

SHORT NOTICE TENDER

**NOTICE INVITING TENDER FOR
CIVIL AND INTERIOR WORKS AT
STAFF ROOM, SRI GURU GOBIND
SINGH COLLEGE OF COMMERCE,
PITAMPURA, NEW DELHI**

(TWO BID SYSTEM)

Tender shall be submitted in 3 separate envelopes

Envelope One: Technical Bid
Envelope Two: Financial Bid
Envelope Three: Earnest Money Deposit

Start of Sale of Tender documents: 05 December 2017
Last Date of Sale of Tender documents: 11 December 2017
Date of Submission of Tender Document: 12 December 2017

Prepared by:
Ranjit Singh and Associates
1206 Surya Kiran Building, 19 K.G. Marg ,
New Delhi 110001

**Sri Guru Gobind Singh College of Commerce
(University of Delhi) Pitampura, New Delhi**

Sealed Item rate tenders in two bid system (Technical Bid and Financial Bid) are invited by the Principal, Sri Guru Gobind Singh College of Commerce for Civil and Interior Works at Staff Room, Sri Guru Gobind Singh College of Commerce, New Delhi from reputed building contractors who have executed three similar works costing not less than 25.0 Lakh or two similar works costing not less than 37.0 Lakh or one similar work costing not less than 50.0 Lakh in the last three years.

Tenderers shall furnish proof of satisfactory completion of such work issued by the client along with their full company profile including list of T&P, technical staff, PAN No, GSTN No, solvency certificate and 3-year ITR of company. **All these documents will be submitted in the technical bid for the tender.** Technical bid shall be opened first and after evaluation and finalization of technical bid, the list of eligible contractors shall be prepared and financial bid of the short-listed contractors shall be opened.

Tender documents can be obtained from the office of Principal Sri Guru Gobind Singh College of Commerce, Pitampura New Delhi 110034 from 05/12/2017 to 11/12/2017 during working hours on payment of Rs. 1000/- by DD in favor of Principal Sri Guru Gobind Singh College of Commerce.

Earnest Money Deposit	Rs. 1,25,000/- (Rupees One Lakh Twenty-Five Thousand only) in a separate envelope
Last Date of Sale of Tenders	11/12/2017
Last date of Submission of Tenders	12/12/2017 upto 3:00 pm
Date of Opening of Technical Bid	12/12/2017 at 3:30 pm
Date of Finalization of Technical Bid	Will be conveyed to eligible contractors

Note: Tender Document can also be downloaded from the college website www.sggsc.ac.in and Delhi University Website www.du.ac.in Downloaded tender shall accompany a DD of Rs. 1000/- drawn in favor of Principal Sri Guru Gobind Singh College of Commerce, as cost of tender (Non-refundable). Downloaded tender documents shall be spiral bound before submission. Loose, Stapled or incomplete bid documents will be rejected. College reserves the right to reject any or all the tenders without assigning any reason.

Issued: _____

Dated: _____

Principal,
Sri Guru Gobind Singh College of Commerce
Pitampura, New Delhi

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APPENDIX

Defects Liability period	12 Months
Date of Commencement	The 10 th day after the date on which The Architect /Engineer-in-charge issues written orders to commence the works or the date of handing over the site whichever is later
Date of Completion	6 months from the date of commencement
Penalty for delay	5,000/-per day up-to maximum 10% of the cost of the works.
Value of work for Interim Certificate	Rs. 15,00,000/- (Rupees Fifteen Lakh only)
Earnest Money Deposit	Rs. 1,25,000/- (Rupees Two lakh only)
Retention Percentage	5%(As per the terms and conditions)
Performance Guarantee	Before issue of letter to start the work, Contractor shall furnish a performance guarantee in the form of a Bank Guarantee to the tune of Five percent (5%) of the cost of the accepted tender amount, which will be kept valid up to 12 months after completion of the works.

Contractor

Employer

**Sri Guru Gobind Singh College of Commerce,
(University of Delhi) Pitampura, New Delhi**

Dated 05/12/2017

NOTICE INVITING TENDER

- 1) Sealed Tenders are invited by the Principal, Sri Guru Gobind Singh College of Commerce for Civil works pertaining to the construction of New covered entry/exit and Renovation works for staff room at Sri Guru Gobind Singh College of Commerce, New Delhi.
- 2) The Architects for this job are M/s Ranjit Singh & Associates, 1206 Surya Kiran Bldg, 19 Kasturba Gandhi Marg, New Delhi –110001. Ph. 011-23312688 Fax: 011-43560879 Email: rsa1206@msn.com.
- 3) The Tender shall be submitted in the prescribed form.
- 4) The works are required to be completed within a period of Six months from the date of commencement.
- 5) The date of commencement shall be from the 10th day after the date on which the Architect/Engineer-in-charge issues written orders to commence the work or from the date of handing over of the site whichever is later.
- 6) The work shall be carried out in accordance with the phasing plan approved by the college authorities to avoid disturbance to the normal working of the College. The site is expected to be handed over immediately. The contractor will prepare and submit a Phasing Plan with Bar Chart of all construction activities with targeted dates of completion for all the construction activities and get it approved from the college authorities
- 7) Tender documents consisting of terms and conditions and Tender schedule can be obtained from the office of the Principal, Sri Guru Gobind Singh College of Commerce, New Delhi on any working day from 05/12/2017 to 11/12/2017 on the payment of Rs. 1,000/- by crossed cheque in favours of Principal Sri Guru Gobind Singh College of Commerce. This amount is non-refundable.
- 8) Completed Tender should accompany PAN number, GSTN registration number, email address, phone number and registered address of the Contractor
- 9) Plans, specifications etc. pertaining to the works can be inspected in the office of M/s Ranjit Singh & Associates, 1206 Surya Kiran Bldg, 19 Kasturba Gandhi Marg, New Delhi 110001, during office hours on any working day OR in the office of the Principal, Sri Guru Gobind Singh College of Commerce, New Delhi with prior appointment.
- 10) CONTRACTORS are advised to inspect and examine the site and the surroundings and satisfy themselves before submitting their Tender as to the nature of the ground and sub-soil (so far as practicable), the form and the nature of the site, the means of access to the

site, the accommodation they may require and in general shall themselves obtain necessary information as to the risks, contingencies and other circumstances which may influence or affect their Tender. CONTRACTOR shall be deemed to have full knowledge of the site, whether he inspects it or not and no extra charge consequent to any misunderstanding or otherwise shall be allowed.

- 11) Submissions of the Tender by the CONTRACTOR implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and local conditions and other factors bearing on the execution of the works.
- 12) A CONTRACTOR should quote in figures as well as in words rate(s) quoted. The amount for each item should be worked out and the requisite totals given. Special care shall be taken to write rates in figures as well as in words and the amount in figures only in such a way that interpolation is not possible. The total amount shall be written both in figures and in words. In case of figures the words "Rs." should be written before the figure of rupees and the words "paise" should be written at the end. Unless the rate is in whole rupees and followed by the word "only" it should invariably be upto two places of decimals.
- 13) All rates shall be quoted on the Tender form only.
- 14) Tender shall be received by the office of the Principal, Sri Guru Gobind Singh College of Commerce, New Delhi up-to 1500 hours on 12/12/2017 and the technical bid shall be opened at 1530 hours on the same day in the presence of the CONTRACTORS, who may be present or the earliest convenient time and day thereafter.
- 15) The Tender shall be accompanied by earnest money deposit of Rs. 1,25,000/- (Rupees One Lakh Twenty-Five Thousand only), in the form of a demand draft in favor of the Principal, Sri Guru Gobind Singh College of Commerce, New Delhi.
- 16) On acceptance of the Tender, earnest money will be treated as a part of the security. In addition, contractor shall furnish performance guarantee in the form of an F.D.R or bank guarantee of 5% of the accepted Tender cost in favor of Principal, Sri Guru Gobind Singh College of Commerce, New Delhi before issue of letter to start the work
- 17) The CONTRACTOR, whose Tender is accepted, shall permit of the Principal, Sri Guru Gobind Singh College of Commerce, New Delhi at the time of making any payments to him for works done under the contract to deduct towards security deposit such sum as will along with the amount of earnest money already deposited amount to the following % of the cost of the work: -
 - 5% of the bill amount.
 - 50% of the security money will be released along with the final bill and the balance after expiry of the successful performance of the Defects Liability Period of one year without any interest.
- 18) Sri Guru Gobind Singh College of Commerce, New Delhi will return the earnest money where applicable, to every unsuccessful CONTRACTOR on return of all the Tender

documents without any interest.

- 19) A CONTRACTOR shall submit the Tender which satisfies each and every condition laid down in this notice, failing which the Tender will be liable to be rejected.
- 20) Sri Guru Gobind Singh College of Commerce, New Delhi does not bind itself to accept the lowest or any tender or to give any reasons for their decision.
- 21) Sri Guru Gobind Singh College of Commerce, New Delhi reserves the right of accepting the whole or any part of the Tender and CONTRACTOR shall be bound to perform the same at his quoted rates.
- 22) Sales tax, purchase tax, turnover tax or any other tax applicable in respect of this contract shall be payable by the Contractor and Sri Guru Gobind Singh College of Commerce will not entertain any claim whatsoever in respect of the same. However, in respect of GST, same shall be paid by the contractor to the concerned department and it will be reimbursed to contractor by Sri Guru Gobind Singh College of Commerce after satisfying that it has been actually and genuinely paid by the contractor
- 23) T.D.S. for VAT/WCT/GST etc. as applicable to union territory of Delhi shall be deducted from the payments to be made to the Contractor and tax deduction certificate shall be issued by Sri Guru Gobind Singh College of Commerce, New Delhi as per govt. guidelines
- 24) This notice of Tender shall form part of the contract documents.

Contractor :
Duly authorized to sign the
On Behalf of M/s
.....
.....
.....

Owner:
For and on behalf of
Sri Guru Gobind Singh College of
Commerce

Signature.....

Date.....

Email.....

Phone.....

Postal Address.....
.....
.....

Authorized Signatory

To,

The Principal
Sri Guru Gobind Singh College of Commerce,
Pitampura, New Delhi.

Dear Sir,

I/We have read and examined the following documents relating to Civil and Interior Works at Staff Room, Sri Guru Gobind Singh College of Commerce, New Delhi.

- 1) Notice Inviting Tender Specifications
- 2) Drawings
- 3) General Conditions of Contract
- 4) Special Conditions
- 5) Tender Schedule

I/We hereby Tender for execution of the works referred to in the aforesaid, documents upon the terms and conditions contained or referred to therein and in accordance in all respects with the specifications, designs, drawings and other relevant details at the rates quoted by us in the Tender schedule. We have visited and examined the site of works and are fully aware of the site conditions, having a bearing on the contract.

In consideration of I/We being invited to the Tender, I/We agree to keep the Tender open for acceptance for 90 Days from the due date of submission thereof and not make any modifications in the terms and conditions which are not acceptable to Principal, Sri Guru Gobind Singh College of Commerce, New Delhi.

A sum of Rs. 1,25,000/- (Bank Draft No.....Dated.....) is hereby forwarded in Bank Draft in the favor of Principal, Sri Guru Gobind Singh College of Commerce, New Delhi as earnest money. If I/we fail to keep the Tender open as aforesaid or make any modifications in the terms and conditions of the Tender which are not acceptable to Principal, Sri Guru Gobind Singh College of Commerce, New Delhi. I/We agree that Principal, Sri Guru Gobind Singh College of Commerce, New Delhi. Shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Should this Tender be accepted, I/we hereby agree to abide by and fulfill all the terms, conditions and provisions of the aforesaid documents.

If after the Tender is accepted, I/we fail to commence the execution of the works as provided in the conditions, I/we agree that Principal, Sri Guru Gobind Singh College of Commerce, New Delhi shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely.

I/We agree that should Principal, Sri Guru Gobind Singh College of Commerce, New Delhi. decide to forfeit earnest money as aforesaid, unless a sum equal to the earnest money mentioned above is paid by us forth-with, the principal Sri Guru Gobind Singh College of Commerce, New Delhi may at its option recover it out of the deposit and in the event of deficiency, out of any other money due to me/us or otherwise.

Duly authorized to sign the Tender
On behalf of M/s

.....

Signature.....

Dated.....

Postal Address.....

