

DAV COLLEGE
SECTOR – 10, CHANDIGARH

TENDER DOCUMENT
FOR
CONSTRUCTION OF ELEVATED SITTING
ARRANGEMENT AND RENOVATION OF STAGE IN
MAIN AUDITORIUM UNDER RUSA SCHEME
AT
DAV COLLEGE
SECTOR – 10, CHANDIGARH

Name of Bidder/Contractor:

Address of Bidder/Contractor:

.....

Tender Issued by: Date Sign.....

ARCHITECTS:
CREATIVE SOLUTIONS

S.C.O. 823, 2nd Floor,
NAC Manimajra, Chandigarh 160101
Ph. 0172-4671919, 9878621919
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CRITICAL DATES

Hardcopy of tender along with Tender fee of Rs 1500/- (Non-Refundable) and Earnest money of 35000/- (Refundable) should be deposited in the college (DAV sector 10 Chandigarh) office on or before 27-02-2020 upto 4.00 PM.

Publish date	07-02-2020
Tender submission end date	27-02-2020
Technical Bid opening date	28-02-2020
Financial Bid opening date	28-02-2020

Important Information

Tender Cost :	Rs. 1500/- (Non-Refundable)
Earnest Money (EMD)	Rs. 35000/- (Refundable)
Place for purchase of Tender	Office: Principal, D.A.V College Sector-10, Chandigarh.
Place of submission of Tender	Office: Principal, D.A.V. College Sector-10, Chandigarh.
Place of Opening of Tender	Office: D.A.V. College Sector-10, Chandigarh
Contact Person (Owner)	Principal, D.A.V. College Sector-10, Chandigarh. Ph. 08708995055 Davc_chd@gmail.com
Contact Person (Architect) For Technical queries	Ar. Parveen Kumar Creative Solutions Ph. 0172-4671919, 09878621919 Ar.parveen@rediffmail.com

VOLUME-1

INTRODUCTION OF TENDER & CONDITIONS OF CONTRACT

SECTION –I : NOTICE INVITING TENDERS

**TENDER DOCUMENTS FOR CONSTRUCTION OF ELEVATED SITTING ARRANGEMENT AND
RENOVATION OF STAGE IN MAIN AUDITORIUM UNDER RUSA SCHEME
AT
DAV COLLEGE SEC- 10, CHANDIGARH.**

- 1.1. Tenders are hereby invited on behalf of the PRINCIPAL, DAV College Sec – 10, Chandigarh herein referred as “Employer” for the above referred work.
- 1.2. The contract documents consisting of Bills of Quantities, Form of Tender, Conditions of Tender, Agreement, Brief Descriptions, Conditions of Contract, tender drawing etc. The tender document can be collected from the Office of PRINCIPAL, DAV College Sec – 10, Chandigarh, on cash payment non-refundable sum of Rs. 1500/- (Non-Refundable)(Rupees Fifteen hundred only) per set with an application for Issue of the documents, during working hours every day except on Sundays and Public Holidays. Issue of Tender Documents will be stopped two days prior to the due date for opening of tenders.
- 1.3. The contractor shall fill the price in the bill of quantities and send all the papers with the complete form of tender, the conditions of tender, contract and specifications, all duly signed at every page, before on the day of 2019 in sealed cover, super scribed "**TENDER FOR CONSTRUCTION OF ELEVATED SITTING ARRANGEMENT AND RENOVATION OF STAGE IN MAIN AUDITORIUM UNDER RUSA SCHEME at DAV College Sec – 10, CHANDIGARH**" and addressed to PRINCIPAL, DAV College Sec – 10, Chandigarh.
- 1.4. No consideration will be given to a tender received after the time above stipulated and no extension of time will be allowed for submission of the tender.
- 1.5. The tenders will be opened in the office of the Principal, DAV College Sec – 10, Chandigarh athours on in the presence of tenderers who may choose to be present. Only a single authorized representative of the tenderer may be present for the purpose.
- 1.6. The time allowed for the completion of the work is 4 Months from the date of written order/Site hand over to commence work.
- 1.7. Every tender shall be accompanied by "EARNEST MONEY" of Rs 35000/- (Refundable) in the form of Demand Draft/Deposit at Call Receipt / Banker's cheque of any scheduled bank drawn in favour of Principal, DAV College Sec – 10 Chandigarh & any tender not accompanied by Earnest Money in prescribed

form is liable to be rejected. (EMD in any other form will not be accepted). Earnest Money Deposit should be submitted along with the covering letter, if any, in duplicate in a separate sealed cover super scribed "**EARNEST MONEY DEPOSIT & COVERING LETTER RELATING TO TENDER FOR CONSTRUCTION OF ELEVATED SITTING ARRANGEMENT AND RENOVATION OF STAGE IN MAIN AUDITORIUM UNDER RUSA SCHEME AT DAV College Sec – 10, CHANDIGARH**" & addressed to the Employer.

- 1.8. The Earnest Money will be retained in the case of the successful tenderers as part of the security for due fulfillment of the contract. In case the successful tenderer does not accept work order or does not start the work Earnest Money will be forfeited in favour of the Employer.
- 1.9. The tenderer will submit his tender after carefully examining the whole of the tender documents and the conditions of tender, and of contract, appendix to the conditions of contract, the drawings and specifications, the bill of quantities, etc. & after a detailed examination of site conditions likely to be met.
- 1.10. This notice inviting tenders, the conditions of tender & duly completed form of tender will form part of the agreement to be executed by the successful tender with the Employer.

(PRINCIPAL)
DAV College Sec – 10,
CHANDIGARH

SECTION -2 : INSTRUCTIONS TO TENDERERS

2.1. GENERAL INSTRUCTIONS:

The works referred here in shall cover the entire scope of the proposal which includes supplying and installation of material including the successful completion and the tests which the COLLEGE desires to get carried out. The “Employer” where appearing in these documents shall mean The PRINCIPAL, D.A.V. College, Sector- 10, Chandigarh.

2.2. PROCEDURE FOR SUBMISSION OF TENDERS:

The following procedure shall be adopted for submission and opening of tenders. The sealed envelope SUPERSCRIBED ‘Tender for CONSTRUCTION OF ELEVATED SITTING ARRANGEMENT AND RENOVATION OF STAGE IN MAIN AUDITORIUM UNDER RUSA SCHEME of D.A.V. College, Sector- 10, Chandigarh. shall contain as follows: -

- Earnest Money Deposit (EMD)(Demand Draft/Pay Order)
- (*Technical Bid and Financial Bid*)
 - a. Particulars of Bidder
 - b. Signed Technical Bid document supported by prescribed Annexure, credentials, certificates, all relevant/demanded documents supporting the bidders credentials etc.

Pages of the technical bid document should be numbered. Additional sheets, if any added by the bidder, should also be numbered by him. They should be submitted as a package (Booklet) properly bound with signed.

- It shall contain complete rate quoted financial bid of the contractor as per provided Bid document without any alteration done.
- No conditional tender is acceptable.
- All rates quoted should be readable without any cutting.

The sealed containing ‘**Earnest Money Draft, Technical Bid & Financial Bid**’ should be placed in a one larger envelope addressed to Principal, D.A.V. College, Sector- 10, Chandigarh. The outer envelope shall bear the following identification :

- a) Bid for “Renovation of Multipurpose Hall at D.A.V. College, Sector- 10, Chandigarh

The outer larger sealed (*containing for ‘Technical Bid and Financial Bid’*) shall be submitted to **Principal, D.A.V. College, Sector- 10, Chandigarh.** before due date and time.

&

It shall be opened only after the pre-qualification of contractor. Date and time of opening will be informed to selected contractors.

2.3. TENDERERS TO STUDY ENTIRE TENDER DOCUMENT CAREFULLY:

Submission of a tender by a tenderer implies that he has read all the stipulations contained in this tender document and has acquainted himself with the nature, scope and specifications of the works to be followed.

2.4. TENDERER TO SUBMIT THE ENTIRE TENDER DOCUMENT:

The tenderer shall submit all documents issued to him for the purpose of this tender after duly filling the same in all respects. Tenders which are found to be vague or incomplete shall be rejected summarily.

2.5. TENDER SHALL BE WRITTEN IN ENGLISH LANGUAGE:

Every tender shall be written in English language. All information such as documents and drawings supplied by the tenderer will also be in the English language only. Drawings and designs shall be dimensioned according to the metric system of measurements. Tenders shall be forwarded under cover or a letter type written on the tenderer's letter-head and duly signed by the tenderer. Signatures must be in long hand, executed in ink by a duly authorized person of the tendering firm. No oral, telegraphic tenders or subsequent modifications thereto shall be entertained; If a tender is submitted on behalf of the firm, then all the partners shall sign or may be signed by one in whose favor all the partners have given General Power of Attorney. In case of tender submitted by a company, it shall be signed by one who has been authorized by the Board through a resolution. Copy of resolution and the authority letter in favor of the person signing must accompany the tender.

2.6. VALIDITY PERIOD OF OFFERS:

The rates quoted in the tender shall hold good for 90 days from the date of opening of the tender. The validity period shall be extendable with the mutual consent of both the parties. No tenderer can withdraw/or modify his tender or revoke the same within the said period of 90 days. If a tenderer, on his own, withdraws or revokes the tender or revises or alters or modifies the tender for any item or condition within a period of aforesaid 90 days his earnest money deposit shall stand forfeited.

2.7. TENDERER TO SIGN ALL PAGES:

The tenderer shall stamp and sign at the bottom right hand corner of every page of the tender document in token of acceptance of tender conditions and for the purpose of identification.

2.8. ERASURES AND ALTERATIONS:

Tenders containing erasures and alterations of the tender documents are liable to be rejected unless these are authenticated by the person signing the Tender Documents.

2.9. TENDERER TO SATISFY HIMSELF OF SITE CONDITIONS:

Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tender regarding nature of the site conditions the means of access of the site, the accommodation they may require and in general obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender in any manner. A tenderer shall be deemed to have full knowledge of the site, whether he inspects it or not and no compensation or otherwise of any charges incurred or to be incurred consequent on any misunderstanding or otherwise shall be admissible.

2.10. EARNEST MONEY:

The tender shall be accompanied by earnest money of Rs. 35000 /- (Refundable) in the form of Demand draft / Banker's Cheque, in favor of the "PRINCIPAL, D.A.V. College, Sector- 10, Chandigarh. Earnest money of the unsuccessful bidders shall be refunded after expiry of the validity period of the tenders/allotment of works whichever is earlier.

2.11. TENDER LIABLE TO REJECTION:

Tenders which do not fulfill all or any of the conditions laid down in this notice, or contain conditions not covered and/or not contemplated by the Conditions of contract and/or expressly prohibited therein or stipulate additional/alternative conditions shall be liable to be rejected and his earnest money will be forfeited.

Tenders shall also be liable for rejection on any of the following reason:-

- I. Tenders submitted late
- II. Tenders containing remarks uncalled for.
- III. Conditional tenders
- IV. Tenders not submitted on prescribed Performa.
- V. Telegraphic tenders.

2.12. CORRESPONDENCE:

Tenderer must mention their postal address, e-mail and telephone number of the Chief Executive/authorized agent or attorney in the tender. The tender submitted by the tenderer will be rejected if he or his agent cannot be contacted on the last known address, e-mail or on the intimated telephone number(s) after reasonable search in which event earnest money may be forfeited by the Employer.

2.13. REASON FOR REJECTION OF TENDER:

Employer hold absolute discretion to accept or reject the lowest or any other tender without assigning any reason. No claim on this account shall be entertained.

2.14. AMENDMENT OR CANCEL TENDER DOCUMENTS:

Employer reserves the right to revise/amend or cancel the Bid Documents up-to the date prior to the date notified for opening of the tenders and also the right to postpone the date of submission and opening of tenders without assigning any reason, whatsoever.

2.15. REFERENCE IN TENDER DOCUMENTS:

D.A.V. College, Sector- 10, Chandigarh or Principal shall be referred as “Employer” in all the documents of Tender documents/contract Agreement.

2.16. ARRANGEMENTS FOR WATER & ELECTRICITY

The quoted rate shall include all water & electricity charges. Electric supply & water required for construction purpose shall be made by the contractor at his own cost and fulfill all requirement of relevant bye-laws/orders of the Local/ Municipal bodies and pay all fees and charges which may be leviable at his own cost.

2.17. ENGINEER –IN –CHARGE

Where ever the word “Engineer – in – charge” occurs, it shall mean the authorized Engineer appointed by the Employer. for the superintendence of the execution of works.

2.18. CEMENT & STEEL

Cement & Steel to be used for the work Procured by the contractor as per given recommended makes & certificates & test reports of the same shall be furnished to the owner. The cost of these materials is to be included in the rates quoted by the contractor.

2.19. PERFORMANCE GUARANTEE (5% OF BID AMOUNT)

The successful Bidder shall have to furnish performance guarantee @ 5% of project amount valid till the expiry of defect liability period of work. No payment shall be made till the performance guaranty is not finished.

2.20. THE QUOTED RATES

The quoted rates in the Bid documents shall be inclusive of GST, all other taxes and all liabilities to complete said job. All invoices submitted by contractor must be in prescribed format as per the goods and services act.

2.21. NON SCHEDULE ITEMS:

It is contractor's sole responsibilities to take necessary approval from Employer for all necessary works/items not prescribed in financial bid before executing at site. All these rates demanded by contractor must be supported with quotations/rate analysis as per Punjab CSR/CPWD guideline. Decision on rates of non schedule items/works taken by employer is final. In this regard contractors have no right to hold or stop work without the permission of Employer.

