandigarh in the manner and in terms of the provisions laid down in Clause 45 of the General Conditions of Contract. The award of the arbitrator shall be final and binding on both the parties.

AS WITNESS

our hand this_____ day of _____

SIGNED by the said :

Employer
in the presence of :

SIGNED by the said :

Contractor
in the presence of :

SECTION-IV

CONDITIONS OF SPECIAL APPLICATION

ELIGIBILITY CRETERIA FOR TENDERERS

Invitation of Tender from eligible contractors for **Interior & Allied Works of Chandigarh Regional Office, SBI LIFE Insurance Company Ltd. at # 144, Industrial Area- Ph-II, Chandigarh.**

This Section deals with specific eligibility criteria technical qualification of intending tenders. Tenders are invited from empanelled firms by **State Bank Of India** subject to the fulfillment of Conditions of this Specific Application contained in this Section. Accordingly intending tenderers are advised to fill in all the proformas contained in this Section diligently as the Price Bids of only those tenderers shall be opened whose Technical Bids are found fit/qualifying.

GENERAL INFORMATION OF AGENCY

1.0	Name of the Applicant / Agency	
1.1	Address of the registered offices (With Phone Nos. Fax Nos. & Email ID & Contact Person)	
2.0	Year of Establishment	
3.0	Type of the Organization (whether Sole Proprietorship, Partnership, Private Ltd. Or Ltd. Co. etc.)Enclose Certified Copies of documents as evidence.	
4.0	Name &Qualification of the Proprietor / Partners /Directors of the Organization / Firm a) b) c) Enclose certified copies of document as evidence	
5.0	Details of Registration - Whether Partnership Firm, Company, etc. Name of Registering Authority, Date & Registration Number. Enclose certified copies of Document as evidence.	
6.0	Whether Registered with Government / Semi-Government/Reputed Public Organizations and if so, in which class and since when?	

	(Enclose certified copies of document as evidence)	
a)	No. of years of experience in the field.	
b)	Whether ISO Certified, if yes furnish details.	
7.0	Address of office through which the proposed work of the company will be handled and the name & designation of officer in charge.	
	<p>a) Yearly turnover of the organization during last 3 years (year wise) and furnish audited balance sheet and Profit & Loss A/c (Audited) for the last -3-years.</p> <p>Turnover in</p> <ul style="list-style-type: none"> • 2013-2014 • 2014-2015 • 2015-2016 	
8.0	Name and Address of Bankers (Solvency Certificate from a Bank to be enclosed for indicating satisfactory financial capacity of the organization)	
9.0	PAN No. :	
10.0	Details of Registrations with following authorities a. Sales Tax. b. Service Tax c. VAT	
10.1	Details of Registration for a. ESIC b. EPF	
11.0	Details Description and Value of works done (Proforma- 1)	
11.1	Single work of Rs. 2.5 Crores OR	
11.2	Two similar works of Rs. 1.75 Crores	

	OR	
11.3	Three similar work of Rs. 1.40 Crores	
11.4	Works on hand (Proforma-2)	
12.0	Details of key personnel permanently employed (Proforma-3)	
13.0	Other infrastructural information to be used/ referred for this project (Proforma-4) List of available plants, Machineries equipments etc.	
14.0	Furnish the names of three (3) responsible persons along with their designations, address, Tel No., etc., for whose Organizations (Previous Clients), you have completed the above mentioned Jobs, and who will be in a position to certify about the performance of your organization.	1 2 3
15.0	Whether any Civil Suit/ Litigation arose in contracts Executed/ being executed during the last 10 years. If Yes, please furnish the Name of the Project, Employer, Nature of work, Contract Value, Work Order and Brief Details of Litigation. Give name of the courts, place, and status of pending litigation.	Attach a separate sheet if required
16.0	Information relating to whether any litigation is pending before any arbitrator for adjudication of any litigation or else any litigation was disposed off during the last ten years by an arbitrator. If so, the details of such litigation are required to be submitted.	
17.0	No. of supplementary sheets attached for Part-II	

- **Note :** Attach extra sheets with Sr No if the space is found less.

PROFORMA – 1

LIST OF SIMILAR WORK EXECUTED BY THE AGENCY DURING THE LAST 7 YEARS

(Each work not less than 1.4 Crores for Interior & Allied Works including
Electrical, Networking, and Fire Alarm)

Sr No.	Name of Work Project with Address	Name &Full Postal Address of the Client (Specify)	Contract Amount(Rs.)	Stipulated Time of Completion (Years)	Actual time of Completion (Years)	Any other relevant Information. Actual amount of the project. If Increased, give reasons.	Enclose Clients Certificate For Satisfactory Completion
1	2	3	4	5	6	7	8

Notes:

- Date shall be reckoned from 01.12.2010.
- For certificates, the issuing authority shall not be less than an executive in charge.

PROFORMA – 2

LIST OF IMPORTANT WORK ON HAND

(Each work not less than 1.4 Crores for Interior & Allied Works including Electrical, Networking, and Fire Alarm)

Sr No.	Name of Work/ Project with Address	Name & full postal address of the owner. Specify whether Govt. undertaking along with Name, Address and Contact Nos. of -2-Persons (Engineers or Top Officials of the Organization)	Contract Amount (Rs.)with copy of Work Order	Stipulated Time of Completion(years)	Present status of the Project	Any other relevant information
1	2	3	4	5	6	7

Note : Information has to be filled up specifically in this format.

PROFORMA – 3

DETAILS OF KEY PERSONNEL, GIVING DETAILS ABOUT THEIR TECHNICAL QUALIFICATIONS & EXPERIENCE INCLUDING THAT IN YOUR ORGANIZATION

Sr No.		Name and Designation	Age	Qualification	Experience	Nature of Works handled	Name of the projects handled costing over Rs 1.4 Crores	Date from which Employed in your organization	Indicate details of Experience for similar projects
1	2	3	4	5	6	7	8	9	10
1	Details of qualified in-house Civil Engineer/Architect.								
2	Details of qualified In-house Interior Decoration supervisor/ Jr. Civil Engineer, with details of experience in similar works.								
3	If the applicant is having existing association/collaboration or likely to form a consortium of/ with other Consulting Engineers/ Contractor for the special work, the details of the intended setup shall be given along with details of Technical Staff similar lines to the above.								

Notes:

1. Information has to be filled up specifically in this format.
2. Indicate other points, if any, to show your technical and managerial competency to any important point in your favour.

PROFORMA – 3A

DETAILS OF CURRICULUM VITAE OF KEY PERSONS

1	Proposed position for this project	
2	Name of candidate	
3	Date of Birth	
4	Qualification with Year	
5	Total Experience (in Years)	
6	Years with the present Employer	

PROFORMA – 4

DETAILS OF OFFICE INFRASTRUCTURE

Sr No.	Items	Numbers	Details
1	Office Premises, Area, etc.		
2	Facsimile Machine		
3	Telephones		
4	Other Equipment/Instruments		
5	Software used for Planning		
6	Subscription to Magazines		
7	Any other Information		

Sign & Seal

Date:

CHECK LIST

Bidder shall fill this CHECK LIST and ensure that all details / documents as mentioned in the tender documents are submitted along with their Bid. Please tick the box and ensure compliance and specify the Page no. of Pre Qualification bid submitted.

Sr. No.	Details / Documents	Compliance (Yes / No)	Page No.
	Documents required for Mandatory Criteria		
1	Copy of certificate from CA along with copy of audited Balance sheets for last three financial years.		
2	Valid Bank Solvency from a Nationalized / Scheduled Bank		
3	Certificate issued by client to the contractor for a completed interior works project of cost not less than as per PQ criteria (Performa 1)		
4	Notarized affidavit for not having black listing history with Government, Semi-Government, Boards or Corporation and etc.		
5	Copy of P.F. Registration Certificates, submitted		
6	If name of the firm changed since establishment, details (certificate) for the same, submitted		
7	Declaration / Undertaking Submitted		
8	Company / Firm related information submitted		
9	Copy of Employees Insurance Schemes Registration Certificates, submitted		
10	Information about Technical Personnel to be deployed on site for this project		
11	Curriculum vitae of all key personnel		
12	Detailed information of completed project, as specified in Performa 1		

SECTION - V

GENERAL RULES AND INSTRUCTIONS FOR THE GUIDANCE OF TENDERERS

1. Tenders are hereby invited on behalf of SBI Life Insurance Company Ltd. for executing Interior and Allied works at # **144, Industrial Area- Ph-II, Chandigarh**
2. Contract Document shall consist of
 - i Notice Inviting Tender
 - ii Form of Tender
 - iii Articles of Agreement
 - iv General Rules and Instructions for the guidance of tenderers
 - v Special Instructions to tenderers
 - vi General Conditions of Contract with Annexure & Appendix.
 - vii Special Conditions
 - viii Technical Specifications
 - ix Schedule of Items and Quantities
 - x Drawings (issued for tender purpose only), Relevant Correspondence, all letters/ correspondence forming part of the contract and referred to in Work Order.
3. The site for the work is available.
4. Tenders, which should always be placed in sealed cover, with the name of the project written on the envelopes will be received by The
The Regional Director, SBI Life Insurance Company Ltd., Regional Office, SCO 109-110, 3rd Floor Sector –17B, Chandigarh. – 160 017. up to 2:00pm on 27.04.2017.
5. Tenders are to be on the prescribed form, which can be obtained from the office of M/s Bachitter Singh Associates, # 1514, Sector 7-C, Chandigarh-160019 on payment of a sum of Rs. 5000/- in cash from 12-04-2017 to 27-04-2017 on all working days during office hours. The time allowed for carrying out the work will be ninety (90) days from the 7th day to be counted after date of Work Order.
6. The tenderers should quote the rates and the amounts in figures as well as in words in English. The amount for each item should be worked out and requisite total given.
7. The Contractor, whose tender is accepted, will be required to furnish by way of security deposit for the due fulfillment of his contract, such sum as will amount of 5% of the accepted tendered cost including earnest money deposit.
8. The Security Deposit shall be collected as detailed in Clause No.10 of the General Conditions of the contract.
9. The acceptance of a tender will rest with the **SBI Life Insurance Company Ltd.**, which does not bind itself to accept the lowest tender and reserves to itself the authority to reject any or all tenders received without assignment of any reason. All tenders in which any of the prescribed conditions are not fulfilled or are incomplete in any respect are liable to be rejected.

The **SBI Life** reserves the right to accept the tender in full or in part and the tenderers shall have no claim for revision of rates or other conditions if his tender is accepted in parts.
10. Canvassing in connection with tenders is strictly prohibited and tenders submitted by the contractors who resort to canvassing will be liable to rejection.
11. All rates shall be quoted on the proper form of the tender alone. Special care should be taken to write the rates in figures as well as in words and the amounts in figures only, in such a way that

interpolation is not possible. The total amount should be written both in figures and in words. In case of figures, the words Rs. should be written before the figures of rupees and words paise after the decimal figures, i.e., Rs. 2.15 P. and in case of words, the word "Rupees" should precede and the word "Paise" should be written at the end, unless the rate is in whole rupees and followed by the words "only" it should invariably be up to two decimal places. While quoting the rate in schedule of quantities, the word 'only' should be written closely following the amount and it should not be written in the next time.

12. On acceptance of the tender, the name of the accredited representative of the Contractor who would be responsible for taking instructions from the Employers/Architects shall be communicated to the Employer and Architects/Consultants.
13. The Company does not bind itself to accept the lowest or any tender and reserves to itself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the quoted rates.
14. Sales Tax, Work Contract Tax, or any other Tax on materials or on finished work in respect of this contract whether existing or future shall be payable by the Contractor and the bank will not entertain any claim whatsoever in this respect at any time. Rates should include all these taxes.
15. Service Tax
16. The Contractor shall give a list of his relatives working with the Employer along with their designations and addresses.
17. No employee of the Employer is allowed to work as a Contractor for a period of two years of his retirement from employers' services, without the prior permission of the Employer. 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 Employer or Architects/Consultants as aforesaid before submission of the tender or engagement in the Contractor's service
18. The tender for the work shall not be witnessed by a Contractor or contractors who himself/ themselves has/have tendered or who may and had/have tendered for the same work. **Failure to observe this condition would render tenders of the contractors tendering as well as witnessing the tender liable to summary rejection.**
19. It will be obligatory on the part of the tenderer to tender and sign the tender documents for all the component parts and that after the work is awarded he will have to enter into an agreement for all components (civil, public health, electrical, networking, and fire detection) collectively with the competent authority.
20. The earnest money deposit of the contractor whose tender is accepted **shall be forfeited** in full in case he does not start the work by the stipulated date mentioned in the *Work Order*.

SECTION - VI

SPECIAL INSTRUCTIONS TO TENDERERS

1. WATER

The contractor shall make water charges payment to the concerned authorities on the basis of bills raised by the concerned Authorities/Departments for the period from the commencement of work till virtual completion.

2. POWER

The contractor shall make electricity charges payment to the concerned authorities on the basis of Bills raised by the concerned Authorities/Departments for the period from the commencement of work till virtual completion.

3. DISMANTLING WORK

The contractor shall carry out dismantling work if any in a planned manner to save the structure of the building from any structural damage and shall remove the debris from site to an authorized dump.

4. FIRST-AID FACILITIES

The Contractor shall at his own expense arrange to ensure availability of medical attendance promptly when necessary. He shall provide properly equipped first-aid station, in charge of qualified persons at suitable location within easy reach of the workmen and staff. The Contractor shall also provide for transport of serious cases to the nearest Hospital. The Contractor shall be responsible for any liability which may be excluded from the insurance policies referred in Clause 31 and also for all other damages to any person, animal or property arising out of incidental to the negligence or defective carrying out of this contract. He shall also indemnify the employer in respect of any cost, charges or expenses arising out of any claims or proceedings and also in respect of any award of compensations and damages arising there from.

The employer shall with the concurrence of the Architects be entitled to deduct the amount of any damage, compensation, cost charges and expenses arising from or occurring from, or in respect of, any such claims or damages from any or all sums due or become due to the Contractor without prejudice to the employers' other rights in respect thereof.

5. REPORTS AND RETURNS

Contractor shall maintain at site daily records of progress with regard to the work carried out, labour engaged and erection equipment deployed. These daily records shall be made available/accessible to the Architects/ Consultants as and when required by them.

Enlarged photographs of the progress of work along with Running Account Bills are also to be submitted by the Contractor, at no extra cost to the Employer.

6. SITE INSTRUCTION BOOK

For the purpose of quick communication, the Contractor shall maintain and preserve at site, a Site Instruction Book with machine numbered pages in triplicate. Any instruction / advice given and recorded in the site order book by the Architects/Consultants shall be considered as a notice served on the Contractor.

7. SAMPLE BOARD AND QUALITY CONTROL

Contractor shall maintain a sample board of suitable size or as advised by the Architects/Consultants which would display samples of important materials such as flooring tiles, ply woods, laminates, aluminum, mineral fiber ceiling grid tiles, wood, melamine polish, electrical wires, cables, modular switches etc. Architects/Consultants shall have the liberty to get any of the sample(s) tested from an authorized test house.

8. DISCREPANCIES AND ADJUSTMENT OF ERRORS

The several documents forming the contract are to be taken as mutually explanatory of one another; detailed drawings being followed in preference to small-scale drawings and figured dimensions in preference to scaled dimensions.

If the case of discrepancy between schedules of quantities, the specifications/and/or the Drawings, the following order of preference shall be observed

- a. Description in the Schedule of items and Quantities
- b. Technical specifications
- c. Drawings

If there are varying or conflicting provisions made in any one document forming part of the Contract, the accepting authority shall be the deciding authority with regard to the intention of the document.

Any error in description, quantity or rate in Schedule of Quantities or any omission there from shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the work comprised therein according to drawings; and specifications or from any of his obligations under the contract.

SECTION-VII

GENERAL CONDITIONS OF CONTRACT

Except where provided for in the description of the individual items in the Schedule of Quantities and in the Specifications and Conditions laid down hereinafter and in the Drawings, the work shall be carried out as per standard specifications and under the directions of the Architects/Consultants.

1. INTERPRETATION

In construing these Conditions, the Specifications, the Schedule of Quantities, Tender and Agreement, the following words shall have the meaning herein assigned to them except where the subject or context otherwise requires

- i. **Employer** - The term Employer shall denote *SBI LIFE Insurance Co. Ltd.* or any of its employees representative authorized on their behalf.
- ii. **Architects/Consultants** - The term Architects/Consultants shall mean Directors/ Employees/Consultants of **M/s. Bachitter Singh Associates, # 1514 Sector 7-C, Chandigarh. 160019** or in the event of his/their ceasing to be the Architects for the purpose of this contract such other person(s) as the Employers shall nominate for the purpose.
- iii. **Contractor** - The term Contractor shall mean M/s..... and his/their heirs/legal representatives, assigns and successors.
- iv. **Site** - The site shall mean Ground Floor, First Floor, Mezzanine Floor, Second Floor, Third Floor, and Fourth Floor of **# 144, Industrial Area- Ph-II, Chandigarh.**
- v. **Drawings** - The work shall be carried out in accordance with Drawings, Specifications, the Schedule of Quantities and any further drawing(s) which may be supplied or any other instruction(s), which may be given by the Architects/Consultants during the execution of the work.

All Drawings relating to work given to the Contractor together with a copy of Schedule of Quantities are to be kept at site and the Architects/Consultants shall be given access to such Drawings or Schedule of Quantities whenever necessary.

The Contractor shall ask in writing for all clarifications on matters occurring anywhere in Drawings, Specifications and Schedule of Quantities or to additional instruction(s) well ahead from the time when it is required for implementation so that the Architects/Consultants may be able to give decision thereon.

- vi. **Work** - “The work” shall mean the work to be executed or done under this contract.
- vii. **Act of Insolvency** - “Act of Insolvency” shall mean any act such as defined by the Presidency Towns Insolvency Act or in Provincial Insolvency Act or any amending statutes.
- viii. **The Schedule of Quantities** - “The Schedule of Quantities” shall mean the Schedule of Quantities as specified and forming part of this contract.
- ix. **Priced Schedule of Quantities** - “Priced Schedule of Quantities” shall mean the Schedule of Quantities duly priced with the accepted quoted rates of the Contractor.

2. SCOPE

The work consists of **Interior & Allied Works of Chandigarh Regional Office SBI LIFE Insurance Company Ltd.** at **# 144, Industrial Area- Ph-II, Chandigarh.** Broadly the

scope covers double skin wooden partitions, toughened glass partitions with Alexa hardware of Dorma, combination of polished wooden, Gyp board, and mineral fiber tile grid ceiling; office work stations, factory manufactured office chairs, steel storage optimizers/compactors, internal electrical installation comprising distribution panels, DBs, conduiting, cabling, wiring, modular switches, electrical fittings, fans, networking, fire detection and fire alarm system.

3. TENDERERS SHALL VISIT THE SITE

Intending tenderers shall visit the site and make himself thoroughly acquainted with the local site condition, nature and special requirements of this work, facilities/feasibility of transport conditions. Effective labour and materials, access and storage for materials and removal of rubbish. Please note the exterior and common areas such as staircases, lifts etc. are fully finished and as such would require protection from injury while carrying material to various floors of the building.

4. TENDERS

The entire set of Tender Document issued to the tenderers should be submitted fully priced and also signed on the last page together with initials on every page. Initial/signature will indicate the acceptance of the Tender Documents by the tenderers. (Also see para-11 of the General Rules and Instruction for guidance of Tenderers).

The schedule of quantities shall be filled in as follows

- i. The 'Rate' column to be legibly filled in ink in both English figures and English words.
- ii. Amount column to be filled in for each item and the amount for each subhead as detailed in the 'Schedule of Quantities'.
- iii. All corrections/overwriting are to be initialed with the seal of the Firm.
- iv. The "Rate Column" for alternative items shall be filled up.
- v. The 'Amount' column for alternative items of which the quantities are not mentioned, shall not be filled up.
- vi. In Case of any errors/omissions in the quoted rates, the rates given in the tender marked 'original' shall be taken as the correct rates.

No modifications, writings or corrections can be made in the tender papers by the tenderer, but may at his option offer his comments or modifications in a separate sheet of paper attached to the original tender papers.

The Employer reserves the right to reject the lowest or any tender and also to discharge any or all of the tenders for each section or to split up and distribute any item of work to any specialist firm or firms, without assigning any reason.

The tenderers should note that the tender is strictly of the item rate basis and their attention is drawn to the fact that the rates for each and every item should be correct, workable and self supporting. If called upon by the Architects/Consultants detailed analysis of any or all the rates shall be submitted. The Architects/Consultants shall not be bound to recognize the Contractor's analysis.

The work will be paid for as 'measured work' on the basis of actual work done and not as "lumpsum" contract.

All items of work described in the Schedule of Quantities are to be deemed and paid as complete work in all respects and details including preparatory and finishing work involved, directly, related to and reasonably detectable from the drawings, Specifications and Schedule of Quantities and no further extra charges will be allowed in this connection.

The employers have power to add to, omit from any work as shown in drawings or described in specifications or included in schedule of quantities and intimate the same in writing but no addition, omission or variation shall be made by the Contractor without authorization from the Architects/Consultants. No variation shall vitiate the contract.

5. AGREEMENT

The successful Contractor shall sign the agreement as per draft agreement annexed within 30 days from the date of issue of formal Work Order and he shall pay for all stamp duties and legal expenses, incidental thereto. However, the written acceptance of the tender by the Employer will constitute a binding contract between the Employer and the person so tendering whether such formal agreement is or is not subsequently executed.

6. GOVERNMENT AND LOCAL RULES

The Contractor shall conform to the provisions of all local Byelaws and Acts relating to the work and to the Regulations etc. of the Government and Local Authorities and of any company with whose system the proposed work is supposed to be connected. The Contractor shall give all notices required by the said Act, Rules, Regulations and Byelaws etc and pay all fees payable to such authority/authorities for execution of the work involved. The cost, if any, shall be deemed to have been included in his quoted rates, taking into account all liabilities for licenses, fees for footpath encroachment and restorations etc. and shall indemnify the Employer against such liabilities and shall defend all actions arising from such claims or liabilities.

7. TAXES AND DUTIES

The tenderers must include in their tender prices quoted for all duties, royalties, access, excise, sales tax, work contract sales tax, service tax or any other taxes or local charges.

8. QUANTITY OF WORK TO BE EXECUTED

The quantities shown in the Schedule of Quantities are intended to cover the entire Interior and Allied Work indicated in the drawings but the Employer reserves the right to execute only a part or the whole or any excess thereof without assigning any reason thereof.