SPECIAL CONDITIONS

1. The work shall be carried out as per specifications in the Tender schedule/latest C.P.W.D. Specifications, along with the correction slips; issued up to date of acceptance of Tender in case of doubt the decision of the Architect shall be final and binding on the Contractor.
2. The Contractor shall carryout the work in stages as to cause minimum disturbance to the working of Sri Guru Gobind Singh College of Commerce, New Delhi and other organizations. He shall be responsible for any damage to the equipment or structures, injury to the personnel during the progress of the work and he shall be liable to pay compensation as may be decided by the Principal or his authorized representative in respect of such damages /injuries.
3. The serviceable materials out of the dismantled materials if any will be the property of the college and properly stacked by the Contractor as directed by the Engineer-in-charge. Decision of principal or his authorized representative on the service-ability of the dismantled materials shall be final and binding on the Contractor.
4. All labour Employed by the Contractor shall be covered by the workman's compensation act. Any death, injury or mishap to the workmen of the Contractor will entirely be the Contractor's responsibility and the College, shall not be liable to pay any damages for the same.
5. Contractor shall take adequate safety precautions to avoid any accident etc. at site. Shall erect proper barricades, sign boards, lights, etc. shall provide safety belts, safety shoes, head gears (helmet I.S.I standard) and shall be fully responsible for any criminal & civil liabilities. All safety arrangements are to be made by contractor at his own cost.
6. No labor or material rate escalation claims will be entertained from the contractor as this work has to be completed within 6 months from the date of commencement of work at site.
7. Rates quoted shall be applicable equally to all floors and shall include all lifts and leads. No extras on this account shall be payable.
8. Water and electricity shall be arranged by the Contractor. In case it is available, the same can be provided by the College authorities at one point. A recovery @ 1 % for providing electricity and 1% for providing water shall be made by the college authorities on gross value of work done by the contractor.
9. Rates quoted by the contractor shall be inclusive of all items of work listed below and Any work, supplies or services which might have not been specifically mentioned in the specifications, schedule of items or drawings but are necessary for entire completion of

the work shall be executed / provided/ rendered by the CONTRACTOR without any Extra cost and within the time schedule specified. Rates quoted shall be deemed to include such elements of labour and materials necessary to complete the items of work in all respects

10. Making of any cut out/ opening for electrical wiring/fitting ceiling lights etc. in any of the item of false ceiling, partition, panelling masonry work etc and providing panels of the same finish in partitions panelling shall not be paid extra
11. Contractor shall submit only computerized Bills supported with computerized measurement sheets in A4 size hard copy prints and soft copy in Microsoft Excel Format. Manual Handwritten bills or measurement sheets will not be accepted.
12. Labour Camp will be arranged by the contractor outside the college premises. Sri Guru Gobind Singh College of Commerce does not have space for labour camps inside its premises.
13. Principal SGGSCC Pitampura reserves the right to decrease the items of work, change the specifications of works or remove the entire section of work as may be deemed necessary to finish the works within the available budget.

GENERAL CONDITIONS OF CONTRACT

Definitions: the contract document consists of the agreement, the special and general conditions of the contract, specifications and bills of quantities including all modifications and the contract drawings prepared by the Architect from time to time

1. The site: shall mean the site of contract work at Sri Guru Gobind Singh College of Commerce, New Delhi.
2. Sub-Contractor: includes those who have a direct contract with the Contractor.
3. Notice: written notice shall be deemed to have been served if delivered in person to a member of the Contractors firm.
4. Owner: Principal, Sri Guru Gobind Singh College of Commerce, New Delhi.
5. Work: the term “work” includes both labour and material of the Contractor/Sub-Contractor.
6. Time limits: time limits or 6 months stated in the contract are essence of the contract.
7. Law: law of the place of work shall govern the construction under this contract.
8. Virtual completion: date of virtual completion is the date when the construction is sufficiently completed in accordance with the contract documents, including modifications, if any.
9. Contract documents: shall consist of the following
 - a) Articles of agreement
 - b) General and special conditions of contract
 - c) Technical specifications
 - d) Bills of quantities

TYPE OF CONTRACT

It is an item rate contract. The Contractor shall be paid for the actual quantity and quality of work done, as measured at site on the rates quoted by him, on the basis of a payment certificate issued by the Architect/ Engineer- In charge

SCHEDULE OF QUANTITIES

Schedules of quantities given in the contract bill are provisional and are meant to indicate the intent of the work and to provide a uniform basis for the contract. The Owner reserves the right to increase or decrease any of the quantities or to totally omit any of them. Contractor shall be

bound to carry out the same without claiming any extras.

CONTRACT DRAWINGS

1. In general, drawings shall indicate dimension, position & type of construction.
2. Specifications shall indicate the qualities, methods, and bill of quantities shall indicate the quantum and rates. Any work indicated in drawings and not mentioned in the specifications or vice versa shall be furnished as fully set forth in both.
3. Contractor shall not deviate from the drawings and Architects interpretation of the drawings shall be final and without appeal.
4. Errors/inconsistencies discovered in the drawings shall be instantly brought to the notice of the Architect for interpretation and correction, if any.
5. All drawings are the property of the Architect and shall not be used on any other project.
6. Bar bending schedule, if requested by the Architect/Engineer in-charge shall be furnished to him prior to fabrication.

ARCHITECTS INSTRUCTIONS

If within seven days of receipt of written instructions from the Architect, requiring compliance with an instruction the Contractor does not comply hence-with, then the Owner may get the work executed through another agency at the risk and cost of the Contractor.

SCOPE OF WORK OF CONTRACTOR

The scope of work to be carried out by the CONTRACTOR shall also include the following:

- a) Setting out of the works in respect of position, level dimensions, alignments, etc. including establishment of bench marks, survey reference points, etc.
- b) Clearance of the site.
- c) Site leveling /terracing within the limits as shown in the drawings or as directed by the Engineer In charge.
- d) Disposal of debris, excavated materials, etc. as per the instructions of the Engineer In-Charge
- e) Testing of water, soil and concrete. And any other test as required by CPWD norms
- f) Pumping out rain water/underground water from foundations, excavations and drainage of surface water from work site.
- g) All scaffolding, shorting, centering, shuttering works, etc.

- h) Running and maintenance of all construction plants and equipment, tools and tackles, etc.
- i) All temporary /enabling works such as approach road to the site, water supply, drainage and sewerage, power supply including diesel generator set, temporary offices, stores, construction yard, canteens, toilet blocks, labour camp, fencing, etc.
- j) Protection and maintenance of trees, shrubs, green and other surfaces as instructed by the Engineer In charge.
- k) Any other work required in connection with the execution of the contract work.

The cost of all the above mentioned works shall be deemed to be included in the rates for various items of work although such inclusion may not be specifically spelt out.

Whether specified elsewhere in the Agreement or not, the CONTRACTOR shall provide all materials (including steel and cement unless specifically spelt out in the agreement otherwise), labors of every description, energy and water and all tools, tackles, plant and transport necessary for proper execution of the work to the entire satisfaction of the OWNER.

SAMPLES AND SHOP DRAWINGS

The Contractor shall submit samples of materials and shops drawings required by the Architect with promptness within a week.

PROGRESS CHART

In order to achieve the completion time as stated above, the CONTRACTOR shall submit to the OWNER within 2 (two) weeks from the effective date of Agreement a detailed Bar chart/PERT Network showing all the activities including mobilization, site clearance, procurement of major construction materials like steel and cement, excavation, foundation work, sanitary and water supply work, etc. The list of activities for which the Bar chart/PERT network has been worked out and their commencement, duration and completion shall be subject to the approval of the OWNER

ACCESS FOR ARCHITECT TO THE WORKS

The Architect and his representative shall have access, at all reasonable times, to the work and workshops of the Contractor.

ARCHITECTS STATUS AND DECISIONS

The Architect shall be Owner's representative during the construction period. He shall periodically visit the site to familiarize himself generally with the progress and the quality of

work and to determine, in general if the work is proceeding in accordance with the contract documents. The Architect shall not be required to make exhaustive or continuous on-site inspections to check the quality and quantity of the work, and shall not be responsible for the Contractors failure to carry out the construction work in accordance with the contract documents. During his site inspections the Architect shall inform the Owner about progress of work, defects and deficiencies if any.

The Architect may in his absolute discretion from time to time, issue further drawings, details, written instructions, written decisions and written explanations in regard to: -

1. Variation or modification of the design
2. Quality or quantity of work, addition/alteration/omissions and substitutions of any work
3. Any discrepancy and divergence between drawings and specifications.
4. Removal and re-erection of any works executed by the Contractor
5. Dismissal of any persons employed on the site, who in the opinion of the Architect is not fit for the job.
6. Opening up for inspection any work-covered up
7. Amending and making good any defects under defects liability period
8. Removal from site, any materials brought by the Contractor, which in the opinion of the Architect is not up to the desired standard.
9. Delay and extension of time
10. Postponement of any work

ENGINEER INCHARGE

Engineer In-Charge shall mean the person approved by the Architect and appointed and paid by the Owner and acting under the directions of the Architect.

CONTRACTORS FIELD ORGANIZATION AND EQUIPMENT

1. The Contractor shall employ qualified and competent licensed Electricians on the site.
2. Contractor shall provide and install all necessary hoists, ladders, scaffoldings, tools, tackles, plants and machinery necessary for execution of the works
3. Contractor shall provide and maintain simple water tight office accommodation at site
4. Contractor shall make his own security arrangements at site and keep a 24hours Watchman
5. Contractor shall provide sanitary convenience for site staff and labour to keep the site clean
6. A telephone line at site to be maintained and paid by the Contractor
7. Guardrails shall be provided by the Contractor for safety of labour and general public at the

site of works.

TAXES

Sales-tax, purchase tax, turnover tax or any other tax applicable in respect of this contract shall be payable by the Contractor and Sri Guru Gobind Singh College of Commerce will not entertain any claim whatsoever in respect of the same. However, in respect of GST, same shall be paid by the contractor to the concerned department and it will be reimbursed to contractor by Sri Guru Gobind Singh College of Commerce after satisfying that it has been actually and genuinely paid by the contractor

STATUTORY OBLIGATIONS

The Contractor shall comply with and give all notices required by any Govt. authority and instrument, rule or order made under an act of parliament or state assembly or any regulation or bye-law of the local body, relating to the work and indemnify the Owner against any such liability arising out of noncompliance of the law.

By way of illustration of various Acts/statutory compliances as stated above, the following Acts as amended from time to time shall be complied with by the CONTRACTOR:

- a) Employee's Provident Fund Act 1952
- b) Contract Labour Act (Regulations and Abolition 1970)
- c) Minimum Wages Act 1948
- d) Payment of Wages Act 1936
- e) Workmen Compensation Act 1923
- f) Factories Act 1948
- g) Apprenticeship Act 1961

SUB CONTRACTOR

Before awarding any sub contract, the Contractor shall notify the Architect in writing the names of the Sub-Contractors proposed. Contractor shall not employ the Sub-Contractor to whom Architect or Owner may have a reasonable objection.

MEASUREMENT OF WORK

Unless otherwise specified, measurement of work shall be carried from the works actually executed. The measurements for the purpose of preparing Bills will be taken jointly by the CONTRACTOR's representative and the Engineer In charge. In measurement of work as stated above, the CONTRACTOR shall certify that the work has been carried out strictly as per the drawings, specifications and item of work in terms of the

agreement. Such certificate shall require Engineer In-Charge's endorsement for the purpose of payment.

In the event of any dispute with regard to the measurement of the work executed, the decision of the OWNER shall be final and binding on the CONTRACTOR

In the case of site measurements, should the CONTRACTOR not attend or neglect or fail to send his representative for taking joint measurements, the measurements taken by the Engineer In Charge shall be deemed to be the correct measurement of work and shall be binding on the CONTRACTOR

REJECTION

If the Contract work or any portion thereof, at any time, is found to be defective or fails to fulfill the requirements of the agreement, the Engineer In Charge shall give the CONTRACTOR notice in writing setting-forth particulars of such defects or failure and the CONTRACTOR shall forthwith make good the defects or replace or alter the same to make it comply with the requirements of the agreement.

Any materials, equipment, etc. brought to the site and found to be not in accordance with the agreement, shall be rejected by the Engineer In-Charge and the CONTRACTOR shall remove the materials from the site within the period specified by the Engineer In-Charge.

The CONTRACTOR shall not be entitled to any extension of time or extra cost for rejection as per above

CERTIFICATES OF PAYMENTS

Architect shall issue an interim certificate of payment stating the amount due to the Contractor from the Owner and the Contractor shall be entitled to payment thereof within a period of two week after issue of the certificate. From the total amount, certified deduction shall be made towards payments already made, security deposit, TDS etc.as applicable to Delhi or any other tax applicable at the time of making payment.

All running payments shall be regarded as payment by way of advance against final payment only and not as payment for the work completed till the date of final payment. The running payment made shall not preclude the liability of the CONTRACTOR to finally complete the work strictly in accordance with the specifications and drawings, if required by re-constructing faulty work

CLAIM FOR EXTRA

In the case of extra item(s) (items that are completely new, and are in addition to the items contained in the contract), the contractor will submit rates, supported by rate analysis, for the work and the engineer-in-charge shall within one month of the receipt of the rates supported by rate analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be

paid in accordance with the rates so determined.

