BID DOCUMENT FOR

Providing and Fixing of Floor Tiles etc. in Admission Room, Administrative Block at Punjab Engineering College, Sector 12, Chandigarh

Last Date of Submission:	29.01.2021 upto 2.00 PM
Opening of Tender:	29.01.2021 at 3.00 PM
Estimated Cost:	1,23,206/-
EMD:	2,470/-
Time	30 Days

Punjab Engineering College

(Deemed to be University)
Sector-12- Chandigarh

E-TENDER NOTICE

The University Engineer, Punjab Engineering College, Chandigarh invites on behalf of the Director, Punjab Engineering College E-Tenders on percentage basis from listed eligible contractors of appropriate class and category enlisted with Chandigarh Administration, Municipal Corporation, Chandigarh, CPWD, State PWDs of Punjab, Haryana and Himachal and their Boards and Corporations of states shall be uploaded and received on http://etenders.chd.nic.in upto 14.00 hours on 29.01.2021 which shall be opened at 15.00 Hrs. on 29.01.2021 for the work.

Sr No	NI T No	Name of work & location	Estimated cost put to tender	Earnest	Period of Completion	Last date & time of submission of tender on website	Time & date of opening of tender
1	2	3	4	5		8	9
1.		Providing and Fixing of Floor Tiles etc. in Admission Room, Administrative Block at Punjab Engineering College, Sector 12, Chandigarh	1,23,206/-	2,470/-	01 month	29.01.2021 upto 2.00 PM	29.01.2021 at 3.00 PM

- 1. Bid document can be downloaded from the website of Punjab Engineering College (www.pec.ac.in) or http://tenders.chd.nic.in/.
- 2. All other terms and conditions, instructions to bidder regarding e-tendering process etc. may kindly be seen from the detailed Notice inviting Tender (NIT) available/downloadable on the above noted websites.

Eligibility Criteria:-

The agencies can submit application alongwith certificate(s) from appropriate authority showing experience of having successfully completed works during last seven years ending last day of the month previous to the one in which applications are invited. The work complete upto previous day of last day of submission of tender shall also consider.

(i) Three similar works each of value not less than (40%) or two similar works each of value not less than (60%) or one similar work of value not less than (80%)

Similar work shall mean works of "(Providing and Fixing of Floor Tiles etc. in Admission Room, Administrative Block at Punjab Engineering College, Sector 12, Chandigarh.)"

(ii) The bidder should have average financial turnover 50% of estimated cost of the above work during the last three financial years ending 31st March 2020.

University Engineer Punjab Engineering College Sector-12, Chandigarh

Phone No. 0172-2753059

Endst. No: Dated: A Copy forwarded to the following for information and n/action.

- 1. Dean Infrastructure, Planning & Estate
 - 2. Registrar
 - 3. AC (F&A)
 - 4. Webmaster (For uploading the tender notice on institute and e-tendering website)
 - Notice Board.

University Engineer Punjab Engineering College Sector-12, Chandigarh

Conditions:-

The Earnest Money Shall be deposited through Demand Draft/ FDR in favour of Director, Punjab Engineering College, Chandigarh and to be submitted in the office of University Engineer on or before the due date and time. The receipt for the same should be uploaded alongwith the technical bid.

ELIGI	tending bidder has to upload the receipt of EMD submitted. BILITY CRITERIA for the Post Qualification of the intending contractors/firms shall be as follows a nned copies of the same shall have to be uploaded under folder B of E-Tender:-
a	AVERAGE ANNUAL FINANCIAL TURNOVER during the last 3 years ending 31 st March, 20 should be at least 50% of the estimated cost. (scanned copy of certificate from Chartered Accountant should be uploaded and there is no not to upload entire voluminous Balance sheets) Experience of having successfully completed similar works as per CPWD Manual Works during 17 years ending last day of the previous month in which the tender is invited should be either of following: - (The work completed upto previous day of last day of submission of tender shall
i)	considered) Three similar completed works each costing not less than the amount equal to 40% of the estima cost.
	OR OR
ii)	Two similar completed works each costing not less than the amount equal to 60% of the estimatest.
	OR
iii)	One similar completed work costing not less than the amount equal to 80% of the estimated cost
b	DEFINITION OF SIMILAR WORK :- SIMILAR WORK MEANS Providing and Fixing of Floor Tiles and other civil works
С	The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum calculated from the date of completion to last date of received application of tenders.
d	The intending bidder/contractor along with the bid should furnish an AFFIDAVIT duly attested Notary Public/ First class Magistrate ON STAMP PAPER in Folder "B" as per specimen give below:-
Е	AFFIDAVIT To become eligible for e-tendering, the tenderer shall have to furnish an affidavit as under:-
	a) That I/We hereby declare that I/we have not been black listed/ debarred/suspended by any Go Semi Govt./ Board/ Corporation/ Private firms as on last date of receipt of tender.
	b) That I/we undertake and confirm that eligible similar work (s) has/ have not been executhrough another contractor on back to back basis. Further it is undertaken that if such a violat comes to the notice of Punjab Engineering College, Chandigarh, then I/we shall be debar from tendering in Punjab Engineering College, Chandigarh in future forever. Also, if such violation comes to the notice of institute, the Engineer-in-charge shall be free to forfeit the enamount of Earnest Money/Performance Guarantee deposited by me/us.
	c) That the deponent further undertake that he/she/ director(s)/partner(s) of the propriet firm/company/agency have never been convicted of any criminal offence.
	d) That I/we also undertake that the particulars given by me are true and correct to the best of knowledge and belief and nothing has been concealed thereof. I am aware that in case of a discrepancy/ false statement found, it will lead to rejection of my bid/tender and the institute of debar/blacklist the proprietor/ firm/agency as per policy of blacklisting issued by Chandig Administration vide notification dated 27.02.2009.
	Dated: Signature of the firm/a gency
	NOTE: Affidavit should be of latest date. The Affidavit of date prior to three months from the date publishing the tender shall not be considered for qualification of Technical Bid