9. OTHER PERSONS ENGAGED BY THE EMPLOYER

The employer reserves the right to execute any part of the work included in this contract or any work, which is not included in this contract by other Agency or persons and Contractor, shall allow all reasonable facilities and use of his scaffolding for the executions of such work.

10. EARNEST MONEY AND SECURITY DEPOSIT/ RETENTION MONEY

The tenderer will have to deposit an amount of **Rs.3,00,000/- (three lac)** by Bank Draft at the time of submission of tender as Earnest Money. The employer is not liable to pay any interest on the Earnest Money. The Earnest Money of the unsuccessful tenderers shall be refunded without any interest soon after the decision to award the work is taken or after the expiry of the validity period of the tender.

On acceptance of the tender the earnest money deposited by the successful tenderer will be converted as part of retention money. A sum representing 5% of the value of work of each Running Account Bill shall be deducted and kept with the employer as retention money. This deduction will commence after the amount of earnest money is covered. No interest will be payable on this Retention Money.

50% of the total Security Deposit will be refunded to the Contractor subject to the following

- i) Issue of virtual completion certificate by the Architect with concurrence of Employer.

- ii) Contractor should remove his materials, equipments, labour force etc. from the site.

The balance 50% shall be refunded to the Contractor 14 (fourteen) days after the end of 'Defect Liability Period' of 1 year provided he has satisfactorily carried out all the work, submitted all documents contractually called for and attended to all defects in accordance with the Conditions of the Contract. No interest is allowed on Security Deposit/Retention Money. The Architects/Consultants' certificate for refund of balance Security Deposit/Retention Money shall be necessary.

Further, if some dues to the employer from the Contractor have still to be recovered, the employer reserves the right to withhold payment of so much of the Security Deposit/ Retention Money, as in his opinion, represents the cost of the same.

11. CONTRACTOR TO PROVIDE EVERYTHING NECESSARY

The Contractor shall provide everything necessary for the proper execution of the work according to the intent and meaning of the Drawings, Schedule of Quantities and Specifications taken together whether the same may or may not be particularly shown or described therein provided that the same can reasonably be inferred therefrom and if the Contractor finds any discrepancies therein he shall immediately and in writing refer the same to the Employer or Architects/Consultants whose decision shall be final and binding.

The rates quoted against individual items will be inclusive of everything necessary to complete the said items of work within the contemplation of the contract, and beyond the unit price no extra payment will be allowed for incidental or contingent work, labour and/or materials inclusive of all taxes and duties whatsoever except for specific items, if any stipulated in the tender document.

The Contractor shall supply, fix and maintain at his own cost, for the execution of any work, all tools, tackles, machineries and equipments and all the necessary centering, scaffolding staging, planking, timbering, strutting, shoring, pumping, fencing, boarding, watching and lighting by night.

The quoted rates of the tenderers shall accordingly include all these above-mentioned contingent work.

12. TIME OF COMPLETION, EXTENSION OF TIME AND PROGRESS CHART

- a) Time of Completion: ninety (90) days

The entire work is to be, completed in all respects within the stipulated period. The work shall be deemed to be commenced within 7 (Seven) days from the date of work order. Time is the essence of the contract and shall be strictly observed by the Contractor.

The work shall not be considered as complete until the Employer or Architects/Consultants have certified in writing that this has been completed and the Defects Liability Period shall commence from the date of such certificate.

- b) Extension of Time

If in the opinion of the Employer or Architects/Consultants the work be delayed (a) by reason of any exceptionally inclement weather, or (b) by reason of authorized extra additions to agreed scope of work or (c) from other causes which the Employer or Architects/Consultants may consider are beyond the control of the Contractor, the Employer or Architects/Consultants before the completion of the time allowed for the contract shall make fair and reasonable extension of time for completion in respect thereof.

In case of strikes or lock-outs, the Contractor shall, immediately give the Employer or Architects/Consultants, written notice thereof. Nevertheless, the Contractor shall use his best endeavors to prevent delay, and shall do all that may be reasonably required, to the satisfaction of the Employer or Architects/Consultants to proceed with the work and on his doing so that it will be ground of consideration by the Employer or Architects/Consultants for an extension of time as above provided. The decision of the Employer as to the period to be allowed for an extension of time for completion hereunder (which decision shall be final and binding on the Contractor) shall be promulgated at the conclusion of such strike or lock-out and the Employer shall then, in the event of extension being granted, determine and declare the final completion date. The provision in Clause 15 with respect to payment of liquidated damages shall in such case, be read and construed as if the extended date fixed by the Employer were substituted for and the damage shall be deducted accordingly.

Hindrance Register shall be maintained and proper record of hindrances arisen and solved with the dates to be recorded in the register by the contractor SBI Life Insurance Company's Engineer, Architect's Site Engineer and Contractor's authorized representative so that extension of time limit to granted can be derived from the register, and recommended by the Architect and approved by the Bank's competent authority.

c) Progress of Work/Work programme

During the period of construction the Contractor shall maintain proportionate progress on the basis of a Programme Chart submitted by the Contractor immediately before commencement of work and agreed to by the Employer/Architect. Contractor should also include planning for procurement for scarce material well in advance and reflect the same in the Programme Chart so that there is no delay in completion of the project.

Contractor shall maintain the following registers at site

- i) Work force including supervisory staff, skilled and unskilled manpower.
- ii) Site Instruction Book in triplicate with printed page nos.

13. LIQUIDATED DAMAGES

Should the work be not completed to the satisfaction of the Employer/Architect within the stipulated period the Contractor shall be bound to pay liquidated damages @ **Rs. 25000/- per day to the Employer of delay subject to a maximum of 10% of the accepted contract value.**

14. TOOLS, STORAGE OF MATERIALS, PROTECTIVE WORK AND SITE OFFICE REQUIREMENTS

The Contractor shall provide, fix up and maintain in approved position proper office accommodation for the Contractor's representative and staff, which offices shall be open at all reasonable hours to receive instructions notices or communications and clear away on completion of the work and make good all work disturbed.

All drawings maintained on the site are to be carefully mounted on boards of appropriate size and covered with a coat of approved varnish. They are to be protected from ravages of termites, ants, and other insects.

The Contractor shall provide at his own cost all artificial light required for the work and to enable other within contractors and sub-contractors to complete the work the specified time.

The Contractor shall provide a suitable temporary hut for the watchmen and clear away the same when no longer- required and to provide all necessary attendance, lights etc. required.

Tools

All tools, equipments and instruments as instructed by the Employer or Architects/Consultants and considered necessary for the work shall be provided by the Contractor for the due performance of this contract.

All measuring tapes shall be of steel and laser tapes and suitable scaffolding and ladders that may be required for safety while taking measurements shall be supplied by the Contractor.

The mistries and the supervisors on the work shall carry with them always a one metre or two metre steel tapes and a measuring tape of 30 metres, a spirit level, a plumb bob and a square and shall check the work to see that the work is being done according to the drawing and specifications. The Site Engineer will use any or all measuring instruments or tools belonging to the contractors as he chooses for checking the work executed or being executed on the contract. The Contractor should cover in his rates for making provisions for all reasonable facilities for the use of his scaffolding, tools and plant etc. by sub-contractors for their work.

15. ACCESS

Any authorized representative of the Employer or Architects/Consultants shall at all reasonable times have free access to the work and/or to the workshops, factories or other places where materials are being prepared or constructed for the work and also to any place where the materials are lying or from where they are being obtained, and the Contractor shall give every facility to the bank or their representatives necessary for inspection and examination and test of the materials and workmanship. Except the representatives of the Employer and Architect no person shall be allowed at any time without the written permission of the Employer.

16. MATERIALS, WORKMANSHIP, SAMPLES, TESTING OF MATERIALS

All the work specified and provided for in the specifications or which may be required to be done in order to Perform and, complete any part thereof shall be executed in the best and most workmanship like manner with materials of the best and 'approved quality of the respective kinds in accordance with the particulars contained in and implied by the specifications and as represented by the drawings or according to such other additional particulars, and instructions as may from time to time be given by the Employer or Architects/Consultants during the execution of the work, and to their entire satisfaction.

If required by the Employer or Architects/Consultants, the Contractor shall have to carry out tests on materials and workmanship in approved material testing laboratories or as prescribed by Employer or Architects/Consultants at his own cost to prove that the materials etc. under test conform to the relevant IS Standards or as specified in the specifications. No extra payment on this account should be in any case be entertained.

A list of materials of approved make and brand is annexed of the approved brands, one with ISI mark shall be given preference, over the others. In case of alternative products suggested in the list, the product which will be preferred by the Employer or Architects/Consultants shall be used by the Contractor.

All the materials (except where otherwise described) stores and equipment required for the full performance of the work under the contract must be provided through normal channels and must include charges for all duties, sales tax, octroi and other charges legally payable and must be the best of their kind available and the Contractor must be entirely responsible for the proper and efficient carrying out of the work. The work must be done in the best workmanship like manner. Samples of all materials to be used must be submitted to the Employer or Architects/Consultants when so directed by the Architects/Consultants and written approval from Employer or Architects/Consultants must be obtained prior to placement of order.

17. REMOVAL OF IMPROPER WORK

The Employer or Architects/Consultants shall during the progress of the work have power to order in writing from time to time the removal from the work within such reasonable time or times as may be specified in the order of any materials which in the opinion of the Employer or Architects/Consultants are not in accordance with specifications or instructions, the substitutions or proper re-execution of any work executed with materials or workmanship not in accordance with the drawing and specifications or instructions. In case the Contractor refuses to comply with the order the Employer or Architects/Consultants shall have the power to employ and pay other agencies to carry out the work and all expenses consequent thereon or incidental thereto as certified by the Employer or Architects/Consultants shall be borne by the Contractor or may be deducted from any money due to or that may become due to the Contractor. No certificate which may be given by the Architect shall; relieve the Contractor from his liability in respect of sound work or bad materials.

18. SITE ENGINEER

The term site Engineer shall mean the person appointed and paid by the Architects/Consultants to superintend the work. The Contractor shall afford the Site Engineer every facility and assistance for examining of the work and materials and for checking and measuring work and materials. The Site Engineer shall have no power to revoke, alter, enlarge or relax any requirements of the contract or to sanction any day work, additions, alternations, deviations or omission or any extra work whatever, except in so far as such authority may be specially conferred by a written order of the Employer or Architects/Consultants.

The Site Engineer shall have power to give notice to the Contractor or to his foreman of non-approval of any work or materials and such work shall be suspended or the use of such materials shall be discontinued until the decision of the Employer or Architects/Consultants is obtained. The work will from time to time be examined by the Architects/Consultants, and the Site Engineer. But such examination shall not in any way exonerate the Contractor from the obligation to remove any defects which may be found to exist at any stage of the work or after the same is complete. Subject to the limitations of this clause the Contractor shall take instructions only from the Employer or Architects/Consultants.

19. CONTRACTORS EMPLOYEES

The Contractor shall employ technically qualified and competent supervisors for the work who shall be available (by turn) throughout the working hours to receive and comply with instructions of the Employer or Architects/Consultants. The Contractor shall engage at least one experienced Engineer as Site-in-Charge for execution of the work. The Contractor shall employ in connection with the work persons having the appropriate skill or ability to perform their job efficiently. It is expected that the following technically qualified staff will be provided by the contractor, which is considered as the minimum essential requirement for the execution of the project. Contractors should confirm to the same and agree to deduction from his/their bills, in case of fault, an amount against each of the requirement as the tender for the work includes the provisions for personnel also.

The Contractor shall employ local labourers on the work as far as possible.

No Labourer below the age of sixteen years and who is not an Indian National shall be employed on the work.

Any Labourer supplied by the Contractor to be engaged on the work on day-work basis either wholly or partly under the direct order or control of the Employer or his representative shall be deemed to be a person employed by the Contractor.

The Contractor shall comply with the provisions of all labour legislation including the requirements of –

- a. The Payment of Wages Act
- b. Employer's Liability Act
- c. Workmen's compensation Act
- d. Contract Labour (Regulation and Abolition) Act, 1970 and Central Rules 1971
- e. Apprentices Act 1901
- f. Any other Act or enactment relating thereto and rules framed there under from time to time.

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

20. DISMISSAL OF WORKMEN

The Contractor shall on the request of the Employer or Architects/Consultants instantaneously dismiss from work any person employed thereon by him, who may in the opinion of the Employer or Architects/Consultants unsuitable or incompetent or who may misconduct himself. Such discharge shall not be the basis of any claim for compensation or damages against the Employer or Architects/Consultants or any of their officer or employee.

21. ASSIGNMENT

The whole of the work 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 or interest therein nor, shall take a new partner, without written consent of the Employer and no subletting shall relieve the Contractor from the full and entire responsibility of the contract or from active superintendence of the work during their progress.

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

The Contractor shall obtain a policy covering under Workmen compensation Act, a third party insurance as well as any other insurance and indemnify the Employer entirely from all responsibility in this respect. The insurance must be placed with a company approved by the Employer and must be effected jointly in the name of the Contractor and the Employer and the policy lodged with the latter. The scope of, insurance is to include damage or loss to the contract itself till this is made over in complete state.

Insurance is compulsory and must be affected from the very initial stage. The Contractor shall also be responsible for anything, which may be excluded from damage to any property arising out of incidents, negligence or defective carrying out of this contract.

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

22. INSURANCES - All risk Insurance Policy and Workman's Compensation Policy.

Unless otherwise instructed the Contractor shall insure the work and keep the insured until the virtual completion of the contract against loss or damage by fire and/or earthquake, flood or damages from whatever cause by an all Risk Insurance policy for 125% of the value of the contract and workmen's compensation policy of adequate value. The insurance must be placed with a company approved by the Employer, in the joint names of the Employer and the Contractor

for such amount and for any further sum if called upon to do so by the Employer, the premium of such further sum being allowed to the Contractor as an authorize extra.

The Contractor shall deposit the policy and receipt for premiums paid with the Employer within 21(twenty one) days from the date of issue of Work Order unless otherwise instructed. In default of the Contractor insuring as provided above, the Employer on his behalf may so insure and shall deduct the premiums paid from any money due, or which 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 Insurance Company should they elect to do so, proceed with due diligence with the completion of work in the same manner as though the fire has not occurred and in all respects under the conditions of the contract. The Contractor in case of rebinding or reinstatement after fire shall be entitled to extension of time for completion as the Employer may deem fit.

23. MEASUREMENTS

Before taking any measurement of any work, Architects/Consultants or a subordinate deputed by him shall give reasonable notice to the Contractor. If the Contractor fails to attend at the measurements after such notice or fails to countersign or to record the difference within a week from the date of measurement in the manner required by Architects/Consultants then in any, such event the measurements taken by Architects/Consultants or by the Subordinate deputed by them as the case may be is final and binding on the Contractor and the Contractor shall have no right to dispute the same.

24. PAYMENTS

- a) Running Account Bills shall be raised by the Contractor accompanied by detailed measurement sheets and supporting drawings for the ease of checking. Value of such Running Account Bills shall not be less than 50,00,000/- (fifty lac) and periodicity of such bills shall not be

less than fifteen(15) days. RA Bills shall be checked, verified and recommended for adhoc payment of 70% of the face value of such bills by Architects/Consultants to the Employer within three(3) days of submission by the contractor. The Employer shall release the 70% adhoc payment within thirty (30) days of submission of RA Bills. RA Bills shall be cumulative bills and similarly 70% adhoc payment shall be recommended of the cumulative Running Account Bills after deducting previous RA payments, TDS, Retention Money etc. ; shall be released in the manner mentioned in the foregoing lines.

- b) **FINAL PAYMENT**

The final bill complete in all respects comprising measurement sheets, as-built drawings, virtual completion certificate ; shall be submitted by the contractor within thirty (30) days of virtual completion and the same shall be honoured within ninety (90) days of its submission.

- c) The Employer or Architects/Consultants reserves the right to withhold in part or full payment of Running Bill or Final Bill in case of non-completion/violation of any of our terms and conditions mentioned in the agreement, non-payment shall not result in abandoning the work and no extension of time will be granted on this account and no interest payable on the payment withheld/due.

25. VARIATION/DEVIATION

The Contractor may, when authorized and shall, when directed in writing by the Employer or Architects/Consultants add and or omit, or vary the work shown in the Drawings or described in the Specifications or included in the Priced Schedule of Quantities. The Contractor on his own accord shall make no addition, omission or variation without such authorization or direction. A verbal authorization or direction by the Employer or Architects/Consultants shall when confirmed correctly by the Contractor in writing within 3 days shall be deemed to have been given in writing.

The price of all such additional/non-tendered items will be worked out on the basis of rates quoted for similar items in the contract wherever existing or on engineering rate analysis based on prevalent fair price of labour, materials at site of work including wastage plus 10% towards Contractor's profit, supervision, overhead etc. The tender rates shall hold good for any increase or decrease in tender quantities.

26. SUBSTITUTION

Should the Contractor desire to substitute any materials and workmanship, he/they must obtain the approval of the Employer or Architects/Consultants in writing for any such substitution well in advance. For materials designated in this specification by such term as "Equal" or "Other approved" etc. specific approval of the Employer or Architects/Consultants has to be obtained in writing.

27. PREPARATION OF PREMISES FOR OCCUPATION AND USE UPON VIRTUAL COMPLETION

The whole of the work will be thoroughly inspected by the Contractor and deficiencies and defects set right, shall inform the Architects/Consultants that the work has completed and it is ready for inspection.

On completion, the Contractor shall clean all windows doors including cleaning and oiling, if necessary, of all hardware, inside & outside, all floors, staircases and every part of the premises and shall leave the entire building neat and clean ready for immediate occupation to the satisfaction of the Employer or Architects/Consultants.

28. DEFECTS AFTER COMPLETION

Contractor shall make good at his own cost and to the satisfaction of the Employer or Architects/Consultants all defects, shrinkage, settlements or other faults, which may appear within 12 months after completion of the work and considered as the 'defect liability period'. In default the Employer may employ and pay other persons to amend and make good such damages, losses and expenses consequent thereon 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, in lieu of such amending and making good by the Contractor, deduct from any money due to the Contractor a sum equivalent to the cost of amending such work and in the event of the amount retained being insufficient recover that balance from the Contractor from the amount retained under Clause No.12 together with any expenses the Employer may have incurred in connection therewith.

29. CONCEALED WORK

The Contractor shall give due notice to the Employer or Architects/Consultants whenever any work is to be buried in the floor, concrete or in the bodies of walls or otherwise becoming inaccessible later on in order that the work may be inspected and correct dimensions taken before such burial, in default whereof the same shall, at the opinion of the Employer or Architects/Consultants be either opened up for measurement at the Contractor's expense or no payment may be made for such materials. Should any dispute or difference arise after the execution of any work as to measurements etc or other matters which cannot be conveniently tested or checked, the notes of the Employer or Architects/Consultants shall be accepted as correct and binding on the Contractor.

30. ESCALATION

The rates quoted shall be firm throughout the tenure of the contract (including extension of time, if any, granted) and shall not be subject to any fluctuation due to increase in cost of materials. labour, sales tax, octroi, etc. unless specifically provided in these documents.

31. IDLE LABOUR

Whatever the reasons may be, no claim for idle labour, additional establishment cost of hire and labour charges of tools and plants would be entertained under any circumstances.

32. SUSPENSION OF WORK

If the Contractor except on account of any legal restraint upon the Employer preventing the continuance of the work, in the opinion of the Employer 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, the Employer shall have the power to give notice in writing to the Contractor requiring the work be proceeded within a reasonable manner and with reasonable dispatch, such notices purport to be a notice under this Clause. After such notice shall have been given, the Contractor shall not be at liberty to remove from the site of the work or from any ground contiguous thereto, any plant or materials to subsist from the date of such notice being given until the notice shall have been complied with. If the Contractor shall fail for 7 (seven) days after such notice has been given to proceed with the work as therein prescribed, the Employer may proceed as provided in Clause 44 (Termination of Contract by the Employer).

33. TERMINATION OF CONTRACT BY EMPLOYER

If the Contractor being a company go into liquidation whether voluntary or compulsory or being a firm shall be dissolved or being an individual shall be adjudicated insolvent or shall make an assignment or a composition for the benefit of the greater part, in number of amount of his creditors or shall enter into a Deed or arrangement with his creditors or if the official Assignee in insolvency or the Receiver of the Contractor in insolvency, shall repudiate the contractor if a Receiver of the Contractor's firm appointed by the court shall be unable, within fourteen days after notice to him requiring him to do so, to show to the reasonable satisfaction of the employer that he is able to carry out and fulfill the contract and if so required by the employer to give reasonable security there for, or if the Contractor shall suffer execution to be issued or shall suffer any payment under this contract to be attached by or on behalf of and of the creditors of the Contractor, or shall assign, charge over encumber this contract or any payments due or which may become due to the Contractor, thereunder, or shall neglect or fail to observe and perform all or any of the acts matters of things by this contract, to be observed and performed by the Contractor within three clear days after the notice shall have been given to the Contractor in manner hereinafter mentioned requiring the Contractor to observe or perform the same or shall use improper materials or workmanship in carrying on the work, or shall in the opinion of the employer not exercise such due diligence and make such due progress *as* Would enable the work to be completed within due time agreed upon, and shall fail to proceed to the satisfaction of the employer after three clear days notice requiring the Contractor so to do shall have been given to the Contractor as hereinafter mentioned, or shall abandon the contract, then and in any of the said cases, the bank may notwithstanding previous waiver determine the contract by a notice in-writing to the effect as hereinafter mentioned, but without thereby affecting the powers of the employer of the obligations and liabilities of the Contractor the whole of which shall continue in force as fully as if the contract had not been so determined and as if the work subsequently executed had been executed by or on behalf of the Contractor (without thereby creating any trust in favor of the Contractor) further the employer or his agent, or servants, may enter upon and take possession of the work and all plants, tools, scaffolding, sheds, machinery, steam and other power, utensils and materials lying upon premises or the adjoining lands or roads and sell the same as his own property or may employ the same by means of his own servants and workmen in carrying on and completing the work or by employing any other contractors or other persons or person to complete the work, and the Contractor shall not in any way interrupt or do any act, matter or thing to prevent or hinder such other contractors or other persons or person employed from completing and finishing or using the materials and plants for the work when the work shall be completed, or as soon thereafter as conveniently may be the employer shall give notice in writing to the Contractor to remove his surplus materials and plants and should the Contractor fail to do so within a period of 14 days after receipt by his the employer may sell the same by Public Auction and shall give credit to the Contractor for the amount so realized. Any

expenses or losses incurred by the employer in getting the work carried out by other contractors shall be adjusted against the amount payable to the Contractor by way of selling his tools and plants or due on account of work carried out by the Contractor prior to engaging other contractors or against the Security Deposit.