DEDUCTION FOR UNCORRECTED WORK

If the Architect deems it in-expedient to correct work damaged or not done in accordance with the contract, an equitable deduction from the contract price shall be made thereof.

FLUCTUATIONS

The Contractor shall not claim any extras for fluctuation of price and the contract price shall not be subjected to any rise or fall in prices.

POSSESSION BEFORE VIRTUAL COMPLETION

If the Owner, with the consent of the Contractor takes possession of part of the building for handing over to the finishing Contractor, such part of the building shall not be deemed to be virtually completed. Virtual completion of such part would occur only on completion of the last part of the structure.

TIME EXTENSION

Upon it becoming reasonably apparent that the progress of the work is delayed, the Contractor shall forthwith give written notice of the cause of delay to the Architect, to enable the Architect and Owner to take a proper decision in the matter.

INSPECTION AND TEST

- i. The CONTRACTOR shall ensure inspection and test of all materials and work at his cost through his ENGINEER IN CHARGE and other technical staff either at site or through any approved laboratory.
- ii. The CONTRACTOR shall ensure proper supervision and inspection during the progress of work at site.
- iii. All materials and work, whether at the site or in the CONTRACTOR's /Sub-Contractor's premises shall be subject to inspection and test by the ENGINEER IN CHARGE. The CONTRACTOR/ his Sub-Contractor shall provide all facilities free of cost to the ENGINEER IN CHARGE including all labor, materials, tools, tackles, instruments, appliances, etc. to enable the ENGINEER IN CHARGE to carry out inspection and/or test.
- iv. All test certificates shall be subject to certification by the ENGINEER IN CHARGE.
- v. The CONTRACTOR shall submit to the ENGINEER IN CHARGE three copies of all inspection/ test certificates.

- vi. The CONTRACTOR shall not be entitled to any claim for extra time or cost due to any delay in carrying out inspection and testing or re-inspection and re-testing if so decided by the ENGINEER IN CHARGE.
- vii. The CONTRACTOR shall take adequate steps to rectify the defects or to replace such materials and work which have failed during inspection /testing

RESPONISBILITY OF COMPLETION

Any work, supplies or services which might have not been specifically mentioned in the specifications, schedule of items or drawings but are necessary for entire completion of the contract work shall be executed / provided/ rendered by the CONTRACTOR without any Extra cost and within the time schedule specified. Rates quoted shall be deemed to include such elements of labor and materials necessary to complete the items of work in all respects.

DAMAGES FOR NON-COMPLETION

If the Contractor fails to complete the works by the date specified or within any extended time granted to him, the Contractor shall allow the Owner to deduct a sum calculated at the agreed liquidated damages, from the money due to him for the period the work remained incomplete, subject to a maximum amount of 10% of the Contract Value.

LIQUIDATED DAMAGES FOR DELAY

If the CONTRACTOR fails to complete the work/item (s) of work in all respects and hand over the same to the OWNER within the time stipulated the CONTRACTOR, without prejudice to any other right or remedy of the OWNER on account of such breach, be liable to pay the OWNER liquidated damages at the rate of 1% (one percent) of the total contract price for delay of every week or part thereof.

The total amount of liquidated damages shall be limited to 10% (Ten percent) of the total contract price.

The above provisions shall not apply in cases of delay for which the CONTRACTOR is entitled to extension of completion time

VIRTUAL COMPLETION CERTIFICATE AND DEFECTS LIABILITY PERIOD

When in opinion of the Architect the works are practically completed, he shall forthwith issue a certificate to that effect, that date will be taken as the date of virtual completion.

The Architect shall prepare a schedule of defects, not later than 14 days after the expiry of the defects liability period. The Contractor shall within a reasonable period of time after receipt of schedule of defects shall rectify the same, failing which the Architect will make

suitable deductions from the contract sum.

MAINTENANCE GUARANTEE / DEFECTS LIABILITY PERIOD

Maintenance Guarantee period will be 12 months from the actual date of completion and handing over to the OWNER.

- a) The CONTRACTOR guarantees that within the maintenance guarantee period, the contract work shall not show any signs of defects, cracks, settlements, disfigurations, shrinkage, leakage, dampness or any other defects.
- b) The CONTRACTOR shall maintain and satisfactorily execute, at his own cost, all such works of repair, amendment, re-construction, rectification, replacement and any other work to make good the faulty work as stated in Article (a) during the maintenance guarantee period.
- c) The CONTRACTOR shall, if required by the ENGINEER IN CHARGE, search for the causes of any defects, imperfection or fault under the direction of the ENGINEER IN CHARGE. The cost of such search shall be borne by the CONTRACTOR.
- d) At intervals specified by the ENGINEER IN CHARGE the CONTRACTOR, along with the ENGINEER IN CHARGE, shall inspect the contract work to satisfy himself that no defects have cropped up in the contract work. Should there be any signs of defects, the CONTRACTOR shall take immediate steps to rectify the same, failing which; the ENGINEER IN CHARGE may get the defects rectified at the risk and cost of the CONTRACTOR.
- e) At the end of the maintenance guarantee period, the CONTRACTOR, along with the ENGINEER IN CHARGE, shall carry out final inspection of the contract work to prove that no defects had appeared in the contract work or that all defects which appeared in the contract work have been rectified to the entire satisfaction of the ENGINEER IN CHARGE. If during the final inspection it is found that the defects still remain in the contract work, the period of maintenance guarantee shall be extended at the discretion of the ENGINEER IN CHARGE and the CONTRACTOR shall be liable to make good the defects and be responsible for the maintenance of the work till the defects have been fully rectified.
- f) Upon successful completion of the maintenance guarantee period the OWNER shall issue final acceptance certificate to the CONTRACTOR

PAYMENT WITH HELD

The Architect may withhold or on account of subsequently discovered evidence nullify the whole or part of any certificate to such an extent as may be necessary in his reasonable opinion to protect the Owner from loss, for defective work, non- payment to Subcontractors, or other claims connected to this work.

INJURY TO PERSONS

The Contractor shall indemnify the Owner against any liability, loss, claim or proceedings whatsoever arising under any statutory or common law in respect of personal injury to or the death of any person, whomsoever arising out of or in the course of or caused by carrying out the work.

INSURANCE

Without prejudice to his ability to indemnify the Owner, the Contractor and his Subcontractors shall maintain such insurance as are necessary to cover the liability of the Contractor and the sub-Contractors.

INSURANCE AGAINST FIRE

The Contractor shall in the joint name of the Owner and the Contractor, insure against loss or damage due to fire, earthquakes and riots.

COORDINATION OF WORK

Contractor shall extend complete coordination to other agencies i.e. air-conditioning, firefighting and interiors working on the same site.

LABOUR

Contractor shall not employ child labour under 14 years of age and if female workers are employed he should make provision for safeguarding the small children to keep them clear of the site. All labour shall wear safety helmets and shoes to protect them from injury.

SAFETY

In respect of all labour directly or indirectly employed in the work for the performance of the contractor's part of this contract, the contractor shall at his own expense arrange for the safety provisions as per C.P.W.D. Safety Code framed from time to time and shall at his own expense provide for all facilities in connection therewith. In case the contractor fails to make arrangement and provide necessary facilities as aforesaid, he shall be liable to pay a penalty of Rs.200/- for each default and in addition, the Engineer-in- Charge shall be at liberty to make arrangement and provide facilities as aforesaid and recover the costs incurred in that behalf from the contractor.

ANTIQUITIES

All fossils and other objects of interest or value, which may be found on the site or in excavating the same during progress of the work, shall become a property of the Owner. The Contractor shall carefully take out and preserve all such objects and hand them over to the Owner, through the Architect.

GUARANTEE

Besides guarantees required elsewhere, the Contractor shall guarantee the works in general for one year after completion of defects liability period.

TREES AND SHRUBS

The Contractor shall protect trees and shrubs designated by the Owner/Architect/Engineer In Charge from damage during the course of work

PERFORMANCE GUARANTEE

In addition to the Security Deposit the Contractor shall furnish a performance guarantee in the form of a Bank Guarantee to the tune of Five percent (5%) of the cost of the tender amount, which will be kept valid up to 12 months after completion of the work.

ARBITRATION

In case of dispute, the difference of opinion on any matter pertaining to the works, the decision of the Architect shall be final and binding on the contractors and the owners. If either party is not satisfied with the decision of the Architect, within 28 days a notice to this effect will be sent to the Architect in writing. The matter can then be referred to sole arbitrator or a panel of two arbitrators who should be fellows of Indian Institute of Architect, for a final award. Decision of Principal SGGSCC shall be final and binding in this regard.

LIQUIDATION

If the CONTRACTOR commences to be wound up, not being a member's voluntary winding up for the purpose of amalgamation or reconstruction, or carries on his business under a receiver for the benefits of his creditor the OWNER shall be at liberty to:

- i) Give such receiver the liquidator or other person the option of carrying out the performance under the Agreement, subject to the receiver, liquidator or other person providing a guarantee up to an amount to be agreed upon by the OWNER and such

receiver liquidator or other person for the due and faithful performance of the CONTRACTOR's obligations under this Agreement, or

ii) If the receiver, liquidator or other person fails within 30 (thirty) days to exercise the option to carry out performance of the Agreement then the OWNER may terminate the Agreement and give notice in writing to the CONTRACTOR or to the receiver, liquidator or to any person in whom the Agreement may have become vested.

TERMINATION OF CONTRACT

If the CONTRACTOR violates the Agreement or shall neglect to execute the work with due diligence or expedition or shall refuse or neglect to comply with any reasonable directions, instructions or orders given to him in writing by the Architect/Engineer In-Charge in connection with the work or shall contravene or breach any provisions of the Agreement, the OWNER may give notice in writing to the CONTRACTOR to make good the failure, neglect or contravention complained of or cure that breach within a period of 30 (thirty) days of receiving such notice and in default of the compliance with the said notice, the OWNER without prejudice to his rights as below may rescind or terminate the Agreement stating therein the effective date of termination, holding the CONTRACTOR liable for the damages that the OWNER may sustain in this behalf.

Without prejudice to any of the rights or remedies under this contract, if the contractor dies, the Owner shall have the option of terminating the contract without compensation to the CONTRACTOR.

CIVIL WORKS

SECTION A. EARTHWORK, DISMANTLING AND DEMOLISHING WORKS

The rates quoted shall include the following:

1. Excavation either straight, inclined or curved in trenches, footings, rafts, basements etc., including raking out, cutting and dressing sides and bottom to true dimension and depositing excavated stuff beyond three meters clear of the edge of the trench, filling back as required and disposal of surplus earth anywhere within the plot as directed by engineer-in charge/ architect.
2. Clearing all shrubs, roots, vegetation and trees from alignment of the buildings
3. Bailing out, pumping out or otherwise removing all water which may accumulate in the excavation from any or all causes whatsoever
4. All labour and material required for fencing and protection against risk of accident to open excavations etc., with necessary shoring planking and strutting and for providing gangways, with handrails across open trenches etc., where necessary during the progress of the work.
5. Watching and lighting arrangements wherever necessary whether ordered by the Owner/Architect/Engineer-In Charge or otherwise
6. Filling back available excavated earth in plinths, sides of foundations, sides of basements, under floors and for ground formation etc., as and where required in 150 mm thick layers, breaking coods, ramming, watering, consolidation, the same with 10 M.T. Rollers or hand tampers where rollers are not accessible, and dressing the filled up areas.
7. Battering, benching, forming steps in the sides of foundations and mass excavations where required and removal of the slips and falls. This item is not payable separately.
8. Anti termite treatment shall be got done through a specialized sub-contractor approved by the architect. This item is payable separately. The contractor shall guarantee against termite for a period of 10 years.
9. Water proofing shall be done by specialized agency as approved by the Architect/Engineer Incharge. Water proofing Agency shall give a guarantee for its effectiveness over a period of 10 years. The rates for waterproofing shall be

inclusive of all labour and material for the successful completion of the job. This item is payable separately.

10. Water table has to be maintained at least 1.0 Mt., below lean concrete level of raft by providing adequate de-watering arrangements. This water table has to be maintained till Basement floor slab is cast including the retaining wall. This item is not payable separately.

11. Water table shall also be maintained till such time the waterproofing of retaining wall and raft is complete. This item is not payable separately.