Information and Instructions for bidders posted on website shall form part of bid document i.e. the Corrigendum/Addendum issued if any, before the receipt of online bid will be uploaded /made available on the website. It will be the responsibility of the Contractors/ prospective bidders to make amendments in their bid accordingly. Those contractors not registered on the website mentioned above, are required to get registered. If needed they can be imparted training on online tendering process as per details available on the website. The intending bidder must have valid digital signature to submit the bid. The Earnest Money Shall be deposited through Demand Draft/ FDR in favour of Director, Punjab Engineering College, Chandigarh and to be submitted in the office of University Engineer on or before the due date and time. The receipt for the same should be uploaded alongwith the technical bid The copy of the other documents as specified above in the Notice shall be scanned and uploaded to the etendering website within the period of Bid submission. The Bidders shall have to submit their Bids online in Electronic Format with Digital Signatures. participation in the e-tendering process the Bidders need to register themselves on http://etenders.chd.nic.in. Bid document can be downloaded from the website of Punjab Engineering College (www.pec.ac.in) or http://etenders.chd.nic.in. 8. The contractor/agency will ensure that no children are engaged at the site of work. The contractor will ensure the enrollment of children of labourers working at their site of works in nearby school as per instructions of CEUT Chandigarh UO No.W1/2014/4045-46 dt.11.03.2014. The purchase tax, turnover or any other tax applicable in respect of this contract shall be payable by the contractor and Government will not entertain any claim whatsoever / in respect of the same. 11 Instructions to Bidders regarding e-tendering process:-Tenders without digital signatures will not be accepted by the Electronic Tendering System. No tender will be accepted in physical form and in case it has been submitted in the physical form it shall be rejected summarily. Before submission of on-line Bids, Bidders must ensure that scanned copies of all the necessary ii documents have been uploaded with the Bid. It will be mandatory for all the Bidders to upload all the documents. iii The Deptt. will not be responsible for any delay in on-line submission of the Bids due to any reason whatsoever. The details of EMD specified in the Tender documents should be the same as submitted on-line (scanned copies) otherwise tender will be rejected summarily. Corrigendum issued if any before the receipt of online bid will be available on the website. It will be the responsibility of the contractor to make amendments in his bid accordingly. THE LIST OF DOCUMENTS TO BE SCANNED AND UPLOADED WITHIN THE PERIOD OF BID 12. SUBMISSION IS AS UNDER:-The bid documents of only those bidders shall be opened whose EMD is received in the office of University Engineer on or before the due date and other documents scanned and uploaded are found in Performance Certificate as per CPWD Manual. Certificate of Financial Turnover for last three financial years from Chartered Accountant. Affidavit as per format attached. Before submission of online Bids, Bidders must ensure that scanned copies of all the necessary documents have been uploaded with the Bid. The technical bids will be examined based only on the uploaded documents. NO CORRESPONDENCE OR PHYSICAL SUBMISSION OF ANY ADDITIONAL DOCUMENT THEREAFTER WILL BE ENTERTAINED BY THE DEPARTMENT. However in case any scanned and uploaded documents is not clearly readable due to dim contents, then the Department may ask the bidder to submit the clear copy of the same but no additional document other than uploaded shall be accepted. The Agency has to produce the original documents as and when asked for by Engineer in Charge. The failure of the Agency to furnish the said original documents will entail summarily rejection of its tender. No Tender will be accepted in physical form and in case it has been submitted in the physical form it shall be rejected summarily. THE CONDITIONAL TENDERS SHALL BE REJECTED STRAIGHT AWAY. 17 Engineer in charge reserves the right to verify the particulars furnished by the applicant/ firm/ contractor independently. If any information furnished by the applicant is found incorrect at a later stage, the firm/ contractor shall liable to be debarred for future tendering in Punjab Engineering College . 19. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractor(s) who resort to canvassing will be liable for rejection.