34. **ARBITRATION**

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

If the contractor considers that he is entitled to any extra payment or compensation in respect of the works over and above the amounts admitted as payable by the Architects/Consultants 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

- i) **The Regional Director, SBI Life Insurance Company Ltd., Regional Office, SCO 109-110, 3rd Floor Sector –17B, Chandigarh. – 160 0173** and endorse a copy of the same to the Architects/Consultants 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 have been given by the contractor to the **The Regional Director, SBI Life Insurance Company Ltd., Regional Office, SCO 109-110, 3rd Floor Sector –17B, Chandigarh** in the manner and within the time as aforesaid. The contractor shall be deemed to have waived and extinguished all his rights in respect of any claim not notified to the **The Regional Director, SBI Life Insurance Company Ltd., Regional Office, SCO 109-110, 3rd Floor Sector –17B, Chandigarh** in writing in the manner and within the time aforesaid.
- ii) **The Regional Director, SBI Life Insurance Company Ltd., Regional Office, SCO 109-110, 3rd Floor Sector –17B, Chandigarh** 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 **Regional Director, SBI Life Insurance Company Ltd., Regional Office, SCO 109-110, 3rd Floor Sector –17B, Chandigarh** submit his claims to the conciliating authority for conciliation along with all details and copies of correspondence exchanged between him and the **The Regional Director, SBI Life Insurance Company Ltd.,**
- iii) If the conciliation proceedings are terminated without settlement of the disputes, the contractor shall, within a period of 30 days of termination thereof shall give a notice to the **concerned authority of the SBI LIFE for appointment** of an arbitrator to adjudicate the notified claims failing which the claims of the contractor shall be deemed to have been considered absolutely barred and waived.
- iv) Except where the decision has become final, binding and conclusive in terms of the contract, all disputes or differences arising out of the notified claims of the contractor as aforesaid and all claims of the bank shall be referred for adjudication through arbitration by the sole arbitrator appointed by the concerned authority. 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 concerned authority of SBI LIFE. 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 his contract that the party invoking arbitration shall give a list of disputes with the amounts claimed in respect of each disputes 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 SBI LIFE's concerned authority as aforesaid should act as arbitrator.

The conciliation and arbitration shall be conducted in accordance with the provisions of the arbitration and conciliation act 1996 or any statutory modification(s) or re-enactment thereof and the rules made there under.

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

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

SECTION - VIII

List of Approved Makes – Civil, Public Health, Interior Furnishing Components

<u>No.</u>	<u>Description</u>	<u>Make/Brand</u>	<u>Remarks</u>
1.0	Teakwood (Tectonia Grandis)		Teakwood shall mean first class C.P.teakwood (Sagwan). Individual hard and sound knot shall not be more than 12mm. in diameter and the aggregate area of all the knots shall not exceed one-half percent of the area of the piece. It shall be close grained.
2.0	Plywood and Boards	Archid/Kit/Duro/Sonear / Century/Green BWR with IS Code	Plywood shall be formed by three or more layers of veneer glued and hot pressed together with the grain of adjacent veneers running at right angles to each other. The veneers for all grades shall be either rotary cut or sliced. The thickness of all veneers shall be uniform within a tolerance of +5%. Corresponding veneers on either side of the centre shall be of the same thickness and species. In a 3 ply-board up to 6mm. thick, the combined thickness of the face veneers shall not exceed twice the thickness of centre ply. In a multi-ply board, the thickness of any veneer shall not be more than thrice the thickness of any other veneer.
3.0	Laminate	Marino/Veer/Formica/ Greenlam/Duro	Laminate should be 1.5mm thick with suede finish.
4.0	Natural Veneer	Century/Duro (Sharda Plywood Industries)	
5.0	Adhesive	Fevicol	
6.0	Fibre board	Cellotex	
7.0	Gypsum board	Saint-Gobain/USG Boral	
8.0	Fabric	Nirmal/U-Like/ Fabindia	
9.0	Plastic emulsion paint	Dulux /Asian/ICI (ISI make)	
10.0	Wood polish	Melamine as per color scheme	
11.0	Vertical Roller Blinds	Vista Levolor / Mac Blinds.	
12.0	Glass	Modi Float Glass / Tata Asahi/ Saint Gobain	
13.0	Drawer Channels	Flyrail/Earl Bihari/Godrej	
14.0	Cup off hinges	Ebco	

15.0	Brass hinges and Flora fittings.	
16.0	Locks	Godrej
17.0	Door closer	Doorking/Everite
18.0	Chairs	Godrej/Featherlite/ Hoff

List of Approved Makes – Electrical Components

<u>Items</u>	<u>Approved Makes</u>
PVC Insulated / copper wires 650V grade conforming to IS : 694/1977. (FRLS)	Polycab/ havells/ KEI/ Finolex
PVC conduit pipe (ISI marked)	AKG/ BEC/ Steel Kraits/ Diplast/ Norpack
Switches and sockets, Call bells, Bell push and control boxes etc.	MK/ Legrand / Schneider
MCCB, MCB & DBs	Legrand/ Havells/ Schneider
ELCB/RCCB	Havells/ MDS/ Legrand/ Schneider
Telephone outlet sockets/computers	Delink/ Legrand / Schneider
Telephone Wires	Delton/ National/ Finolex/ Skytone.
G.I. Pipe for Earthing	Tata/ Gujarat/ Steel tube/ Jindal
Chemical Earthing	OBO Betterman/ Unistrut/ OBO Furse/ ERICO
PVC Armoured cable	CCI/ KEI/Havells/Polycab
Exhaust Fans	GEC/Crompton / Havells/ Almonard
Big Decorative Ceiling Fans (80“)	Delmaror/ Kruger/ Wolter
Wall Fans	GEC/Crompton / Havells/ Almonard
LED Luminaires	Philips/Wipro/Light Technologies/GE
Metal Raceways	MK/ Schneider/ Legrand / OBO Betterman

BILL OF QUANTITIES: CIVIL & INTERIOR FURNISHING

S No.	Description of Item	Unit	Qty.	Rate	Amount
A	Civil Work				
1	Dismantling Brick work and RCC work including disposal of malba from site to MC or contractor's own dump. The work shall be completed in all respects to the entire satisfaction of the Engineer / Architect.	Cft	370		
2	BRICK WORK				
	Half Brick work with 1:4 cement mortar including 15mm thick (1:4) cement plaster on both sides	Sft	221		
3	PLASTIC EMULSION PAINT				
	Painting false ceiling and walls with three (3) coats of plastic emulsion paint after proper surface preparation as per manufacturers recommendation and specifications.	Sft	960		
4	FLOORING & SKIRTING - VITRIFIED TILES				
	Providing and laying vitrified floor tiles (Basic rate 65-70/sft) with ready to fix branded adhesive in floor and skirting as per design pattern including filling depressions in floor level, preparing of surface, wherever required & disposal of malba from site to MC or contractor's own dump including removal of door shutter / chowkhat and refixing of same after making it of required size. The work shall be completed in all respects to the entire satisfaction of the Engineer / Architect.	Sft.	18147		
5	FLOORING - GRANITE				
	Providing and fixing Flamed Granite of approved shade, over 20 mm (average) thick base of cement mortar 1:4 (1 cement: 4 coarse sand) laid and jointed with pigment of matching shade slurry.	Sft.	256		
6	GRANITE OVER COUNTER				
	Providing and fixing Granite above R.C.C counter, over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with pigment of matching shade. The item includes R.C.C work also.	Sft.	30		
7	FLOORING – CERAMIC TILES				
	Providing and laying antiskid group (iv) Ceramic floor tiles 300 mm X 300 mm (basic rate 45-50/sft) and skirting of Kajaria / Johnson make or equivalent in Kajaria / Johnson as directed by Bank's Engineer / Architect laid on 20 mm. thick base of adhesive of 1st quality like Pidilite or equivalent including pointing the joints with white cement and matching pigments etc., The work / rate shall be inclusive of skirting and required filling depressions in floor level, preparing of surface etc. if required including disposal of malba from site to MC or contractor's own dump including removal of door shutter / chowkhat and refixing of same after making it of required size. The work shall be completed in all respects to the entire satisfaction of the Engineer / Architect.	Sft.	48		

8	WALL TILES - CERAMIC TILES				
	Ceramic glazed tiles 300 mm X 450 mm (Kajaria / Johnson)(basic rate 45-50/sft) of approved design, shade, size and thickness in dado on 12 mm. thick cement plaster 1: 3 in base and jointed with white cement slurry in joints including beveled corners. The work / rate shall be inclusive of borders, motifs & as per pattern of the company and dismantling of the old terrazzo / plaster / tile work etc. in dado or skirting and removing the old dismantled material to an from site to MC or contractor's own dump including removal of door shutter / chowkhat and refixing of same after making it of required size. The work shall be completed in all respects to the entire satisfaction of the Engineer / Architect.	Sft.	273		
10	WATER CLOSET				
	Providing and fixing water closet of Roca (Giralda RS346467460 + RA80P467001) or similar model of Kohler /Toto with 100mm sand cast Iron P or S trap with all fittings and fixtures complete including cutting and making good the walls and floors wherever required.	Each	1		
11	CONCELED CISTERN				
	Providing and fixing Concealed cistern of Roca slendra with CP square knob push plate - (RA890031410 + RA8900450CI) or similar model of Kohler/Grohe as per approval with all fittings and fixings complete including cutting and making good the walls and floors wherever required	Each	1		
12	WASH BASIN				
	Proving and fixing LAV basin of ROCA Diverta square basin 50 x50 cm (RS 327451000) or similar model of kohler/toto with 75mmdiasand castIron P or S trap with all fittings and fixings complete including cutting and making good the walls and floors wherever required	Each	1		
13	URINAL				
	Providing and fixing Urinal of Roca chic back inlet (RS35945J000) or similar model of Kohler/Toto with 75mm dia sand cast Iron P or S trap with all fittings and fixtures complete including cutting and making good the walls and floors wherever required	Each	1		
14	PILLAR COCK				
	Providing and fixing Pillar Cock (code KUB- 35001F) of Jaquar make or equivalent with all fittings and fixtures complete including cutting and making good the walls and floors wherever required	Each	1		
15	SOAP DISH				
	Providing and fixing Soap Dish (AKP - 1131 N)of Jaquar make or equivalent with all fittings and fixtures complete including cutting and making good the walls and floors wherever required	Each	1		

16	BIB COCK				
	Providing and fixing C.P. brass bib cock (Code KUB - 35037) of Jaquar with complete CP brass flange for WC 15 mm nominal bore CP brass short body bib cock.	Each	1		
17	FLOOR TRAPS				
	Providing and fixing PVC floor traps conforming to I.S.I. specifications of reputed firm of the self cleaning design with C.P. brass hinged grating with frame with or without vent arm and including cement concrete 1: 2: 4 under and around the floor trap where required up to floor level complete in all respects including cutting and making good the walls and floors, etc. minimum depth of water should be 150 mm. with a minimum seal 50 mm with 75 mm. I / d outlet.	Each	2		
18	ANGLE COCK				
	Providing and fixing C.P. angle cock (Cat. No. -053) of Jaquar with complete CP brass flange.	Each	2		
	15 mm nominal bore CP brass angle cock.				
19	MIRROR				
	Providing and fixing 600 x 450 mm beveled edge mirror 5.5 mm thk. of superior glass (Atul / Saint Gobbin) complete with 6 mm thk. hard board ground fixed to wooden cleats with C.P. brass screws, washers, clips etc. & sample to be got approved from Architect.	Each	15		
20	TOWEL RAIL				
	Providing and fixing in position towel rail (Cat. No. ACN - 1111NM) of Jaquar fixed with rawl plugs embedded In walls with C.P. brass screws, complete in all respects including cutting and making good the walls etc. single towel rail 600 mm. long.	Each	15		
21	Providing and fixing PVC pipe with all accessories socket, tee, elbow, nipple etc				
	75mm nominal dia	Rft	57		
	100mm nominal dia	Rft	57		
22	Providing and fixing GI PIPE with all accessories socket, tee, elbow, nipple etc				
	20 mm nominal outer dia Pipes	Rft	57		
	25 mm nominal outer dia Pipes	Rft	57		

B	Interior / Furnishing work				
1	FALSE CEILING - (MINERAL FIBRE ARMSTRONG / DAIKEN GRID TILE OF DAIKEN CORPORATION JAPAN)				
	<p>Providing and fixing false ceiling at all heights, made of 600 mm X 600 mm X 16 mm Armstrong Clasic lite Cortega RH 99, or equivalents in Daiken mineral fibre ceiling tiles of type – Fine Fissured, Tegular edge, laid on Armstrong / equivalent exposed grid systems. The framework comprises of main runner spaced at 1200 mm c/c, securely fixed to the structural soffit by approved hangers of spacing not more than 1200 mm c/c. Hangers (G.I. wire of 4 mm dia.) to be fixed by approved rawl plugs, level adjusters & screws etc. The last hanger at end of each main runner should not be more than 450 mm from the adjacent wall. Flush fitting 1200 mm long Cross T's (with double stitching) to be interlocked between main runners at 600 mm c/c to form 1200 mm X 600 mm modules. Cut cross T's longer than 600 mm to be supported independently. 600 mm X 600 mm modules to be formed by fitting 600 mm long flush fitting cross T's centrally between the 1200 mm Cross T's. The rates shall be inclusive of making opening with frame etc. for electrical / air conditioner & finishing of ceiling in all respect, the work includes provision of trap door if required.</p>	Sft.	4474		
2	FALSE CEILING WITH STEPS. - GYPSUM BOARD				
	<p>Providing and fixing suspended false ceiling (as per specification of manufacture) including steps as per design with 12.5 mm tapered edge Gyp-board / 12 mm thick Elephant Gypsum Board to the grid comprising of cold rolled galvanized metal section to the required line and level. The grid consists of a perimeter channel (MF6a of dimensions 20 mm X 27 mm X 37 mm X 3.5 M) fixed round the perimeter to receive and of the ceiling section (MF5) and the outer edges to gyp-board. The intermediate channel (MF7 of dimensions 15 mm X 45 mm X 0.9 mm X 3.6 M) at 1200 mm c/c in the one direction and the ceiling section (MF5 of dimensions 80 mm X 26 mm X 0.5 mm X 3.6 M) at 450 mm c/c in the other direction are connected by a connecting clip (MF9). The grid is suspended with an adjustable strap hanger (MF8) of dimensions 25 mm X 0.5 mm at 1200 mm c/c on both ways from the structural soffit using a soffit cleat and expandable bolts / fasteners Nut and bolts are used to connect strap hangers to soffit cleats and for joining ends of channel sections together. The gypsum board layers are screwed to the M/F ceiling sections with gyp-board drywall screws. Jointing and screw spotting are then carried out as per manufacturer's standard recommendations. Perimeter Channels (MF7) to be used around the cut outs for light fittings. A/C ducting etc. The work should be complete as per instructions of Architect or Engineer in charge. The rates should be inclusive of two or more coats of plastic emulsion over a coat of primer to give an even shade. The rate should be inclusive of making opening with frame etc. for electrical / air conditioner, A.C. grills & trap door etc. if required & finishing of ceiling in all respect.</p>	Sft.	11215		

3	FALSE CEILING				
	Wooden Ceiling				
	<p>Providing and fixing 4mm thick (5 ply) decorative veneer (confirming to IS : 1328) as per sample approved by Architect / Engineer-in-charge over 12mm thick commercial ply (confirming to IS 303) over GI craddling work to the grid comprising of cold rolled galvanized metal section to the required line and level. The grid consists of a perimeter channel (MF6a of dimensions 20 mm X 27 mm X 37 mm X 3.5 M) fixed round the perimeter to receive and of the ceiling section (MF5). The intermediate channel (MF7 of dimensions 15 mm X 45 mm X 0.9 mm X 3.6 M) at 1200 mm c/c in the one direction and the ceiling section (MF5 of dimensions 80 mm X 26 mm X 0.5 mm X 3.6 M) at 450 mm c/c in the other direction are connected by a connecting clip (MF9). The grid is suspended with an adjustable strap hanger (MF8) of dimensions 25 mm X 0.5 mm at 1200 mm c/c on both ways from the structural soffit using a soffit cleat and expandable bolts / fasteners Nut and bolts are used to connect strap hangers to soffit cleats and for joining ends of channel sections together. 12mm thick commercial ply shall be screwed to the M/F ceiling sections drywall screws.Perimeter Channels (MF7) to be used around the cut outs for light fittings. A/C ducting etc. The work should be complete as per instructions of Architect or Engineer in charge. decorative veneer shall be finished with melamine polish as per specifications. 9" x 4.5" hollow wooden beams made of 12mm thick commercial ply wood and 4mm thick decorative veneer shall be fixed to veneered ceiling @ 4'-0" c/c as per drawing. Complete item including wooden beams and decorative veneered ceiling shall be paid on per sft basis - flat area of the ceiling without the surface area of beams.</p>	Sft	1764		
4	SPECIFICATION OF FIRE RATED GYPSUM DRY WALL				
	<p>102 mm thk. Gypsteel Ultra stud partition which includes one layer of tapered edge 15 mm thk. Gyproc fire line (conforming to IS 2095 – 1996 part I) is screw fixed with drywall screws of 25mm at 300mm centre to either side of 70mm Gypsteel Ultra stud (0.5mm thk. Having one flange of 34mm and another flange of 36mm made of GI steel) placed at 610mm centre to centre in 72mm gypsteel ultra floor and ceiling channel (0.5mm thk. having equal flanges of 32mm made of GI steel), which is anchored to the floor & true ceiling using suitable anchor fasteners or metal screws with pvc plugs. The boards are to be fixed to the framework with joints staggered to avoid leakage through joints. A gypsteel fixing channel of 99mm width (0.9mm thk. Having two flanges of 9.5mm each) has to be provided at the horizontal joints of the two boards screw fixed to 9.5mm each) has to be provided at the horizontal joints of the two boards screw fixed to the studs using metal to metal that head screws. Finally square and tapered edges of the boards are to be jointed and finished so as to have a flush look which includes filling and finishing with gyproc jointing compound. Gyproc joint paper tape and two coats of Drywall. Top coat (as per recommended practices of saint – gobain Gyproc India). 50mm glasswool slab of density 32Kg/m3 shall be placed in cavity. Fireline of saint Gobain.</p>	Sft	417		

5	UNDER DECK INSULATION				
	Under-deck insulation should be done with glasswool having 48 Kg/m ³ density and 70 mm thickness suitably installed so that the overall Thermal transmittance or U-value should be less than 0.409 W/sq.m.K to conform ECBC-2007's requirement. The insulation should conform to non-combustibility, Class-P(not easily ignitable), Class 1(surface spread of flame NIL), and Class 'O' rating as per BS 476 standards.	Sft	3062		
6	140.5mm WOODEN PARTITIONS - 10'-6" HIGH				
	Providing and fixing 147.5mm thick double skin wooden partitions made out of 4mm thick decorative veneer (Green,Sonear, Century,) over 12mm thick commercial ply (Green ply/ Sonear/ Century) on both sides over aluminium frame of size 101.5 x 44.5 mm @ 2'-0" c/c vertically & horizontally up to 10'-6" height .The aluminium frame shall be fixed rigidly to floor as well as to structural slab with rawl plugs up to 14'-0" height (please note aluminium frame work @ 2'-0" c/c both ways shall run full 14'-0" height i.e. up to underside of structural slab) . The agency shall be paid for the visible part of the partition i.e. up to 10'-6". Accordingly the agency is advised to take into account the cost of invisible aluminium frame while working out the unit rate of the partition. All exposed teak / sapele wood shall be melamine polish after proper surface preparation as per manufacturer's specifications and to the entire satisfaction of Architect / Engineer-in-charge.	Sft	210		
7	82mm WOODEN PARTITIONS - 10'-6" HIGH				
	Providing and fixing 82mm thick double skin wooden partitions made out of 4mm thick decorative veneer (Green,Sonear, Century) over 12mm thick commercial ply (Green ply/ Sonear/ Century) on both sides over aluminium frame of size 50 x 50 mm @ 2'-0" c/c vertically & horizontally up to 14'-0" height (please note aluminium frame work @ 2'-0" c/c both ways shall run full 14'-0" height i.e. up to underside of structural slab) . The agency shall be paid for the visible part of the partition i.e. up to 10'-6". Accordingly the agency is advised to take into account the cost of invisible aluminium frame while working out the unit rate of the partition. The aluminium frame shall be fixed rigidly to floor as well as to structural slab with rawl plugs. Work also includes providing and fixing of door as per drawing and specifications. All exposed teak / sapele wood shall be melamine polish after proper surface preparation as per manufacturer's specifications and to the entire satisfaction of Architect / Engineer-in-charge.	Sft	1745		

8	82mm WOODEN PARTITIONS - 4'-6" HIGH (OPAQUE UP TO 2'-9" + 12 mm GLASS 1'-9" HIGH)				
	Providing and fixing 82mm thick double skin wooden partitions made out of 4mm thick decorative veneer (Green,Sonear, Century) over 12mm thick commercial ply (Green ply/ Sonear/ Century) on both sides over 50 X 50 mm aluminium frame @ 2'-0" c/c vertically & horizontally up to 4'-6" Height.The aluminium frame shall be fixed rigidly to floor with rawl plugs. All exposed teak / sapele wood shall be melamine polish after proper surface preparation as per manufacturer's specifications and to the entire satisfaction of Architect / Engineer-in-charge	Sft	808		
9	82mm WOODEN PARTITIONS- 4'-6" HIGH				
	Providing and fixing 82mm thick double skin wooden partitions made out of 4mm thick decorative veneer (Green,Sonear, Century) over 12mm thick commercial ply (Green ply/ Sonear/ Century) on both sides over 50 X 50 mm aluminium frame @ 2'-0" c/c vertically & horizontally up to 4'-6" Height.The aluminium frame shall be fixed rigidly to floor with rawl plugs. All exposed teak / sapele wood shall be melamine polish after proper surface preparation as per manufacturer's specifications and to the entire satisfaction of Architect / Engineer-in-charge	Sft	1766		
10	12mm THICK TOUGHENED GLASS TABLE TOP PARTITION				
	Providing and fixing 12mm thick clear glass fixed to table top and vertical wooden partition with the help of DORMA L - connectors.	Sft	306		
11	82mm WOODEN PARTITIONS - 10'-6" HIGH (OPAQUE UP TO 3'-0" + 12 mm GLASS 7'-6" HIGH)				
	Providing and fixing 82mm thick double skin wooden partitions made out of 4mm thick decorative veneer (Green, Century) over 12mm thick commercial ply (Green ply/ Sonear/ Century) on both sides up to 3'0" height and 12 mm thick glass 7'-6" high with frost film as per design fixed with stainless steel glass holders at bottom and side with top surface free over aluminium frame of size 50 x 50 mm @ 2'-0" c/c vertically & horizontally.The aluminium frame shall be fixed rigidly to floor as well as to false ceiling with rawl plugs up to 10'-6" height. All exposed teak / sapele wood shall be melamine polish after proper surface preparation as per manufacturer's specifications and to the entire satisfaction of Architect / Engineer-in-charge.	Sft	1382		