GENERAL INFORMATION

1.	Accepting Authority	PRINCIPAL, D.A.V. College, Sector- 10, Chandigarh.
2.	Architects	Creative Solutions SCO – 823, 2 nd floor NAC Manimajra (Chandigarh)
3.	Reference Book	(i) CSR Punjab (Latest as on date of tender) (ii) I.S. specifications (latest edition) (iii) Material of approved makes on exhibited in the bid document to be used in works.
4.	Earnest money	(Refundable) only to be furnished with the tender in the form of Demand draft. pledged in favour of the Principal, D.A.V. College, Sector-10, Chandigarh. After work allotment earnest money will get merged into security deposit.`
5.	Security deposit	5% on the gross amount of all the bills (No interest is payable on security deposit).
6.	Authority competent to grant extension of time.	PRINCIPAL, D.A.V. College, Sector- 10, Chandigarh.. or authorized person by PRINCIPAL, D.A.V. College, Sector- 10, Chandigarh.
7.	Tools & plants	To be arranged by contractor
8.	Schedule of Minimum wages	As per notification issued by Chandigarh Administration from time to time.
9.	Authority competent to reduce the compensation amount	PRINCIPAL, D.A.V. College, Sector- 10, Chandigarh.
10.	Defect Liability Period	Four months from the date of acceptance of completion by the Employer.
11.	Release of Earnest money And Security Deposit	50% shall be released after 6 month of the date of the handing over of building and balance 50% shall be released after defect liability period of Four months This period can be further extended for 1 months by owner if not satisfied with the removal of defects by the contractors
12.	Periodicity of submission of interim Bills	Once in a month, subject to minimum amount Rs. 1000000/-all running bill must be in prescribed format showing actual bill amount and GST Liability and all required

		measurement sheets.
13.	Authority Competent to Appoint Arbitrator	PRINCIPAL, D.A.V. College, Sector- 10, Chandigarh.
14.	Possession of site	Immediately on award of contract
15.	Date of Commencement	Within 7 days of award of work.
16.	Secured Advance	No advance payment shall be made only secured advance up to 70% against material cost is allowed during construction.
17.	Penalty / Liquidated damages	0.5 % of contract value per week of delay, up to a maximum of 10% of contract value
18.	Maximum period for payment	Within 21 working days from (only for interim bills) date the certificate off payment is issued by the Architect/ client.
19.	Performance Guarantee	To remain valid till the expiry of defect liability period of work
20.	Period of submitting Final bills	Within 30 days of virtual completion of work.

TENDER FORM

To,

The Principal,
DAV College ,
Sector- 10, Chandigarh.

Dear Sir,

I/We have read and examined the following Tender Documents relating to Civil work/Electrical & interior work in D.A.V. College, Sector- 10, Chandigarh.

- i. Notice Inviting Tender
- ii. Instruction to bidders
- iii. General Information
- iv. General conditions of Contract Agreement
- v. General Safety Rules to be observed during Construction
- vi. General site rules, Procedures and Precautions
- vii. Contractor's Labour Regulations
- viii. Fair Wage Clause.
- ix. Special Terms & Conditions of the Contract Agreement
- x. Additional conditions of contract.
- xi. List of tests and technical specification.
- xii. Chandigarh water and electricity byelaws.

I/We hereby offer to execute the work, complete in all respects, specified in the underwritten Memorandum, within the time specified therein or during the allowed extended time at the rates specified and with the specifications, designs, drawings and instructions in writing referred to in the conditions of tender.

(Seal & Signature of Contractor)

SECTION :- 3 GENERAL CONDITIONS OF CONTRACT AGREEMENT

3.1. SECURITY DEPOSIT

The person/persons whose tender may be accepted (herein after called the contractor) shall permit PRINCIPAL, D.A.V. College, Sector- 10, Chandigarh. at the time of making any payment to him for works done under the contract to deduct such sum as will amount to 5% of all amount so payable to be held by the EMPLOYER, by way of security. All compensation or other sums of money payable by the contractor to the EMPLOYER under terms of this contract may be deducted from his security deposit or from any account what so ever, and in the event of his security deposit being reduced by reason of any such deduction, the contractor shall within 10 days thereafter make good in cash any sum or sums which may have been deducted from his security deposit.

3.2. COMPENSATION CLAUSE

1. In any case under which any clause or clause of this contract the contractor shall have rendered himself liable to pay compensation, Employer shall have power to adopt any of the following courses as he may deem best suited in the interest of the D.A.V. COLLEGE.
 - a. To rescind the contract (of which rescission notice in writing to the contractor under the hand of Employer. shall be conclusive evidence), and in which case the security deposit of the contractor shall stand forfeited, and be absolutely at the disposal of Employer.
 - b. To employ labour to be paid Employer. and to supply materials to carry out the work or any part of the work debiting the contractor with the cost of the labour and the price of the materials (of the amount of which cost and price a certificate of Employer shall be final and conclusive against the contractor) and crediting him with the value of the work done, in all respect in the manner and at the same rates as if it had been carried out by the contractor under the terms of his contract. The certificate of the Employer, as to the value of the work done shall be final and conclusive against the contractor.
 - c. To measure up the work of the contractor, and to take such part thereof as shall be unexecuted out of his hands and to give to a other contractor to complete, in which case any expenses which may incurred in excess of the sum which would have been paid to the original contractor if the whole work had been executed by him (of the amount of which excess the certificate in writing of the Employer shall be final and conclusive) shall be borne and paid by the original contractor and may be deducted from any money due to him by the EMPLOYER, under this contract or otherwise from his

security deposit or sale proceeds of the materials and tools and plants of the contractor lying at site.

- d. In the event of any of the above courses being adopted by the Employer, the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any material entered in to any agreement or made any advance on account thereof or with a view to the execution of the work of the performance of the contract. And in case the contract is rescinded under the aforesaid provisions, the contractor shall not be entitled to recover or be paid any sum for any work thereof or actually performed under this contract unless and until Employer has certified in writing the performance of such work and the value payable in respect thereof, and the contractor shall only be entitled to be paid for the value so certified.

2. In any case in which any of the powers conferred upon the Employer by clause 2 thereof shall have become exercisable and the same shall not be exercised, the non-exercise thereof shall not constitute a waiver of any of the conditions thereof and such powers shall notwithstanding be exercisable in the event of any future case of default by the contractor for which by any clause or clauses thereof he is declared liable to pay compensation amounting to the whole of his security deposit and the liability of the contractor for past and future compensation shall remain unaffected.

3. In the event of the Employer putting force either of the powers (a) or (c) vested to him under the preceding clause he may, if he so desire, take possession of all or any tools, plants, materials and stores in or upon the works, or the site there of or belonging to the contractor or procured by him and intended to be used for the execution of the work any part thereof, paying or allowing for the same in account at the contract rates, or in case of these not being applicable at current market rates to be certified by the Employer. Whose certificate hereof shall be final, otherwise the Employer, by notice in writing to the contractor or his authorized agent require him to remove such tools, plants, materials or stores from the premises within a time to be specified in such notice and in the event of the contractor failing to comply with any such requisition, Employer or his authorized representative may remove them at the contractor's expenses to sell them by auction or private sale on account of the contractor and at his risk in all respects and the certificate of the Employer. As to the expense or any such removal and the amount of the proceeds and expense of any such sale shall be final and conclusive against the contractor.

4. All sums payable by way of the compensation under any of these conditions shall be considered as reasonable compensation to be applied to the use of the Employer without reference to the actual loss or damage sustained and whether or not any damage shall have been sustained.

3.3. TIME EXTENSION

Time limit fixed for completion of work will be adhered to, time being the essence of work. However, If the contractor shall desire an extension of the time limit for completion of the work on the grounds of his having been unavoidably hindered in its execution or on any other ground he shall apply in writing to the Employer, within 15 days of the date of the hindrance on account of which he desires such extensions as aforesaid but before the expiry of time limit and the Employer, if in his opinion (which shall be final) reasonable grounds as shown thereof, authorize such extension of time if any, as may, in his opinion be necessary or proper. New extension of time limit will attract penalty on account of delay. Penalty shall be levied as given in the general information.

3.4. MONTHLY RETURN

The contractor shall deliver to the Employer, on or before the 10th day of every month, during the continuance of the work covered by this contract, a return showing details of any work claimed for as extra, and such return shall also contain the value of such work as claimed by the contractor, this value shall base upon the rates and prices mentioned in the contract or mentioned hereinafter. The contractor shall include in such monthly return particulars of all claims of whatever kind and however, arising, which at the date thereof he has or may claim to have against the Employer, under or in respect of, or in any manner arising out of the execution of and the contractor shall be deemed to have waived all claims, not included in such return and will have no right to enforce any such claims not so included, whatsoever be the circumstances.

3.5. COMPLETION OF WORK

Without prejudice to the rights of the Employer under any clause hereinafter contained on completion of the work, the contractor shall be furnished with a certificate by the Employer or his representative of such completion, but no such certificate shall be given nor shall the work be considered to be complete until the contractor shall have removed from the premises on which the work has been executed, all scaffolding, surplus materials and rubbish, and cleaning off the dirt from all doors, walls, floors, or any other parts of buildings said to have been completed, and the measurements in the said certificate shall be binding and conclusive against the contractor, if the contractor shall fail to comply with the requirements of this clause as to the removal of scaffolding, surplus materials, and rubbish and cleaning off dirt on or before

the date fixed for the completion of the work, the Employer. may at the expense of the contractor have removed such scaffolding, surplus materials and rubbish and dispose of the same as he thinks fit and clean off such dirt as aforesaid and the contractor shall forth with pay the amount of all expenses so incurred, and shall have no claim in respect of any such scaffolding or surplus materials as aforesaid except for any such sale proceeds actually realized by the sale thereof.

3.6. PAYMENTS:

The contractor shall on submitting bill thereof be entitled to receive a monthly payment proportionate to the part thereof approved and passed by the Employer, whose certificate for such approval and passing of the sum so payable shall be final and conclusive against the contract. But all such intermediate payments shall be regarded as payments by way of advance against the final payment only and not as payment for work actually done and completed and shall not preclude the requiring of bad, unsound and imperfect unskillful work to be removed and taken away and reconstructed or re-erected, or be considered as an admission of the due performance of the contract or any part thereof in any respect, or the accounting of any claim nor shall it conclude, determine, or effect in any way the powers of the Employer under these conditions, or any of them as to the final settlement and adjustment of the account or otherwise the Employer certificate of the measurement and of the total amount payable for the work accordingly shall be final and binding on contractor in all respects. Bill shall be submitted by the contractor each month on or before the date fixed by the Employer for all work executed in the previous month, and the Employer or his representative shall take the requisite measurement for the purpose of having the same verified and the claim, as far as admissible, adjusted if possible, during the month.

The contractor shall submit all bills in details on the printed forms to be had on application at the COLLEGE from the PRINCIPAL, and the rate charged in the bills shall always be entered at the rates specified in the tender or in the case of any extra work ordered in pursuance of these conditions and not mentioned or provided for in the tender at the rates hereinafter for such work.

Any excess payment made to the contractor inadvertently or otherwise under this contract or any account whatsoever and any other sum found to be due to Employer by the contractor in respect of his contract or any other contract or work order of any account whatsoever may be deducted from any sum what so ever payable by the Employer to the contractor either in respect of this contract or any other account.

No claims for payment of an extraordinary nature, such as claims for a bonus for extra labour employed in completing the work before the expiry of the contractual period at the request of the Employer or claims for compensation where work has been temporarily brought to a standstill through no fault of the

contractor shall be allowed unless and to the extent that the same shall have been expressly sanctioned by the Employer No claim on account of less occurred due to natural calamity and any act of Govt. will be payable. also payments will be made only for the work done measured and entered in record book (measurement book)

3.7. ADDITIONS & ALTERATIONS

The Employer. shall have power to make any alternations or omissions or additions or substitutions in the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and the contractor shall be bound to carry out the work in accordance with any instructions which may be given to him in writing signed by the EMPLOYER and such alterations, additions or substitutions shall not invalidate the contract and any altered, additional or substituted work which the contractor may be directed to carry out in the manner above specified as part of the work shall be carried out by the contractor on same conditions in all respects on which he agreed to do the main work. The time for the completion of the work shall be extended in the proportion that the altered additional or substituted work has to the main work at the sole discretion of the Employer and his/her decision in this regard shall be final and binding on the contractor.

3.8. ARBITRATION

Except where otherwise provided in the contract all questions and disputes relating to the meaning of the specifications, designs, drawings and instructions here in before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever, in any arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the works, or the execution or failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof shall be referred to the sole arbitration of the person selected from out of a panel of names to be supplied upon a request in writing by party invoking the arbitration by the Employer .at the time of the dispute. It will be no objection to any such appointment that the arbitrator so appointed was associated with the work and that he had to deal with the matters to which the contract relates and that in the course of his duties in association with the Employer. he had expressed views on all or any of the matters in dispute or difference. The arbitrator to whom the matter is originally referred being unable to act for any reason, the Employer shall appoint another person to act as arbitrator in accordance with the terms of the contract. Such person shall be entitled to proceed with the reference from the stage at which it was left by his predecessor. It is also a term of this contract that no person other than a person appointed by the Employer as aforesaid shall act as arbitrator. In all cases where the amount of the claim in dispute is Rs.100,000/- (Rs. one Lakh

only) or above, the arbitrator shall give reasons for the award. Also the contractor shall have to deposit security equivalent to 10% of the amount claimed in arbitration with Employer. Then & only then the request of the contractor for the appointment of arbitrator will be entertained. Such security will be refunded proportionate to the award in favor of the contractor and the rest will be forfeited.