- 20. The tender for the works shall remain open for acceptance for a period of 75 (days) from the opening of technical bid. If any tenderer withdraws his tender or makes any modifications in the terms & conditions of the tender which is not acceptable to the department within 7 days after opening of tender (excluding date of opening of tender) then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely.
 - After 7 days of opening of tender the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the earnest money absolutely.

The bidders shall not be allowed to participate in the rebidding process of the work.

21. The recovery of water charges shall be made as per Notification issued by the Secretary Local Govt. Chandigarh Administration vide notification No. 6/1/195-FII(8)2011/4088, dated 24.05.2011 and amended from time to time.

For and on behalf of Director, Punjab Engineering College

University Engineer, Punjab Engineering College Sector-12, Chandigarh.

INDEX

DNIT

Name of Work: - Providing and Fixing of Floor Tiles etc. in Admission Room, Administrative Block at Punjab Engineering College, Sector 12, Chandigarh

Sr. No.	Description	Sheet
1.	Section-I Checklist for contractors, CPWD-6	1 to 11
2.	Section-II-CPWD Form 7, Schedule 'A' to 'F'	12 to 21
3.	Section-III-Special Conditions	22 to 29
4.	Section-IV-Annexure	30 to 32
5.	Section-V-Schedule of Quantities	33 to 36

CHECK LIST FOR CONTRACTORS FOR SUBMISSION OF TENDERS

- 1. TENDER TO BE WITNESSED AT SHEET NO II- 2 OF TENDER DOCUMENTS
- 2. THE TENDER / TENDERS CONTAINING CONDITIONS CONTRARY TO THOSE SPECIFIED IN THIS DOCUMENT SHALL BE SUMMARILY REJECTED.
- 3. IN SCHEDULE OF QUANTITIES APPENDED TO THE TENDER DOCUMENTS, AT SECTION VI & VII WORKS, THE RATES MUST BE FILLED BOTH IN WORDS AND FIGURES. THE AMOUNT SHOULD BE WORKED OUT FOR INDIVIDUAL ITEMS AND TOTALLING DONE.
- 4. THE CONTRACTOR(S) SHALL QUOTE THE RATES KEEPING IN MIND, GENERAL CONDITIONS OF CONTRACT OF CPWD WORKS-2019 AS CORRECTED & AMENDED UPTO DATE, SPECIAL CONDITIONS AND PARTICULAR SPECIFICATIONS ETC.
- 5. CRITERIA FOR ENGAGEMENT OF SPECIALIZED AGENCIES HAVE BEEN LAID AT SHEET **III (ii)**, WHICH MAY BE NOTED.
- 6. THE CONTRACTOR/ AGENCY SHALL QUOTE THE RATE KEEPING IN VIEW THAT THEY HAVE TO GIVE AN UNDERTAKING BEFORE AWARD OF WORK THAT "THEY WILL INSTALL/ ARRANGE FIELD TESTING INSTRUMENTS, ESSENTIAL T&P AS PER SHEET NO. V".
- 7. THE CONTRACTOR(S) SHALL QUOTE THE RATE OF TMT REINFORCEMENT BARS Fe 500D KEEPING IN MIND RATES OF PRIMARY PRODUCERS ONLY AND CLAUSE 10CA WILL BE APPLICABLE ACCORDINGLY.
- 8. IT WILL BE MANDATORY TO CONSITUTE DISPUTE RESRESSAL COMMITTEE (DRC) & CONTACTOR OR EPARTMENT CAN ONLY SEEK ARBITRATION IF NOT SATISFIED WITH THE DECISION OF DRC. DRC SHALL BE HEADED BY CHIEF ENGINEER WHEN TOTAL CLAIMS ARE LESS THAN 25.00 LACS. THIS SHOULD BE READ ALONGWITH PROVISION OF CLAUSE 25 OF GCC 2014 DULY AMENDED & MODIGIED UPTO DATE.
- 9. STE TEST REGISTERS & MAS REGISTERS TO BE MAINTAINED BY CONTRACTOR:-
- 10.FOR ALL THE NEW CONTRACTS TO BE DRAWN IN FUTURE ABOVE THE TENDERING LIMIT OF CLASS-V CONTRACTORS, ALL TEST REGISTERS AND MATERIAL AT SITE REGISTERS SHALL BE MAINTAINED BY THE CONTRACTOR WHICH WILL BE REVIEWED BY THE OFFICERS OF CPWD AT REGULAR INTERVALS.
- 11.THE CONTRACTOR SHALL REGER SHEET NO. III FOR TESTING OF MATERIALS/ MAINTAINING OF TEST REGISTERS DURING EXECUTION OF THE WORK.