S.NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
A	SECTION A : EARTH WORK , DISMANTLING AND DEMOLISHING WORKS				
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.				
1.a	All kinds of soil	CUM	230		
1.b	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials (upto 3 meter depth)	CUM	40		
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations , floor etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	CUM	80		

S.NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
A	SECTION A : EARTH WORK , DISMANTLING AND DEMOLISHING WORKS				
3	Demolishing R.C.C. work in columns, beams, slabs, staircases, waist slabs etc. including all covering plaster/ flooring etc. manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 meters lead as per direction of Engineer - in- charge.	CUM	10.0		
4	Dismantling existing wall plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	SQM	300		
5	Demolishing brick work in cement mortar manually/ by mechanical means including its wall plaster, stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.	CUM	10		
6	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area beyond 3 sq. metres	EACH	15		
7	Providing, diluting and injecting chemical emulsion (Chlorpyriphos/Lindane E.C. 20% with 1% concentration) for anti-termite treatment of under floor soil @ one litre per hole, 900 mm apart including drilling 1meter deep 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand)Anti-termite treatment shall be got done through a specialized sub-contractor approved by the owner. The contractor shall guarantee against termite for a period of 10 years (base + walls)	SQM	110		

S.NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
A	SECTION A : EARTH WORK , DISMANTLING AND DEMOLISHING WORKS				
8	Disposal of excess earth/ building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	CUM	400		
9	Providing and laying integral cement based treatment for water proofing on horizontal surface at all depth below ground level for underground structures as directed by Engineer-in-Charge and consisting of : i) Ist layer of 22 mm to 25 mm thick approved and specified rough stone slab over a 25 mm thick base of cement mortar 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound conforming to IS:2645 in the recommended proportion over the leveling course (leveling course to be paid separately). Joints sealed and grouted with cement slurry mixed with water proofing compound. ii) 2nd layer of 25 mm thick cement mortar 1:3 (1 cement: 3 coarse sand) mixed with water proofing compound in recommended proportions. iii) Finishing top with stone aggregate of 10 mm to 12 mm nominal size spreading @ 8 cudm/sqm thoroughly embedded in the 2nd layer.				
9.a	Using rough kota stone.	SQM	50		

S.NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
A	SECTION A : EARTH WORK , DISMANTLING AND DEMOLISHING WORKS				
10	Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing specified stone slab 22 mm to 25 mm thick with cement slurry mixed with water proofing compound conforming to IS:2645 in recommended proportions with a gap of 20 mm (minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:3 (1 cement : 3 coarse sand) 20 mm thick with neat cement punning mixed with water proofing compound in recommended proportion complete at all levels and as directed by Engineer-in-charge :				
9.a	Using rough Kota stone	SQM	60		
	TOTAL AMOUNT OF SECTION - A EARTH WORK, DISMANTLING AND DEMOLISHING WORKS				

SECTION B: PLAIN AND REINFORCED CEMENT CONCRETE

The rates quoted below shall include the following:

1. Making all drips, grooves, moulds, curved surfaces and chamfered edges etc. in concrete and/or plaster work as directed
2. Forming all expansion and/or construction joints as per standard specification and/or as directed.
3. All projections, toothings, ornamental work etc. and finishing to shape as directed.
4. Embedding all electric pipes, fan hook boxes, false ceiling suspensions and inserts of any description etc. in R.C.C slab, beam, walls etc., as directed.
5. Installing a calibrated cube-testing machine at site, getting it calibrated every month and submitting test report to the architects. Alternately getting the cubes tested in an approved lab.
6. Preparing 7 days and 28 days test cube, testing them at site and /or getting tested in an approved laboratory including all fees, costs, transportation etc. relating to them.
7. Providing slump tests apparatus at site and test for checking the workability of concrete.
8. Working up or hacking of concrete surfaces for providing keys for further concrete work including applying thick cement slurry or mortar as directed
9. Providing 12 mm thick cement plaster 1:6 (1 cement: 6 fine sand) and a coat of lime wash on all brick wall surfaces serving as bearing for RCC work.
10. Exposed architectural or ordinary centering, shuttering and formwork, strutting, boxing, propping etc. except wherever specified to exclude in the item. Shuttering to be made water tight with plywood and timber if necessary.
11. Use of shuttering oil as specified
12. Use of cement slurry over shuttering before commencing concreting

13. Machine mixing of all concretes and hoisting to all lifts, carrying to all leads, consolidating by rodding, vibrating, tamping and curing.
14. Sinking of floors in specified areas.
15. Providing of dowel bars wherever directed by the architect/engineer.
16. Forming cutouts, openings and concreting at a later stage as required
17. Providing sleeves for pipes etc. before concreting
18. Working in narrow widths, small quantities and curved alignments etc.
19. Removing rust, mild scales, oil, grease, paint etc. from steel reinforcement.
20. Providing 16 gauge annealed binding wire and binding the reinforcement with the same without any extra cost on the account for labour or material
21. Providing cover to steel with cement concrete briquette spacers at no extra cost.
22. Payment of labour for laying steel as per Indian standard section weights actually placed in position as per design and drawing or as directed
23. The contractor shall not undertake the RCC work including form-work of first floor before laying lean concrete on the lowest floor if so directed by the architect/engineer.
24. Wherever new structural slab/beam is to be connected with the old structural slab/beam, the cost of chipping the necessary old concrete members and re-casting the same is to be included in the item.

S.No.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
B.	SECTION B : PLAIN AND REINFORCED CEMENT CONCRETE				
1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:				
1.a	1:4:8 (1 Cement: 4 coarse sand: 8 graded stone aggregate 40mm nominal size)	CUM	10.0		
2	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. (Note: - Cement considered in this item is 43 Grade OPC Cement)				
2.a	All works up to plinth level.	CUM	47		
2.b	All works above plinth level up to floor VI level.	CUM	16		

S.No.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
B.	SECTION B : PLAIN AND REINFORCED CEMENT CONCRETE				
3	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto all lvl.				
3.a	Thermo-Mechanically Treated bars. (Only TATA Or SAIL)	MT	10		
4.	Providing and fixing in position 12mm thick bitumen impregnated fiber board conforming to IS: 1838, including cost of primer, sealing compound Grade-A in expansion joints.	per cm depth per 100 m	15		
5.	Providing and fixing sheet covering over expansion joints with iron screws as per design.				
5.a	Aluminium fluted strips 3.15 mm thick. 200 mm wide	MTR.	15		
6	Centering and shuttering including strutting, propping etc. and removal of form for all works at all levels:				
6.a	Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.	SQM	81		
6.a	Foundations, footings, bases of columns, etc. for mass concrete.	SQM	45		
6.b	Suspended floors, roofs, landings, balconies and access platform.	SQM	100		
6.c	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	SQM	50		

S.No.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
B.	SECTION B : PLAIN AND REINFORCED CEMENT CONCRETE				
6.d	Columns, Pillars, Piers, Abutments, Posts and Struts.	SQM	30		
6.e	edges of slabs and breaks in floors and walls				
6.f	under 20 cm wide	meter	15		
	TOTAL AMOUNT OF SECTION B : PLAIN AND REINFORCED CEMENT CONCRETE				

SECTION C : MASONRY WORK

The rates quoted shall include the following:

1. Work in English bond or any other design as directed by the architect/engineer incharge.
2. Work in square round and rectangular pillars, flower troughs, under floor drains, making curved and tapered surfaces steps etc.
3. Forming openings, chases, grooves etc.
4. Embedding/ cutting chases for conduits, boxes other fixture of any descriptions, hold fasts of doors,
5. Fixing Windows glazing etc.,
6. Making all drip courses, projected courses of any description, offsets, setbacks, corbels, architrave's or any other feature of description.
7. Raking out joints for plastering or pointing in plinth super structure or finishing joints flush in foundation as directed
8. Bonding with RCC work
9. Work in narrow widths, small quantities etc. supplying moulds, taking briquettes, getting tested, any fees, costs etc., relating to the same.
10. Machine mixing of mortars
11. Curing of brick work
12. Preparing bricks for testing (efflorescence, water absorption, crushing strength, shapes, sizes etc.) in the field laboratory and or an approved laboratory, and any fees, costs etc. relating to them.

S.No.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
	SECTION C : MASONRY WORK				
1	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor VII level in :				
1.a	Cement mortar 1:6 (1 cement : 6 Coarse sand)	CUM	5		
2	Half brick masonry with non-modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor VII level in :				
2.a	Cement mortar 1:4 (1 cement :4 coarse sand)	SQM	280		
3	Extra for providing and placing in position 2 Nos. 6mm dia. M.S. bars at every third course of half brick masonry.	SQM	280		
	TOTAL AMOUNT OF SECTION C : MASONRY WORK				

SECTION D: ALUMINIUM AND STEEL WORK

The rates quoted below shall include the following

1. Providing and fixing all flush door shutters of M/S DURO/GREEN/VIRGO/CENTURY make with 18mm teakwood lipping on all edges.
2. Kiln seasoning and termite proofing of all timber work
3. Providing so-lignum paint to hidden faces of timber work
4. The frames for doors, windows, AC openings or any other frame shall be measured for finished dimensions. The length of projections for tenons etc. shall not be measured for payment.
5. Providing heavy quality SS hardware fittings and fixtures which shall be included in the rates of the shutters as per details below
 - a. single door shutter
 - b. i) Butt hinges 100 mm long 4.00 No.
 - c. ii) Stainless Steel Handles 200 mm long 2.00 No.
 - d. iii) Door stopper 1.00 No.
 - e. double door shutter
 - f. i) Butt hinges 100 mm long 8.00 No.
 - g. ii) Stainless Steel Handles 200 mm long 4.00 No.
 - h. iii) Door stopper 2.00 No.
6. The rate shall include spirit polish for all exposed wood work and veneer finishes unless specified otherwise.
7. All items for wood work shall be got approved by the architects before applying primer coat
8. Areas of door and windows shutters shall be measured in closed position covering the rebates of the frame. Overlap of two shutters shall not be measured. The width and height of shutters shall be measured correct to one centimeter within frame rebates
9. Teak ply to be fixed to base cladding/commercial board with group matching

10. All block board and ply shall be used of BWP grade, termite and “powder beetles” proof.
11. Supplying and fixing of M.S. frames in the openings with lugs 16 mm x 3.15 mm x 10 cms long in cement concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20 mm nominal size) blocks of size 15 x10 x 10 cms or with wooden plugs and screws or with rawl plugs and screws or with clips or with bolts and nuts as required.
12. Supplying and fixing of approved quality of heavy anodised aluminium hardware fittings.
13. Supplying and fixing approved heavy quality oxidized M.S. Hardware fittings to steel glazed windows/doors as per drawing.
14. Painting all M.S. Works with a coat of red oxide primer.
15. Providing necessary couplings, transom and mullions wherever required.
16. Providing mastic compound at junction of window or glazing frames with openings to make the joint water tight and for embedding mullions.
17. Minimum thickness of glass to be used in glazing to be 5.5 mm unless otherwise specified.
18. Contractor shall provide full shop drawings for Wood work, Steel Work and Aluminum doors, windows and partitions with full details of Aluminum sections and joinery for approval from architect/ engineer in charge before proceeding with procurement of materials or starting of these works at the site.