Subject as aforesaid the provisions of Arbitration and Cancellation Act 1996 or any statutory modifications or reenactment thereof and the rules framed there under and for the time being in force shall apply to the arbitration proceeding under this clause.

It is also a term of the contract that while invoking arbitration the party invoking arbitration shall specify the dispute or disputes to be referred to arbitration under this clause together with the amount or amounts claimed in respect of each such dispute.

It is also a term of the contract that if a party does not make any demand for arbitration in respect of any claim(s) in writing within 90 days of receiving the intimation from the Employer that the bill is ready for payment, the claim if any, shall be deemed to have been waived and absolutely barred and the owner shall be discharged and released of all liabilities under the contract in respect of these claims.

In all arbitrations cases regarding this work the employer have right to accept or reject the final decision of appointed arbitrator. In all cases the DAV management committee decision will be treated as final and bind to both parties.

3.9. CARRYING OUT OF WORK

All the work shall be carried out in accordance with Punjab CSR specifications prevalent as on date of tender. In the case of an item for which specification are not available in the said specifications relevant Punjab PWD specifications applicable as on the date of tenders shall be followed.

3.10. QUALITY CONTROL OF MATERIAL

If it appears to the Employer that any work has been executed with unsound, imperfect, or unskillful workmanship or with materials or articles provided by him for the execution of the work are unsound, or of a quality inferior to that contractor shall on demand in writing from the EMPLOYER specifying the work materials or articles complained of notwithstanding that the same may have been inadvertently passed, certified and paid for forthwith rectify, or remove & reconstruct the work so specified in whole or in part, as the case may require, or as the case may remove the materials or articles so specified and provide other proper and suitable material or articles at his own charge and cost and in the event of his failing to do so within a period to be specified by the Employer in his demand as aforesaid then the contractor shall be liable

to pay compensation at the rate of 1% on the contract agreement of work for everyday not exceeding 10 days, while his failure to do so shall continue and in the case of any such failure the EMPLOYER may rectify or remove, and re-execute the work or replace with other, materials or articles companied of as the case may be at the risk and cost in all respects of the contractor.

3.11. INSPECTION OF WORK

All work under or in course of execution or executed in pursuance of the contract shall at all times be open to the inspection and supervision of the Employer or his subordinate in-charge of the work/ architect/building committee members and the contractor shall at all times, during the usual working hours and at all other times at which reasonable notice of the intention of the Employer to visit the works shall have been given to the contractor, either himself be present to receive order and instructions or have a responsible agent duly accredited in writing present for that purpose. Orders given to the contractor's agent shall be considered to have the same force as if they had been given to the contractor himself.

The contractor shall give not less than 5 days notice in writing to the Employer of the work before covering up (concrete work) or otherwise placing beyond the reach of measurement any work in order that the same may be measured and correct dimensions thereof be taken before the same is so covered up or placed beyond the reach of measurement and any work without the consent in writhing of the Employer or placed beyond the reach of measurement without such notice having been given to or consent obtained, the same shall be uncovered at the contractor's expense or in default thereof, no payment or allowance shall be made for such work of the materials with which the same was executed.

The work during its progress shall from time to time inspected by the Architects, college building sub-committee or Engineers on behalf of Employer and the contractor shall extend all co-operation to the inspecting the work.

3.12. DAMAGING OF WORK

If the contractor or his work people or servants shall break, deface, injure or destroy any part of a building in which they may be working or any building road, fence , enclosure or grass land, cultivated ground contiguous to the premises on which the work or any part of it is being executed, or if any damage, shall happen to the work, while in progress from any cause whatsoever or any imperfections become apparent in it within 6 months after a certificate final or otherwise of its completion shall have been given by the Employer. as aforesaid, the contractor shall make the same good at his own expense, or in default the Employer may cause the same to be made good by other workman and deduct the expense (of which the certificate of the Employer shall be final) from any sums that may be then, or at any time thereafter may become due to the contractor or from his security deposit or the

proceeds of the sale of materials/tools and plants owned by the contractor at site.

3.13. SETTING OUT OF WORK/LABOUR

The contractor shall supply at his own cost all materials to be used in construction. Plants, tools, appliances, implements, ladders, cordage, tackle, scaffolding and temporary works, requisite or proper for the proper execution of the work, whether original, altered or substituted and whether included in the specification or other documents forming part of the contract or referred to in these conditions or not which may be necessary for the purpose of satisfying or complying with the requirements of the Employer or to any matter as to which under these conditions he is entitled to be satisfied, or which he is entitled to require together with carriage thereof to and from the work. The contractor shall also supply without charge the requisite number of persons with the means and material necessary for the purpose of setting out works and counting, weighting and assisting the measurement or examination at any time and from time to time of the work or materials. Failing his so doing the same may be provided by the Employer at the expense of the contractor and the expenses may be deducted from any money due to the contractor under the contract, or from his security deposit. The contractor shall be bound to bear the expenses of defense of every suit, action or other proceedings of law that may be brought by any person for injury sustained owing to neglect of the above precautions and to pay any damages and cost which may be awarded in any such suit, action or proceedings to any such persons or which may with the consent of the contractor be paid to compromise any claim by any such person.

No labour below the age of 18 years shall be employed on the work.

The contractor shall pay his labourers not less than wages fixed by the Chandigarh Govt. minimum wage act. The Employer does not own any liability against any verdict of the cost for payment to the labor.

No work shall be done on Sundays without the sanction in writing of the Employer.

3.14. SUB-LETTING OF WORK

The contractor shall not assign or sublet any part of the work without the written approval of the Employer.

3.15. CONSTRUCTION SITE BARRICADES

The contractor must do construction site safety barricades and dust barricades as required or demanded by college management at no extra cost. contractor should take care of this in quoted rates only.

3.16. GENERAL

In the case of a tender by a partnership firm any change in the constitution of the firm shall be forthwith notified by the contractor to the Employer for his information.

All works to be executed under this contract shall be executed under the direction and subject to the approval in all respect of the Employer who shall direct at what point or points and in what manner these are to be commenced and from time to time carried on.

The expression works where used in these conditions shall unless there by something either in the subject or context repugnant to such construction be construed and taken to mean the works by virtue of the contract to be executed whether original altered substituted or additional.

3.17. CONTRACTOR'S RISKS

All risks of loss or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the contract other than the excepted risks are the responsibility of the contractor.

3.18. INSURANCE

The following insurance cover is to be provided by the contractor in the joint names of the employer and the period from the start date to the end of the defects liability period at his own cost & expense.

- a. Cover against damage to other people's property caused by the contractor's omission,
- b. Cover against death or injury caused by the contractor's acts or omission to:
 - i. Anyone authorized to be on the site;
 - ii. Third parties who are not on the site;
- c. Cover against damage to the Works and materials during construction.
 - i. Policies and certificates for insurance are to be produced by the contractor to the EMPLOYER for approval before the start date given in the contract date and subsequently as the Employer may require.
 - ii. If the contractor does not produce any of the policies and certificates required, the employer may affect the insurance for which the contractor should have produced the policies and certificates and recover the premiums it has paid from payment otherwise due to the contractor or, if no payment is due, the payment of the premiums shall be a debt due.

- iii. Alterations to the terms of insurance may be made either with the approval of the Employer or as a result of general changes imposed by the insurance company with which the insurance policy is affected.

- iv. Both parties are to comply with any conditions of the insurance policy

PRINCIPAL

D.A.V. College,

Sector- 10, Chandigarh.

SECTION – 4: GENERAL SAFETY RULES TO BE OBSERVED DURING CONSTRUCTION

1. All work areas shall be kept reasonably clear for easy movement of men and materials.
2. All approach roads shall be kept free for easy movement of vehicles.
3. All open trenches, pits and other excavations shall have suitable enclosures and shall be properly identified with caution boards and a adequately illuminated during the night.
4. All temporary structures and supports such as scaffolding, ladders, walkways etc., shall be adequately strong for safe use during construction. Minimum thickness of planks for walkways shall be 50mm.
5. All shuttering, form work, etc shall be adequate to prevent collapse of concrete.
6. All debris shall be removed periodically from work areas.
7. All workmen working at unsafe elevations during the construction activity such as concreting, plastering, painting and erection work shall have safe and adequate passage and shall be properly instructed to take necessary precaution and observe safe practice to prevent accident. Safety belts shall be used where necessary.
8. Safety apparatus and equipment shall be provided to workmen as the nature of work warrants. Welders shall use gloves, goggles and shields during welding, gas cutting etc. All supervisor and workmen who work in areas designated as “Head Hit” areas shall be provided with hard hats.
9. Temporary water lines shall be so routed as to avoid road crossing and wherever necessary, shall be laid underground. Temporary water storage tank built for construction use shall be properly, fenced wherever necessary.
10. Temporary electrical substation, equipment, switch gear cables and wires lighting etc should be installed in accordance with standard electrical practice and should have prior sanction and approval from concerned authority.
11. Temporary cable and wires, including welding cables, should be so routed as not to cluster the work areas. Temporary electrical lines for power and lighting shall be run vehicles.
12. Temporary substations, equipment, switch gear and distribution boards shall be adequately enclosed, duly protected against the rain water, suitably earthed and properly identified with “caution Boards”.
13. All joints in the temporary wires and cables should be properly insulated.

14. All supervisors, welders and electricians engaged in the work shall possess necessary and valid license/certificate/permit to carry out such work and shall be adequately skilled and acquainted with standard rule, regulations and practices.
15. All operators of construction equipment and all tradesmen engaged in different construction activities shall be adequately qualified, experienced and proficient to carry out all their jobs in the safe manner.
16. All work areas approach roads, stairways and walkways shall be properly illuminated during the night.
17. All areas which are used for storing and installing inflammable materials shall be adequately identified and shall carry "No Smoking" signs.
18. Temporary fire extinguishers should be readily available at convenient locations in stores, COLLEGE and work area.
19. First aid kits and personnel adequately trained to administer first aid shall be readily available for emergency.
20. All lifting tackles and accessories shall be properly maintained and shall not be subjected to overloads.
21. Portable hand lamps being used by construction crew shall be preferably connected on 240 volts supply, if 240 volts hand lamps are used, the cable shall be heavily insulated, adequately protected, and bulbs should be protected with safety shields.
22. Contractor shall not allow usage of any structure of equipment erected or under erection of fastening lifting or tying tackles or gentry which may impose loads with the structures or equipment not designed to carry safety.
23. The contractor shall not in the performance of the contract agreement in any manner endanger safety or unlawfully interfere with the convenience of the public.
24. Contractor shall be liable to do the work as per recommended makes, however if the recommended makes are not available in the market, the architect shall have the power to introduce equivalent recommended make of that particular item & the contractor shall be liable to do the work without any price adjustment.
25. The contractor shall ensure that erection/testing equipment, tools tackles apparatus and materials are in good working, fit for the purpose of which they are employed and that certificate/permits/ etc required under any law or regulations for the same for the skilled labour technicians etc are available and valise during the entire period of the execution of the work, under the contract agreement.

SECTION-5 : GENERAL SITE RULES, PROCEDURES AND PRECAUTIONS

5.1. SITE WORKING RULES AND REGULATIONS

- a. The contractor shall furnish to the PRINCIPAL, **D.A.V. College, Sector-10, Chandigarh.** the power of Attorney name and signature of his authorized representative who will be in-charge of the execution of the works at site. The contractor shall also furnish the list of technically qualified persons employed by him for execution of the works. Daily reports of number of men employed by crafts and weekly reports of progress achieved, expected date of completion of the works and any actual or potential delays stating the reasons thereof shall be furnished by the contractor.
- b. Save as otherwise specifically provided in this Agreement the rates and prices herein, unless otherwise stipulated elsewhere in this Agreement, include all the costs, expenses and outlays of the contractor for executing the works and fulfilling all the obligations of the Contractor under this agreement. Nothing beyond quoted rates is payment to the contractor.

5.2. CONTRACTOR'S EMPLOYEES

If required by the Employer all contractor's employee will wear identification badges while on site. All notices displayed on the site and any instructions issued by the Employer for the work must be strictly adhered to by the contractor employee.

5.3. SPECIAL PRECAUTIONS

Particular attention is drawn to the following:

- a. In case of accident, the Employer will be informed in writing forthwith
- b. Staircases, doors or gangways shall not be obstructed in any way that shall interfere with means of access or escape.
- c. The contractor shall notify to the EMPLOYER of work of his intention to bring to the site any equipment or any container holding liquid or gaseous fuel or other substance which might create a hazard. The Employer will have the right to prohibit the use of such equipment or to prescribe the conditions under which equipment may be used. The Employer and authorized representative of college have the right to inspect any construction plant, and to forbid its use if in his opinion it is unsuitable or unsafe. No claim arising there from shall be made by the contractor.
- d. Where it is necessary to provide and/or store petroleum mixtures and explosives, the contractor shall be responsible for carrying out such provisions and/or storage in accordance with the rules and regulations laid down in the Petroleum Act, 1937, Explosive Act 1948 and Petroleum and Carbide of calcium manual published by the Chief

Inspector of Explosives, India. All such storage shall have prior approval of the Employer. In case any approvals/NOC are necessary from the Chandigarh administration/Electrical Department/Fire Department or any statutory authorities, the contractor shall be responsible for obtaining the same.