12	147.5 mm WOODEN INSULATED PARTITION - 10'-6" HIGH				
	Providing and fixing 147.5mm thick double skin wooden partitions made out of 4mm thick decorative veneer (Green,Sonear, Century,) over 12mm thick commercial ply (Green ply/ Sonear/ Century) on both sides over aluminium frame of size 101.5 x 44.5 mm @ 2'-0" c/c vertically & horizontally and 50 mm thick and 24 kg/cum density fibre glass wool wrapped in polyethene in the form of 2'-0" x 2'-0" panels fixed in between the aluminium frame. The aluminium frame shall be fixed rigidly to floor as well as to structural slab with rawl plugs up to 14'-0" height (please note aluminium frame work @ 2'-0" c/c both ways shall run full 14'-0" height i.e. up to underside of structural slab) . The agency shall be paid for the visible part of the partition i.e. up to 10'-6". Accordingly the agency is advised to take into account the cost of invisible aluminium frame while working out the unit rate of the partition. All exposed teak / sapele wood shall be melamine polish after proper surface preparation as per manufacturer's specifications and to the entire satisfaction of Architect / Engineer-in-charge.	Sft	1352		
13	WALL PANELLING				
	Providing and fixing wooden panelling comprising 4mm thick decorative veneer over 18mm thick commercial ply of Green/Sonear/Uniply fixed with gutties over existing plastered walls, veneer finished in melamine polish as per pattern given in the drawing or as per specifications and directions of Architect / Engineer-in-Charge including cost of polishing.	Sft	1350		
14	FIRE RESISTANT DOOR				
	Providing and fixing fire resistant door frame of section 143 x 57 mm having built in rebate made out of 16 SWG G.I. sheet (zinc coating not less than 120 gM/sqm) duly filled with vermiculite based concrete mix, suitable for mounting 60 minutes fire rated door shutters. The frame is fitted with intumescent fire seal strip of size 10x4 mm (minimum) around the frame and fixing with dash fastener of approved size and make, including pplying a coat of approved brand fire resistant primer etc. complete as per direction of Engineer-in-charge (Dash fastener to be paid for separately).	Rft	50		
15	Providing and fixing 50 mm thick glazed fire resistant door shutters of 60 minutes fire rating conforming to IS:3614 (Part-II), tested and certified as per laboratory approved by Engineer-in-charge, with suitable mounting on door frame, consisting of vertical styles, lock rail, top rail 100 mm wide, bottom rail 200 mm wide, made out of 16 SWG G.I.sheet (zinc coating not less than 120 gm/m2) duly filled FR insulation material and fixing with necessary stainless steel ball bearing hinges of approved make, including applying a coat of approved fire resistant primer etc. all complete as per direction of Engineer-in-charge (panneling to be paid for separately).	Sft	72		

16	Providing and fixing glazing in fire resistant door shutters, fixed panels, ventilators and partitions etc., with G.I. beading of appropriate size, made out of 20 SWG G.I.sheet (zinc coating not less than 120 gm/m ²), fire resistant sealant, including applying a coat of approved fire resistant primer on G.I. beading etc., complete all as per direction of Engineer-in-charge.				
	With clear fire resistant glass panes 6mm thick of approved brand, having minimum 60 minutes fire resistance	Sft	56		
17	Providing and fixing panic bar / latch (Double point) fitted with a single body, Trim Latch & Lock on back side of the Panic Latch of reputed brand and manufacture to be approved by the Engineer- in- charge, all complete.	Each	3		
18	TOILET DOOR				
	Providing and Fixing Doors including wooden frames and flush shutters laminated with decorative veneer in recommended pattern finished with malamine polish including premium quality hardware and fittings.	Sft	17		
19	FIXED GLASS PARTITION				
	Providing and fixing of Dorma Alexa hardware for fixed Partition consists of MR28 WCP Glass Frame with Seals 3M Stock Length for 10mm Glass, H Type Alu Profile, 2950mm for 10mm Glass, T' Profile seals, 3000mm for 10mm Glass, 90° Profile small with seals for 10mm Glass JP 50 , Stock Length=3000mm, MR28 Corner Connectors, MR28/AT50 Corner Connectors (Fix Partition Height 3000mm) along with 10mm Plain Toughened Glass and installation charges.	Sft.	1551		
20	1000mm WIDE GLASS DOORS				
	Providing and fixing of Dorma Alexa Door Hardware for Door panels consists of AT50 Fabricated Frames with Seals & Corner Connectors, Junior Office Hinge for frame pivot, complete with sleeve and BB, Screw-on Frame Portion, Junior Office with BB, Screws for Frame Portion, Junior Office, M4 X 15, CSK Star Head, Studio - Gala, locks adjustable, prepared for profile cylinder, Studio - Gala, lever handles, Studio - Strike plate, Euro profile cylinder, TS 89 Door Closer with Slide Channel, Universal Saddle Plate (Door Panel Area 1000 x 2400mm) along with 10mm Plain Toughened Glass (with cutouts & Holes Charges) & installation charges.	Each	13		

21	1200mm WIDE GLASS DOORS				
	Providing and fixing of Dorma Alexa Door Hardware for Door panels consists of AT50 Fabricated Frames with Seals & Corner Connectors, Junior Office Hinge for frame pivot, complete with sleeve and BB, Screw-on Frame Portion, Junior Office with BB, Screws for Frame Portion, Junior Office, M4 X 15, CSK Star Head, Studio - Gala, locks adjustable, prepared for profile cylinder, Studio - Gala, lever handles, Studio - Strike plate, Euro profile cylinder, TS 89 Door Closer with Slide Channel, Universal Saddle Plate (Door Panel Area 1200 x 2400mm) along with 10mm Plain Toughened Glass (with cutouts & Holes Charges) & installation charges.	Each	9		
22	OFFICERS' & STAFF TABLES				
A	Providing and Fixing of table fabricated out of 18mm/12mm/ 6mm thick commercial ply (green/century/sonar/Duro/Kit/Archid), having 18 mm thick commercial ply table top laminated with 1.5mm thick laminate (greenlam/Duro/Formica/Veer/Marino) and 3mm thick teak/sapele wood lipping made to shape as per drawing & to be finished in malamine with keyboard drawer made of 1mm thick laminate over 12mm thick commercial ply and 1" X 1/2" teakwood edging made to shape. The drawers shall be fitted with drawer slides, handles, locks etc., shutters shall be fitted with self closing hinges, (Haeffle make) ball catchers, handles(Neiki make-brushed S.S finish) locks of approved make. Storage unit fabricated out of 18mm thick commercial ply finished with 1mm thick laminate of approved make & shade on internal surfaces, all exposed edges shall be lipped with 1/4" thick teak / sapele wood lipping and (Haeffle make) ball catchers. External vertical surfaces of storage units as well as tables shall have 1.5 mm thick laminate.				
	T1 (size 5'-0"x2'-9"x2'-6") with side credenza (size 4'-6" x 1'-4" x 2'-3")	Each	8		
B					
	T2 (Size 4'6" X 2'9" X 2'6") with side credenza (size 4'-6" x 1'-4" x 2'-3")	Each	24		
C					
	T3(Size 4'6" X 2'9" X 2'6")	Each	13		
D					
	Reception Tables 4'-0" X 2'-6" on First, Second,Third and Fourth Floor	Each	4		
E					
	Workstations (size 4'-6" x 2'-3")	Each	106		

23	MAIN RECEPTION TABLE				
	Providing and fixing of Reception Table R1 - 10'-0" X3'-3" fabricated out of 18mm/ 12mm/ 6mm thick commercial ply (green/century/ sonar/Duro/Kit/Archid), with top made of 19mm thick granite (raw silk pink) over 19mm thick commercial ply with power and data outlet points and adequate provision for storage by way of drawers and shuttered storage with multipurpose locks of godrej/ harrison/ plaza complete in all respect as per drawing to be manufactured strictly as per drawings.	Each	1		
24	OPTIMIZERS				
	Body shall be each of size 915 Width x 457 Depth & 1980 Height. body should be made of Rigid Welded construction out of 0.8 thick cold rolled cold annealed steel confirming IS:513 Gr.D. Each unit should have 5 loading levels formed by 4 nos adjustable shelves. Body units should be bolted to undercarriage. The bodies including shelves should be given antirust surface treatment & shall be powder coated with epoxy polyester powder. It should be done in 8 step treatment consisting of Hot water rinse, knock of degreasing, degreasing, cold water rinse, phosphating, cold water rinse, and passivation & dry off oven treatment. Final finish shall consist of epoxy polyester powder coating of approved color & shade with Dry Film Thickness of min 40 microns. The back panel shall be made up of single sheet. shelf should be made up of 0.8 mm thick cold rolled cold annealed steel confirming to IS:513 Gr.D or DD. Shelves should be mounted on support brackets & should have provision of adjustment at 25.4 pitches. There should be 4 shelves per body giving 5 loading levels. undercarriage should be a welded frame made of HR sheet 3.15 mm thick conforming to IS:10748. It should be coated with final finish of epoxy polyester powder coating with DFT of min 40 microns after pre-treatment. Sizes of the undercarriages are Single Static/ Last body-915mm W x (no of bays), 457mm D x 65mm Ht. Twin Mobile – 915mm W x (No of bays), 915mm Depth x 65mm Ht. Movement of compactors shall be achieved mechanically through a PU drive wheel & sprocket chain tension arrangement mounted rigidly onto body side & it should be provided with 2 Rollers on the shaft for driving, 2 antifriction ball bearing for rolling & 4 antifriction ball bearing for guiding between rail. The drive arrangement should be covered by 1mm thick HR sheet cover fixed onto body side occupying additional space of 74.5mm. The PU drive wheel should be fixed at suitable height on body side & projects out of cover by another 99mm. fixed units should also have covers but without wheels. Central lock should be provided through locking stiffener mounted onto back of single movable unit so that it gets locked on channels when all the units are brought together. The handle lock should be placed at suitable height. all drive units should have locking knob near the drive wheel for manual locking of individual units when a person is using those units. End stoppers should be provided at the end of the channels to prevent derailment. All the nuts & bolts used should be galvanized / blackodized / Zn plated. Channel should consists of 'J' section 2mm thick HR sheet & 25mm square bright bar both connected by screws. The height of the rail or guiding channel shall be				

	35mm. The Embedding of the guide channels shall be done with the help of raWl plug & screws. Label holder should be fixed on the body made of transparent acrylic. Preferred make for Optimizers will be ALMERIO "by RH Mechatronics"				
	Single Static (S.S)	Each	4		
	Single Last (S.L)	Each	4		
	Twin Mobile (T.L)	Each	20		
25	BACK CREDENZA / BACK / SIDE STORAGE CABINETS				
	Providing and placing Storage ST - 1'-6" X 6'-0" X 2'-3" (H) fabricated out of 18mm/ 12mm/ 6mm thick commercial ply (green/century/ sonear/Duro/Kit/Archid), 3"X1" teak wood skirting, shelves made of 18mm thick commercial ply complete in all respect as per drawing, storage shall comprise of 2 rows of filing drawers, drawers shall be fitted with drawer slides, handles, locks etc., (Haeffle make) ball catchers, handles(Neiki make-brushed S.S finish) locks of approved make, external exposed surfaces shall be finished with 1.5mm thick laminate and all internal surfaces and back with 1.0mm thick laminate.				
		Rft	300		
26	7'-6" HIGH STORAGE UNITS				
	Providing and placing Storage ST1 - 1'-6" X 6'-0" X 7'-6" (H) fabricated out of 18mm/ 12mm/ 6mm thick commercial ply (green/century/ sonear/Duro/Kit/Archid), 3"X1" teak wood skirting, shelves made of 18mm thick commercial ply complete in all respect as per drawing, storage shall comprise of 2 rows of filing drawers and shuttered storage above two rows of drawers, drawers shall be fitted with drawer slides, handles, locks etc., shutters shall be fitted with self closing hinges, (Haeffle make) ball catchers, handles(Neiki make-brushed S.S finish) locks of approved make, external exposed surfaces shall be finished with 1.5mm thick laminate and all internal surfaces and back with 1.0mm thick laminate. Storage unit fabricated out of 18mm thick commercial ply finished with 1mm thick laminate of approved make & shade on internal surfaces, all exposed edges shall be lipped with 1/4" thick teak / sapele wood lipping and (Haeffle make) ball catchers. External exposed surfaces shall be finished with 1.5 mm thick laminate and all internal surfaces and back with 1.0mm thick laminate.				
		Rft	39		

27	CONFERENCE TABLE				
	Providing and fixing 32'-0" X 9'-6" Conference table fabricated out of 18mm/ 12mm/ 6mm thick commercial ply (green/century/ sonear/Duro/Kit/Archid), with table top having power and data outlet provisions, finished in 4 mm thick decorative veneer in recommended pattern over premium quality 18mm thick commercial ply with teak / sapele wood edging made to shape as per drawing finished in melamine polish and shall be supported on two (2) conical support pillars made out of raw wood frame and flexi- ply fixed to achieve proper geometry finished in 4.0 mm thick veneer.	Each	1		
28	DISCUSSION TABLE				
	Providing and placing Discussion Table of size 8'-0" X 3'-6" fabricated out of 18mm/ 12mm/ 6mm thick commercial ply (green/century/ sonear/Duro/Kit/Archid), with table top and data outlet provisions, finished in 1.5 mm thick laminate in recommended pattern over premium quality 18mm thick commercial ply (Green - Marine Grade Ply/Sonear/Century) with teak / sapele wood edging made to shape as per drawing and shall be supported on two (2) conical supports made out of raw wood frame and flaxy- ply (Green Marine Grade Ply/ Sonear /Century) fixed to achieve proper geometry finished in 1.5 mm thick laminate.	Each	2		
29	SIDE TABLES				
	PISA Centre table should be combination of Stainless steel & glass. Top surface shall be of glass which shall be 12 + 0.3mm thick black tinted toughened glass UV glued with bushes made in SS-202 grade for fixing with understructure. Understructure shall be a welded assembly made from SS-202 grade having dia. 12 + 0.04 as per IS:1762. Overall dimensions of table shall be, Width of table- 60cm, Depth-60cm, Height-35.1cm	Each	11		
30	CENTRE TABLES				
	PISA Centre table should be combination of Stainless steel & glass. Top surface shall be of glass which shall be 12 + 0.3mm thick black tinted toughened glass UV glued with bushes made in SS-202 grade for fixing with understructure. Understructure shall be a welded assembly made from SS-202 grade having dia. 12 + 0.04 as per IS:1762. Overall dimensions of table shall be, Width of table- 112cm, Depth-60cm, Height-35.1cm	Each	4		
31	DIRECTOR TABLE				
	Providing and fixing AXIOM Executive table of GODREJ make with overall size 1880 x 1800 x 750 : main desk size 1600 x 800 x 750 mm, ERU size 1800 x 480 x 622 mm Back unit 1604 x 396 x 1236 mm, and storage unit 800 x 450 x 800mm	Each	1		

32	SOFAS				
	The seat and Back is made of PU Foam Density 32-45 Kg/Cm. mtr having an additional top layer of PU Foam density 28 Kg/Cu. Seat is upholstered with fabric not less than Rs 250/mts. Understructure is made of 1.2cm thick hot pressed plywood measured as per QA method. Dia 4mm Zig Zag spring assembly is mounted in understructure for support and additional cushioning purpose. Leg assembly is made up of Stainless Steel tube & plate. Overall Dimension: 146cm (W) x 92cm (D) x 82cm (H), manufacturing tolerance $\pm 5\%$ acceptable. It shall carry 5 year guarantee and be a BIFMA certified product and manufacturing in a green IGBC Certified manufacturing company.				
	1 - SEATER	Each	4		
	2 - SEATER	Each	8		
	3 - SEATER	Each	7		
33	STAFF VISITOR CHAIR				
	Providing and placing static visitor chairs .The dimensions of seat should be- 51.0cm(W) x 48.0cm(D) and of back shall be 48.0cm(W) x 76.0cm(H). The seat shall be made up of 1.2+/-0.1cm thick hot pressed plywood and upholstered with fabric or fire retardant synthetic leather and moulded polyurethane foam. The back shall be made up 1.2+/-0.1cm thick hot pressed plywood upholstered with replaceable fabric or synthetic leather upholstery covers and moulded polyurethane foam/ mesh back. The moulded polyurethane foam shall be of density [45-55]+/-2kg/m ³ , and hardness load 16+/-2kgf as per IS:7888 for 25% compression. The armrest top shall be made of moulded polyurethane and mounted on to a fixed type M.S tubular armrest support chrome plated. The backrest shall consist of a fixed type mechanism i.e no back up/down adjustment. The pedestal shall be fabricated from 0.2+/-0.02cm thick HR sheet, chrome plated and assembled with injection moulded black polypropylene hub cap. Chairs shall carry 5 year guarantee and be a BIFMA certified product and manufacturing in a green IGBC Certified manufacturing company.	Each	63		
34	EXECUTIVE VISITOR CHAIR				
	Providing and placing static visitor chairs .The dimensions of seat should be- 51.0cm(W) x 48.0cm(D) and of back shall be 48.0cm(W) x 76.0cm(H). The seat shall be made up of 1.2+/-0.1cm thick hot pressed plywood and upholstered with fabric or fire retardant synthetic leather and moulded polyurethane foam. The back shall be made up 1.2+/-0.1cm thick hot pressed plywood upholstered with replaceable fabric or synthetic leather upholstery covers and moulded polyurethane foam/ mesh back. The moulded polyurethane foam shall be of density [45-55]+/-2kg/m ³ , and hardness load 16+/-2kgf as per IS:7888 for 25% compression. The armrest top shall be made of moulded polyurethane and mounted on to a fixed type M.S tubular armrest support chrome plated. The backrest shall consist of a fixed type mechanism i.e no back up/down adjustment. The pedestal shall be fabricated from 0.2+/-0.02cm thick HR sheet, chrome plated and assembled with injection moulded black polypropylene hub cap. Chairs shall carry 5 year guarantee and be a BIFMA certified product and manufacturing in a green IGBC Certified manufacturing company.	Each	4		

35	EXECUTIVE CHAIR				
	<p>Providing and placing revolving and tilting High back Executive Chair dimensions of seat shall be- 51.0cm(W) x 48.0cm(D) and of back shall be 48.0cm(W) x 76.0cm(H) with sliding seat depth mechanism. The seat shall be made up of 1.2+/-0.1cm thick hot pressed plywood and upholstered with fabric or fire retardant synthetic leather and moulded polyurethane foam. The back shall be made up 1.2+/-0.1cm thick hot pressed plywood upholstered with replaceable fabric or synthetic leather upholstery covers and moulded polyurethane foam/mesh back. The moulded polyurethane foam shall be of density [45-55] +/- 2kg/m³, and hardness load 16+/-2kgf as per IS:7888 for 25% compression. The armrest top shall be made of moulded polyurethane and mounted on to a drop lift height adjustable type M.S tubular armrest support chrome plated. The armrest height shall be adjustable up to 6.5+/-0.5cm in 5 steps and also has swivel adjustment of 22 degree+/-2 on both sides. The mechanism of the chair shall have following features : 360° revolving type, Knee tilt synchro mechanism, Tilt tension adjustment, Single point control, 4 position locking with anti shock feature, Seat depth adjustment of 6.0+/-0.5cm should be locked in 6 positions. The backrest shall consists of a sliding up down mechanism, Which can be adjusted in the range of 7.5+/-0.5cm and should be locked in 4 positions for correct position of lumbar support. The chair shall be provided with pneumatic height adjustment which shall have stroke of 9.0 +/- 0.3 cm. The pedestal shall be fabricated from 0.2+/-0.02cm thick HR sheet, chrome plated and assembled with injection moulded black polypropylene hub cap. The size of the pedestal shall be 66.0+/- 0.5 cm pitch-centre-dia (76.0 +/- 1.0 cm with castors). The twin wheel castors shall be made black nylon. Dimensions tolerance / variations shall be within +/- 1 cm. Chairs shall carry 5 year guarantee and be a BIFMA certified product and manufacturing in a green IGBC Certified manufacturing company.- (RD's Chair +Chairman's Chair in Conference Room)</p>	Each	2		
36	OFFICERS' CHAIRS				
	<p>Providing and placing Staff chair having dimensions of back shall be 47.5 cm(W) x 58.0 cm(H) and of seat shall be 47.0 cm (W) x 48.0 cm with sliding seat depth mechanism. The seat and back shall be made up of 1.2 ±0.1cm. thick hot-pressed plywood and upholstered with fire retardant fabric upholstery covers and moulded Polyurethane foam. The back foam should be designed with contoured lumbar support for extra comfort. The seat shall be extra thick foam on front edge to give comfort to popliteal area. The polyurethane foam should be moulded with density= [45-55]±2 kg/m³ and hardness load 16 ± 2 kgf as. per IS:7888 for 25% compression. The armrests of chair should be one piece which should be injection moulded from black Co.polymer Polypropylene. The mechanism shall be designed with 360° revolving type, Upright-position locking, Tilt tension adjustment, Seat/back tilting ratio of 1:3. The pneumatic height adjustment shall has an adjustment stroke of 12.0 ±0.3cm. The pedestal shall be injection moulded in black 33% glass-filled Nylon-66 and fitted with 5 nos. twin wheel castors. The pedestal shall be 66.3 ±0.5cm. pitch-center dia. (76.3 ±1.0cm with castors). The twin wheel castors shall be injection moulded in Black Nylon. Chairs shall carry 5 year guarantee and be a BIFMA certified product and manufacturing in a green IGBC Certified manufacturing company.</p>	Each	208		
	(Officers + Staff + Conference + Meeting Rooms)				