S.NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
D	SECTION D : ALUMINIUM AND STEEL WORK				
1	Providing and fixing 25mm dia curtain rods of 1.25 mm thick chromium plated brass plate, with 2 no.s of chromium plated brass brackets fixed with C.P. brass screws and wooden plugs, etc. complete , wherever necessary complete (over windows openings). Curtain road to include Fancy brass Holdbacks (finials) and matching rings. 1 Ring per 10-centimeter length				
1.a	2000 mm long	EACH	8		
2	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to wooden frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand:6 graded stone aggregate 20mm nominal size).	EACH	30		
3	Providing and fixing bright finished heavy duty SS tower bolts (barrel type) with necessary SS screws etc. complete (Only Dorma/Dorset/Hafle/Hettich Make)				
3.a	250x10 mm	EACH	5		
4	Providing and fixing bright finished Heavy duty SS AL drop with necessary SS screws etc. complete :				
4.a	300x16x5 mm	EACH	5		
5	Providing and fixing bright finished Heavy duty SS 304 Grade handles with SS screws etc. complete:				

S.NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
D	SECTION D : ALUMINIUM AND STEEL WORK				
5.a	Dorset Xia 8” SS (200mm) pull Handle (Or equivalent in Godrej, Golden locks, Dorma, Hettich)	PAIR	5		
5.b	Dorset SOP 12” SS (300mm Pull) Handle (Or equivalent in Godrej, Golden locks, Dorma, Hettich)	PAIR	5		
6	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete. (Only of Godrej/Hettich/Dorset/Dorma)	EACH	5		
7	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	KG	160		

S.NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
D	SECTION D : ALUMINIUM AND STEEL WORK				
8	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285,(Jindal/ Hindalco make only) including fixing with Hilti dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including Hilti dash fasteners, cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling to be paid for separately) :				
9.a	For fixed portion				
9.b	Powder coated or Anodized aluminium (minimum thickness of powder coating 50 micron)(minimum 2mm thick aluminum section of Jindal/Hindalco only)	KG	650		
10	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber /neoprene gasket etc. complete (minimum 2mm thick aluminum section of Jindal/Hindalco only)				
10.a	Powder coated or Anodized aluminium (minimum thickness of powder coating 50 micron)	KG	490		

S.NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
D	SECTION D : ALUMINIUM AND STEEL WORK				
11	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item):				
11.a	With float glass panes of 5.50 mm thickness	SQM	27		
11.b	Providing and fixing double glazed hermetically sealed glazing in aluminium windows, ventilators and partition etc. with 6 mm thick clear float glass both side, having 12 mm air gap, including providing EPDM gasket, perforated aluminium spacers, desiccants, sealant (Both primary and secondary sealant) etc. as per specifications, drawings and direction of Engineer-in-charge including door, door handle, lock, stopper etc. complete.	SQM	20		
12	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stonework by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.				
12.a	Upto 5mm depth and 5 mm width	meter	25.20		
13	Providing and fixing 150mm brass handle and lock (Only Godrej/ Victory/ Kodia/ Laxmi make) for aluminium doors including necessary SS Screws, cutting and making good etc. complete. (1 Set includes 2 Handles and One Lock and Keys)	SET	5		

S.NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
D	SECTION D : ALUMINIUM AND STEEL WORK				
	TOTAL AMOUNT OF SECTION - D ALUMINIUM AND STEEL WORK				

SECTION E : FLOORING

The rates quoted below shall include the following

1. Cleaning and final preparation of base, sub-grade or sub floor by trimming undulations etc., including applying neat cement slurry.
2. Laying floors to required slope in any size and shape of panels and strips of any description.
3. Making “V” grooves of any pattern in plaster and dados including rounding off junctions with floors.
4. Baroda/Kota stone slabs or tiles in floors, treads and risers, of steps, skirting, wall cladding etc., shall be machine cut of sizes as per approved samples and shall be laid and fixed as per pattern shown on the drawing
5. Cutting holes in stone for treads of steps for fixing staircase-railing balustrades.
6. Cleaning paint splashes, drops or dirt, glasses, joinery, electric fittings, wiring etc., including washing the floors and leaving the premises neat and clean.
7. Edge polishing to stone slabs and tiles shall not be paid separately.
8. Grinding and polishing shall be blade edge granite polish to all marble and granite.
9. Measurement shall be as per drawing.

S.No.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
E.	SECTION E : FLOORING				
1	Providing and fixing 18 mm thick gang saw cut, mirror polished, pre-moulded and pre-polished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.				
1.a	Granite of any colour and shade (Basic cost Rs. 110 per sqft)				
1.b	Area of slab upto 0.50 sqm	SQM	10		
2	Mirror polishing on marble work/Granite work/stone work where ever required to give high gloss finish complete.	SQM	10		
3	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : Stone work in treads of steps to be joint less i.e. single length (1500 mm long) to be used in main staircase and 1400mm long on fire escape staircase				
3.a	25 mm thick	SQM	91.00		

S.No.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
E.	SECTION E : FLOORING				
4	<p>Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.</p> <p>Stone work in risers of steps to be joint less i.e. single length (1500 mm long) to be used in main staircase and 1400mm long on fire escape staircase</p>	SQM	15.50		
4.a	Extra for pre-finished nosing in treads of steps of Kota stone/ sand stone slab.	metre	62.50		
5	<p>Providing and laying Polished vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colors and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc.,complete. (Kajaria, Orient, Somani, Asian Make Only). Basic cost of tile Rs. 65/- per Sq. Ft.</p>				
5.a	Size of Tile 800x800 mm	SQM	600		
6	<p>Providing and laying Polished Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, dado, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete.</p>				

S.No.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
E.	SECTION E : FLOORING				
	(Kajaria, Orient, Somani, Asian Make Only). Basic cost of tile Rs. 65/- per Sq. Ft				
6.a	Size of Tile 800x800 mm	SQM	40		
7	Extra for using "+" shaped 2 mm wide plastic spacers at corners (to be removed before jointing) during fixing of Vitrified tile in floor to achieve a perfectly straight joint line, and jointed with Laticrete or approved equivalent jointing compound of matching shade in place of white cement with matching pigment all complete as per direction of E-I-C	SQM	600		
	TOTAL AMOUNT OF SECTION E: FLOORING				

SECTION F : FALSE CEILING, ROOFING AND TERRACE WATERPROOFING

The rates quoted shall include the following:

1. Cleaning and final preparation of base for laying water proofing
2. Making ridges and valleys over terrace finished surface true in line and slope as per drawing
3. All items of terracing shall be as per CPWD specifications
4. Keeping the roof clean and protecting the terrace water proofing form any damage during progress of work at site

S.NO	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
F.	SECTION F: FALSE CEILING, ROOFING AND TERRACE WATERPROOFING				
1	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10mm and down gauge) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :				
1.a	In 75x75mm deep chase	Metre	47		
2	Providing and fixing 2 x 2 grid false ceiling (tiles and frame) at all heights of size 595X595mm of approved texture, design and pattern. The tiles should have Humidity Resistance (RH) of 99%, Light Reflectance > 85%, Thermal Conductivity k = 0.052 - 0.057 w/m K, Fire Performance as per (BS 476 pt - 6 &7)in true horizontal level suspended on interlocking Heavy Duty T-Grid of hot dipped all round galvanized iron section of 0.33 mm thick (galvanized @120 gsm) comprising of main T runners of 15x32 mm of length 3000 mm, cross T of size 15x32mm of length 1200 mm and secondary intermediate cross T of size 15x32 mm of length 600 mm to form grid module of size 600x600 mm suspended from ceiling using galvanized mild steel item (galvanised @80gsm) 50 mm long 8mm outer				

S.NO	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
F.	SECTION F: FALSE CEILING, ROOFING AND TERRACE WATERPROOFING				
	diameter M-6 dash fasteners, 6 mm diameter fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 85x25x2 mm, spaced at 1200 mm centre to centre along main 'T'.				
2.a	The system should rest on periphery walls /partitions with the help of GI perimeter wall angle of size 24x24X3000 mm made of 0.40 mm thick sheet, to be fixed to the wall with help of plastic rawl plug at 450 mm centre to centre & 40 mm long dry wall S.S. screws. The exposed bottom portion of all T-sections used in false ceiling support system shall be pre-painted with polyester baked paint, for all heights. The work shall be carried out as per specifications, drawings and as per directions of the engineer-in-charge.				
2.b	With Ceiling Tile of Armstrong Make ULTIMA+ or equivalent from Gyproc Only	SQM	580		

S.NO	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
F.	SECTION F: FALSE CEILING, ROOFING AND TERRACE WATERPROOFING				
3	<p>Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations:</p> <p>a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment.</p> <p>b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.</p>				
	<p>c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/sqm of cement admixed jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep.</p> <p>e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All</p>				

S.NO	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
F.	SECTION F: FALSE CEILING, ROOFING AND TERRACE WATERPROOFING				
	above operations to be done in order and as directed and specified by the Engineering-Charge:				
3.a	With average thickness of 120 mm and minimum thickness at khurras as 65 mm.	SQM	47		
	TOTAL AMOUNT OF SECTION F: FALSE CEILING, ROOFING AND TERRACE WATERPROOFING				

SECTION G - FINISHING

The rates quoted below shall include the following:

1. Cleaning and final preparation of base, sub-grade or sub-floors by trimming undulations etc. including applying neat cement slurry.
2. Raking out, joints, cleaning the surface, application of cement slurry and providing and fixing 300 mm wide 24-gauge chicken mesh tightly secured at the junctions of brickwork and RCC work, electrical conduits, plumbing conduits before applying plaster skirting and dados treatment.
3. Work in patches, narrow widths, small quantities, curved surfaces, projected bands, set backs, offsets corbels, architrave's etc.
4. Repairing and finishing the junctions of skirting and dados with plaster
5. Finishing the edge of electrical fittings and boxes etc.
6. Use of scaffolding, cradles etc., dust sheets and other coverings for the protections of fixtures, fittings, furniture, floors etc.
7. Junctions of all RCC and brick shall be provided with chicken wire mesh of 150 mm width on either side of the junction before plastering.

S.NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
G.	SECTION G: FINISHING				
1	12 mm cement plaster of mix (Junctions of all RCC and brick shall be provided with chicken wire mesh of 150 mm width on either side of the junction before plastering)				
1.a	1:3:3 (1 cement: 3 coarse sand: 3 fine sand)	SQM	545		
2	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand). (Junctions of all RCC and brick shall be provided with chicken wire mesh of 150 mm width on either side of the junction before plastering)	SQM	50		
3	6mm cement plaster to ceiling of mix 1:3 (1 cement:3 fine sand)				
3.a	1:3 (1 cement: 3 fine sand)	SQM	680		
4	External painting works: External painting works at all heights and levels as per procedure mentioned including 1) Surface preparation (scrapping, sanding, cleaning) 2) A liberal coat of Wall Primer as per manufacturers specification 3) Painting 2 or more coats of Exterior Weather Proof Paint in various colors (Asian/ ICI /Shalimar/ Berger/ Nerolac) 4) Horizontal surfaces like the tops of chajjas and parapets must be given an additional coat for greater protection				

S.NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
G.	SECTION G: FINISHING				
4.a	Contractor's scope includes all materials, tools & plants, paint brushes & rollers of approved makes, ropes, lifts, ladders, safety equipment's, scaffolding and all other equipment's as may be required to complete the works successfully. (The rates include all labour, materials and items of work required to complete the work successfully up to the satisfaction of the owner)	SQM	50		
5	Internal painting works: Internal painting works at all heights and levels as per procedure mentioned including 1) Surface preparation (scrapping, sanding, cleaning) 2) One coat of Wall Primer as per manufacturers specification 3) Coat of White cement based putty (JK/BIRLA) 4) One liberal coat of wall primer over wall putty 5) Painting 2 or more coats of Premium acrylic emulsion of interior grade, having VOC content less than 50 grams/ litre in various colors (Asian/ ICI /Shalimar/ Berger/ Nerolac)				
5.a	Contractor's scope includes all materials, tools & plants, paint brushes & rollers of approved makes, ropes, lifts, ladders, safety equipment's, scaffolding and all other equipment's as may be required to complete the works successfully. (The rates include all labour, materials and items of work required to complete the work successfully up to the satisfaction of the owner)	SQM	1225		

S.NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
G.	SECTION G: FINISHING				
6	Exterior- Providing and fixing “dovetex” or equivalent tiles for external wall cladding to match the size, Texture and colour, of the tiles used in the existing building. Wall surface should be given a coat of 12 mm to 15 mm thick cement plaster (1: 5). 1 cem: 5 coarse sand and to fix the tiles with 6 mm thick cem. Mortar 1 : 3 (1 cem. : 3 coarse sand) while the base plaster is still fresh (i.e. within 24 hours.)	SQM	130		
7	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it thereafter .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineering-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding.	SQM	60		
	TOTAL AMOUNT OF SECTION G : FINISHING				

SUMMARY OF PART I : CIVIL WORKS		
S.NO.	DESCRIPTION	AMOUNT
1	SECTION A : EARTHWORK, DISMANTLING AND DEMOLISHING WORKS	Rs.
2	SECTION B : PLAIN AND REINFORCED CEMENT CONCRETE	Rs.
3	SECTION C : MASONARY WORK	Rs.
4	SECTION D : ALUMINIUM AND STEEL WORK	Rs.
5	SECTION E : FLOORING	Rs.
6	SECTION F : FALSE CEILING,ROOFING AND TERRACE WATERPROOFING	Rs.
7	SECTION G : FINISHING	Rs.
	TOTAL AMOUNT OF PART I : CIVIL WORKS	Rs.
	GST	Rs.
	GRAND TOTAL	Rs.