SECTIONS : - 6 SPECIAL TERMS AND CONDITIONS OF CONTRACT

6.1. RULES:

- a. The EMPLOYER shall have the powers to issue directions for any change required in the drawings issued and the contractor shall have no claim for compensation of account of such changes.
- b. The decision of the Employer to classify any item under minor extras shall be final conclusive and binding on the contractor and the decision given shall not be open to arbitration.
- c. Rates quoted are inclusive of GST and other all taxes, duties royalties for obtaining materials including cost of transportation. Nothing extra shall be paid to the contractor on this account.

6.2. SPECIFICATIONS:-

If specifications for an item of work are not covered by the Punjab CSR Specifications/PWD Punjab Specifications prevailing as on date of tender, the same shall be decided by the Architect and shall be binding on the contractor. The approved makes material exhibited in the tender notice will be used.

The Employer shall have the power to insist upon the contractor to purchase and use such materials of particular approved make which may in his opinion be necessary for proper and reasonable compliance with the specifications and execution of work.

In the event of any variation/discrepancy in the drawings, specification and tender documents the decision of the architect shall be final binding and conclusive on the contractor.

6.3. WORK AND WORKMANSHIP:

To determine the acceptable standard or workmanship, the Employer may order the contractor to execute certain portions of works and services and the like under the close supervision of the Employer /Architect. On approval, these items shall be labeled as guiding samples and works executed to confirm to these samples.

6.4. TESTING OF MATERIAL

- a. As required by the Employer the contractor shall provide all facilities at site or at manufacturer's work or an approved laboratory for testing of materials and/or workmanship. All the expenditure in respect of this shall be borne by the contractor unless specified otherwise in the contract. The contractor shall when required to do so by Employer, submit that the materials have been tested in accordance with requirements of the specifications. In case the owner demises to get a particular material tested from any laboratory, the testing fee shall be borne by the contractor.

- b. Neither the omission by the Employer to test the materials nor the production of manufacture certificate etc. as aforesaid shall affect the right of the Engineer-in-Charge/Architect to reject, after delivery the materials found not in accordance with the specifications.

6.5. ADDITIONAL WORK

The contractor shall make arrangements for and provide at no extra charges all temporary approaches, if required at site, after obtaining prior approval of the Employer of the layout of such approaches.

6.6. DRAWINGS APPROVALS

The contractor shall prepare shop drawings of each discipline and get it approved from the Architect before the commencement of work. The contractor shall submit fabrication drawing in triplicate obtaining preliminary approval of the Employer. for all design drawings of structural steel, electrical, public health curtain wall etc. elements already issued to him. One copy of these drawings duly corrected and signed wherever necessary by Architect will be returned to the contractor for preparing and resubmitting drawings after incorporating the said corrections again in triplicate for final approval. Along with the completion and approval of fabrication drawing, the contractor shall also submit the materials list, for checking and approval to the Architect. No drawing shall be approved finally without material list. Once the drawing is finally approved, no request for any alternative section will be entertained. The contractor shall also submit to Architect 8 prints of all approved drawings. The contractor shall also submit 4 copies of design calculations for the designs of joints. All joints shall be designed for full strength of members, unless otherwise specified. Approval of fabrication drawings however will not absolve the contractor of his responsibility for the safety and correctness of the fabrication.

6.7. CONTRACTOR TO BE LIABLE FOR ALL TAXES ETC.

The rates specified in the tender shall be inclusive of all taxes, toll. Customs, fees, octroi, royalty, GST etc. in respect of the contract and the rates shall be firm irrespective of any variation in the prevailing rates of taxes, levies, octroi etc. and any fresh imposition of any of these by State/ Central/ Statuary bodies. The contractor shall indemnify the EMPLOYER against levy of any taxes etc, in regard to this contract and in the event of the EMPLOYER being assessed for any of the said imports, the EMPLOYER shall have the right to recover the total amount so assessed from the contractor's dues and the contractor shall also be responsible for all costs or expenses that may be incurred by the EMPLOYER in connection with any proceedings or limitation in respect of the same.

6.8. WORKING DRAWINGS SHALL BE ISSUED IN PHASED MANNER

Approved working marked “Good for execution/construction” shall be issued by the Architect to the contractor progressively during the tenancy of the contract. Sufficient quantum of working drawings will be issued at the beginning to start with and subsequently in a phased manner. The Architect will try their best to issue the entire working drawings well in time to complete the work within the original period of completion; however, it cannot give any guarantee to this effect. The contractor on this account shall be entitled to put forth any claim whatsoever on this account.

6.9. CONTRACTOR SHALL LIBERALLY CURE THE WORK

The contractor shall be responsible for liberal curing of brick work, concrete work, plaster etc. as per CSR-PUNJAB Specification. Any slackness on this account will be viewed very seriously and if in the opinion of the Engineer-in-Charge /Architect (which shall be final), any damage is caused to the work due to inadequate curing then such work would be got dismantled and shall have to be redone by the contractor at his own cost.

6.10. FORCE MAJEURE

The right of the contractor to proceed with the work shall not be terminated because of any delay in the completion of the work due to unforeseeable causes beyond the control and without the fault or negligence of the contractor, including not limited to acts of God, or of the public any, restraints of a sovereign state, firms, floods, unusually severe weather.

6.11. APPROVAL OF SAMPLES

Before undertaking fabrication of doors/windows and any other item or any item of work for use in work the contractor shall arrange and manufacture at his own cost the relevant samples which shall be approved by the Employer. These samples will be sealed by the Employer in the presence of the contractor, if he so desires and shall remain in the custody of the Employer for reference and comparison till the completion of work. Samples of all materials will be got approved from the owner before making bulk purchase.

6.12. SCAFFOLDING

- a) Steel Forms to be used for building works shall have sufficient strength to withstand the pressure resulting from placement and vibration of concrete and shall be maintained rigidly in position. Form works shall be effectively supported by adequate number and size of struts, braces, ties, props to ensure rigidity of forms during concrete. Wooden props shall not be permitted for scaffolding.
- b) For certain activities of construction, the access will be from outside the structure and as such all cost of scaffolding, providing of safety nets,

special lifting machinery shall be deemed to have been included in the offer of the tenderer.

6.13. SHUTTERING PATTERN

Exposed concrete surface shall be even, smooth, original as stripped and without any finishing or rendering. The Contractor shall exercise special care and supervision of form work and concreting to ensure that the cast members are made true to their size, shape, position and to produce the required pattern. No honeycombing shall be allowed.

6.14. USE OF ADEQUATE CAPACITY MIXERS MANDATORY

The use of mixers of adequate capacity for concreting work is mandatory. In addition, two standby concrete mixers shall be made available at site for any emergency use. The contractor shall further provide adequate number of immersion type vibrators, screed board type vibrators and form vibrators.

6.15. PRECAUTIONS WHILE CONCRETING

Adequate precautions shall be taken by the contractor during hot weather concreting as indicated in ISI 7861 (Part-I) which may include dampening of sub grades and forms, placing concrete at lowest practical temperature, erecting temporary shades, reducing time between placement of concrete and start of curing, minimizing evaporation etc. etc.

6.16. WORK IN DOUBLE SHIFT

To speed-up the work, the Employer may direct the agency to work in two shifts and the tenderer will have to make adequate arrangements for carrying of work in two shifts for which nothing extra shall be payable.

6.17. CONSTRUCTION SCHEDULE

Before starting work, contractor should have to submit construction schedule for smooth working. If at any time, the Employer determines that the contractor has fallen behind the approved construction schedule, the Employer may, without any extra cost to the owner, require the contractor to take such steps as may be necessary to improve his progress, especially require him to employ overtime operations, increase the number of shifts, work on holidays and Sundays or increase the capacity of his construction plant and equipment and require him to submit evidence demonstrating the manner in which the contractor proposes to comply with the construction schedule. Failure of the contractor to comply with the above will be considered a failure to execute the work with due diligence.

6.18. JURISDICTION

Notwithstanding any other courts having jurisdiction to decide the questions forming subject matter of a suit any and all actions and proceedings arising out of or relative to this contract (including any arbitration in terms thereof) shall lie only in the court of competent Civil jurisdiction in this behalf at Chandigarh,

where this contract is to be signed on behalf of the Employer and only the said court shall have jurisdiction to try any such actions and/or proceedings to the exclusion of all other courts.

6.19. SCOPE OF WORK

The scope of work is as per enclosed preliminary drawings. The contractor should note that during the preparation of detailed working drawings, according to which the contractor has to execute the work covered under this contract, may undergo changes. The scope drawings for the entire work are not enclosed, but only a few indicating the probable nature of construction are attached. The scope of work is thus not limited only to the drawings attached.

6.20. CONTRACTOR TO BE LIABLE FOR ALL TAXES ETC

The rates specified in the tender are inclusive of GST or any other taxes, toll-tax, Excise and customs duty of any kind, fees, octroi, royalty etc. in respect of the contract and the rates shall be firm irrespective of any variation in the prevailing rates of taxes, duties, levies, octroi etc. and any fresh imposition of any of these by State/Central/ Statutory bodies. The contractor shall indemnify the Employer against levy of any taxes etc. in regard to this event of Employer being assessed for any of the said imports, the Employer shall have the right to recover the total amount so assessed from the contractor's dues and the contractor shall also be responsible for all costs or expenses that may be incurred by the Employer in connection with any proceeding or limitation in respect of the same. All invoices must be submitted in prescribed format as per the guideline in goods and services act.

6.21. THE COST OF TRANSPORT OF MATERIALS ISSUED BY THE OWNER

All other materials except those given in the schedule of "Store Issue Rates" required for the completion of work shall be arranged by the contractor at his own cost. Nothing shall be payable toward cost of transportation of materials irrespective of lead involved.

6.22. ARCHITECT'S ROLE

The Architect shall carry out general supervision, direction of the work and convey building sub-committee's decisions/observations to contractor. He has authority to stop the work, whenever he considers such stoppage necessary to ensure the proper execution of the work. He shall also have authority to inspect and reject all work and materials, which do not conform to the specifications and to direct the application contractor's forces to any portion of the work, as in his judgment is required, and to order the said force increased or diminished and to decide questions which arise in the execution of the work.

The Architect shall have the right to suspend the work or part thereof at any time and no claim whatsoever on this account shall be entertained. In case of any clarification the contractor may appeal to the Employer whose decision shall be final and binding on the contractor. The above inspection shall,

however, not relieve the contractor of his responsibilities in regards to defective materials or workmanship and the necessity for rectifying or replacing the same.

6.23. SERVICE OF NOTICE OF CONTRACT

The contractor shall furnish to the Employer, the name, designation and address of his authorized agent having power of attorney duly registered in court of law and all complaints notices, communications and references shall be deemed to have been duly given to the contractor if delivered to the contractor or his authorized agent or left at or posted to the address so given and shall be deemed to have been so given in case of posting on the day on which they would have reached such address in the ordinary course of post or on the day on which they were so delivered or left.

6.24. CONTRACTOR'S GUARANTEE

It shall always prevail upon all else that the contractor agrees to give the guarantee of his works in the following manner which shall remain valid till the release of security deposit in full.

- i. The Building(s) shall be handed over in perfect sound condition.
- ii. All materials incorporated in the work shall be new and both workmanship and material shall be of good quality.
- iii. Should, at a subsequent date, any inside honeycomb/hollowness have been detected within a concrete member, he shall investigate other nearby section for similar occurrence and shall rectify all these members by pressure grouting at his own cost and as per direction of the Employer.
- iv. Should any component of the structure been detected afterwards not exactly tallying with the working drawing, he shall redo the element at his own cost and as per instruction of the Employer.
- v. Should, at a subsequent date, any material or fitting or workmanship on any component of the structure detected as of substandard quality he shall either remove the same and shall redo at his own cost or shall accept an equitable deduction in the contract price.

6.25. All liquid retaining structures shall be demonstrated about their efficiency of water tightness by filling the said structures with water and retaining it for 72 hours at his own cost, should the result been found unsatisfactory he shall rectify the structure by pressure grouting or any other remedial measure at his own cost and as per direction of the Employer. Contractor is fully responsible for layout of work.

The contractor shall remain fully responsible to provide detailed layout of different structures according to the co-ordinates and reduced levels

incorporated in the working drawings by taking reference from the Bench marks of both the co-ordinates and the reduced levels which shall be given at convenient place in the work site by the Employer. The contractor shall provide necessary protection to the Bench Marks undisturbed throughout the tendency of the contract. The accuracy of detailed layout of any element of structure shall remain exclusively with the contractor. The contractor shall have to maintain a number of Theodolites and levels in good working conditions at site for the above purpose throughout the pendency of the contract, and shall make them available to the Employer for their use.

6.26. NOTHING EXTRA FOR ADVERSE SUB SOIL CONDITION

There may be variation in nature of sub-soil both horizontally and vertically. The contractor shall, have to take necessary precaution during excavation against any happening like collapsing of sides etc. Any slope or fall in excavation shall have to be cleared by the contractor at his own cost. In case of excessive heaving, it shall have to be cut and refilled with lean concrete by the contractor at his own cost. The contractor shall have to do under water work in case of occurrence of piping/quick conditions without any additional cost to the Employer.

6.27. RCC COMPONENTS SHALL BE INTEGRAL FINISHED

For all RCC components both underground and above ground, except hidden portion in foundation only ply wood and steel shuttering shall be used to produce the concrete surface reasonably plain and smooth which will be integrally finished surface. Any little unevenness shall be made good by rubbing with carborandum stones only. Unless otherwise mentioned, plastering will not be allowed to manipulate and make the surface plain and smooth. If the surfaces after stripping off the shuttering are found defective to the above conditions then the contractor shall have to dismantle the member and redo the same to attain the aforesaid desired surfaces at his own cost.