37	LUNCH LEDGE				
(i)	LUNCH LEDGE ON FIRST FLOOR				
	Providing and fixing 13'-0" long x 18" wide ledge made out of premium quality 18mm thick commercial ply (green/century/ sonear/Duro/Kit/Archid). The counter top shall have 19mm thick granite. The counter shall have drawers as per drawing with hettichh fittings. Teak / Sapele wood lipping will be provided on all the remaining edges of the counter with melamine polish.	Each	1		
(ii)	LUNCH LEDGE AND LUNCH TABLE ON SECOND FLOOR				
A	Providing and fixing 13'-9" long x 18" wide ledge made out of premium quality 18mm thick commercial ply (green/century/ sonear/Duro/Kit/Archid). The counter top shall have 19mm thick granite. The counter shall have drawers as per drawing with hettich fittings. Teak / Sapele wood lipping will be provided on all the remaining edges of the counter with melamine polish.	Each	1		
B	Providing and fixing 8'-6" long x 2'-9" wide table made out of premium quality 18mm thick commercial ply (green/century/ sonear/Duro/Kit/Archid). The counter top shall have 19mm thick granite. The counter shall have drawers as per drawing with hettich fittings. Teak / Sapele wood lipping will be provided on all the remaining edges of the counter with melamine polish.	Each	1		
(iii)	LUNCH TABLE ON THIRD FLOOR				
	Providing and fixing 6'-0" long x 2'-6" wide table made out of premium quality 18mm thick commercial ply (green/century/ sonear/Duro/Kit/Archid). The counter top shall have 19mm thick granite. The counter shall have drawers as per drawing with hettich fittings. Teak / Sapele wood lipping will be provided on all the remaining edges of the counter with melamine polish	Each	1		
38	HIGH STOOLS				
	Providing and placing 12" dia. Stools with cushioned seats mounted on SS pipe base.	Each	27		
39	TRAINING ROOM CHAIRS				
	Providing and placing "UNWIND" model GODREJ injection moulded seat and back with metal book tray.	Each	41		

40	ROLLER BLINDS				
	Providing and fixing Roller Blinds, with head rail and fabric connector with minimum gap of 6/8 mm with screen Fabric 79% PVC/ 21 % Polyester fabric openness factories 8% with thickness 0.50 mm (+/- 5%), with weight 400 g/m2 (+/- 10%) having Control Unit which consists of clutch mechanism of high strength reinforced plastic in a wrap spring design which are provided to transmit motion from the driven mechanism, where the clutch is operated directionally by use of endless beaded chain to raise or lower the blind smoothly to decide height; an idler which is a high strength reinforced plastic, consisting of an outside sleeve and centre shaft where the sleeve provides the bearing surface for the centre shaft and rotate freely, providing smooth, quiet and long wearing operation; an Aluminium handrail on which the control unit and idler are mounted with help of brackets along with an operating chain made of 4.5 mm plastic beads with a pitch of 6mm, molded on 2.2 mm thick polyester cord such that the chain drives the sprocket correspondence to the sprocket in perfect match for trouble free operation. Fixing brackets are used to fix the blinds to the wall and ceiling consisting of L-Bracket made up of mild steel with zinc plating having a thickness of 2mm and zinc plated clamps made up of spring steel with thickness of 0.5 mm along with Roller tubes which are made of high strength aluminium alloy extruded grooved tube which is powder coated or anodized, on which the fabric of the blind is attached. There will be a load bar fixed at the bottom of the fabric and the purpose of it is to keep the fabric in tension and straight is made up of extruded aluminium alloy with a groove for fixing the fabric using plastic where the ends are plugged using ABS end caps.	Sft	7508		
41	WRITE AND WIPE OFF BOARD				
	Providing and fixing 9mm thick lacquered glass write and wipe off board with edges grinded and polished fixed to the partition with 10mm SS studs including making of holes and cost of studs.	Sft	200		
42	PINUP BOARD				
	Providing and fixing 12mm thick celotax board with edges secured with 3mm thick raw wood lipping covered with fabric.	Sft	200		
Total of Civil and Interior Furnishing					

BILL OF QUANTITIES: ELECTRICAL, FIRE ALARM, AND NETWORKING

SCHEDULE - I (DSR ITEMS)						
Sr. No.	DSR no.	Description	Unit	Qty.	Rate	Amount
		-				
1	1.1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
	1.10.3	Group C	Point	571		
2	1.11	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.	Point	23		
3	1.12	1.12 Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit along with 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Mtr	700		
4	1.14	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
	1.14.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	Mtr	950.00		
	1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Mtr	1200		
	1.14.4	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	Mtr	180		
	1.14.9	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	Mtr	50.00		
	1.14.10	4 X 10 sq. mm + 2 X 6 sq. mm earth wire	Mtr	40		
	1.14.11	4 X 16 sq. mm + 2 X 6 sq. mm earth wire	Mtr	20		
5	1.18	Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.				

	1.18.2	2 Pair	Mtr	3500		
	1.18.3	4 Pair	Mtr	200		
6	1.21	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required				
	1.21.2	25 mm	Mtr	400		
	1.21.3	32 mm	Mtr	24.00		
	1.21.4	40 mm	Mtr	40		
7	1.24	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
	1.24.6	Telephone socket outlet Each	Each	181		
	1.24.7	TV antenna socket outlet	Each	1		
8	1.25	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	97.00		
9	1.26	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required	Each	25		
10	1.27	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc. as required.				
	1.27.1	1 or 2 Module (75 mmX75 mm)	Each	156		
11	1.31	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required	Each	81		
12	1.32	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 A & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	Each	37		
13	1.33	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required.	Each	29		
14	1.38	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	Each	13		

15	1.39	Providing and fixing plain 16/0.20 mm (0.50 sq.mm) twin flat flexible, FRLS PVC insulated, copper conductor cable, in PVC sleeve of suitable size on the floor/ wall, or side of the table/ door etc. as required	Each	450		
16	1.53	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required				
	1.53.1	1 run of cable	Mtr	3500		
	1.53.2	2 run of cable	Mtr	750		
	1.53.3	3 run of cable	Mtr	500		
17	1.55	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.				
	1.55.3	Group C	Point	79		
18	2.2	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.				
	2.2.13	100 A, 30kA, FPMCCB	Each	4		
	2.2.15	400 A, 50kA, FPMCCB	Each	1		
19	2.3	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
	2.3.1	6 way, Double door	Each	2		
	2.3.2	8 way, Double door	Each	1		
20	2.4	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/ Isolator)				
	2.4.1	4 way (4 + 12), Double door	Each	4		
	2.4.2	6 way (4 + 18), Double door	Each	6		
	2.4.3	8 way (4 + 24), Double door	Each	6		

21	2.5	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A, tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required. (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)				
	2.5.1	4 way (4 + 12), Double door	Each	1		
	2.5.2	8 way (4 + 24), Double door	Each	1		
22	2.10	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, “C” curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required				
	2.10.1	Single pole	Each	450		
	2.10.3	Double pole	Each	3		
	2.10.4	Triple pole	Each	12		
	2.10.5	Triple pole and neutral	Each	2		
23	2.11	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	15		
24	2.14	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	2.14.1	25 A	Each	2		
	2.14.2	40 A	Each	1		
	2.14.3	63 A	Each	1		
25	2.15	Supplying and fixing following rating, four pole, (three phase and neutral), 415 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	2.15.2	40 A	Each	6		
	2.15.3	63 A	Each	8		
26	2.18	Supplying and fixing 20 A, 240 V, SPN Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 A, “C” curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Each	15		

27	4.1	Supplying and installing following size of perforated painted with powder coating M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc. as required.				
	4.1.2	150 mm width X 50 mm depth X 1.6 mm thickness	Mtr	40		
28	4.2	Supplying and installing following size of perforated painted with powder coating M.S. cable trays bends with perforation not more than 17.5%, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc. as required.				
	4.2.2	150 mm width X 50 mm depth X 1.6 mm thickness	Each	4		
29	5.17	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing as required.	Mtr	240		
30	5.19	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required.	Mtr	180		
31	9.1	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required.				
	9.1.2	Size 10 Sqmm. x 2 Core Al. Armoured Cable	Each	8		
	9.1.20	Size 25 Sqmm. x 3.5 Core Al. Armoured Cable	Each	6		
	9.1.25	Size 120 Sqmm. x 3.5 Core Al. Armoured Cable	Each	8		
	9.1.27	Size 185 Sqmm. x 3.5 Core Al. Armoured Cable	Each	4		
	9.1.30	Size 300 Sqmm. x 3.5 Core Al. Armoured Cable	Each	4		
	9.1.32	Size 10 Sqmm. x 4 Core Al. Armoured Cable	Each	20		
	9.1.33	Size 16 Sqmm. x 4 Core Al. Armoured Cable	Each	8		
32	12.34	Supplying and fixing of 32 mm dia X 2.00 meter long G.I. pipe (medium class) bracket for mounting of fluorescent / HPMV / HPSV street light fitting on pole alike wall including bending the pipe to the required shape, 2 Nos. 40 mm X 3 mm flat iron clamps with nuts, bolts and washer, painting the flat iron with primer and finish paint etc. as required.	Each	4		

33	14.12	Providing and fixing 16 mm M.S. Fan clamps of standard shape and size in existing R.C.C. slab, including cutting chase, anchoring clamp to reinforcement bar, including cleaning, refilling, making good the chase with matching concrete, plastering and painting the exposed portion of the clamps complete. (CIVIL ITEM)	Each	97		
Total of Schedule I						

SCHEDULE -II (NS ITEMS)							
Sr.No.	DESCRIPTION			Unit	QTY	Rate	Amount
	MAIN ELECTRIC PANEL (TOP FLOOR MUMMTY)						
Ns1	Supply, installation, testing and commissioning of powder coated of Siemens Grey or of approved colour with seven tank process compartmentalized cubicle LT Panel fabricated out of 14/16 SWG thick CRCA sheet steel with 75 mm x 40 mm x 6mm channel iron base frame and suitable for operation on 415 volts, 50Hz, 3 Phase 4 wire AC supply including 1 no. digital voltmeter, ammeter with in built selector switch of required size CTs and control fuses and 3 nos phase LED indicating lamps with fuses. The panel shall be indoor free standing, floor mounting, dust and vermin proof type, adequate size cable alley with front operated rotary handles for MCCB's complete with gland plates, lifting hooks, ventilating louvers, busbars, Inter connections, earthing, labelling as per specification and drawings, suitable for termination of cables as per single line diagram including. supply and fixing of following switchgear .A separate earth Copper bus bar of size 25mm x 5mm to be provided throughout the length of the panel. As per Specification(Make of panel, Tricolite, Advance switchgear company, Amco, Kalyani switchgear). Note:-The cost of MCCB's are included in the panel cost			Jobwork	1		
	INCOMER						
	MCCB 630A.FP	1	No.				
	Spreader links	1	No.				
	Rotary handle	1	No.				
	Voltmeter with VSS	1	No.				
	Ammeter with ASS	1	No.				
	RYB Indication Lamp LED	3	Nos.				
	630/5Amp. 15 VA CL-1 Current Transformer	3	Nos.				
	06Amp. Control SP MCB	3	Nos.				
	CT Short Link	3	Nos.				
	Neutral Link	1	No.				
	OUTGOING						
	MCCB 400A.FP	2	Nos.				
	Spreader links	2	Nos.				
	Rotary handle	2	Nos.				
	MCCB 250A.FP	1	No.				
	Spreader links	1	No.				
	Rotary handle	1	No.				
	MCCB 200A.TP	1	No.				
	Spreader links	1	No.				
	Rotary handle	1	No.				
	Dummy	2	Nos.				
	ENCLOSURE & ACCESSORIES						

	Fabrication in 2mm.CRCA Sheet Powder Coating in Siemens Gray Shade, 75x40mm.Channel Base Frame, Cable Entry will be Top & Bottom Suitable for Cable ,Lock, Rubber Gasket, hardware etc.	1	job				
	BUS BAR & HARDWARE						
	800A. Aluminium Main Bus Bar,Load wise Sub Feeder Bus Bar Colour Coated Heat Shrink Bus Bar sleeve Nut-Bolt,Washer ,Hardware etc.	1	set				
	WIRING & ACCESSORIES						
	Power & Control Wiring will be (ISI 1100V) flamc smoke FRLS PVC Single Core Copper Wire,Copper Lugs, PVC Sleeve, Ferruels Numbers, Hardware & Labour etc.	1	job				
	AC PANEL ON TOP FLOOR MUMMTY						
Ns2	Supply, installation, testing and commissioning of powder coated of Siemens Grey or of approved colour with seven tank process compartmentalized cubicle LT Panel fabricated out of 14/16 SWG thick CRCA sheet steel with 75 mm x 40 mm x 6mm channel iron base frame and suitable for operation on 415 volts, 50Hz, 3 Phase 4 wire AC supply including 1 no. digital voltmeter, ammeter with in built selector switch of required size CTs and control fuses and 3 nos phase LED indicating lamps with fuses. The panel shall be indoor free standing, floor mounting, dust and vermin proof type, adequate size cable alley with front operated rotary handles for MCCB's complete with gland plates, lifting hooks, ventillating louvers, busbars, Inter connections, earthing, labelling as per specification and drawings, suitable for termination of cables as per single line diagram including. supply and fixing of following switchgear and phase sequence and contractors etc.A separate earth Copper bus bar of size 25mm x 5mm to be provided throughout the length of the panel. As per Specification(Make of panel, Tricolite, Advance switchgear company, Amco, Kalyani switchgear).Note:- The cost of MCCB's are included in the panel cost			Jobwork	1		
	A.C PANEL						
	INCOMER	1	No.				
	MCCB 400A.FP	1	Nos.				
	Spreader links	1	No.				
	Rotary handle	1	No.				
	Voltmeter with VSS	1	No.				
	Ammeter with ASS	1	No.				
	RYB Indication Lamp LED	3	Nos.				
	400/5Amp. 15 VA CL-1 Current Transformer	3	Nos.				
	06Amp. Control SP MCB	3	Nos.				
	CT Short Link	3	Nos.				
	Neutral Link	1	No.				
	Phase Sequence						
	Cont. 400A.	2	Nos.				

	UV/OV Relay	1	No.				
	OnDelay Timer	1	No.				
	Control MCB 6A.	1	No.				
	OUTGOING						
	MCCB 100A.FP	8	Nos.				
	Spreader links	8	Nos.				
	Rotary handle	8	Nos.				
	MCCB 100A.FP For Spare	2	Nos.				
	Spreader links	2	Nos.				
	Rotary handle	2	Nos.				
	MCB DP 40A	7	Nos.				
	MCB DP 32A	7	Nos.				
	MCB DP 25A	3	Nos.				
	ENCLOSURE & ACCESSORIES						
	Fabrication in 2mm.CRCA Sheet Powder Coating in Siemens Gray Shade, 75x40mm.Channel Base Frame, Cable Entry will be Top & Bottom Suitable for Cable ,Lock, Rubber Gasket, hardware etc.	1	job				
	BUS BAR & HARDWARE						
	500A. Aluminium Main Bus Bar,Load wise Sub Feeder Bus Bar Colour Coated Heat Shrink Bus Bar sleeve Nut-Bolt,Washer ,Hardware etc.	1	set				
	WIRING & ACCESSORIES						
	Power & Control Wiring will be (ISI 1100V) flamc smoke FRLS PVC Single Core Copper Wire,Copper Lugs, PVC Sleeve, Ferruels Numbers, Hardware & Labour etc.	1	job				

	CAPACITOR PANEL ON TOP FLOOR MUMMTY						
Ns3	Supply, installation, testing and commissioning of powder coated of Siemens Grey or of approved colour with seven tank process compartmentalized cubicle LT Panel fabricated out of 14/16 SWG thick CRCA sheet steel with 75 mm x 40 mm x 6mm channel iron base frame and suitable for operation on 415 volts, 50Hz, 3 Phase 4 wire AC supply including 1 no. digital voltmeter, ammeter with in built selector switch of required size CTs and control fuses and 3 nos phase LED indicating lamps with fuses. The panel shall be indoor free standing, floor mounting, dust and vermin proof type, adequate size cable alley with front operated rotary handles for MCCB's complete with gland plates, lifting hooks, ventilating louvers, busbars, Inter connections, earthing, labeling as per specification and drawings, suitable for termination of cables as per single line diagram including. supply and fixing of following switchgear .A separate earth Copper bus bar of size 25mm x 5mm to be provided throughout the length of the panel. As per Specification(Make of panel, Tricolite, Advance switchgear company, Amco, Kalyani switchgear). Note:-The cost of MCCB's are included in the panel cost			Jobwork	1		
	INCOMER						
	MCCB 200A. TP	1	No.				
	Spreader links	1	No.				
	Rotary handle	1	No.				
	Voltmeter with VSS	1	No.				
	Ammeter with ASS	1	No.				
	RYB Indication Lamp LED	3	Nos.				
	200/5Amp. 15 VA CL-1 Current Transformer	3	Nos.				
	06Amp. Control SP MCB	3	Nos.				
	CT Short Link	3	Nos.				
	Neutral Link	1	No.				
	OUTGOING						
	5Step APFC Relay	1	No.				
	Capacitors 80Kvar	80	Kvar				
	Exhaust Fan	1	No.				
	Capacitor Bank 20 KVAR = 4Nos.						
	MCB TP 50A.	4	Nos.				
	Capacitor Duty Contactors 20KVAR	4	Nos.				
	Control MCB 6A.	4	Nos.				
	ON/OFF Indicator	8	Nos.				
	ON /OFF Push Button.	8	Nos.				
	Auto Manual Switch.	4	Nos.				
	ENCLOSURE & ACCESSORIES						
	Fabrication in 2mm.CRCA Sheet Powder Coating in Siemens Gray Shade, 75x40mm.Channel Base Frame, Cable Entry will be Top & Bottom Suitable for Cable ,Lock, Rubber Gasket, hardware etc.	1	job				

	BUS BAR & HARDWARE						
	300A. Aluminium Main Bus Bar, Load wise Sub Feeder Bus Bar Colour Coated Heat Shrink Bus Bar sleeve Nut-Bolt, Washer, Hardware etc.	1	set				
	WIRING & ACCESSORIES						
	Power & Control Wiring will be (ISI 1100V) flame smoke FRLS PVC Single Core Copper Wire, Copper Lugs, PVC Sleeve, Ferruels Numbers, Hardware & Labour etc.	1	job				
Ns4	Supply, Erection, Testing & Commissioning of Computer outlet points with 3 x 5/6 Amp. 3-Pin modular Socket and 1 x 15/16 Amp. Switch(indicator type) including cost of GI box 8 module with modular base plate, Modular base plate & blanking plate etc. (but without internet point) with all petty material required to complete the job in all respect. Based on DSR			Each	2		
Ns5	Supply, Erection, Testing & Commissioning of Computer outlet points with 3 x 5/6 Amp. 3-Pin modular Socket and 1 x 15/16 Amp. Switch including cost of GI box 8 module with modular base plate, cover plate & blanking plate etc. (with internet point) with all petty material required to complete the job in all respect. Based on DSR			Each	335		
Ns6	Supply and fixing of DADO Trunking made of PVC-U material non- flame of size 100mm (H) x 50mm including cost of all accessories e.g. Cables dividers to make three compartments of voice/data and UPS including cost of cable dividers and cable retainer to avoid sagging of cables, external/flat/internal angle, Tee, Endcaps etc. as required to complete the job in all respect up to the entire satisfaction of the Engineer -in - charge.(Make - M.K., Schneider, Legrand, OBO Batterman)			Each	250		
Ns7	Supply and erection of Popup box with brush steel finish complete with 1 No. RJ 45 for data, 1 No. RJ-11 for Voice and two nos. 6 Amp socket outlet of UPS supply and including all petty material required to complete the job in all respect up to the entire satisfaction of the engineer-in-charge of the work. Model no. EDO 2BS of MK make or equivalent make of Schneider, Legrand, OBO Batterman			Each	6		
Ns8	Supply and erection of under ground cable ,loose in existing pipe or trenches complete with necessary connections to complete the job in all respect up to the entire satisfaction of Engineer in Charge of work. Make- KEI, Polycab, Havell's, CCI						
i	Size 10 Sqmm. x 2 Core Al. Armoured Cable			Mtr	70		
ii	Size 10 Sqmm. x 4 Core Al. Armoured Cable			Mtr	25		
iii	Size 16 Sqmm. x 4 Core Al. Armoured Cable			Mtr	130		
iv	Size 25 Sqmm. x 3.5 Core Al. Armoured Cable			Mtr	60		
v	Size 120 Sqmm. x 3.5 Core Al. Armoured Cable			Mtr	70		

vi	Size 185 Sqmm. x 3.5 Core Al. Armoured Cable	Mtr	25		
vii	Size 300 Sqmm. x 3.5 Core Al. Armoured Cable	Mtr	25		
Ns9	Supply and erection of under ground Copper cable ,loose in existing pipe or trenches complete with necessary connections to complete the job in all respect up to the entire satisfaction of Engineer in Charge of work. Make- KEI, Polycab, Havell's, CCI				
i	Size 10 Sqmm. x 4 Core Copper Armoured Cable	Each	80		
ii	Size 25 Sqmm. x 4 Core Copper Armoured Cable	Each	25		
Ns10	Supply and Erection of Fire Extinguisher ISI mark (Ajay make) CO2 type of 4.5 Kg. capacity as per IS 7285 duly erected / hang on wall with hooks with all labour and petty material required to complete the job in all respect up to the entire satisfaction of Engineer in Charge of work.	Each	5		
Ns11	Supply and Erection of MS angle iron bucket stand which include 6 Nos. fire bucket with 9 ltr. Capacity with stand filling including cost of welding and painting of complete stand & buckets with one coat of red oxide and two coats of approve paint of red color written with fire on the buckets as per fire protection with all labour and petty material required to complete the job in all respect up to the entire satisfaction of Engineer in Charge of work.	Each	2		
Ns12	Supply and Erection of Rubber Mat heavy duty of size 2m x 1m x 18mm thick suitable for 11 KV (ISI mark) complete in all respect.	Each	12		
Ns13	Supply and fixing in position approved shock treatment chart written in English, Hindi nd local language. These charts shall be framed in wooden frame and covered with clear glass.	Each	2		
Ns14	Supply and fixing in position the best quality danger notice boards of approved shape and size as required by the local electrical Inspecting Authority written in English, Hindi and local language. (For 440 Volt & 11000 Volts).	Each	1		
Ns15	Supply , Testing and Commissioning of dry powder type fire extinguisher type 4.5 Kg. capacity made of high pressure cylinder complete in all respect to be erected on existing walls by means hooks, clamps.	Each	4		
Ns16	Supply and enameled first aid box of approved make standard medicine complete as per Indian Electricity Act.	Each	2		