Approved Make Of Materials (applicable wherever the make is not listed in the item)		
Civil Works		
Serial No.	Materials	Manufacturer
1)	Commercial Ply And Commercial Board	Duro, Green, Virgo
2)	Teak Ply	Duro, Green, Virgo
3)	Laminate	Greenlam, Decolam, Virgo, Merino
4)	Mirror	Modigaurd, Saint Gobain
5)	Glass	Modi Float, Saint gobain
6)	Flush Door Shutters	Duro, Green, Virgo, Sitapur, Mysore (First Quality) Or Equivalent
7)	Paints	Nerolac, I.C.I, Asian
8)	Mortice Latches And Locks	Godrej, Dorset, Hardwyn
9)	Coarse Sand	As Per Is:383 (Latest Edition) Approved Quarry Or Equivalent
10)	Fine Sand	Do
11)	Stone Aggregate	Do
12)	Aluminum Section	Indal Or Jindal (Heavy Quality) Or Equivalent
13)	Wall and Floor Tiles	Orient, Kajaria, Nitco, Bell, Regency Or Equivalent
14)	Mdf Board	Green Panel Max
15)	Hinges-Ms Oxidised	Heavy Duty
16)	Tower Bolt-Aluminium	Do
17)	Door Stopper-Aluminium	Do
18)	L-Drop – Aluminium	Do
19)	Handle- Aluminium	Do
20)	Pvc Strips/ Hand Rail	Fixo Pan Or Equivalent
21)	Cement	Ultratech, L&T, Ambuja
22)	Steel	Tata, Sail

PART II - ELECTRICAL WORKS

SECTION A: CIRCUIT CUM POINT WIRING

S.NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
A	SECTION A : CIRCUIT CUM POINT WIRING				
1	Wiring for the following light points with 1.5 sq.mm PVC insulated copper conductor 1100 volts grade stranded flexible FRLS wires of approved make in concealed or surface mounted 25 mm dia 16 gauge MS Conduit including providing and fixing of 6 amps single pole modular switch of approved quality colour make & design in 1.6 mm thick GI box and earthing of fixtures and the outlet box with 1.5 sq.mm PVC insulated copper conductor stranded flexible "FRLS" wire.(including circuit wiring from DB to switch Board)				
1.1	Primary point as above.	No.	38		
1.2	Same as item no. 1) above but Secondary point (Controlling switch and GI box included in item no. 1)	No.	136		
2	Wiring for ceiling fan point with 1.5 sq.mm PVC insulated copper conductor 1100 volts grade stranded flexible "FRLS" wires in concealed or surface mounted 25 mm dia 16 gauge MS conduits, including providing fan hook box, 6 amps switch and 300 watts electronic step type fan regulator of approved make in GI box and earthing the fan and outlet box with 1.5 sq. mm. PVC insulated copper conductor stranded flexible FRLS wire.(including circuit wiring from DB to switch Board).	No.	44		

S.NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
A	SECTION A : CIRCUIT CUM POINT WIRING				
3	Wiring for 250 volts single phase and neutral 16 amps modular switch socket outlet with universal pins with 3 x 4 sq.mm PVC insulated copper conductor 1100 volts grade stranded flexible "FRLS" wire in concealed or surface mounted 25 mm dia 16 gauge MS conduit / existing raceway including providing and fixing of 16 amps 3 pin modular switched sockets of approved make and design in 1.6 mm thick GI box with grid plates and earthing the third pin of each socket outlet with 4 Sq mm PVC insulated copper conductor stranded flexible "FRLS" wire.				
3.1	Primary point for 16 amps switched socket outlet	No.	9		
3.2	Same as item no. 3 above but secondary point looped with primary point	No.	6		
4	Wiring for 250 volts single phase and neutral 6 amps modular switch socket outlet with universal pins with 3x4 sq.mm PVC insulated copper conductor 1100 volts grade stranded flexible "FRLS" wire in concealed or surface mounted 25 mm dia 16 gauge MS conduit / existing raceway including providing and fixing of 6/16 amps 3 pin modular switched sockets of approved make and design in 1.6 mm thick GI box with grid plates and earthing the third pin of each socket outlet with 2.5 Sq mm PVC insulated copper conductor stranded flexible "FRLS" wire.				
4.1	Primary point for 6 amps switched socket outlet	No.	14		
4.2	Same as item no. 4 above but secondary point looped with primary point	No.	62		

S.NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
A	SECTION A : CIRCUIT CUM POINT WIRING				
5	Wiring for 250 volts single phase and neutral 6 amps modular switched socket outlet with universal pins with 3x2.5 sq.mm PVC insulated copper conductor 1100 volts grade stranded flexible "FRLS" wire in concealed or surface mounted 25 mm dia 16 gauge MS Conduit / existing raceway including providing and fixing of 6 amps 3 pin modular switch socket outlet of approved make and design in 1.6 mm thick GI box with grid plate and earthing of third pin of the socket with 2.5 Sq. mm PVC insulated copper conductor stranded flexible "FRLS" wire (maximum six to eight no. of 6 amps switches socket shall be connected on one circuit)				
5.1	Primary point for 1 No. 6 amps switched socket outlet with universal pins.	No.	2		
5.2	Same as item No. 5 above but secondary point looped with primary point	No.	RO		
6	Wiring for 250 volts single phase and neutral 16 amps polycarbonate industrial 3 pin (IP 65/66) socket outlet with 16 amps double pole MCB in a poly carbonate enclosure of approved size and design with 3x4 sq.mm PVC insulated copper conductor 1100 volts grade stranded flexible "FRLS" wires in concealed or surface mounted 25 mm dia 16 gauge MS Conduit, including providing and fixing of 16 amps socket and DP MCB (IP 65/66) in poly carbonate enclosure and earthing of third pin of the socket with 4 sq.mm PVC insulated copper conductor stranded flexible FRLS wire.	No.	8		

S.NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
A	SECTION A : CIRCUIT CUM POINT WIRING				
7	Wiring for Exhaust fan point with 1.5 sq. mm. insulated copper conductor 1100 volts grade stranded flexible "FRLS" wires of approved make in concealed or surface mounted 25 mm dia 16 guage MS Conduit including providing and fixing of 6 amps flush mounted switch at the normal switch level in 2 mm thick GI box and 6 amps 3 pin flush mounted socket near exhaust fan and earthing of exhaust fan through the third pin of the socket outlet and GI box with 1.5 sq. mm. PVC insulated copper conductor flexible "FRLS" wire.	No.	4		
8	Providing and fixing in position the following 16 gauge MS conduits concealed or exposed as called for including all accessories i.e. bends, junction boxes, with cover plates of approved make and design.				
8.1	20 mm dia MS conduit	RM	25		
8.2	25 mm dia MS conduit	RM	25		
8.3	32 mm dia MS conduit	RM	20		
9	Providing and fixing in position the following 2mm thick PVC rigid conduits concealed or exposed as called for including all accessories i.e. bends, junction boxes, with cover plates of approved make and design.				
9.1	20 mm dia PVC conduit	RM	1500		
9.2	25 mm dia PVC conduit	RM	200		

S.NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
A	SECTION A : CIRCUIT CUM POINT WIRING				
9.3	Sub main wiring with 2 run x 6 sq mm Single core PVC insulated cable unsheathed multistranded copper conductor LT 1100 volts grade FRLS cable IS-694 marked drawn in & including PVC conduit ISI marked of suitable dia including conduit accessories with one run single core copper cable 6 sq mm multistranded conductor colour code as a earth continuity and connecting upto DB all as specified and directed.	RM	20		
	TOTAL AMOUNT OF SECTION A : CIRCUIT CUM POINT WIRING				

SECTION B: CABLES, MAINS AND SUB MAINS

S.NO	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
B	SECTION B: CABLES, MAINS AND SUB MAINS				
1	Supplying of following 1100 volt grade XLPE insulated PVC sheathed aluminium conductor armoured cables as per specification.				
1.1	4 core 25 sq. mm	RM	30		
2	Supplying of following 1100 volt grade XLPE insulated PVC sheathed copper conductor armoured cable as per specification.				
2.1	4 core 10 sq.mm	RM	20		
2.20	4 core 6 sq. mm	RM	2		
2.3	3 core 6 sq. mm.	RM	90		
3	Cable end termination of the following PVC insulated sheathed XLPE /copper conductor armoured cables of 1100 volt grade including supplying and fixing of bimettalic copper crimping lugs, single compression glands with earthing facility and cable sockets etc. complete as required.				
3.1	4 core 25 sq. mm.	No.	8		
3.2	4 core 16 sq. mm.	No.	8		
3.3	4 core 10 sq. mm.	No.	4		
3.4	4 core 6 sq. mm.	No.	4		
3.5	3 core 6 sq. mm.	No.	16		

S.NO	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
B	SECTION B: CABLES, MAINS AND SUB MAINS				
4	Cable end termination of the following PVC insulated sheathed XLPE copper conductor armoured cables of 1100 volt grade including supplying and fixing of bimettalic crimping lugs, single compression glands with earthing facility and cable sockets etc. complete as required.				
4.1	Low resistance / amie braided 30 core 1.5sqmm cable	No.	6		
	TOTAL AMOUNT OF SECTION B: CABLES, MAINS AND SUB MAINS				

SECTION C : MAIN LT PANEL AND SUB DISTRIBUTION BOARDS

S.NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
C	SECTION C : MAIN LT PANEL AND SUB DISTRIBUTION BOARDS				
1	DISTRIBUTION BOARDS				
1.1	Supply, installation, testing and commissioning of the following cubicle type 1.6 mm thick CRCA sheet steel enclosed and partitions to segregate phases recessed in wall or surface mounted final distribution boards of the following description. Distribution board shall be powder coated and double door construction and in four tier configuration.				
1.2	12 way TPN DB with 36 No 10/16/20/32 amps SP MCB as outgoing and 3 No. 32 amps DP RCCB's of 100 mA leakage current including 1 No. 40 amps 4 Pole MCB as incomer & separate neutral link for each phase and earth bar.	No	1		
1.3	8 way TPN DB with 24 No 10/16/20/32 amps SP MCB as outgoing and 3 No. 32 amps DP RCCB's of 100 mA leakage current including 1 No. 40 amps 4 Pole MCB as incomer & separate neutral link for each phase and earth bar.	No	1		
1.4	4 way SPN DB with 8 Nos. 10/16 amps SP MCB as outgoing and 1 No. 32 amps DP RCCB's of 100 mA leakage current with 40 amps DP MCB as incomer including neutral link	No.	1		
1.5	Supply, installation, testing and commissioning of 63 amps 4 pole MCB in 1.6 mm thick MS enclosure of approved make design and painted with approved paint shade.	No.	1		
	TOTAL AMOUNT OF SECTION C : MAIN LT PANEL AND SUB DISTRIBUTION BOARDS				

SECTION D : EARTHING INSTALLATION

S.NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
D	SECTION D : EARTHING INSTALLATION				
1	Supplying, fixing, testing and commissioning of following bare Copper/GI tapes including all necessary fixing accessories and effecting connections.				
1.1	25 mm x 6 m thick GI tape	RM	RO		
1.2	25 x 3 mm thick GI tape.	RM	25		
1.3	8 SWG GI wire	RM	25		
2	Pipe Earthing as per IS:3043 with perforated 3.0 Mtr. Long, 40 mm dia. ' B ' class G.I. Pipe including all accessories like nut, bolts, reducer, nipple, wire meshed funnel, and C.C. finished chamber covered with hinged type with locking arrangement C.I. Cover, C.I. Frame of size 300mm x 300 mm and embodying the pipe complete with alternate layers salt and coke/charcoal, testing of earth resistance as required.	No.	2		
3	Supply, laying, connecting, testing and commissioning of Single core 120 sq.mm Green colour cable (UPS neutral earthing).	RM	15		
	TOTAL AMOUNT OF SECTION D : EARTHING INSTALLATION				

SECTION E : LIGHTING FIXTURES

S.NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
E	SECTION E : LIGHTING FIXTURES				
1	Supply, installation, testing and commissioning of the following lighting fixtures and fans with all fixing accessories etc. as required.				
1.2	Ceiling fan 1200 mm dia of approved make complete with all accessories as required.	No.	44		
1.3	Propeller fan upto 450 mm sweep of approved make complete with louvers all accessories as required.	No.	2		
1.4	LED light fitting, Philips 2 X 2 Full Glow 38-Watt 3500 Lm LED light panel complete with all accessories pre-wired and including connecting up with twin core twisted flexible copper conductor cable with suitable size	No	140		
1.5	Supply and fix surface mounting T5 lamp luminaires 1x28W including tube with plastic extruded housing with in-built electronic control gear with decorative end caps. Product code 530447, type of luminaire BTIP 128 LHD. (make bajaj- cat no. 160483) or equivalent model in Philips, Osram	No	34		
	TOTAL AMOUNT OF SECTION E: LIGHTING FIXTURES				

SECTION F: CONDUITING WIRING AND CABLING FOR TELEPHONE/DATA SYSTEM

S.NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
F	SECTION F: CONDUITING WIRING AND CABLING FOR TELEPHONE/DATA SYSTEM				
1	Supply, installation, testing and commissioning of flush mounted outlets wired to T 568 A or B with British style faceplate. The plastic shall be high impact, flame-retardant, UL rate thermoplastic. Dust cover/ blank shall be provided to protect unused faceplate openings. Termination caps and plastic over should be provided to protect jack wiring. Quoted price shall be inclusive of 1.6 mm thick GI Boxes.				
1.1	Single outlet faceplate with RJ-45 jack	No.	78		
2	Supply, installation, testing and commissioning of 4 pair Category 6 LAN cable consisting of 24 AWG solid copper conductors and as per the specification.				
2.1	The cable should have flexible Jacket & ripcord for easy strip ability	RM	400		
3	Supply and fixing of 16 gauge mm thick MS Conduits in following sizes including cost of junction boxes, bends, elbows, sockets, tees etc. laying in slab, cutting chases and making good or surface mounted including all fixing hardware.				
3.1	32 mm dia	RM	20		
3.2	25 mm dia	RM	100		
4	Supply, fixing, cable termination, testing and commissioning of Tag Blocks and boxes with lockable door etc. as required.				