6.28. CONTRACTOR'S RESPONSIBILITY FOR THE MANNER OF EXECUTION OF WORKS

The contractor shall be solely responsible for the manner and the method of executing the work. The work shall be subject to the approval of EMPLOYER from time to time for purposes of determination of the question whether the work is executed by the contractor in accordance with the contract.

6.29. NO WORK SHALL BE UNDERTAKEN WITHOUT APPROVED WORKING DRAWINGS

No work shall be undertaken at site by the contractor until detailed approved working drawings marked "Good" for execution/construction is issued by the Architect in writing. Any work done without the aforesaid working drawing shall be at the contractor's own risk and costs.

6.30. SUBMISSION OF BILLS

Contractor is to submit the bills and record of measurements in triplicate on approved Performa of the Employer for works executed by him. The Bill shall be submitted once in a month.

6.31. ACTION AND COMPENSATION PAYABLE IN CASE OF BAD WORK

If it appears to the Employer or his representatives, that any work has been executed with unsound, imperfect or unskillful workmanship or with materials of any inferior description or that any materials or articles provided by him for the execution of the work are unsound or of a quality inferior to the contracted for, or otherwise not in accordance with the contract Punjab CSR specifications/PWD Punjab specifications the contractor shall on demand in writing from the Architect specifying the work materials, articles complained or not with-standing that the same have been inadvertently passed, certified and paid for, forthwith rectify or remove and reconstruct the work so specified in whole or in part as the case may require, or as the case, remove the materials or articles so specified and provide other and suitable materials or articles so specified at his own cost and in the event of his failing to do so within a period to be specified by the architect in his demand aforesaid, then the contractor shall be liable to pay compensation at the rate of the 10% on the amount of the estimate for every day not exceeding ten days while his failure to do so that continue and in the case of any such failure the Employer may rectify or remove, and re-execute the work or remove and replace with other materials or articles complained of, as the case may be at risk and expenses in all respects of the contractor.

6.32. INSPECTION

The works shall be inspected by the Architects. The contractor shall extend full co-operation and render all necessary facilities for inspection of the work to the inspecting authority without any additional cost to the Employer. It must be noted that any observations/comments/ recommendations of the said Technocrats shall be binding on the contractor.

6.33. LAND FOR COLLEGE SITE

The EMPLOYER shall, on written request from the contractor, provide to the contractor, at its own discretion, and for duration of the execution of work, land to the extent available for construction of temporary field workshop, store, assembly, and casting yard required for execution of the contract. Leveling, hard surfacing of ground and construction of temporary approach roads to the COLLEGE, workshop etc. as per plan approved by the Employer shall be done by the contractor at his own cost.

6.34. CONTRACTOR TO COMPLY WITH ALL LAWS

- i. The contract shall be governed by the Law in force in the Republic India.
- ii. The contractor to comply with all laws etc. The contractor shall be responsible to secure compliance with the Rules, Regulations, by Laws and orders of the Law authorities and statutory bodies which are in force or as may be in force from time to time. He shall give to the Employer/other relevant authorities all such notices etc. as may be required by Law and obtain all requisite licenses for temporary construction, enclosure etc. and pay all fees, taxes and such other dues or charges which may be Leviable on account of any of his operations in executing the works under this contract. The Employer shall not pay anything extra to the contractor on this account. The contractor shall also make good at his own cost, any damage done by him to any adjoining property during execution of work. The contractor shall use the materials of approved manufacturer and brands as listed here-in. Any materials whether listed as mentioned above or not must be got approved from Employer before incorporation of the same in the works.

6.35. COMPLIANCE OF ENTIRE PROVISIONS IS OBLIGATORY TO CONTRACTOR

It shall always prevail, unless otherwise specifically stated, that the entire provisions of Tender document been opened upon and accepted for compliance by the contractor without any reservation.

6.36. CONTRACTOR SHALL KEEP FOUNDATION PITS/TRENCHES DRY

The contractor, during the pendency of contract, shall keep the foundation pits, trenches, which are not yet back filled due to technical reasons, dry and shall bail out/pump all accumulation at his own cost for the safety of the structure/element. During pumping the contractor shall have to ensure that 'loss of Ground' does not occur, other approved method shall be taken by the contractor to avoid 'Loss of Ground' if occurred, at his own cost.

6.37. NOTHING EXTRA FOR INTRICATE CONCRETE SHUTTERING OR REINFORCEMENT WORK

Nothing extra shall be paid for any intricate concrete shuttering or reinforcement work for foundations and superstructure or for any delay inherent in-concreting in small and thin sections curved, straight etc. in concrete or RCC works etc.

6.38. NOTHING EXTRA FOR REBATING ETC

Nothing extra shall be paid in concrete/RCC works for all rebating chamfering, grooving, sinking, throating earthing, molding etc in accordance with the details shown on the working drawings.

6.39. CONSTRUCTION OF JOINTS

- i. In case of massive concrete elements both in foundation and in superstructure and in some other locations as would be permitted except where specified in the working drawings, and the work shall be carried out in one single operation without any break in concreting within time limit that would be specified by the Employer without any additional cost to Employer.
- ii. All specified construction joints, either horizontal or vertical, in any element of concrete member shall be provided with shear keys of such dimensions as would be determined by the architect. Before adopting the next operation for the other half of the element these shear keys along with the entire surface of the joint shall be roughened and deepened to above 20 mm by chipping and cleaned and washed thoroughly.

The contractor shall provide cement slurry in sufficient quantity over the cleaned surface for proper bond as per the directions of the Employer. The contractor shall not be entitled to any extra payment on this account.

6.40. PROVISION FOR MULTIFARIOUS CHECKING OF WORK

Before commencement of the actual concreting operation the position and layout of foundations, pedestals, inserts, pockets, recess, reinforcement and form work shall be checked repeatedly by the Employer or his representatives. No claim, what so ever, shall be entertained on this account. The level of foundations shall be accurately maintained as shown in the drawings or as directed by the Employer. No padding, plastering or chipping shall be allowed for achieving the results.

6.41. CLEARING, FILLING AND LEVELING OF SITE

The site shown on the layout plan shall be cleared by the contractor of all obstruction, lose stores, materials rubbish of all kind, as well as brushwood all holes hollow whether originally existing or produced by removal of loose stones or brush wood shall be carefully filled up with earth, well rammed and leveled off as directed by the Employer. The contractor shall keep the site clean and free from rubbish to the satisfaction of the Employer.

6.42. STANDARDS OF WORK

All works i.e. Civil works, Road work, Public Health works firefighting works and electrical works shall be done strictly as per Punjab CSR/PWD Punjab norms. Contractor shall prepare shop drawings for Joinery/ trusses works, Public health's, Fire fighting works and Electrical works at no extra cost to the department and obtain the approval of the same from the before execution of work at site.

6.43. ADDITIONAL CONDITIONS OF CONTRACT

- i. The work will be carried out strictly in accordance with the Punjab CSR specifications (amended up to date)/PWD Punjab specifications where applicable specification in the Tender documents/Drawing(s) to the entire satisfaction of the Employer.
- ii. No claim on account of fluctuations in prices due to war or any other cause will be entertained.
- iii. It will be the responsibility of the contractor to ensure that trees in the labour camp site and in the vicinity, etc. are not damaged by his labour or agents. Cost of such damages if any, will be assessed at the discretion of the Employer and deducted from the bills of the contractor.
- iv. The rates given in the attached Bill of Quantities are for finished work inclusive of carriage charges and all leads, lifts, GST and octroi charges etc.
- v. In the event of materials issued by the Employer as provided in the contract for bonafide work are misused, lost, stolen, damaged or rendered unfit for use while in the custody of contractor, he shall be fully responsible for all such losses and shall pay the Employer their cost at double the issue rates specified against each. Similarly the cost of other materials, if any, not provided in the contract and issued for use in the work having misused, lost, stolen, damaged or rendered unfit will be recovered at double the issue rates fixed by the Employer. In case of any delay or short supply of the above materials, no claim for any compensation shall be entertained due to interruption in the work or labour thus rendered idle.
- vi. The contractor shall be required to submit a return to the labour welfare Officer /Sr. Manager on the tenth of every month on the prescribed form for the payment of wages under fair wage clause. The failure of the contractor to do so will be considered as a breach of the contract and will be dealt as such.
- vii. The Employer will not be responsible for any loss or damage to the material the executed work or structure due to rains, floods or any other act of God.
- viii. The arrangement for water and electric supply required for construction purpose shall be made by the contractor at his own cost
- ix. The contractor shall be responsible for the removal of all such debits; such as have been created by the work allotted to him from the site of the work to specified places before the expiry of the contractual time failing which it will be got removed by the department at the contractor's cost and no claim regarding department having excessive amount on the removal of the debris shall be entertained.
- x. Earth required by the contractor shall not be dug from any part near the area of the work. The site from which the earth is to be brought is subject to the prior approval of the Employer.

- xi. The contractor shall be bound to follow the rules and regulations laid by Chandigarh Govt./Municipal Corporation/public health and electricity department etc.
- xii. Deduction on account taxes /Income Tax and other statutory levies shall be made from all bills.
- xiii. The contractor shall carry out all the work strictly in accordance with drawing(s), details and instructions of the Employer . If in the opinion of the Architect or the changes have to be made in the design, the same will be conveyed by the Employer to the contractor and the contractor shall carry out the same without any extra charge. the Employer decision in such cases shall be final and shall not be open to arbitration.
- xiv. The contractor should note that unless otherwise stated the tender is strictly on bases of rate quoted by contractor and his attention is drawn to the fact that rates for each and every item should be correct, workable and self-supporting. The “Quantities in the bill of quantities” approximately indicate the total extent of work but may vary to any extent and may even be omitted thus altering the aggregate value of the contract. No claim shall be entertained on this account within the variation limit provided for in the Tender documents.
- xv. Time allowed for carrying out the work as mentioned be strictly observed by the contractor and it shall be reckoned from the 7th day after written order to commence the work is issued. The work shall throughout the stipulated period of the contract be proceeded with all due diligence and if the contractor fails to complete the work within the specified period he shall be liable to pay compensation as defined in clause 1 of “General Condition” of contract agreement. The tenderer shall before commencing work prepare a detailed work program which shall be approved by the Employer.
- xvi. The contractor shall not be entitled to any compensation for any loss suffered by him on account of delays in executing the work, whatever the cause of delays may be and the Employer shall not be liable for payment of any claim in respect thereof. The Employer does not accept liability for any sum besides the tender amount, subject to such variations as are provided for therein.
- xvii. The contractor is bound to carry out any items of work necessary for the completion of the job even though such items are not included in the quantities and rates; schedule of instructions in respect of such additional items and their quantities will be issued in writing by the Employer.
- xviii. The contractor must co-operate with the other contractors appointed by the Employer so that the work shall proceed smoothly with the least possible delays and to the satisfaction of Employer.
- xix. All royalty, sales and other taxes, compensation for stone, bricks, bajri and for stone metal are included in the rates and are the liability of the contractor.
- xx. The contractor shall be required to deploy at site of work required no. of qualified Civil Engineers (Degree holders) with at least 3 years experience in the field of construction with suitable supplementary staff

according to the requirement of work failing which recovery @ 30000/- per month shall be made from his bill, in addition to being liable for all other consequences that may arise due to not appointing of Engineer.

Volume – II

(Agreement, Specifications and Recommended Makes and Quotation)

Agreement

This Agreement made on this _____ day of _____ , _____ between the representative of DAV College Managing Committee, New Delhi (hereinafter referred to as the 'Employer' which expression shall mean and include its successor in office, executor, administrator and assignee) of the one part

and

_____ (hereinafter referred to as the 'Contractor' which expression shall include his heirs, executors, administrators and assignees) of the other part.

Whereas the Employer is desirous of getting the Civil work and Renovation Multipurpose hall building at **D.A.V. College, Sector-10, Chandigarh** and has caused drawings & specifications describing the work to be done, to be prepared by the Employer and whereas the said drawings issued by the employer from time to time, and 'Notice Inviting Tender'. 'Instructions to Tenderers', 'General & Special Conditions of Contract', 'Technical Specification' and 'Schedule of Quantities' have been signed by or agreed to execute upon and subject to the conditions of the work shown upon the said drawings and/or described in the said specifications and included in the said schedule of quantities amounting to the estimated cost of Rs (hereinafter referred to as "the said contract amount"). And whereas the contractor has deposited with the Employer the sum of Rs.35 lacs as the 'Earnest Money' which shall become part of 'security Deposit' to be retained until the expiry of the defects liability period for the due observance and performance of this contract.

NOW IT IS HEREBY AGREED AS FOLLOWS:-

1. In consideration of the said contract amount to be paid at the time and in the manner set forth in the said conditions, the contractor shall, subject to the said conditions, execute and complete the work shown upon the said drawings and described in the said specification and/or schedule of quantities and other conditions within 4 months of the date of commencement of the work, the latest by ___ day of _____(month), _____(year)
2. The date of commencement of work will be taken as the date of issue of the letter of intent/order for award of the contract.
3. The contractor clearly understands that the time is the essence of the contract and penalty will be imposed for delay in execution of the work as per the terms of the agreement/contract.
4. The employer shall pay to the contractor the said amount or such sum as shall become payable at the times as hereinafter specified in the conditions.