Ns17	Supplying and fixing of MS sheet board of size 500mm x 300mm of 16 SWG with 'Entry Restricted to Authorized Person Only' near the main entrance of the Sub- Station. The lettering shall be black painted on yellow base	Each	1		
Ns18	Supply and erection of sheet metal double door Power distribution boards T.P.& N. (Vertical Design) dust protected provided with copper bus bar dully tinned 200 Amp with provision of incomer MCCB 100 Amp. of 4 way and for mounting MCB's in the existing MCB distribution board as per requirement including connections with suitable size of thimbles and bonding to existing earth etc. (cost of MCCB's and MCB's are not included and shall be paid under separate head. It is further added that the make of MCBs and MCCBs should be the same make as of DB). Make:- Legrand, Siemens, Schneider.	Each	4		
Ns19	S/I/T/C of ECO series occupancy PIR sensor flush/surface AC 230 Volt 50Hz with time adjustment approx. 5 Second to 40 Min. ward up time about 1 Min. , protection degree IP-20, detection distance minimum 5 Mtr. Radius including cost of petty material required to complete the job in all respect up to the entire satisfaction of Engineer in charge of work. Make-MK Honeywell CAT No. K501552 or equivalent make of LEgrand or Schneider as approved by the Engineer in Charge.,	Each	15		
Ns20	Providing and fixing under floor metal Trunking (Raceway) Pre-Galvanized sheet steel powder coated to make it rust proof made of 1.60mm thick sheet metal with jointing sleeves and all accessories as required and including cutting the floor to the size and all repair work in CC mortar 1:2:4 finish to make goods the same and complete the job in all respect up to the entire satisfaction of Engineer-in-charge.				
a	Size M-Trunking 300mm x 38mm x 1.6mm with 3 compartments	Mtr	320		
b	Size M-Trunking 250mm x 38mm x 1.6mm with 3 compartments	Mtr	250		
Ns21	Supply and fixing of Access outlet size 250mm x 250mm x 60mm - 75mm, 3 compartments under floor service outlet box C/W 3 standard RAP plates(25mm / 38mm duct and UPS separately and including cutting the floor to the size and all repair work in CC mortar 1:2:4 after fixing the the Access outlet box, finish the floor to make goods the same and complete the job in all respect up to the entire satisfaction of the Engineer - in - charge of work. (Make:- M.K., Sehneider or Legrand)	Each	75		

Ns22	Supply and fixing of Access outlet size 300mm x 300mm x 60mm - 75mm, 3 compartments under floor service outlet box C/W 3 standard RAP plates(25mm / 38mm duct and UPS separately and including cutting the floor to the size and all repair work in CC mortar 1:2:4 after fixing the the Access outlet box, finish the floor to make goods the same and complete the job in all respect up to the entire satisfaction of the Engineer - in - charge of work. (Make:- M.K., Sehneider or Legrand)	Each	39		
Ns23	Supply and fixing of cross over box made of standard gauge aluminium sheet (25mm / 38mm high duct entry) of size 250mm x 250mm x 60-75mm, 3 compartments C/W flyover frame and trap for voice, data and UPS cables complete including cutting the floor to the required size and all repair work in CC mortar 1:2:4 after fixing the junction box, finish the floor to make goods the same and complete the job in all respect to the entire satisfaction of the Engineer - In- Charge. (Make:- M.K., Sehneider or Legrand)				
a	Cost of crossover box (38mm duct entry) 350mm x 350mm x 60-75mm, 3 compartments	Each	57		
b	Cost of crossover box (38mm duct entry) 300mm x 300mm x 60-75mm, 3 compartments	Each	3		
Ns24	Supply, installation, Testing and commissioning of chemical type of earthing for maintenance free, 3 Mtr. Long and 80mm dia copper bounded operation for a period of 7 years maintenance free earthing system.Make OBO BETTERMAN, ERICO, UNISTRUT, OBO FURSE, CPRI approved	Each	4		
Ns25	VTTPMCBDB				
	S/F vertical type TPN MCB DB : Supplying, installation, testing and commissioning of surface/ recess mounting, vertical type, 415 volts, TPN MCB distribution board of sheet steel, dust protected, duly phosphatized and powder painted, inclusive of 200 amps tinned copper busbar, common neutral link, earth bar, din bar for mounting MCB's, detachable gland/ knock out plate, and with 100 amps, 10 KA MCCB as incomer interconnection between incomer MCCB and busbars of following ways (but without MCB's) as required. (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)	Each	4		
NS26	Supplying and fixing following rating, double pole, 240 V, MCB in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
(i)	40 A 10 KA	Each	2		
(ii)	63 A 10 KA	Each	2		

NS27	Supplying and fixing following rating, four pole, 415 V, MCB in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
(i)	40 A 10 KA		Each	6		
(ii)	63 A 10 KA		Each	8		
Total of Schedule II						

SCHEDULE-III (FANS & FITTINGS)

Sr. No.		DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
1	NS1	Supply Installation testing and commissioning of 600mmX600mm LED Luminaire in 36W with minimum system lumen of 3600lm with CRCA housing and HET non yellowing diffuser with THD<10% and PF>0.95 with APFC & CCCV Driver.Model no.CRCO10R038HP57GL1 WIPRO or Equivalent model in philips/ lighting technologies as proved by engineer -in-charge/consultant including cost of all petty material required to complete the job.(3 year warranty)	Each	91		
2	NS2	Supply Installation testing and commissioning of 12W LED Downlighter with minimum system lumen of 1200lm with die cast housing and HET non yellowing diffuser with THD<10% and PF>0.95 with APFC & CCCV Driver.Model no.LD90-141-XXX-65-XX WIPRO or Equivalent model in philips/ lighting technologies as proved by engineer -in-charge/consultant including cost of all petty material required to complete the job.(3 year warranty)	Each	247		
3	NS-3	Supply Installation testing and commissioning of 10W 600mm LED Batten with minimum system lumen of 900lm with polycarbonate housing and HET non yellowing diffuser with THD<10% and PF>0.95.Model no.LL20-111-XXX-60-NE WIPRO or Equivalent model in philips/ lighting technologies as proved by engineer -in-charge/consultant including cost of all petty material required to complete the job.(3 year warranty)	Each	20		
4	NS4	Supply Installation testing and commissioning of 18W LED Downlighter with minimum system lumen of 1800lm with die cast housing and HET non yellowing diffuser with THD<10% and PF>0.95 with APFC & CCCV Driver.Model no.LD90-231-XXX-65-XX WIPRO or Equivalent model in philips/ lighting technologies as proved by engineer -in-charge/consultant including cost of all petty material required to complete the job.(3 year warranty)	Each	107		

5	NS-5	Supply Installation testing and commissioning of 28W (maximum)analogue 1-10V dimmable LED Downlighter with minimum system lumen of 2600lm with die cast housing and HET non yellowing diffuser with THD<10% and PF>0.95 with APFC & CCCV Driver.Model no.CRDL11R033HP57AD WIPRO or Equivalent model in philips/ lighting technologies as proved by engineer -in-charge/consultant including cost of all petty material required to complete the job.(3 year warranty)	Each	50		
6	NS-6	Supply Installation testing and commissioning of 60W LED Flood Light with system lumens 6000lm.IP66 with toughened glass cover with THD<10% and PF>0.95. Model LF19-711-060-57-XX or equivalent in philips / lighting technologies as proved by engineer -in-charge/consultant including cost of all petty material required to complete the job.(3 year warranty)	Each	4		
7	NS-7	Supply Installation testing and commissioning of 1200mm LED Batten with minimum system lumen of 1800lm with polycarbonate housing and HET non yellowing diffuser with THD<10% and PF>0.95.Model no.LL20-221-XXX-60-NE WIPRO or Equivalent model in philips/ lighting technologies as proved by engineer -in-charge/consultant including cost of all petty material required to complete the job.(3 year warranty)	Each	23		
8	NS-38	Supply & Erection of A.C. ceiling fan size 1200 mm energy saver 5 star rating ISI marked 50 Watt double ball bearing with Al. di caste body, blade etc and complete with canopy. of approved color velocity 5 star to complete the job in all respect up to the entire satisfaction of Engineer in charge of work. Make Havells make or equivalent make Crompton, Orient.	Each	78		
9	NS-9	Supply & Erection of A.C. ceiling fan size 1400 mm ISI marked 65 Watt double ball bearing with Al. di caste body, blade etc and complete with canopy. of approved color to complete the job in all respect up to the entire satisfaction of Engineer in charge of work. Make Havells make or equivalent make Crompton, Orient.	Each	10		

10	NS-10	Supply & Erection of Exhaust fan 15" heavy duty 900 rpm complete with shutter (ISI mark) including cost of petty material required to complete the job in all respect. (Make Crompton, Havells or Armonard)	Each	25		
11	NS-11	Supply and erection of wall fan 16" (400 mm) (ISI mark) including cost of petty material required to complete the job in all respect. (Make Crompton, Havells or Armonard)	Each	2		
12	NS-12	Supply and erection of Fresh Air Fan 10" (ISI mark) including cost of petty material required to complete the job in all respect. (Make Crompton, Havells or Armonard)	Each	4		
13	NS-13	Supply Installation testing and commissioning of big island nickel 80" sweep outdoor ceiling fan with remoteMODEL fanimation MAD3252BN of DELMAROR equivalent make of KRUGER or WOLTER including cast of all petty materials required to complete this job in all respect	Each	4		
14	NS-14	Supply Installation testing and commissioning of Hand dryer heavy duty ISI mark including cost all petty material required to complete the job 450.	Each	20		
15	NS-15	Supply and Erection of LED Street Light Fixture 40 Watt 4000 Lumens complete with lamp and all petty material required to complete the job. Model LR02-451-XXX-57-XX of Wipro make Or Equivalent model of of Philips. Warranty 3 Years.	Each	4		
Total of Schedule III						

SCHEDULE - IV (FIRE ALARM SYSTEM , INTERCOM SYSTEM AND LAN NETWORKING)

S NO.	DESCRIPTION OF ITEM	UNIT	QTY	RAT E	AMOUN T
1	<p>Providing fixing testing and commissioning of intelligent addressable type photoelectric type smoke detector The Smoke Detector, addressable, low profile plug-in photoelectric detectors use a state-of-the-art photoelectric sensing chamber with 0%communications to provide open area protection and are used exclusively with Fire Lite's Addressable Fire Alarm Control Panels (FACPs). The photoelectric Smoke Detector adds thermal sensors that will alarm at a fixed temperature of 135°F (57°C). Since these detectors are addressable, they will help emergency personnel quickly locate a fire during its early stages, potentially saving precious rescue time while also reducing property damage. Two LEDs on each sensor light to provide a local, visible sensor indication. Remote LED annunciator capability is available as an optional accessory, PN RA100Z(A). Features</p> <p>SLC loop</p> <ul style="list-style-type: none"> • Two-wire loop connection. • Unit uses base for wiring. <p>Make Model Firelite SD355A Morley MI-PSE-S2-IV</p>	Each	234		
2	<p>Providing, fixing, testing and commissioning of intelligent addressable type fixed temperature The Heat Detector is attractive, durable, and features combination rate-of-rise and fixed-temperature detectors. Heat detectors are available in 135°F (57°C) and 200°F (94°C) temperature ratings. Rate-of-rise elements detect heat by quickly responding to rapid temperature increase. Detectors use the same reliable pneumatic rate-of-rise element used in former models, but offer added aesthetic appeal. The pneumatic rate-of-rise element responds to a rapid rise in temperature, approximately 15°F (8°C) per minute, by expansion of air within the sealed chamber faster than it can escape through a calibrated vent. The resultant increase in pressure depresses the diaphragm, causing the electrical contact to close the circuit. HD-600 rate-of-rise units have a wide spacing allowance of 50-foot (15.24-meter) centers. See Specifications table (page 2) for details. Fixed-temperature elements react to heat by responding to a specific temperature setting. The fixed-temperature element uses a fusible alloy. When activated, the external heat collector drops away to provide quick visual confirmation that the element has operated. The units protrude only 1-3/8" (34.925 mm) from the ceiling surface with a junction box mounting. They have pleasing contours and an all-white finish that conforms to ceiling</p> <p>FEATURES</p> <ul style="list-style-type: none"> • Rate-of-rise and fixed-temperature. • One- or two-circuit, normally <p>Make Model Firelite HD600 Morley MI-FHSE-S2-IV</p>	Each	10		

3	<p>Providing, fixing, testing and commissioning of intelligent addressable type manual call point The Fire-Lite FL/MCP/SF/MMF301 is a state-of-the-art, dual-action (i.e., requires two motions to activate the station) pull station that includes an addressable interface (mounted inside) for Fire-Lite's addressable fire alarm control panels (FACPs)panels (FACPs)</p> <p>Because the FL/MCP/SF/MMF301 is addressable, the control panel can display the exact location of the activated manual station. This leads fire personnel quickly to the location of the alarm.</p> <ul style="list-style-type: none"> • Maintenance personnel can open station for inspection and address setting without causing an alarm condition. • Built-in bicolor LED, which is visible through the handle of the station, flashes in normal operation and latches steady red when in alarm.-action design. Handle latches in down position and the word "ACTIVATED" appears to clearly indicate the station has been operated. • Captive screw terminals wire-ready for easy connection to SLC loop (accepts up to 12 AWG/3.25 mm² wire). • Can be surface mounted (with SB-10 or SB-I/O) or semiflush mounted. Semi-flush mount to a standard singlegang, double-gang, or 4" (10.16 cm) square electrical box • Meets ADAAG controls and operating mechanisms guidelines (Section 4.1.3[13]); meets ADA requirement for 5 lb. maximum activation force. <p>Make Model Firelite FL/MCP/SF/MMF301 Morley MI-MCP-FLEX</p>	Each	13		
4	<p>Providing, fixing, testing, and commissioning of The SpectrAlert® Advance series of mini-horn sounders are designed to simplify installation to provide primary and secondary signaling for fire and security applications. The MHR and MHW mini-horns operate at 12 and 24 volts and are ideal for hotel, motel or residential fire system applications, where a smaller notification device is desired. The mini-horns offer high and low volume settings, and temporal or non-temporal tones. The horns can be mounted to single gang back boxes for aesthetically sensitive applications. Synchronization is also provided when using the MDL3R, MDL3W module or any Fire-Lite panel with the System Sensor sync protocol. The MHR and MHW mini-horns can operate between 32 and 120 degrees Fahrenheit from a regulated DC or full-wave rectified, unfiltered power supply. They are listed to Underwriters Laboratories.Features</p> <ul style="list-style-type: none"> • Standard UL 464 for fire protective signaling systems. • 12 and 24V operation. • High and low volume settings. • Temporal and non-temporal tones. • Mounts to a single-gang backbox. • Compatible with MDL sync module. • Mechanically and electrically compatible with PA400 series Mini-Alert™ sounders. <p>Make Model Firelite MHR: Mini-Horn; Red Morley WSO-PR-N05</p>	Each	11		

5	<p>Providing, fixing, testing, and commissioning of required Loop intelligent addressable fire alarm control panel Fire•Lite's MS-9600LS(E) and MS-9600UDLS(E) are compact, cost effective, intelligent addressable FACP's (Fire Alarm Control Panels) with an extensive list of powerful features. The combination of Fire•Lite's newer series devices and legacy 300 Series devices, along with the MS-9600LS(E) or MS-9600UDLSE FACP, offer the latest in fire protection technology. LiteSpeed™ is a patented technology that polls 10 devices at a time looking for new or different information. When new information is found at a specific address, the system polls that device several times for any new data. This improvement allows a fully loaded panel with up to 636 devices to report an incident and activate the notification circuits in under 10 seconds. With this new polling scheme, devices can be wired on standard twisted, unshielded wire up to a distance of 10,000 feet per loop. Each Signaling Line Circuit (SLC) loop supports up to 159 addressable detectors including photoelectric, photoelectric with heat, beam, ionization, photoelectric duct, fixed heat, fixed heat with rate-of-rise, and fixed high-heat detectors. It also supports up to 159 addressable modules including monitor (two-wire detector, normally open devices), dual-monitor functions (two monitor circuits from one module, two addresses used), multimonitor (multiple monitor circuits from one module, multiple addresses used), control (for Notification Appliance Circuits), and relay (two Form-C) modules. The FLPS-7 power supply is a separate board while all other electronics are contained on a single main circuit board. Both boards are mounted to a quick-removable chassis and housed in a metal cabinet. The backbox can be installed allowing field wiring to be pulled. When construction is completed, the chassis with the electronics can be quickly installed with two bolts. The MS-9600UDLS(E) includes a factory-installed DACT-UD2 Digital Alarm Communicator Transmitter. The DACT transmits system status (alarm, troubles, AC loss, etc.) to a Central Station via internet (optional IPDACT installed) or the public switched telephone network. Optional modules, which plug into the main circuit board, are available for special functions. Available accessories include LED, graphic and LCD annunciators, reverse polarity/city box transmitter, digital alarm communicator/transmitter, SLC expansion module, local and remote upload/download software and remote power expansion. FM APPROVED to UL ANSI 864</p> <table><tr><td>Make</td><td>Model</td></tr><tr><td>Firelite</td><td>MS-9600LS(E)</td></tr><tr><td>Morley</td><td>DXC2</td></tr></table>	Make	Model	Firelite	MS-9600LS(E)	Morley	DXC2	Each	1				
Make	Model												
Firelite	MS-9600LS(E)												
Morley	DXC2												
6	<p>Providing, fixing, testing, and commissioning of The ANN-80 annunciator is a compact, backlit, 80-character LCD fire annunciator that mimics the Fire Alarm Control Panel (FACP) display. It provides system status indicators for AC Power, Alarm, Trouble, Supervisory, and Alarm Silenced conditions. The ANN-80 and the FACP communicate over a two-wire serial interface employing the ANN-BUS communication format. Connected devices are powered, via two additional wires, by either the host FACP or a remote UL-listed, filtered power supply. ANN-80 is red.</p> <table><tr><td>Make</td><td>Model</td></tr><tr><td>Fire lite</td><td>ANN-80</td></tr><tr><td>Morely</td><td>ZX709-701-001</td></tr><tr><td>SIEMENS</td><td></td></tr></table>	Make	Model	Fire lite	ANN-80	Morely	ZX709-701-001	SIEMENS		Each	4		
Make	Model												
Fire lite	ANN-80												
Morely	ZX709-701-001												
SIEMENS													

7	<p>Providing, fixing, testing, and commissioning of EPABX System Feature Capacity Item KX-TDE600 System Absent Message—Extension 1 x 16 characters Absent Message—System 8 x 16 characters Call Park Zone 100 Conference Each shelf: 3-8 parties per conference (32 parties total) COS 64 DID/DDI Table 32 digits, 1000 entries Extension number 1 – 5 digits Extension Personal Identification Number (PIN) 10 digits, 1 entry/extension Host PBX Access Code 10 digits, 10 entries/trunk group Multiple Subscriber Number (MSN) 10 entries per ISDN-BRI port Number of Characters of Name 20 Printing message 8 Queuing Time Table 128 Ring Tone Pattern Plan 8 Simultaneous Programmers · one system programmer + 63 personal programmers SMDR Call Storage · one manager programmer + 63 personal programmers · 64 personal programmers 1000 calls (20 000 calls w/IPCMEC card) Special Carrier Access Code 16 digits, 100 entries Tenant 32 Time Service Holiday 24 Verification Code 4 digits, 1000 entries Verification Code Personal Identification Number (PIN) 10 digits, 1000 entries Dialing Emergency Call 32 digits, 10 entries Hot Line 32 digits Key Pad Protocol Dial (ISDN Service Access) 32 digits Personal Speed Dialing 32 digits, 100 entries/extn. Quick Dialing 8 digits, 4080 entries Redial 32 digits System Speed Dialing 32 digits, 1000 entries/tenant One-touch Dialing—PT/DSS 32 digits, 5000 entries/system One-touch Dialing—PS 32 digits, 1000 entries/system Groups Conference Group 8 (8 members/group for Conference Group Mode, 32 members/group for Broadcast Mode) Call Pickup Group 96 Idle Extension Hunting Group 128 (16 extensions/group) Incoming Call Distribution Group 128 (128 extensions/group) Paging Group 96 PS Ring Group 32 Trunk Group 96 VM (DPT) Group 8 groups x 12 ports (24 channels) VM (DTMF) Group 8 groups x 32 channels TRS/Barring TRS/Barring Level 7 TRS/Barring Denied Code 16 digits, 100 entries/level TRS/Barring Exception Code 16 digits, 100 entries/level ARS Routing Plan Table 48 entries Leading Number Table 16 digits, 1000 entries Leading Number Exception Table 16 digits, 200 entries ARS Carrier 48 Itemised Billing Code 10 digits Authorization Code for Tenant 16 digits Authorization Code for Trunk Group 10 digits Call Log and Message Waiting Outgoing Call Log—PT 100 records/extn. 3200 records/system Outgoing Call Log—PS 100 records/extn. 2560 records/system Incoming Call Log—PT 100 records/extn. 6400 records/system Incoming Call Log—PS + Incoming Call Distribution Group 100 records/extn. or group Total 6400 records/system Message Waiting—PS + Incoming Call Distribution Group 640 Message Waiting—PT + SLT 1280 Voice Message Outgoing Message (OGM) 64 OGM Total Recording Time MSG4 Card: 8 minutes; MPR/ESVM2/ESVM4 Card: 20 minutes Message (SVM) MPR Card: 125 messages; ESVM2/ESVM4 Card: 250 messages per card/block SVM Total Recording Time 20, 60, or 120 minutes (depending on the recording quality) Hospitality and Charge Management Features Billing items for guest rooms 4000 records/PBX (8000 records w/IPCMEC card) Hotel Operator 4 Charge Rate 7 digits including a decimal Charge Denomination 3 currency characters/symbols Networking TIE Line Routing and Modification Table 32 entries Leading Number 3 digits PBX Code 7 digits NDSS: Monitored PBXs 8 NDSS: Registered Extensions for Monitor PBX 250 CTI PCConsole 8 PC Phone 128 Password System Password for Installer 4 – 10 characters</p>	Each	1		
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	<p>System Password for Administrator— for PC Programming 4 – 10 characters System Password for User— for PC Programming 4 – 10 characters System Password for Administrator— for PT Programming 4 – 10 digits System Password for User— for PT Programming 4 – 10 digits Manager Password 4 – 10 digits Programmer Code Installer Level Programmer Code 4 – 16 characters Administrator Level Programmer Code 4 – 16 characters User Level Programmer Code 0 – 16 characters.</p> <p>Make Model PANASONIC KX-TDE600/NS1000 AVAYA IP OFFICE 500V2 NORTEL IPX700</p>				
8	<p>Providing, fixing, testing, and commissioning of KTS Features</p> <p>1-Line Display 8 Programmable CO Keys with Dual-Colour LED Digital eXtra Device Port (DXDP) 10 Feature Keys Tilt-Angle Adjustment Speakerphone Volume Control Wall Mount</p> <p>Make PANASONIC AVAYA NORTEL</p>	Each	10		
9	<p>Providing, fixing, testing, and commissioning of Cordless Phone. • 2.4 GHz Frequency Hopping Spread Spectrum (FHSS) Technology</p> <ul style="list-style-type: none"> • Digital Speakerphone (Handset) • Light-Up Indicator with Ringer Alert (Handset) • Convenient AAA (R03) Ni-MH Rechargeable Battery (Handset) • Illuminated Display (Handset) • 50-Name & Number Phonebook • Caller ID with 50-Name 1 & Number Call Log 2 • Night Mode • Ringer ID12 • 7 Ringer Patterns (3 tones, 4 melodies) • 5 Redial Memory • Any Key Answer • Clock / Alarm • Handset Locator (Base Unit) • 11-Day Standby Time • 5-Hour Talk Time • 7-Hour Charge Time <p>Make PANASONIC AVAYA NORTEL</p>	Each	10		