S.NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
F	SECTION F: CONDUITING WIRING AND CABLING FOR TELEPHONE/DATA SYSTEM				
4.1	10 pair tag box	No.	1		
5	Supply and fixing telephone outlets with grid plate and RJ-11 jack in 1.6 mm thick GI box complete including cutting, chases, fixing of GI boxes and making good (Cover plate shall match the colour size and make of wiring accessories to be used in the project).	No.	11		
6	Supply, laying, installation, testing and commissioning of following PVC insulated tinned copper conductor cable / wires in existing cable tray / conduits.				
6.1	2 pair 0.61 mm wire	RM	60		
	TOTAL AMOUNT OF SECTION F : CONDUITING WIRING AND CABLING FOR TELEPHONE/DATA SYSTEM				

SUMMARY OF PART II : ELECTRICAL WORKS		
S.NO.	DESCRIPTION	AMOUNT
1	SECTION A : CIRCUIT CUM POINT WIRING	Rs.
2	SECTION B : CABLES, MAINS AND SUB MAINS	Rs.
3	SECTION C : MAIN LT PANEL AND SUB DISTRIBUTION BOARDS	Rs.
4	SECTION D : EARTHING INSTALLATION	Rs.
5	SECTION E : LIGHTING FIXTURES	Rs.
6	SECTION F : CONDUITING WIRING AND CABLING FOR TELEPHONE/DATA SYSTEM	Rs.
	TOTAL AMOUNT OF PART II: ELECTRICAL WORKS	Rs.
	GST	Rs.
	GRAND TOTAL OF ELECTRICAL WORKS	Rs.
	GRAND TOTAL OF CIVIL WORKS	Rs.
	TOTAL COST OF TENDER	Rs.

LIST OF APPROVED MAKES FOR ELECTRICAL WORKS			
S.No.	Details of Materials / Equipment		Manufacturer's Name
1	LT Panel , Main Distribution Panel, Sub- Main Distribution Panel and Motor Control Centre		Tricolite industries Ltd.
			Adlec Control System
			SPC Electro Tech Pvt. Ltd.
			Ambit Switchgear
			Milestone
2	Sandwiched Construction Bus ducts		Control & Switchgear
			Henikwon (L&T)
			GE
			Schneider Electric
3	Final Distribution Board		Legrand
			Hager
			ABB
			Siemens
			Schneider Electric (MG)
4	Air Circuit Breaker (3/4 Pole)		Schneider Electric (MVS)
			Larsen & Toubro (C-Power)
			ABB(E-Max)
			Siemens
5	Moulded Case Circuit Breaker (MCCB)		Larsen & Toubro
			ABB
			Schneider Electric (CVS)
			Siemens
6	Motor Protection Circuit Breaker(MPCB)		Hager
			ABB
			Schneider Electric
			Siemens
7	Miniature Circuit Breakers (MCB)		Hager
			ABB
			Schneider Electric
			Siemens
8	Residual Current Circuit Breaker (RCCB)		Hager
			ABB
			Schneider Electric
			Siemens
9	Power/Aux. Contactor / Capacitor		Schneider Electric (MG)
	Duty Contactor		Hager (L&T)
			ABB
			Siemens
10	Change Over Switch		Larsen & Toubro
			C & S

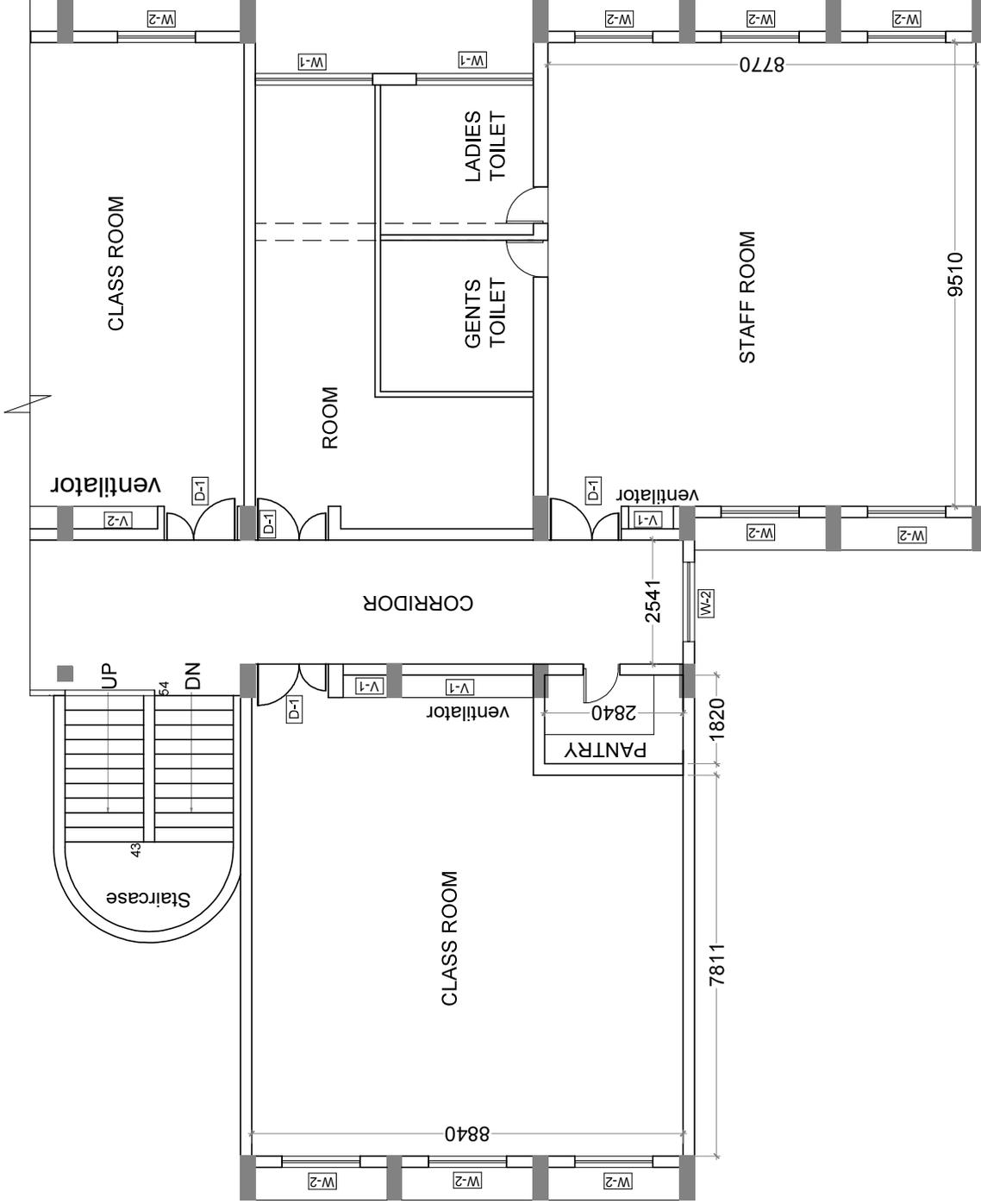
LIST OF APPROVED MAKES FOR ELECTRICAL WORKS			
S.No.	Details of Materials / Equipment		Manufacturer's Name
			HPL – Socomec
11	Control Transformer/Potential Transformers		Automatic Electric
			Matrix
			Pragati
			Precise
12	Current Transformer (Epoxy Cast Resin)		Automatic Electric
			Matrix
			Pragati
			Precise
13	Protection Relay		
	a. Numeric Type		ABB
			Areva
			Larsen&Toubro
			Siemens
	b. Electromagnetic Type		ABB
			Areva
			Larsen&Toubro
14	Indicating Lamps LED type and Push Button		Vaishno Electricals
			Larsen & Toubro (ESBEE)
			Schneider Electric Siemens
15	Overload relays with built in Single Phase preventer		ABB
			Larsen & Toubro
			Schneider Electric
			Siemens
16	a. Electronic Digital Meters (A/V/PF/Hz/KW/KWH) with LED Display		Conzerv
			Schneider Electric
			Secure
	b. ISI Marked Dual Energy Meter with centralized metering & billing system		Secure
			Radius
17	Static Power Meter & Logger (SPML) With RS 485 port		Conzerv
			Schneider Electric
			Secure
18	Power Capacitor		Matrix
			Ducati
			EPCOS
			Meher
19	Autoamtic Power Factor Correction Relay		Areva

LIST OF APPROVED MAKES FOR ELECTRICAL WORKS		
S.No.	Details of Materials / Equipment	Manufacturer's Name
	(Numeric Type)	BELUK (Germany)
		Siemens
20	PVC insulated XLPE aluminium/copper conductor	Cable corporation of India
	armoured MV Cables upto 1100 V grade	Skytone
		Ravin Cable
		Polycab
		KEI
		Dimond
21	LT Jointing Kit / Termination	Birla-3M
		Raychem
		REPL
		Safe Kit
22	Cable Glands Double Compression with earthing links	Baliga Lighting
		Comet
		Cosmos
23	Bimettalic Cable Lug	Comet
		Dowell's (Biller India)
		Hax Brass (Copper Alloy India)
24	PVC insulated copper conductor stranded flexible wires	Finolex
		R RKabel
		Skytone
		KEI
		Polycab
		BatraHenlay
25	Mettalic / GI Conduit (ISI approved)	AKG
		BEC
		NIC
26	Lead Coated Flexible GI Conduit	PLICA India Pvt. Ltd.
		Flexicon
27	PVC Conduit & Accessories (ISI approved)	AKG
		BEC
		Precision
		Polypack
		Ravindra
28	Industrial Socket	
	a. Splash Proof	Clipsal
		Gewiss
		Legrand

LIST OF APPROVED MAKES FOR ELECTRICAL WORKS		
S.No.	Details of Materials / Equipment	Manufacturer's Name
		Neptune Balls
		Schneider Electric
	b. Metal Clad	BCH
		MDS
29	Switch & Socket	Clipsal (Opal Series)
		Crabtree
		M K India (Wraparound)
		Idoasian-simon
		Legrand (Mosaic)
		Wipro (NorthWest)
		Havells –crownos
		ABB – Lumina
		Anchor Roma
		Siemens
		L&T
30	Ceiling Fan	Crompton Greaves
		Havells
		Orient
		Usha
31	Lighting Fxiture	
	a. Incandescent / Halogen / PL / Metal Halide) / Fluorescent	Philips
		Wipro
		GE
	b. External Lighting Fixture	Bajaj Electricals Ltd.
		Keslec
		LIGMAN
		Philips
		Wipro
	b. Aviation Obstruction Light(LED Type)	Actos
		Bajaj
		Binay
32	Electronic Ballast for Fluorescent	Osram
	(To be selected as per fixtures' manufacturer)	Opal
		Philips
		Thorn
		Wipro (APF)
33	Selector Switch, Toggle switch	Kaycee
		Salzer (Larsen & Toubro)
34	Cable Trays (Factory Fabricated) /	Profab Engineer

LIST OF APPROVED MAKES FOR ELECTRICAL WORKS			
S.No.	Details of Materials / Equipment		Manufacturer's Name
	Raceways		Ricco Steel
			Needo
			MaheshwariElectrtricals
35	Sealed Maintenance Free Batteries		Amar Raja
			Exide
			Global (Rocket)
			Hitachi
			Shinkobe
36	Battery Charger		Caldyne
			ChhabiElectricals
			Joshi Electricals
			Max Power
			Volstat
37	Invertor		Autopro (Professional Lighting)
			Luminous
			Megatech
			Microtek
38	Lightning Protection System		Erico
	(Early Streamer Emission Type)		LPI
39	Timer		ABB
			Larsen & Toubro
			Legrand
			Schneider Electric
			Siemens
40	50 W Halogen Light Transformer		Gemini Global
	(Encapsulated Transformer)		Opal
			Philips
			Reiz
41	Tap off / splitters complete with gasketed G.I. boxes		Catvision
			CE
			DX
			Powerage
			Vision Hire
B.	<u>TELELEPHONE / DATA</u>		
1	Tag Block		Krone
			TVSE
2	Telephone armoured / unarmoured cable / wire		Delton
			Finolex
			Skytone