5. The following documents shall be deemed to form and be read and construed as part of the agreement along with the amendments, negotiated and confirmed in various subsequent letters exchanged as mentioned hereinafter.
- i. Notice Inviting Tender
 - ii. Instructions to Tenderers/Bidder
 - iii. General & Special conditions of the contract
 - iv. Technical Specifications
 - v. Schedule of quantities
 - vi. Letter No. _____ dated _____ to the contactor for awarding the contract.
 - vii. Contractor's letter No. _____ dated _____ to the College Administration from the contractor in acceptance of the Award of Contract.
 - viii. Drawings.

Parties hereto all shall respectively abide by submitting themselves to the conditions and perform the agreement on their part respectively in such conditions contained.

As witness our hands this _____ day of _____

Principal (First Party)

Contractor (Second Party)

For

D.A.V. College, Sector- 10, Chandigarh.

In the presence of

In the presence of

Witness

Witness

Address: _____

Address: _____

SECTION – I TECHNICAL SPECIFICATIONS

All the work shall be carried out in conjunction with CSR-PUNJAB specifications & BIS with up-to date amendment till the date of call of tender.

1. CEMENT CONCRETE AND REINFORCED CEMENT CONCRETE WORK

1.1. Material

All materials shall be of approved quality.

1.2. Cement & Tor steel

Cement & Steel shall be procured by the contractor as per the recommended makes & certificates & test reports of the same shall be furnished.

1.3. WATER

Water to be used for both mixing and curing shall be potable and free from injurious amounts of deleterious materials which are likely to affect the strength or durability of concrete. Water containing any impurities, harmful salts shall not be allowed for use. Contractor shall procure water at his own cost and all consumption charges of water will borne by the contractor.

2. MIXING OF CONCRETE

2.1. MACHINE MIXING:

Concrete shall be mixed in mixers of adequate capacity.

3. TRANSPORTING, PLACING, COMPACTION AND CURING OF CONCRETE:

Concrete shall be handled from the place of mixing to the place of final deposit as rapidly as practicable, by method which will prevent the segregation or loss of any of the ingredients. If segregation occurs during transport, the concrete shall be re-mixed before use, provided the batch from which such concrete had been taken was not more than 20 minutes old then such concrete shall be discarded and mechanically compacted before the initial setting of cement has commenced and shall not be disturbed subsequently. During hot or cold weather concrete shall be transported in deep container to reduce loss of water by evaporation due to hot weather and loss of that due to cold weather. Deep containers are specified on account of their lower ratio of surface area to mass.

3.1. DROPPING OF CONCRETE

Concrete shall not be dropped into position from a height greater than 1.5 meters.

3.2. DEBRIS ETC. TO BE REMOVED:

All debris saw dust etc shall be removed from the shuttering before any concrete is placed. Care shall be taken to see that the shuttering is watertight and has been properly treated with approved shuttering oil to prevent absorption of water.

3.3. COMPACTION

Concrete shall be thoroughly compacted during operation of placing by the use of electrical or mechanical vibrators; sufficient number of vibrators (including stand by) of adequate capacities shall be available and be used for compaction of concrete. Vibration shall be carried out by skilled men and in the presence of a qualified supervisor skilled for the use of vibrators and vibrated concrete. In certain portions where vibration is not effective, careful roding and tamping shall be carried out and sufficient men employed to ensure that thorough compaction takes place. Where manual compaction becomes inevitable the workability of the mix should be controlled to suit such mode of compaction, subject of course, to strength requirement, being complied with. Manual compaction shall be carried out at only such places which have been identified as such by EMPLOYER.

Concreting shall be carried out continuously up to predetermined position of construction joints. The position and arrangement for construction joints shall be approved the Architect/EMPLOYER.

4. PACKING AROUND REINFORCEMENT:

In case of reinforced concrete work, the concrete shall be carefully consolidated and packed around the reinforcement & care shall be taken to ensure that reinforcement is not displaced during the placing & compaction of concrete. If reinforcement gets displaced, it must be brought back in position immediately.

5. CURING

The concrete work shall be water cured for a minimum period of 14 days after concreting in accordance with IS 456-2000 or as advised by Employer/Consultant. Horizontal surfaces shall be kept covered with water ponds by means of flooding and vertical surfaces like those of columns, fins etc. by gunny bags kept constantly wet with water sprays. Mere sprinkling of water on vertical surface without packs of gunny bags will not be allowed. In respect of concrete made out of pozzolana cement curing shall be continued for a minimum period of 3 weeks and nothing extra shall be paid for additional period of curing.

6. TEST FOR CONCRETE

Tests shall be conducted in accordance with IS-516-1959 with up to date amendments.

7. TEST CUBES

Work test cubes shall represent quality of concrete incorporated in the work and taken out in sets of 6 cubes. The concrete for preparation of one set of 6 cubes shall be taken from one batch of mixed concrete discharged from mechanical

mixer. The cubes shall be molded in accordance with Indian Standard code of Practice. A minimum of one set of 6 cubes of 15cm x 15cm x 15cm shall be taken for every mix of 100 bags of cement or part thereof of concrete poured and that shall be considered as representative for said quantity. This is an average figure, and may be adjustable to cater to special conditions like special structures, different mixes etc. at the direction of EMPLOYER at site.

The cubes shall be cured as per IS code of Practice. The entire operation of casting, arranging and dispatch of cubes to Laboratory will be carried out by the contractor, under the supervision of the EMPLOYER. Out of 6 cubes 3 cubes shall be tested after seven days and 3 cubes after 28 days in an approved Government/site Laboratory as per direction of EMPLOYER. The cubes shall be initialed, numbered and dated jointly by the contractor's representatives and the EMPLOYER's representative with a piece of wire or nail, so that an identification of the initials is left on the cubes.

The contractor shall arrange to transport the cubes to the approved laboratory and arrange to have the test results forwarded (in duplicate) directly from the laboratory to the EMPLOYER. The contractor shall bear all expenses in connection with the preparation of test cubes, like cost of moulds, cost of concrete, labour and transportation charges to the approved laboratory etc. including necessary laboratory testing charges and nothing on this account shall be reimbursable to the contractor. A register shall be maintained at site by the contractor with the following details entered and initialed jointly by the contractor and the Employer's representative.

- i. Reference to specific structural member receiving the batch of concrete from which the cubes were cast
- ii. Mark on cubes
- iii. The mix of concrete
- iv. Date & time of casting
- v. Water cement ratio by weight and slump
- vi. Crushing strengths as obtained at the end of 7 days for 3 cubes out of a set of 6 and at the end of 28 days for the other 3 cubes
- vii. Laboratory in which tested and reference to test certificate
- viii. Any other information as directed by the Employer .

A record of the concrete incorporated in the work that is represented by the quality of concrete by the set of cubes along with the description of the structural members where concrete has been deposited shall be maintained. For floor beams and slabs, such record shall be supported by a drawing, the areas of concreting carried out and representing the set of cubes taken out shall be properly identified with cube reference entered in the drawing at the relevant portions. This record shall be initialed jointly by the contractor and the Employer. The whole record shall be kept in the custody of the Employer.

8. VIBRATION OF CONCRETE/WATER/CEMENT RATIO

The water cement ratio for all vibrated concrete (except controlled concrete) shall be determined as per ISI code. Keeping in view the moisture in the aggregate which shall be got approved from the site- in-charge and the same shall not be varied unless otherwise directed.

9. PLACING

Concrete shall be placed in layers not exceeding 300 mm and shall be vibrated in such manner which will not permit the ingredients to separate. Surfaces shall be smooth and free from voids caused by stone pockets. Where necessary, vibration shall be supplemented by hard spading to secure these results.

10. NUMBER & SIZE OF VIBRATORS

Vibrators shall be of sturdy type construction, adequately powered and capable of transmitting to the concrete not less than 3,000 impulses per minute when operating under load. The vibration shall be sufficiently large to cause the concrete to flow or settle readily into place and visibly affect the concrete over a radius of at least 450 mm (18"). A sufficient number of vibrators (at least one vibrator at the rate of concreting of 1.5 cum (50cft. per hour) shall be employed so that at the required rate of placement, vibration throughout the entire volume of each layer of concrete is achieved and complete compaction is secured.

11. MANIPULATION OF VIBRATORS

Internal vibrators shall be kept constantly moving in the concrete and shall be applied at points uniformly placed not further apart than the radius over which the vibrator is visibly effective. The vibrator shall not be held in one location long enough to draw a pool of grout from surrounding concrete. The vibration shall be such that the concrete becomes uniformly plastic and there shall be at least 200 seconds of vibration per square meter (20 second of vibration per sft) of surface of each layer of concrete, computed on the basis of visibly affected radius and taking overlap in to consideration.

12. GRADE OF CONCRETE

The concrete shall be in grade as per BOQ Specification & Structural drawings.

13. WATERTIGHT CONCRETE

Concrete in all underground works such as water tanks and the like where concrete of 1:1.5:3 or richer is specified, will be considered as watertight concrete whether so specifically mentioned or not in the bill of quantities. In respect of such concrete it shall be contractor's responsibility to ensure that the resulting construction is watertight, falling which, the contractor shall carry out at his own cost, all necessary remedial measures duly approved by the EMPLOYER.

14. WATERPROOF CONCRETE

Excepting internal R.C.C columns and R.C.C walls all structural concrete of basement slab and retaining walls, water tanks and underground tank shall be cast with admixture of water proofing compound. The waterproofing compound

for the purpose shall be of approved manufacturer and shall be mixed as per manufacturer's specification. The resulting concrete shall be perfectly waterproof. The contractor shall give a guarantee for five years against water leakage through the resulting concrete work and shall rectify all defects during the guarantee period without any extra charges. The waterproofing compound for this purpose shall be paid in a separate item as entered in the schedule of quantities.

15. FORM WORK MATERIALS & DESIGN:

The form work shall be of approved steel shuttering, surface to be in contact with concrete to be planned except where otherwise stated. In every case, joints of the shuttering are to be such as to prevent the loss of liquid from concrete.

In case of steel shuttering also the joints are to be similarly aligned. If any particular material be specified in the Schedule of quantities for form work then only such particularly specified material or materials shall be used in work. The form work shall be constructed so as to remain sufficiently rigid during placing of concrete. All shuttering and framing must be adequately stayed and braced to the satisfaction of the EMPLOYER for properly supporting the concrete during the period of hardening, ramming and vibration without excessive deflection from the prescribed limits and more so when the concrete is in the process of being vibrated. The surface of all forms in contact with concrete shall be clean, rigid, watertight and smooth. Suitable devices shall be used to hold corners, adjacent ends and edges of panels of other forms together in accurate alignment.

The form work shall conform to the shape, lines and dimension to suit the RCC members as shown on drawing and shall be fabricated. Form work shall be adequately designed to support the full weight of workers, fresh placed concrete without yielding, settlement of deflection and to ensure good and truly aligned concrete finished in accordance with the construction drawings. A camber in all direction of 6mm for every 5 meter spanning all slab and beam centering shall be given to allow for unavoidable sagging due to compression or other causes.

The form work shall be so designed that the sides of the beams shall be first struck leaving the soffit of beams and the supporting props in position without being disturbed. Props shall be designed to allow accurate adjustment and to permit of their being struck without jarring the concrete.

16. VERTICAL SUPPORTS

The vertical supports shall be carried down to such solid surface as is sufficiently strong to afford adequately support and shall remain in position until the newly constructed work is able to support itself. Props shall be securely braced against material deflection. The spacing of struts shall be designed to carry loads imposed on it without undue deflection of the members supported by the props. The spacing of props shall be approved by EMPLOYER and any alterations suggested by him shall be carried out at contractor's expense. Bracing shall be provided as directed without extra cost. The contractor shall allow in his rates for providing props and struts for any height shown in the working drawings issued to the contractor from time to time.

17. WATER TIGHTNESS

It is the contractor's responsibility to ensure that the forms are checked for water tightness just before concreting operation at the start and to make good any deficiencies. If instructed by the EMPLOYER craft paper will have to be used without any extra payment for the same.

18. CLEANING & TREATMENT OF FORMS

All rubbish, particularly chipping, shavings and saw dust, shall be removed from the interior of the forms before the concrete is placed and the form work in contact with the concrete shall be cleaned thoroughly wetted or treated with approved shuttering oil. Care shall be taken that such approved shuttering oil is kept out of contact from the reinforcement. Interior of all moulds and boxes must be thoroughly washed out with hose pipe or otherwise so as to be perfectly cleaned and free from all extraneous matter before depositing concrete. Prior approval of the form work must be taken in writing from the Employer before placing reinforcement on the form work.

19. MINIMUM CEMENT CONTENT

The minimum quantity of cement in the concrete mixes shall be as per BOQ & Structural drawings/CSR-PUNJAB/CPWD Guideline

20. CONTRACTOR'S RATES TO INCLUDE

The rates of the contractor for providing and laying cement in various grades or proportion in the schedule of quantities shall include apart from any other factors specified elsewhere in the tender documents.

For all factors and method of work described in this specification. For all materials, labour, tools and plants, shuttering and scaffolding etc. mixing conveying and placing concrete in position, ramming, vibrating, toweling, curing providing necessary scaffolding and removing the same after the work is complete.

Unless otherwise specified in the schedule of quantities the cost for concrete items shall include for providing stays, struts, bolts nuts and everything necessary to keep the form rigid, smooth the surface to receive concrete as per detailed drawing, striking and stripping form-work after the concrete is cured, hacking the concrete surfaces required to receive plaster etc. The reinforcement incase of reinforced concrete work will be paid for separately unless otherwise stated in the particular items, but rate shall include for pouring concrete and packing around reinforcement.