10	Providing, fixing, testing, and commissioning of Analog Phone • Slim Design • Speaker phone • C-ID, 30-Call Log • 5 Re-Dial Memory • LCD (7 -Segment 2-Line) Make PANASONIC AVAYA NORTEL	Each	146		
11	Providing, fixing, testing, and commissioning of Supply, Erection, Testing & Commissioning of MDF of 100 pair complete in all respect of Panasonic/other equivalent make	Each	4		
12	Providing, fixing, testing, and commissioning of 24 Port Switch Lite-Managed switching product. It is a intelligent network manageable switch designed for network environments that require high performance, high port density and easy for installation. It provides 24 10/100Mbps Fast Ethernet PoE+ Ports and 2 Combo GE ports (RJ-45/SFP). It supports VLAN, SNMPv1, Port Mirroring and Port Trunking. Product Key Features • Non-blocking Performance • IGMP Snooping • Broadcast Storm Control • SNMP Support Make D-Link LAPP AMP	Each	15		
13	Providing, fixing, testing, and commissioning of 24 Port patch panel 1. Identification: ID plate, PVC, Transparent color with paper 2. Panel: SPCC, 1.5mm thickness with Black (RAL 9005) color painted 3. RJ45 Jack: Housing: ABS, UL 94V-0 Contact Brackets: PC, UL 94V-2, Transparent color 4. RJ45 Jack Contact: Material: Phosphor Bronze with Nickel Plated Finish: 50 micro-inches Gold plated on plug contact area 5. IDC: Housing: PC+ Glass Fiber, UL 94V-2 Terminal: phosphor Bronze with Tin plated 6. Jack Bracket Set: ABS, UL 94V-0 7. Support Bar: SPCC, 1.5 mm thickness with Black (RAL 9005) color painted 8. PCB: FR4, UL 94V-0 Make D-Link LAPP AMP	Each	15		

14	<p>Providing, fixing, testing, and commissioning of S/E of 1 Mtr Patch Cord complete in all respect up to entire satisfaction.</p> <p>Specifications</p> <p>Conductor 24 AWG, Multi-strands</p> <p>Conductor Metal Bare Copper</p> <p>Insulation Material High Density Polyethylene</p> <p>Material PVC I, 94V-0</p> <p>Color Code Cool Grey 5C</p> <p>Heat Resistance 60C minimum (Temperature limited)</p> <p>Flame Property The purpose of the vertical flame test is to screen out flammable wires, it follows the VW-1 (UL) and FT-1 (CSA) standards.</p> <p>Insertion Cycles 750 times</p> <p>1 Meter Long CAT 6 work with all types of computers.</p> <p>Make</p> <p>D-Link</p> <p>LAPP</p> <p>AMP</p>	Each	360		
15	<p>Providing, fixing, testing, and commissioning of 2m patch cord</p> <p>Basic Frame :</p> <p>Basic Frame : Welded/CKD</p> <p>Top & Bottom Cover : Welded to Frame with Cable entry exit cut outs</p> <p>Front Door : Lockable Toughened Glass Door.</p> <p>19" Mounting Angle : Formed Steel</p> <p>Std. Equipment Mounting: DIN Std. 10mm Sq. Slots</p> <p>Standard Finish : Powder coated</p> <p>Standard Color : Grey& Off white Or Black</p> <p>Rack Standard : Conforms to DIN 41494 or equivalent standard.</p> <p>Static Load : 30 Kg</p> <p>Make</p> <p>D-Link</p> <p>LAPP</p> <p>AMP</p>	Each	306		
16	<p>Providing, fixing, testing, and commissioning of 15u Wall mount rack.</p> <p>Basic Frame :</p> <p>Basic Frame : Welded/CKD</p> <p>Top & Bottom Cover : Welded to Frame with Cable entry exit cut outs</p> <p>Front Door : Lockable Toughened Glass Door.</p> <p>19" Mounting Angle : Formed Steel</p> <p>Std. Equipment Mounting: DIN Std. 10mm Sq. Slots</p> <p>Standard Finish : Powder coated</p> <p>Standard Color : Grey& Off white Or Black</p> <p>Rack Standard : Conforms to DIN 41494 or equivalent standard.</p> <p>Make</p> <p>D-Link</p> <p>LAPP</p> <p>AMP</p>	Each	4		

17	<p>Providing, fixing, testing, and commissioning of 9u Wall mount rack. Basic Frame :</p> <p>Basic Frame : Welded/CKD</p> <p>Top & Bottom Cover : Welded to Frame with Cable entry exit cut outs</p> <p>Front Door : Lockable Toughended GlassDoor.</p> <p>19" Mounting Angle : Formed Steel</p> <p>Std. Equipment Mounting: DIN Std. 10mm Sq. Slots</p> <p>Standard Finish : Powder coated</p> <p>Standard Color : Grey & Off white Or Black</p> <p>Rack Standard : Conforms to DIN 41494 or equivalent standard.</p> <p>Make</p> <p>D-Link</p> <p>LAPP</p> <p>AMP</p>	Each	2		
18	<p>Providing, fixing, testing, and commissioning of 0.6mm 20 Pair Telephone cable (Un-armored).</p> <p>Make: FINOLEX/ DELTON/ POLYCAB</p>	Mtr	100		
19	<p>Providing, fixing, testing, and commissioning of Supply & Erection of 3500 Lumens Projector complete in all respect up to the entire satisfaction of Engineer-In-Charge.</p> <p>Projection System DLP®</p> <p>Native Resolution - XGA(1024 x 768)</p> <p>Brightness - 3500 ANSI lumens</p> <p>Contrast Ratio - 13000:1</p> <p>Display Color - 1.07 Billion Colors</p> <p>Lens - F=2.56-2.8, f=21-23.1mm</p> <p>Aspect Ratio - Native 4:3 (5 aspect ratio selectable)</p> <p>Throw Ratio 1.86 - 2.04 (53" @ 2m)</p> <p>Image Size Diagonal - 40"-300"</p> <p>Zoom Ratio 1.1:1</p> <p>Lamp Type - 240W</p> <p>Keystone Adjustment - 1D, Vertical +/- 40 degrees</p> <p>Projection Offset - 120% ±5%</p> <p>Resolution Support- VGA(640 x 480) to UXGA(1600 x 1200)</p> <p>Horizontal Frequency 31K~102KHz</p> <p>Vertical Scan Rate --23~120Hz</p> <p>Compatibility - HDTV Compatibility: 480i, 480p, 576i, 576p, 720p, 1080i, 1080p Video Compatibility: NTSC, PAL, SECAM</p>	Each	3		
20	<p>Providing, fixing, testing, and commissioning of Motorized Projection Screen, Size: (10 Ft. x 8 Ft.) in Matt White fabric with top class gain of 1.2. This Motorized Projection Screen comes with Radio Frequency Cordless Remote which is used to operate the screen with the touch of a button. Life time lubricated motor for smooth & silent functioning of the screen</p>	Each	3		
21	<p>Providing, fixing, testing, and commissioning of BOSCH CONFERENCE SYSTEM CONTROLLER complete in all respect including Built-in MP3 recording and playback with graphical display, Patent-pending recording buffer, Digital Acoustic Feedback Suppression, Discussion control without operator, Controls up to 150 contribution devices</p>	Each	3		

22	Providing, fixing, testing, and commissioning of BOSCH DELEGATE LONG GOOSNECK UNIT complete in all respect including Unique, patent pending “Possible-To-Speak” indicator Compact, attractive design, Built-in volume control for headphones, Microphone with flexible stem and light ring Two headphone sockets	Each	40		
23	Providing, fixing, testing, and commissioning of BOSCH CHAIRMANLONG GOOSNECK UNIT complete in all respect Incorporates all functions of the CCS-Dx CCS Delegate Units (with the exception of the Possible-To-Speak functionality / LED), Priority button for chairman microphone, Temporary or permanent muting of delegate microphones, Optional chime tone facility for preceding chairman announcements, Modern, unobtrusive styling to match the CCS-Dx CCS Delegate Units, Available with standard or extended length, microphone systems	Each	8		
24	Providing, fixing, testing, and commissioning of EXTENSION CABLE ASSEMBLY 10 MTR complete in all respect	Each	2		
25	Providing, fixing, testing, and commissioning of Supply & erection of VGA Cable 20 mtr. • MX HDMI cable has Attractive Design and Looks. • MX HDMI cable 1.4 has new lossless audio formats • MX HDMI cable has 24 k Gold Plated LOCK TYPE connector plug for high grad signal transmission & high resolution. • MX HDMI cable is Suitable for high definition video (FULL HD 1080p). • MX HDMI cable has Improved signal transfer with high grade oxygen-free copper wire. • MX HDMI cable has has High quality, Multi shield cable material according to HDMI standard • MX HDMI cable can be used over Ethernet	Each	4		
26	Providing, fixing, testing, and commissioning of Supply & erection of HDMI Cable MX HDMI cable has Attractive Design and Looks. • MX HDMI cable 1.4 has new lossless audio formats • MX HDMI cable has 24 k Gold Plated LOCK TYPE connector plug for high grad signal transmission & high resolution. • MX HDMI cable is Suitable for high definition video (FULL HD 1080p). • MX HDMI cable has Improved signal transfer with high grade oxygen-free copper wire. • MX HDMI cable has High quality, Multi shield cable material according to HDMI standard • MX HDMI cable can be used over Ethernet communication	Each	4		
27	Providing, fixing, testing, and commissioning of Supply & erection of RG-6/U is a common type of coaxial cable used in a wide variety of residential and commercial applications. The term "RG-6" itself is quite generic and refers to a wide variety of cable designs, which differ from one another in shielding characteristics, center conductor composition, dielectric type and jacket type.	Mtr	400		

	PUBLIC ADDRESS SYSTEM				
28	SPEAKER Providing fixing testing and commissioning of PA Speaker System 6W High quality flush mount ceiling speaker with stylish grill and frame, which integrate wonderfully well with all interiors. Clear and clean sound for speech and music.5" Full Range Speaker 6W/100V.Beautiful powder coated aluminum mesh grille and molded plastic frame. Easy selection of power taps through change of receptacle on 100V LMT . Bosch :LBD0606	Each	24		
29	Shalimar Sound Wire	Mtr	500		
30	Amplifier Mains power supply Voltage -EU versions 230 VAC $\pm 10\%$, 50/60 Hz (reduced power at lower mains voltage) Voltage -CN versions 220 VAC $\pm 10\%$, 50/60 Hz (reduced power at lower mains voltage) Voltage -US versions 120 VAC $\pm 10\%$, 50/60 Hz (reduced power at lower mains voltage) Inrush current PLE-1ME060-EU or -CN 5 A Inrush current PLE-1ME120-EU or -CN 10 A	Each	1		
31	Mic Electrical Phantom power supply Voltage range 12 to 48 V Current consumption <8 mA Performance Sensitivity 0.7 mV @ 85 dB SPL (2 mV/Pa) Maximum input sound level 110 dB SPL Distortion <0.6% (maximum input) Input noise level (equiv.) 28 dB SPLA (S/N 66 dBA ref. 1 Pa) Frequency response 100 Hz to 16 kHz Output impedance 200 ohm	Each	1		

	CCTV				
32	<p>Supply, Erection, Testing & Commissioning of Bullet Camera complete in all respect Specification .Make (Samsung,Honeywell) Video Imaging Device 1/2.7" 2M CMOS Total Pixels 1,952(H) x 1,092(V) Effective Pixels 1,920(H) x 1,080(V) Scanning System Progressive scan Min. Illumination 0Lux (Auto IR LED on) S / N Ratio 52dB (AGC off) Video Output BNC (AHD, CVBS Selectable) AHD : 30fps@1080p CVBS : 30fps@928 x 480 BNC(AHD, CVBS Selectable) AHD : 25fps@1080p CVBS : 25fps@928 x 576</p>				
	<p>Lens Focal Length (Zoom Ratio) 2.8 ~ 12mm (4.3x) varifocal (E6070R), 3.6mm fixed (E6020R) Max. Aperture Ratio F1.4 (E6070R), F2.1 (E6020R) Angular Field of View H : 98.6°(Wide) ~ 36.8°(Tele) / V : 53.1°(Wide) ~ 20.9°(Tele) / D : 115.2°(Wide) ~ 40°(Tele) (E6070R) H : 88.9° / V : 46.3° / D : 104.6° (E6020R) Min. Object Distance 0.5m (1.64ft) Focus Control Manual (E6070R), Fixed (E6020R)</p>	Each	3		
	<p>Operational On Screen Display English, French, German, Spanish, Italian, Russian, Turkish, Portuguese Camera Title Off / On (Displayed 15 characters) Day & Night Auto (ICR) Backlight Compensation Off / BLC / HLC Wide Dynamic Range DWDR Digital Noise Reduction 2D/3D DNR Defog Off / On Motion Detection Off / On (4 zones) Privacy Masking Off / On (4 zones) Gain Control AGC White Balance ATW / AWB / Outdoor / Indoor / Manual / AWC (1,800K° ~ 10,500K°) Electronic Shutter Speed AUTO / FLK / 1/50,000sec ~ 1/30sec / 2x ~ 30x AUTO / FLK / 1/50,000sec ~ 1/25sec / 2x ~ 30x Reverse Off / Mirror / V-Flip / Rotate Protocol ACP IR Distance 20m (65.62ft) (E6070R), 10m (32.81ft) (E6020R) Video Transmission Distance 300m (3C-2V), 500m (5C-2V)</p>				

33	<p>Supply, Erection, Testing & Commissioning of Dome Camera complete in all respect</p> <p>Specification</p> <p>Video</p> <p>Imaging Device 1/3" Progressive scan CMOS</p> <p>Total Pixels 2,010(H) x 1,108(V), 2.2M pixels</p> <p>Effective Pixels 1,944(H) x 1,092(V), 2.1M pixels</p> <p>Scanning System Progressive</p> <p>Min. Illumination Color : 0.5Lux (F2.0, 50IRE), 0.0025Lux (F2.0, Sen-up 60x, 50IRE)</p> <p>Video Output SMPTE292M (HD-SDI)</p> <p>Lens</p> <p>Focal Length (Zoom Ratio) 3.8mm (Fixed)</p> <p>Max. Aperture Ratio F2.0</p> <p>Angular Field of View H : 84.5° / V : 45.8° / D : 98.8°</p> <p>Min. Object Distance 0.5m (1.64ft)</p> <p>Focus Control Fixed</p> <p>Mount Type Board-in type</p> <p>Operational</p> <p>Camera Title Off / On (Displayed up to 15 characters)</p> <p>Day & Night Auto (Electrical) / External / Color / B/W</p> <p>Backlight Compensation Off / User BLC / HLC / WDR</p> <p>Wide Dynamic Range 100dB</p> <p>Contrast Enhancement SSDR (Off / On)</p> <p>Digital Noise Reduction SSNR III (Off / On)</p> <p>Digital Image Stabilization Off / On</p> <p>Digital Zoom Off / On (1x ~ 16x)</p>	Each	13		
34	<p>Supply, Erection, Testing & Commissioning of DVR 16 Channel complete in all respect</p> <p>Display</p> <p>Video</p> <p>Inputs 16CH BNC (HRD-E1630L), 8CH BNC (HRD-E830L), 4CH BNC (HRD-E430L)</p> <p>System AHD, NTSC / PAL</p> <p>Resolution 1920 x 1080 (Full HD), 1280 x 720 (HD), 960 x 480 (960H)</p> <p>Live</p> <p>Frame Rate</p> <p>(HRD-E1630L)</p> <p>NTSC : 480fps@1920 x 1080, 480fps@1280 x 720, 480fps@960 x 480</p> <p>PAL : 400fps@1920 x 1080, 400fps@1280 x 720, 400fps@960 x 576</p> <p>(HRD-E830L)</p> <p>NTSC : 240fps@1920 x 1080, 240fps@1280 x 720, 240fps@960 x 480</p> <p>PAL : 200fps@1920 x 1080, 200fps@1280 x 720, 200fps@960 x 576</p> <p>(HRD-E430L)</p> <p>NTSC : 120fps@1920 x 1080, 120fps@1280 x 720, 120fps@960 x 480</p> <p>PAL : 100fps@1920 x 1080, 100fps@1280 x 720, 100fps@960 x 576</p> <p>Resolution 1080p, 720p, 960H</p> <p>Multi Screen Display 1 / 4 / 9 / 16 / Sequence (HRD-E1630L)</p> <p>1 / 4 / 8 / Sequence (HRD-E830L), 1 / 4 / Sequence (HRD-E430L)</p>	Each	1		

<p>Performance</p> <p>Operating System Embedded Linux</p> <p>Recording</p> <p>Installation Wizard Support</p> <p>Compression H.264</p> <p>Record Rate</p> <p>HRD-E1630L : 2M Input : Up to 240fps@1,920 x 1,080, 1280 x 720, WD1 (NTSC/PAL)</p> <p>1M Input : Up to 480fps@1,280x720, WD1 (NTSC/PAL),</p> <p>960H Input : Up to 480fps@960x480 (NTSC), Up to 400fps@960x576 (PAL)</p> <p>HRD-E830L : 2M Input : Up to 120fps@1,920x1,080, 1280 x 720, WD1 (NTSC/PAL)</p> <p>1M Input : Up to 240fps@1,280x720, WD1 (NTSC/PAL),</p> <p>960H Input : Up to 240fps@960x480 (NTSC), Up to 200fps@960x576 (PAL)</p> <p>HRD-E430L : 2M Input : Up to 60fps@1,920x1,080, 1280 x 720, WD1 (NTSC/PAL)</p> <p>1M Input : Up to 120fps@1,280x720, WD1 (NTSC/PAL)</p> <p>960H Input : Up to 120fps@960x480 (NTSC), Up to 100fps@960x576 (PAL)</p> <p>Mode Manual, Schedule (Continuous / Event), Event (Pre / Post)</p> <p>Event Video loss, Motion (Sensitivity level 1 ~ 8)</p> <p>Overwrite Modes Off / On (Auto / 1 / 3 / 7 / 14 / 30 / 90days)</p> <p>Pre-alarm Min. 1sec</p> <p>Post-alarm Up to 5min (30sec, 1 / 2 / 5min)</p>				
<p>Search & Playback</p> <p>Search Mode Date/Time, Event, Motion</p> <p>Playback Function</p> <p>Fast forward / backward (2x, 4x, 8x, 16x)</p> <p>Slow forward (1/2x, 1/4x, 1/8x, 1/16x)</p> <p>Step forward (CMS support) (Applicable for local DVR only)</p> <p>Synchronous 16CH (HRD-E1630L), 8CH (HRD-E830L), 4CH (HRD-E430L)</p>				
<p>Network (IPv4)</p> <p>Transmission Speed Max. 240fps@1080p (HRD-E1630L), Max. 120fps@1080p (HRD-E830L)</p> <p>Max. 60fps@1080p (HRD-E430L)</p> <p>Bandwidth Up to 64Mbps (HRD-E1630L), Up to 32Mbps (HRD-E830L), Up to 16Mbps (HRD-E430L)</p> <p>Live Stream Max. 240fps@1080p (HRD-E1630L), Max. 120fps@1080p (HRD-E830L), Max. 60fps@1080p (HRD-E430L)</p> <p>Max. Remote Users 20 (Max. bandwidth , 64M:HRD-E1630L ,32M:HRD-E830L/E430L)</p> <p>Protocol Support TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, DHCP(Client), PPPoE, SMTP, DNS, DDNS, uPnP</p> <p>Monitoring Webviewer, Mobile Viewer, CMS (HD E-Viewer)</p>				

	Remote Monitoring Platform Supported OS - PC : Windows® XP, Windows® Vista, Windows® 7, Windows® 8 Mac OS X® 10.9 or above - Mobile : Android Ver3.0 or above, iOS® 5.1 or above Supported browser - Microsoft Internet Explorer (Ver. 11, 10, 9, 8), Mozilla Firefox Ver 19.x or higher, Google Chrome Ver 44.x or lower, Safari® 5.1 or above Protocol Support TCP/IP, UDP/IP, UDP Transmission Speed Max.30fps@CIF, 4CIF, 720p, 1080p (per Channel) Max. Remote Users 20 (Max. 64M : HRD-E1630L, 32M : HD-E830L/E430L) Storage Internal HDD 1 SATA HDD *Support max. 6T External (e-SATA Interface) 2 USB ports File Format (Backup) H.264, AVI, MP4 Security Password Protection 1 Admin, 6 User				
35	Supply, Erection, Testing & Commissioning of Hard Disk 2 TB complete in all respect	Each	1		
36	Supply, Erection, Testing & Commissioning of 32" TV (KDL-45R510C) features include Motionflow™, XR 120 full HD 1080p, built-in Wi-Fi, Clear Resolution Enhancer, and slim and bright LED display with vivid color. Make (Sony, Panasonic and Samsung) Features • Beautiful Full HD 1080p picture • Crisp detail & contrast with Clear Resolution Enhancer • Slim and bright LED display with vivid color • Smooth movement with Motionflow™ XR 120 • Stream HD entertainment wirelessly with built-in Wi-Fi®	Each	1		
37	Supply, Erection, Testing & Commissioning of Power Supply complete in all respect	Each	4		
38	Supply, Erection, Testing & Commissioning of BNC Connector complete in all respect	Each	32		
39	Supply, Erection, Testing & Commissioning of RC Connector complete in all respect	Each	2		
Total of Schedule IV					

COMPENSATION FOR SALVAGED MATERIAL

Bank has its offices at three locations namely

- **Chandigarh RO**
S.C.O 109-110
1ST & 3rd floor
Sector - 17B
Chandigarh
- **Chandigarh Processing Centre**
S.C.O 127,127
3rd Floor
Sector - 17C
Chandigarh
- **Chandigarh –II**
Branch Office
S.C.O 11 –A
Sector - 7C
Chandigarh

The salvageable material of these sites is to be handed over/taken by the tendering agency. Tendering agency shall quote a suitable amount in lieu of the salvageable item available at these locations.