LIST OF APPROVED MAKES FOR ELECTRICAL WORKS		
S.No.	Details of Materials / Equipment	Manufacturer's Name
		Fusion Polymer
		Polycab
3	Coaxial Cable	Beldon
		Comm-Scope (US Imported)
		Fusion Polymer



EXISTING GROUND FLOOR PLAN

Project

**CONSTRUCTIN OF NEW COVERED ENTRY/EXIT AND REVOVATION WORKS FOR
STAFF ROOM & LOWER GROUND FLOOR AT SGGSCC PITAMPURA, NEW DELHI**

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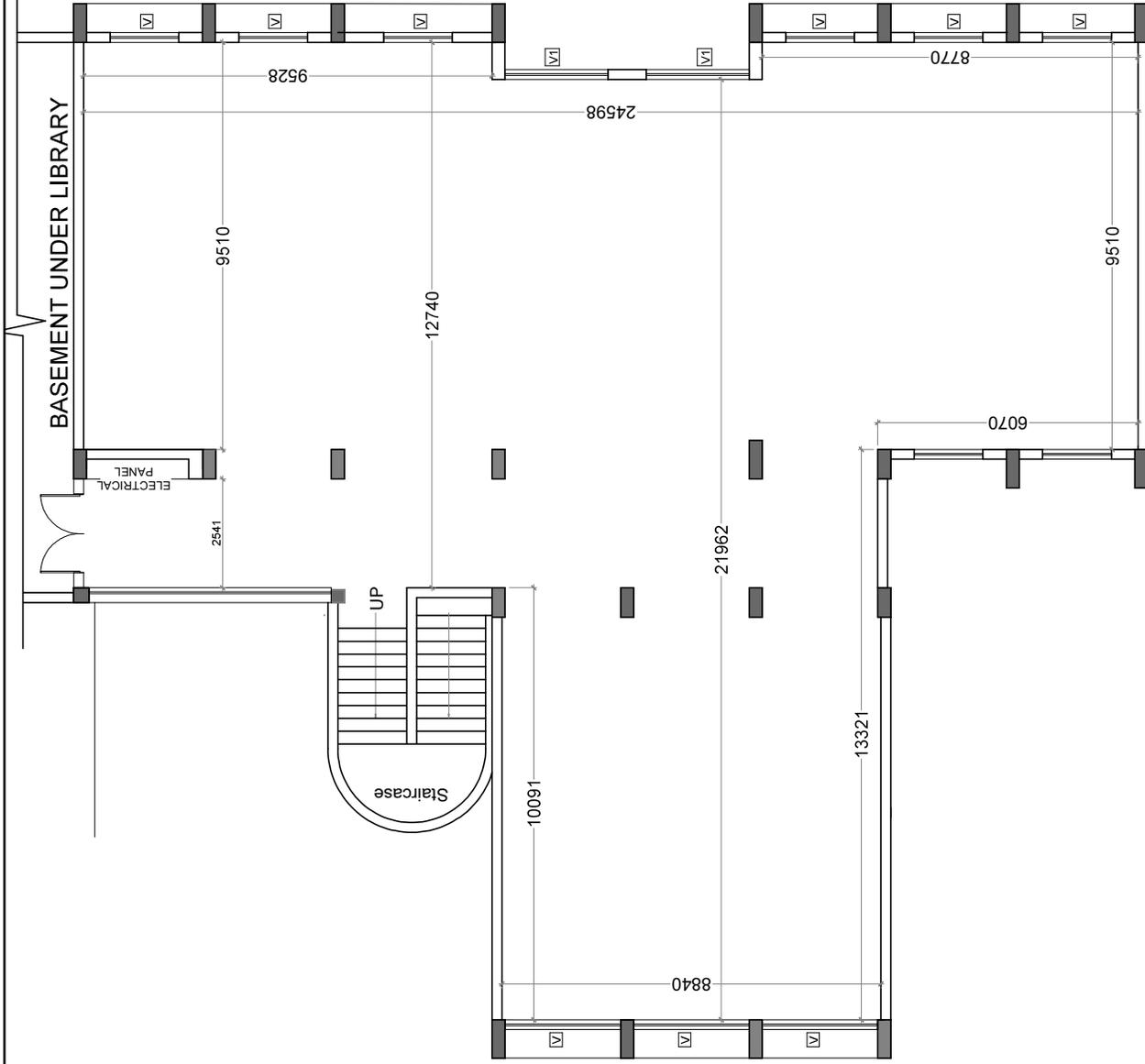
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EXISTING GROUND FLOOR PLAN

RANJIT SINGH & ASSOCIATES
1206, Surya Kisan Building, D1, C-Block, New Delhi-110001
Ph: 26112668 Fax: 31310129 Email: rsa1206@gmail.com



*Architects, Engineers & Interior Designers
Cost, approved Labour and Home Tax Consultants*



EXISTING LOWER GROUND FLOOR PLAN

Project

CONSTRUCTION OF NEW COVERED ENTRY/EXIT AND REVOLUTION WORKS FOR STAFF ROOM & LOWER GROUND FLOOR AT SGGSCC PITAMPURA, NEW DELHI

DATE: 23/11/2017

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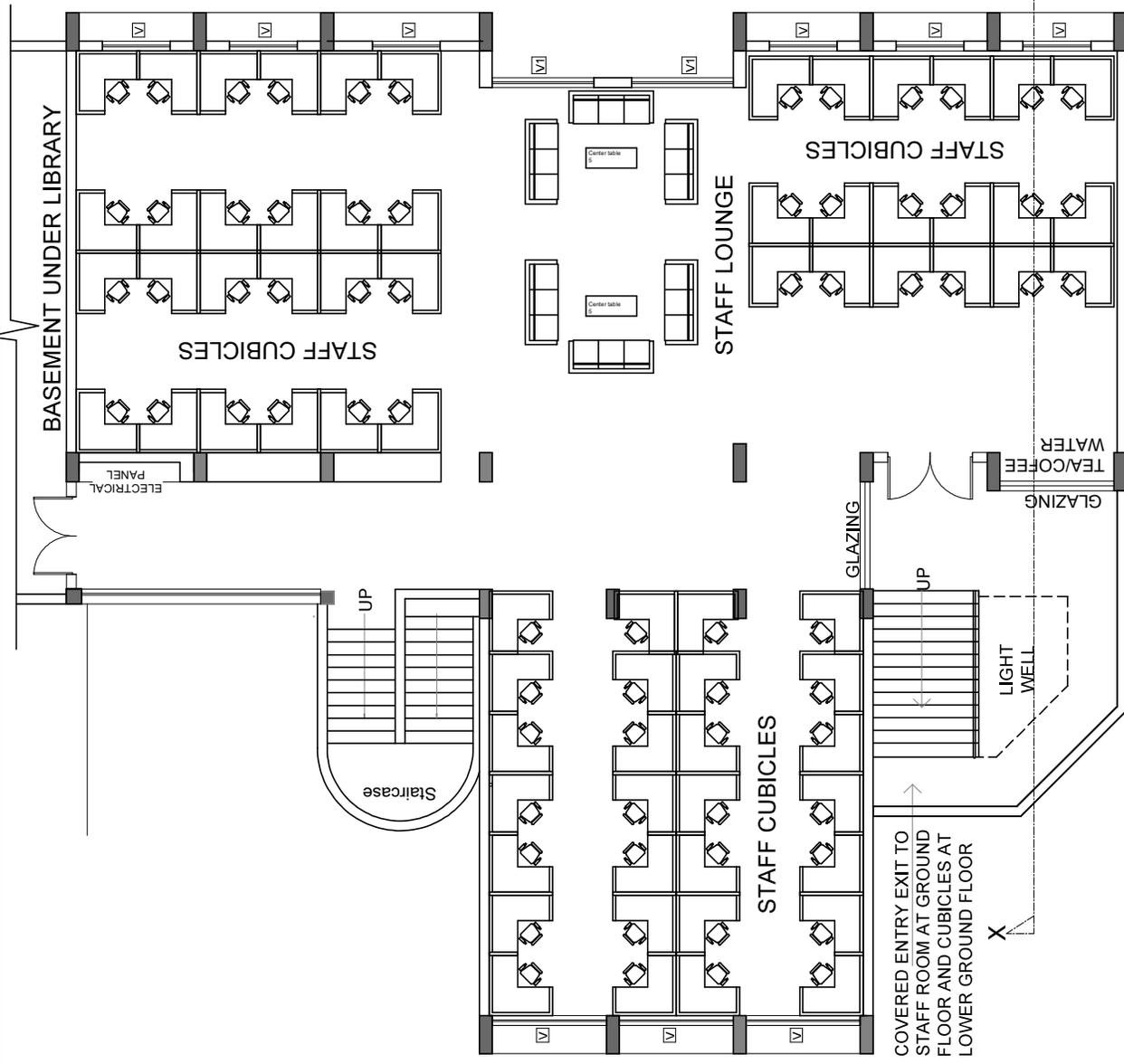
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Sheet Title
EXISTING LOWER GROUND FLR. PLAN

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Ph: 2312268 Fax: 3131029 Email: rsa1206@msn.com



Architects, Engineers & Interior Designers
Cost, approved Labour and Home Tax Consultants



LOWER GROUND FLOOR PLAN (FURNITURE LAYOUT)

Project

CONSTRUCTIN OF NEW COVERED ENTRY/EXIT AND REVOVATION WORKS FOR STAFF ROOM & LOWER GROUND FLOOR AT SGGSCC PITAMPURA, NEW DELHI

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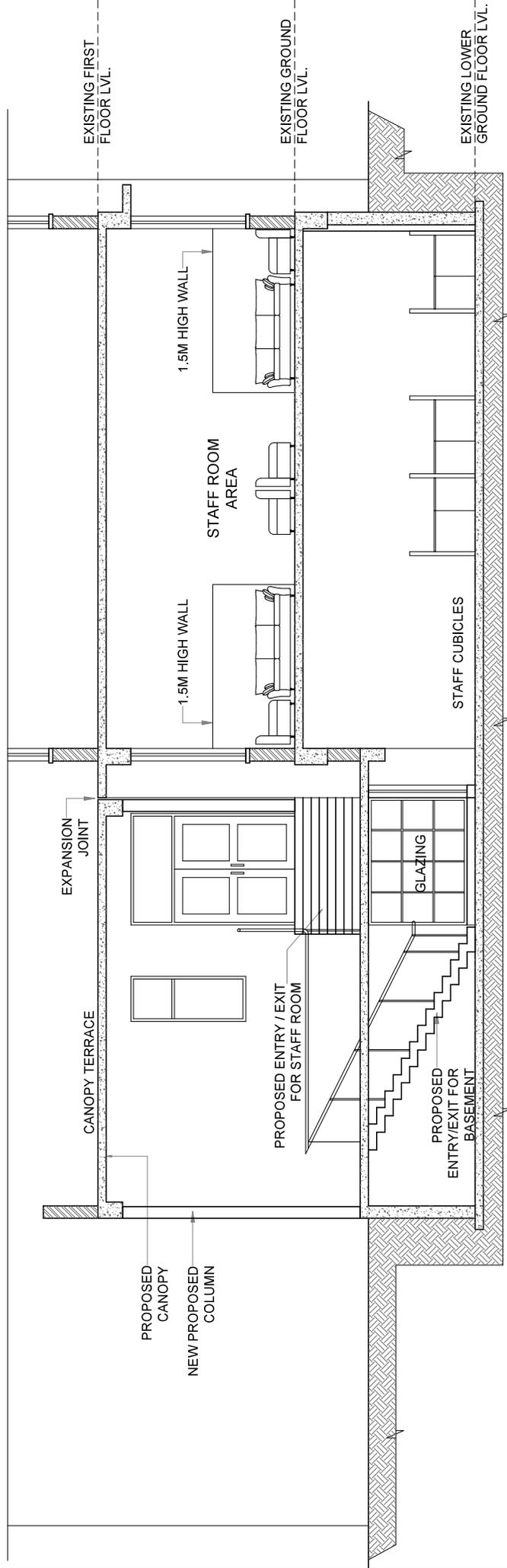
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Sheet Title
FURNITURE LAYOUT PLAN

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Architects, Engineers & Interior Designers
 Cost, approved Estimators and Home Tax Consultants



SECTION - X

Project

**CONSTRUCTIN OF NEW COVERED ENTRY/EXIT AND REVOVATION WORKS FOR
STAFF ROOM & LOWER GROUND FLOOR AT SGGSCC PITAMPURA, NEW DELHI**

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Sheet Title
SECTION X

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Architects, Engineers & Interior Designers
Cont. approved U. Urban and Home Tax Consultants