The measurement of concrete will be as per detailed drawings, shapes and sizes based on net structural sizes as per drawings i.e. exclusive of plaster.

Rates for concrete items shall cover for any shape of structural columns, beams, fascia fins, louvers etc. and for cantilever beams, slabs etc including curved structures.

The filling of the joints with bitumen filler, bitumen felt or any such material as specified by the Employer and the provision of copper or brass plates etc. shall

be paid for separately in running meters. The measurements shall be taken up to 2 places of decimals stating the depth and width of the joints.

Rates of reinforced cement concrete work shall further include the following and nothing extra shall be admissible.

- Fixing all inserts like pipes, plugs, forming holes etc. as described.
- For taking out dowel bars, fan hooks etc., through shuttering.
- For forming drip moulds in chhajja, sills etc. and where shown in the drawing, or as directed.
- For work at all levels, unless otherwise mentioned in the schedule of quantities.

In case where at the junctions of beams, columns, slabs, the composition of concrete mix of specified strength be different for columns, beams and slab then in such cases only the richer concrete among those specified for in all these members, shall be used at the junctions and rate quoted for columns, beams and slabs or any members entering such junctions shall be allowed for the same. Rate shall also cover for spill over by richer concrete in beams to natural angle of repose of wet concrete required from practical consideration while concreting the junctions.

21. STEEL REINFORCEMENT

Before steel reinforcement is placed in position the surface of the reinforcement shall be cleaned of rust, dust, grease and any other objectionable substances.

22. CUTTING OF REINFORCEMENT

Before steel reinforcement bars are cut, the contractor shall study the lengths of bars required as per drawing and shall carry out cutting only to suit the sizes required as per drawings to avoid undue wastage.

23. PLACING AND SECURING

Reinforcement bars shall be accurately placed and secured in position and firmly supported by pre-cast concrete blocks of suitable thickness, at sufficiently close intervals to avoid sagging between the supports or get displaced during the placing of concrete or any other operation of the work. It is most important to maintain reinforcement in its correct position without displacement and to maintain the correct specified cover. The contractor shall be responsible for rectification required in case the bars are displaced out of their correction position.

24. BINDING WIRE

The reinforcement shall be securely bound wherever bars cross or wherever required with 20 gauge soft annealed steel wire. The reinforcement will be minimum disturbed while placing PVC conduit for light, fan & other services.

25. WELDING

The welding of the steel reinforcement shall be done as per ISI specifications. The welded steel work shall be tested for quality of weld as per I.S. code.

26. INSPECTION OF REINFORCEMENT

No concreting shall be commenced until the Engineer-in-charge has inspected the reinforcement in position and until his approval has been obtained. A notice of at least 24 hours shall be given to the Employer by the contractor for inspection of reinforcement. If in the opinion of the Employer, any material is not in accordance with the specifications/drawings or the reinforcement is incorrectly spaced, bent or otherwise defective, the contractor shall immediately remove such materials from the site and replace with new and rectify any other defects in accordance with the instructions of the Employer and to his entire satisfaction. It shall be contractor's responsibility to maintain a register at site in which entry to the effect that the Employer has approved the reinforcement and has allowed concreting shall be made. Pour card in this respect shall be prepared by the contractor showing bar binding schedule, detail of design mix, details of shuttering etc which shall be checked & approved (if found correct) by the Employer & Architect before pouring of the concrete.

27. NET MEASUREMENT

Reinforcements shall be placed as shown on the structural drawings and payment will be made on the net measurements from drawings. Only such laps, dowels, chairs and pins in reinforcement as approved by the Architect or as shown on drawings shall be paid for. The contractor shall allow in his quoted rates for all wastage since the same have not to be paid for separately.

28. COVER FOR REINFORCEMENT

Cover shall be measured from the outer surface of main reinforcement. Unless otherwise specified on the drawings cover shall be as follows:

- i. At each end of a reinforcing bar, 25 mm or twice the diameter of such rod or bar, whichever is greater.
- ii. For longitudinal reinforcing bar in beam 25 mm or the diameter of such rod or bar, whichever is greater.
- iii. For tensile, compressive, shear or other reinforcement in a slab 13 mm or the diameter of such reinforcement whichever is greater.
- iv. For main reinforcement in isolated footings (side and bottom) effective cover shall be 75 mm.
- v. For columns bars effective cover shall be 40 mm g) For bars in slab of strip footings and mat foundations the effective cover shall be 75 mm. Beam bars shall be placed over slab bars in respect of beam and slab type foundations.

RATES QUOTED FOR REINFORCEMENT SHALL BE IN ADDITION TO ANY FACTORS MENTIONED ELSEWHERE, SHALL ALSO INCLUDE FOR:

- a. All cutting to length, labour in bending and cranking, forming hooked ends, handling, hoisting and everything necessary to fix reinforcement in the work as per drawings.
- b. De-coiling, straightening (coiled bars, bent bars to facilitate transporting).
- c. Cost of binding wire required as described.
- d. Cost of pre-cast concrete cover blocks to maintain cover and holding reinforcement in position.

For fabricating fitting reinforcement in any structural member irrespective of its location, dimensions and level. Removal of rust and every other undesirable substance, using wire brush etc. as described at works at all levels/heights.

The reinforcement shall be paid for by considering standard.

Co-efficient of weight and nothing extra shall be paid on account of rolling margin if any.

29. APPROVAL OF CONCRETING ARRANGEMENT ETC

Before construction commences the contractor shall supply to the Employer for his approval, drawing the general details arrangements for his concreting plant, system of form-work and all other devices which he proposes to use for the construction of RCC frame structure.

30. SAMPLE AND TESTS

Every facility shall be provided to enable the Employer to obtain samples and carry out tests on the materials and construction, if these tests show that any of the materials or construction does not comply with the requirements of the requisite specifications, the contractor shall be responsible for replacement of the defective materials or construction. The necessary cost of all such test has to be borne by the contractor.

31. REJECTED MATERIALS

All materials which have been damaged, contaminated or have deteriorated or do not comply in any way with the requirements of the specification shall be rejected and shall be removed from the site at the contractor's own expense within time ordered by the Employer

32. STACKING OF MATERIAL ON FLOOR SLABS

No materials shall be stored or stacked on suspended floor slabs without the Employer's prior approval.

33. CO-ORDINATION

The contractor shall be responsible for the co-ordination with sub-contractors or other contractors for incorporating any inserts or electrical conduit pipes, fixing blocks, chases, holes etc in concrete members as required. The contractor shall ensure that these requirements have been approved by the Employer before concreting operation are put in hand all fixing blocks, chases, inserts holders etc., to be left in the concrete shall be of the size specified and be accurately set out and placed before pouring concrete. The contractor's rates quoted for concrete items shall include all these factors. No holes and chase shall be cut in concrete without prior approval of the Employer.

34. INSERTS IN CONCRETE

The contractor should note that he shall provide necessary wooden plugs, valves etc required for the works for which no extra payment will be made. He will have to provide the same if so directed by the Employer.

**INSTRUCTIONS TO CONTRACTORES
AND
LIST OF DOCUMENTS TO BE FURNISHED FOR PRE-QUALIFICATION**

Application super scribed **“Pre qualification of contractors for Renovation of Multipurpose at DAV College, Sector-10, Chandigarh ”**

Should reach the OFFICE, DAV College Sector 10 Chandigarh not later than hrs onShall not accept any loss delay in transit as an excuse for delay/late application.

1. Scope of work :

The work consist of civil and interior work in existing multipurpose hall

Eligibility Criteria

Tenders are invited from well-experienced, established and resourceful Agencies / Companies/ Firms /Individual/ Sole Proprietor/Limited/Private Limited/ Partnership/Limited Liability Partnership (LLP) having experience in the field

- 1.1. The contractor should have experience at least 5 years in Building work. supported with documents with details of work order & completion certificate from Client.
- 1.2. The contractor should have successfully completed at least 2 works of institutional nature/ auditorium during last 3 years.
 - a. One similar completed work as per Eligibility Criteria costing not less than the amount equal to Rs. 35.00 Lakh.
OR
 - b. Two similar completed works as per Eligibility Criteria costing not less than the amount equal to Rs. 25 Lakh each.

2. Following documents shall be part of eligibility criteria

- 2.1. Details of establishment:
 - i. Name of Firm:
 - ii. Year of establishment:
 - iii. Registered office, head office & ranch office(s)
 - iv. Telephone no.
 - v. Status of company: proprietary/partnership /private ltd/limited/ any other

- vi. Name & address of
 - vii. Proprietor/ partners/ directors etc.
 - viii. Name of Contact person
 - ix. State (Chandigarh) GST no. (Attach copy) :
 - x. PAN no. (Attach copy) :
 - xi. EPF code no. (Attach copy):
 - xii. ESI code no. (Attach copy): :
 - xiii. Enlistment letter (Minimum Rs. 50 Lakh):
(MES/CPWD/PWD/Other govt. dept.)
- 2.2. A certificate from the Statutory Auditor/ Chartered Accountant, indicating turnover of the company as per Annexure for the last three accounting years. Bidder is to submit annual audited accounts along with auditor reports for
- 2.3. Bidder is required to submit the valid Bank Solvency of value not less than of Rs. 35 Lakh and not older than six months from the date of issue of this NIT. Invalid Bank Solvency/ Bank Solvency without date would not be accepted.
- 2.4. All supported documents submitted with the tender shall be stamped and signed either by the Managing Director/Head of the entity or by an authorized representative holding proper authorization from the Head of the Entity.

Annexure-1

Format for Annual Turnover for the last 3 years as per the Audited Accounts
(attach Audited Balance sheet)

S. No.	Financial Year/Accounting Year	Total Turnover Indian Rupees(INR)	Turnover from Similar works as per eligibility criteria Indian Rupees(INR)
1	Financial year 2016-17		
2	Financial year 2017-18		
3	Financial year 2018-19		

Note:

- If average annual turnover during last three years is less than Rs. 50 Lakh the bidder will not be eligible.
- Should not have incurred any loss in any financial year during the last three years ending on 31st March, 2019.

This is to certify that the above information has been examined by us on the basis of relevant documents; books of accounts & other relevant information and the information submitted above is as per record and as per details annexed.

(Signature of Authorised Signatory of bidder)

Annexure-2

List of Plants, machinery & equipment's available for deployment of works.

Sr.no	Plants, machinery & equipment's	Date of Purchase	No.

(Signature of Authorised Signatory of bidder)

Annexure-4

List of all works in hand irrespective of monetary limit with following details:

Name of work with detailed scope of work	Name and address of client with telephone no and contact person	Date of allotment & value of work	Date of start of work	Stipulated date of completion	Present status of work

(Signature of Authorised Signatory of bidder)

Annexure-5

Arbitrations/Court cases, if any during last five years.

Name of work with detailed scope of work	Name and address of client with telephone no of contact person	Date of allotment & value of work	Present status of work

(Signature of Authorised Signatory of bidder)

Annexure-7

Furnish the names of three responsible clients/ persons to whom the major works carried out by the applicant with address and telephone number who will be in a position to certify about the quality as well as past performance of your organization:

Name of the official	Organization & Address	Contact number
		Office: Mobile:
		Office: Mobile:
		Office: Mobile:

(Signature of Authorised Signatory of bidder)

1. APPLICANTS ARE ADVISED THAT :

- (a) All details required above are to be submitted. An application with incomplete information is liable to be rejected.
- (b) Submission of the above information and /or meeting of the minimum criteria shall not automatically qualify the applicants for issues of tender.
- (c) Short listing of contractors is only for issues of tender and it shall be clearly understood that short-listed contractors do not automatically qualify for award of contract.
- (d) Administration does not bind itself to accept any offer of short-listing of contractor(s) and reserve to itself the right to accept or reject any or all the offers of short listing of contractor(s) either whole or in part without assigning any reasons for doing so.

2. DECLARATION :

- (a) All the information furnished by me / us here above is correct to the best of my knowledge and belief.
- (b) I / we have no objection if enquiries are made about the work listed by me / us in the accompanying sheets / annexure.
- (c) I / We agree that the decision of The Employer in selection of contractors will be final and binding to me / us.
- (d) I / We have read all the instructions and I / we understand that if any false information is detected at a later date the tender can be canceled and earnest money will be forfeited.

Place :

Date:

(Signature of Authorised Signatory of bidder)

Annexure 8

CHECK LIST

Bidder must ensure through this check list that all requisite documents for pre-qualification cum technical documents are enclosed while submitting the tender documents.