The list of salvageable items is placed below

S No.	Description of Item	Unit	QTY	Rate	Amount
A	Civil Work				
1	OFFICERS' & STAFF TABLES				
	Size: 6'-0" x 3'-0"	Each	2.00		
	4'-0" x 2'-0"	Each	2.00		
2	Workstations				
	Size: 4'-0" x 2'-0"	Each	20.00		
3	BACK CREDENZA / BACK / SIDE STORAGE CABINETS				
	Size: 3'-0" x 1'-6"	Rft	55.00		
	4'-0" x 2'-0"				
	5'-0" x 2'-0"				
4	DISCUSSION TABLE	Each	2.00		
	Size: 7'-6" x 4'-0"				
5	SOFAS	Each	7.00		
	3 - SEATER				
6	STAFF VISITOR CHAIR	Each	42.00		
7	EXECUTIVE VISITOR CHAIR	Each	4.00		

8	EXECUTIVE CHAIR	Each	5.00		
9	OFFICERS' CHAIRS	Each	71.00		
	(Officers + Staff + Conference + Meeting Rooms)				
10	LUNCH LEDGE	Each	1.00		
	Size: 5'-9" X 3'-0"				
11	LUNCH TABLE	Each	1.00		
	Size: 5'-9" x 3'-0"				
12	WOODEN PARTITIONS, GRID FALSE CEILING, GLASS DOORS WITH FLOOR SPINS, ETC	lot	1		
13	TRAINING ROOM CHAIRS	Each	30.00		
B	Luminaries				
14	2'-0" x 2'-0" luminaries, Downlighters, etc (Contractor to count the fittings)	lot	1		
C	HVAC				
15	Ductable splits of various capacity including outdoor and indoor units excluding high wall split units.	lot	1		
	TOTAL				

Note:

1. **High Wall Split units** shall be retained by the bank. Therefore tenderers are advised not to take them into account while quoting for salvageable items.
2. Tendering agencies are advised to inspect the salvageable materials at the above locations for fair assessment. It is reiterated that all the salvageable material as mentioned above including chairs, furniture, partition, false ceiling, light fixtures, etc shall be handed over to the tendering agency but High Wall split unit shall be retained by the Bank.
3. The amounts so quoted for the salvageable items by the tendering agency shall be deducted from the total tendered amount for the new work at Plot no. 144, Industrial Area- Ph-II, Chandigarh

SUMMARY OF PRICE

1) **Total of Civil and Interior Furnishing** : _____

2) **Electrical Installation**

a) Total of Schedule I : _____

b) Total of Schedule II : _____

c) Total of Schedule III : _____

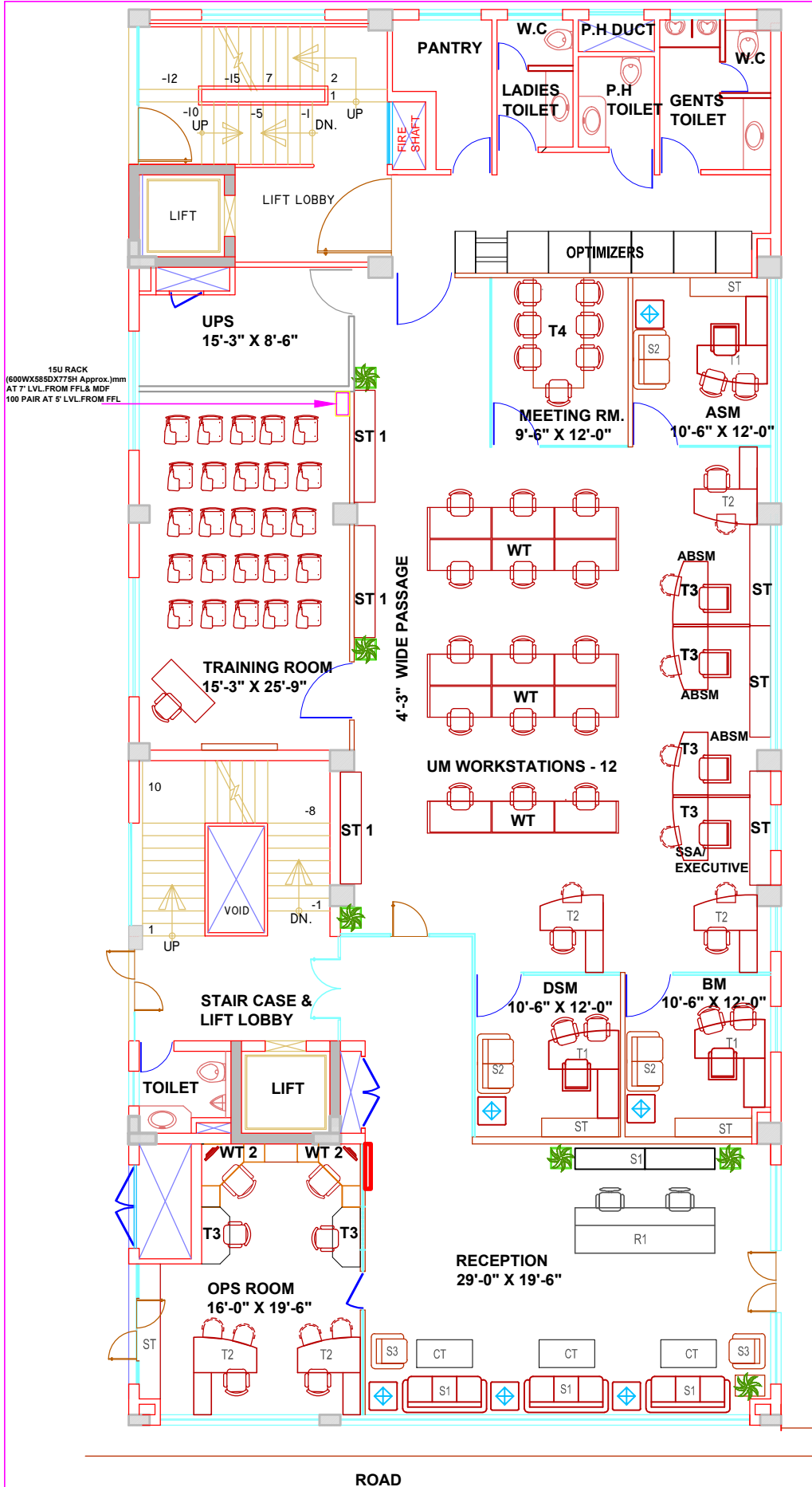
d) Total of Schedule IV : _____

Total of Electrical Installation : _____

Total (I) : _____

Compensation for Salvaged Material (II) : (-) _____

Net Total (I - II) : _____



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PRINTS ISSUED BY	NO.	DATE

PROJECT:-

PROPOSED
REGIONAL OFFICE, BRANCH OFFICE &
PROCESSING CENTRE

PROJECT TEAM:-

BACHITTER SINGH ASSOCIATES
ARCHITECTS,INT.DESIGNERS,ENGINEERS,
#1514,SECTOR 7-C.
CHANDIGARH.



STRUCTURAL ENGINEERING CONSULTANT

LANDSCAPE CONSULTANT

CLIENT

SBI LIFE

ARCHITECTURAL DRAWING TITLE

GROUND FLOOR PLAN

ARCHITECTURAL DRAWING NO.

FLP-01



ISSUED BY

BACHITTER SINGH ASSOCIATES

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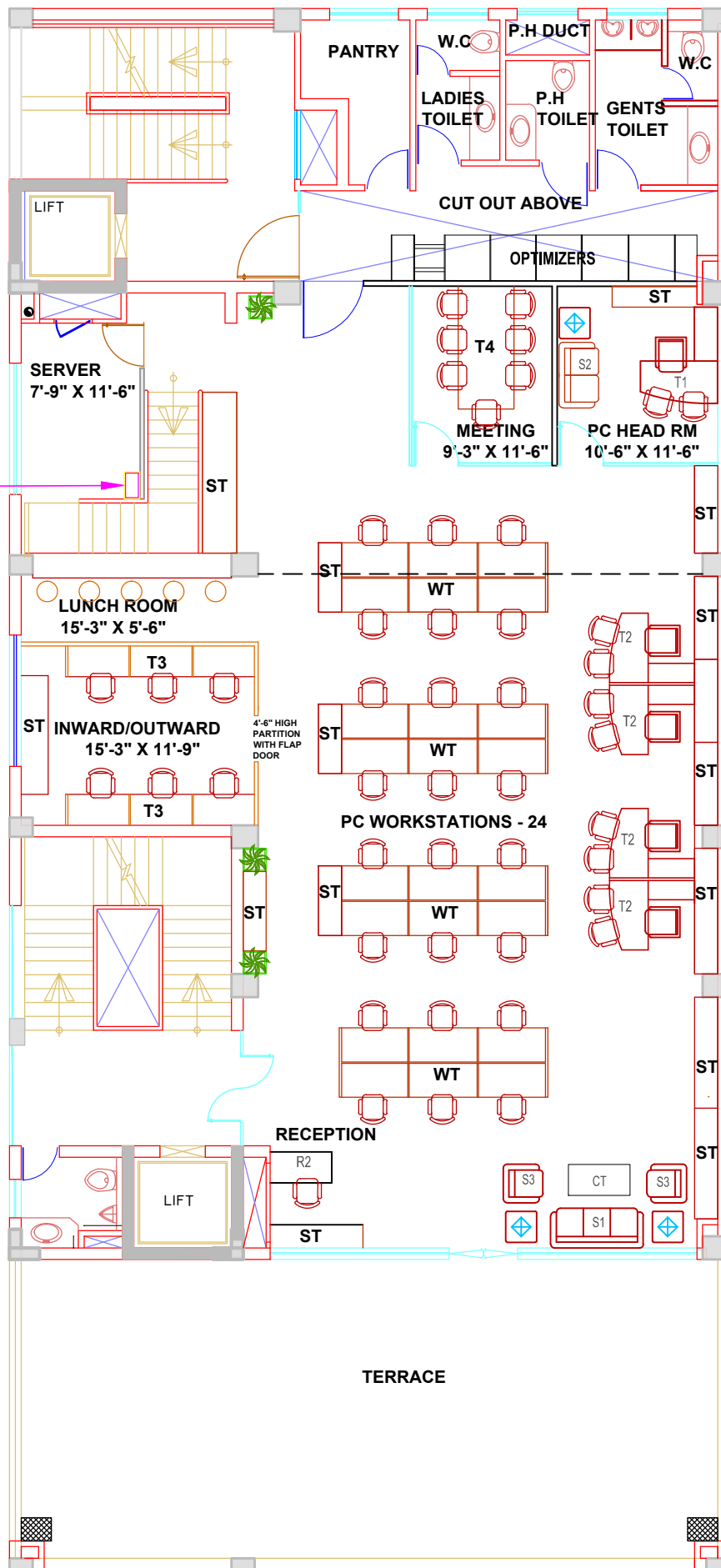
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ARCHITECTURAL DRAWING TITLE

FIRST FLOOR PLAN

ARCHITECTURAL DRAWING NO.

FLP-02



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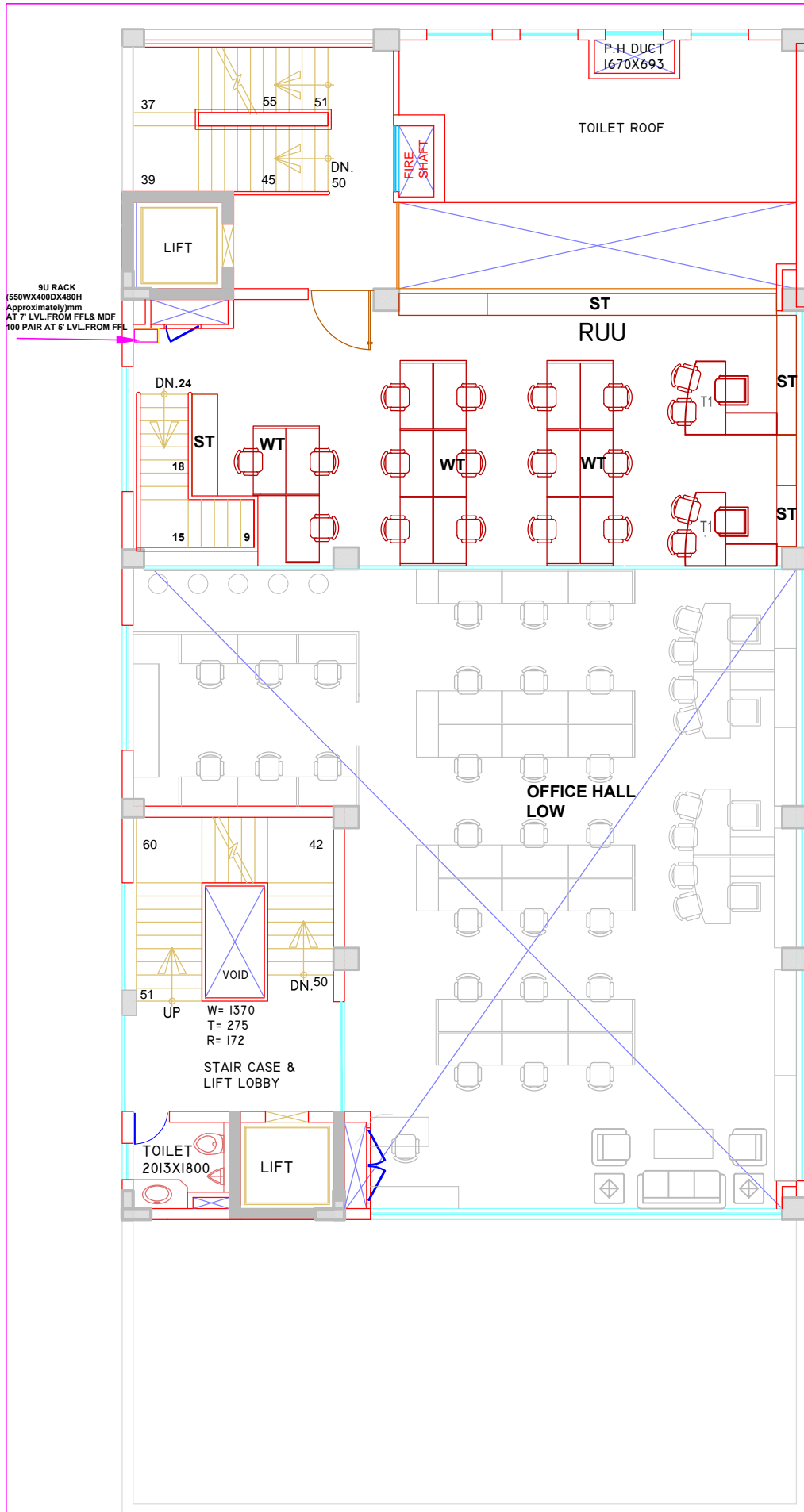
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ARCHITECTURAL DRAWING TITLE

MEZZANINE FLOOR PLAN

ARCHITECTURAL DRAWING NO.

FLP-03



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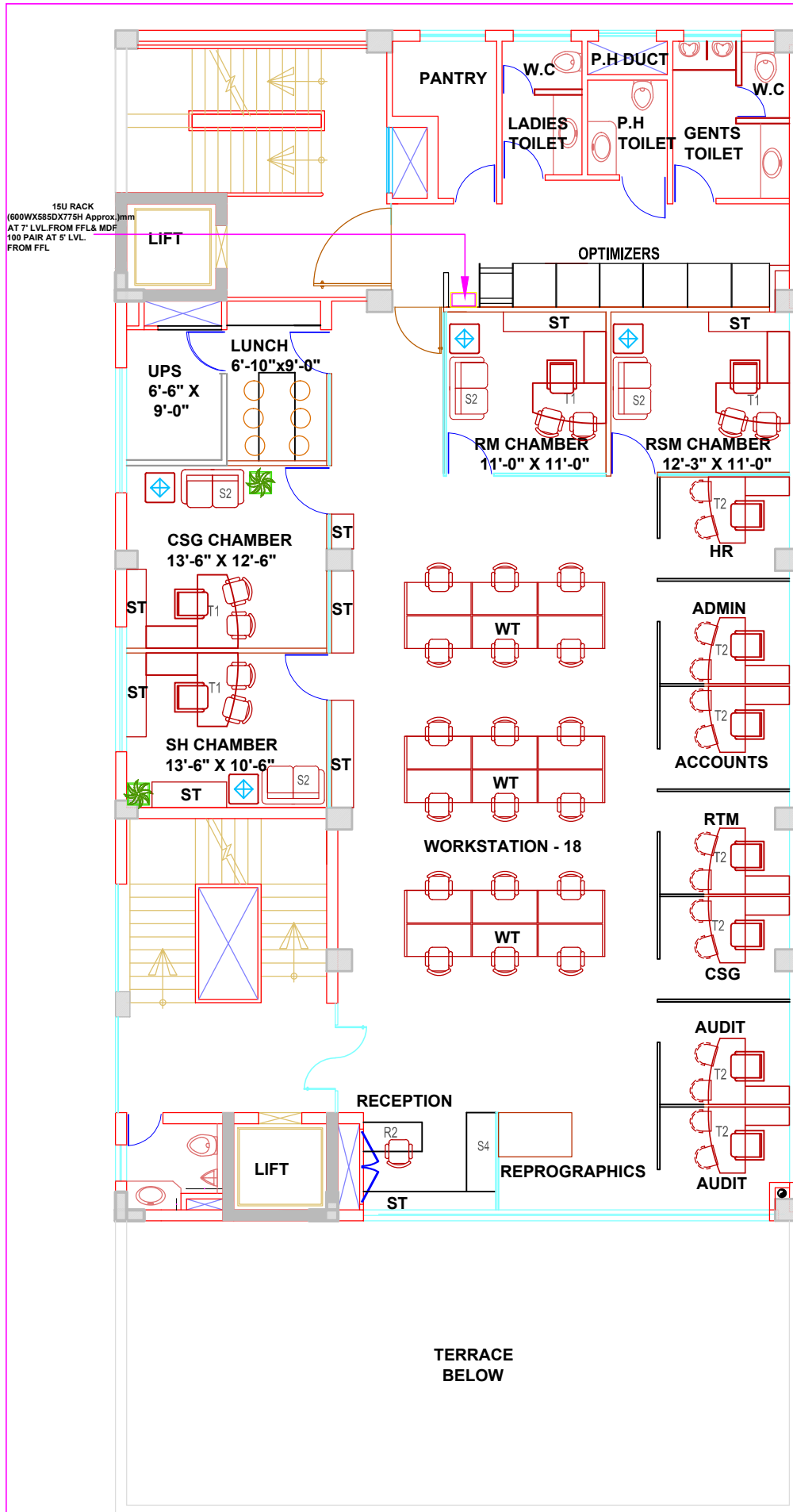
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ARCHITECTURAL DRAWING TITLE

THIRD FLOOR PLAN

ARCHITECTURAL DRAWING NO.

FLP-05



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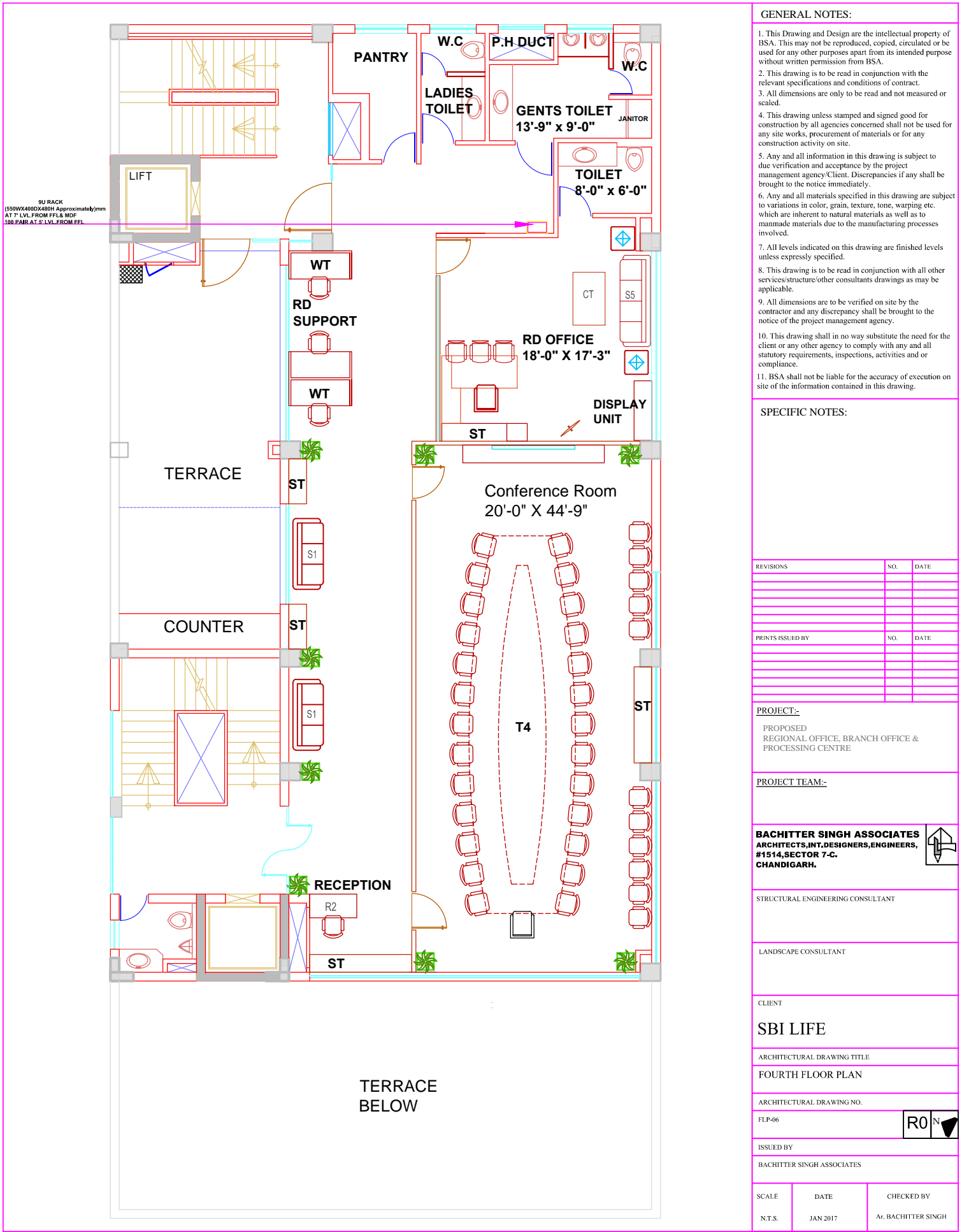
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ARCHITECTURAL DRAWING TITLE
FOURTH FLOOR PLAN

ARCHITECTURAL DRAWING NO.

FLP-06

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