1	Structure/Brief Profile of the firm.	
2	Experience with documentary support	
3	Relevant Documents for ascertaining the existence of entity like certificate of Year of establishment of firm	
4	Earnest Money	
5	Valid Bank Solvency	
6	Copy of PAN No.	
7	Copy of GST Registration	
8	Copy of PF registration	
9	Copy of ESI registration/ Workmen compensation policy	
10	Authorization letter to sign the tender	
11	Completion certificates of work done	
12	Audited balance sheet of last three years	
13	List Plants, machinery & equipment's available	
14	Signing of all pages of tender document and attached proofs/documents	
15	No. of certificates enclosed	
16	No. of additional annexure	

(Signature of Authorised Signatory of bidder)

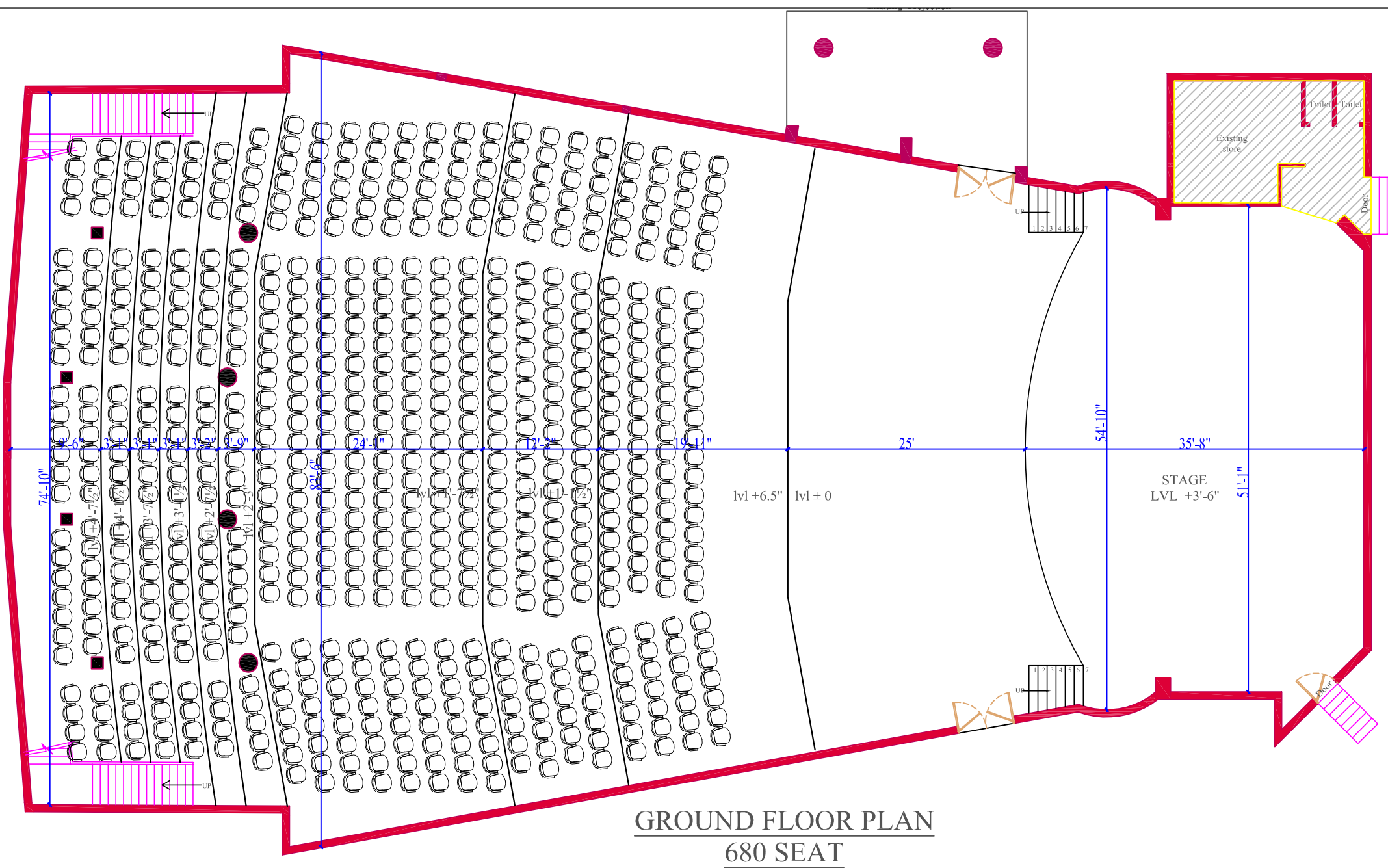
Estimate for construction of Main Auditorium at DAV College Sector 10 Chandigarh .

Construction & Renovation Main Auditorium

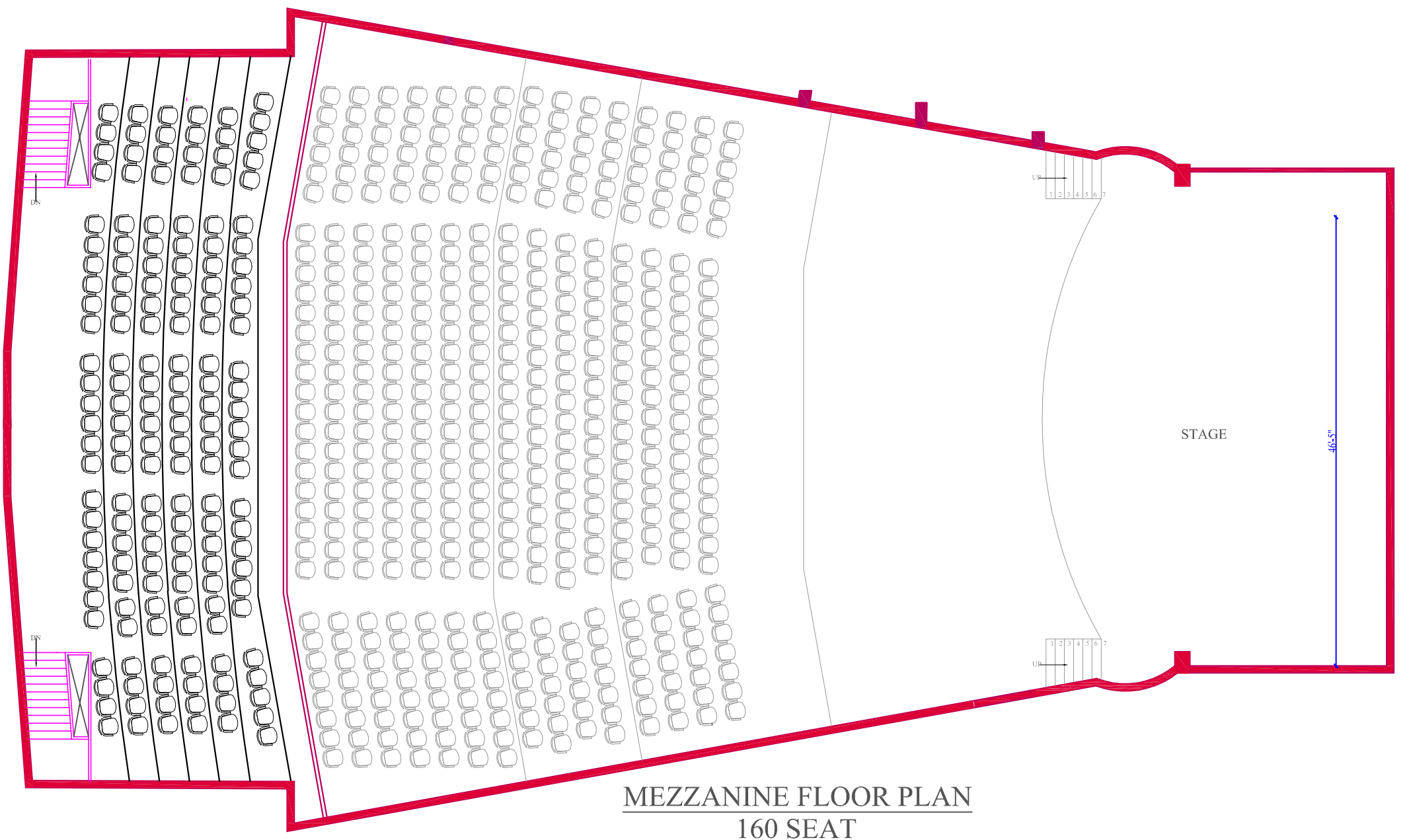
S.N.	Item No.	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
1	2.6.1	Earth work in excavation by mechanical means /manual means over area including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. All kinds of soil.	10.00	CUM		
2	2	Filling available excavated earth in trenches, plinth, sides of foundation etc. in layer not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, lead up to 50m and lift upto 1.5m	10.00	CUM		
		Supply & Filling sand below steps consolidating each deposited layer by ramming and watering,	60.00	CUM		
3	4.1.10	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level 1: 5 : 10 (1 cement :5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	40.00	CUM		
4		Reinforced cement concrete work in Retaining walls, slab, steps & beam (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts, etc. upto floor five level excluding cost of centring, shuttering, finishing and reinforcement 1:1.5:3 (1 Cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	5.00	CUM		
5	5.9.1	Centering and shuttering including strutting, propping etc. and removal of form for : Foundations, footings, Retaining wall, slab , beams, bases of columns, etc. for mass concrete	100.00	SQM		
6	6.4.2	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation, retaining wall , steps, and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	10.00	CUM		
7	13.1.1	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)	150.00	SQM		
8		Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr / 10 sqm	1900.00	SQM		
9		Supply & fixing of 70mm thick having 38 dB acoustic door having infill of 47mm thick resin bonded glasswool of 24kg/ M3 density coated with FR Acrylic Sealant Sandwiched between two 9 mm thick starpan calcium sillicate boards a 100% without asbestos, Brucite and Meerscham having a density not more than 1150kg/ M3 and thermal conductivity 0.14 W/M*K faced with 6mm thick commercial ply with heat activated intumescent fire seal strip of size 10mm x 4mm mounted in the grooves having hardwood lipping of size 15mm x 70mm and 1mm thick laminate facing on both sides in desired shade and colour as per Engineer-in-charge. Make: Global/ Navair/ Noisecon or equivalent.	16.00	sqm		
10		Providing and fixing Dead Lock of reputed brand and manufacture to be approved by the Engineer- in- charge, all complete.	4.00	nos		
11		Providing and fixing IS: 12817 marked stainless steel butt hinges (heavy weight) with stainless steel screws etc. complete:				
		125x64x2.50 mm	32.00	nos		

12		Providing and laying 600x1200 mm vitrified floor tiles in different sizes with water absorption less than 0.08% and confirming to IS:15622, of approved make, in all colours and shades laid on 20mm thick cement mortar 1:4 including grouting the joints with white cement and matching pigments etc. complete.	50.00	SQM		
13		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.).	100.00	K.G.		
14		12.5 mm thick tapered edge gypsum plain board.	550	Sqm		
15		Providing and fixing false ceiling at all height with 600x600mm X 15 mm thick Acoustical tiles of approved shade and make with square edges made of fibre glass substrate.The tiles should have Humidity Resistance (RH) of 95%, NRC 0.90, Light Reflectance >88%, Thermal Conductivity k = 0.032 w/m K, Colour White & black, Fire Performance Class 0/ Class 1 (BS476 Class 6&7) including providing and fixing of frame work made of special sections of "Armstrong" make suprafine 15mm, complete in all respects and to the entire satisfaction of the Engineer-in-charge/ consultant / architect	324	Sqm		
16		Auditorium Flooring				
		Providing and fixing not less than 400 gms/sqmtr loop pile carpet (Make: Comrade, Unitex, Sundram or equivalent) polypropylene pile height 3mm tufts per sqm 161.450 sound absorption DLw =20db carpet as per the manufacturer specifications backed with 6mm underlay of make: Supreme, Armaflex or equivalent.	900.00	sqm		
		TOTAL				
		Stage Furnishing				
1	NS	Providing & Fixing of AC 6 lamiate wooden flooring on existing base frame for wodden flooring with the specification of It has Formaldehyde emission with test method of EN 717-1 with characteristics of <0.05ppm. It has Surface stain resistance EN 438-2,15 with Characteristic of Grade 5, no visible change to surface. It's strength overall heat transfer coefficient Thermal resistance (m ² X k)/W. Its Edge straightness (bend) is <0.3mm/m with the test method EN 13329. Fire resistance method is EN 13501-1.It's lightfastness testing method is EN ISO 105-B02, EN 20 105-A02 with characteristics of > level 6 blue wool Scale, > Level 4 grey scale. EN 438-2, 18 is the testing method of resistance to cigarette embers with the characteristics Grade 4, no visible changes to surface. It's Static Indentation is <0.01mm-no visible changes, Impression in test with straight steel cylinder of 11,3 mm diameter with the method of EN 433. Thickness of this product is 12mm. opening between connected elements is Average :< 0.15mm, max :< 0.20mm with the testing method of EN13329. It has height difference between connected elements with testing method of EN 13329 with the characteristics of Average: < 0.10mm, Max: < 0.15mm. Underlay material Foam 2mm, Polythene .3mm. European certification brand like equivalent to KRONOTEX / QUICKSTEP.	155	sqm		

2	NS	Providing & fixing motorized front curtain for a proscenium opening of size 17 m X 6.5 m made out of flame retardant cloth (minimum 250 grams per square metre) of approved shade horizontal sliding arrangement with heavy duty winch machine to roll the steel rope 3mm thick on convey or track complete with runner, master runner, pullies, electric motor (1HP), Air Breaker contactors 2 nos, 2 nos micro switches for auto stop, 3 nos push button for forward reverse and stop position and also hand operated mechanism composed of brass pullies and 3mm thick steel wire rope would be installed to operate the curtain in case of electricity failure including carriage of materials with all leads and lifts and cost of labour etc, complete in all respects and to the entire satisfaction of the Engineer-in-charge / consultant / architect	75	sqm		
		TOTAL				
			GRAND TOTAL			



GROUND FLOOR PLAN
680 SEAT



MEZZANINE FLOOR PLAN
160 SEAT

TOTAL APPROX 840 CHAIRS

PROJECT:-
PROPOSED AUDITORIUM PLAN
DAV SECTOR 10 CHANDIGARH

Revision		
no.	date	remarks
01	01-12-2019	as/comments

Client:	Architect:
File:	Sheet title: LAYOUT PLAN
Date: 17-09-2019	Drawn by: P00JA

Ar. Parveen Kumar

Creative Solutions
Architects & Interior Designer

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