SECTION-I

Check list, CPWD-6
Project Summary

Punjab Engineering College Deemed to be University Sector-12, Chandigarh

NOTICE INVITING TENDER

The University Engineer, Punjab Engineering College, Chandigarh invites on behalf of the Director, Punjab Engineering College E-Tenders on percentage basis from listed eligible contractors of appropriate class and category enlisted with Chandigarh Administration, Municipal Corporation, Chandigarh, CPWD, State PWDs of Punjab, Haryana and Himachal and their Boards and Corporations of states shall be uploaded and received on http:// etenders.chd.nic.in upto 14.00 hours on 29.01.2021 which shall be opened at 15.00 Hrs. on 29.01.2021 for the work.

Name of Work: - Providing and Fixing of Floor Tiles etc. in Admission Room, Administrative Block at Punjab Engineering College, Sector 12, Chandigarh

The work is estimated to cost Rs. 1,23,206/- This estimate, however, is given merely as a rough 1.1 guide.

1.2 Eligibility Criteria:-

The agencies can submit application alongwith certificate(s) from appropriate authority showing experience of having successfully completed works during last seven years ending last day of the month previous to the one in which applications are invited. The work complete upto previous day of last day of submission of tender shall also consider.

(i) Three similar works each of value not less than (40%) or two similar works each of value not less than (60%) or one similar work of value not less than (80%)

Similar work shall mean works of "(Providing and Fixing of Floor Tiles and other civil works)"

(ii) The bidder should have average financial turnover 50% of estimated cost of the above work during the last three financial years ending 31st March 2020.

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum; calculated from the date of completion to last date of receipt of applications for tenders.

To become eligible for e-tendering, the tenderer shall have to furnish an affidavit as under:-1.3

That I/We hereby declare that I/we have not been black listed/ debarred/suspended by any Govt./ Semi Govt./ Board/ Corporation/ Private firms as on last date of receipt of tender. That I/we undertake and confirm that eligible similar work (s) has/ have not been executed through another contractor on back to back basis. Further it is undertaken that if such a violation comes to the notice of Punjab Engineering College, Chandigarh, then I/we shall be debarred from tendering in Punjab Engineering College, Chandigarh in future forever. Also, if such a violation comes to the notice of institute, the Engineer-in-charge shall be free to forfeit the entire amount of Earnest Money/Performance Guarantee deposited by me/us.

- Agreement shall be drawn with the successful tenderer on prescribed CPWD Form No.7 as per 2. "General conditions of the contract of CPWD works-2019" (which is available as a Govt. of India Publication) and the Amendment/changes in clauses of the General Conditions of the contract for CPWD works-2019. Tenderer shall quote his rates as per various terms and conditions of the said form, which will form part of the agreement.
- The time allowed for carrying out the work will be 01 Month from the date of start as defined in 3. Schedule 'F' or from the first day of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the tender documents.
- The site for the work is available.
- (a) Last date of receipt of Application shall be 5. 29.01.2021.
 - (b) Last Date of sale of Tender Documents shall be
 - (c) Tender Cost.

Free of cost

- (d) Tender documents consisting of plans, specifications, the schedule of quantities of the various classes of work to be done and the set of terms and conditions of contract to the completed with be the contractor whose tender may be accepted and other necessary documents can be seen in the office of the University Engineer, Punjab Engineering College, Chandigarh between hours of 11.00 A.M. & 04.00 PM every day except on Saturday, Sunday and Public Holidays.
- 6. (a) The Earnest Money Shall be deposited through Demand Draft/ FDR in favour of Director, Punjab Engineering College, Chandigarh and to be submitted in the office of University Engineer on or before the due date and time. The receipt for the same should be uploaded alongwith the technical bid
 - (b). Copy of Enlistment Order and certificate of work experience and other documents as specified in the press notice shall be scanned and uploaded to the e-Tendering website within the

period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in press notice shall have to be submitted by the lowest bidder only.

The bid submitted shall be opened at 3.00 PM, 29.01.2021

- 7. The bid submitted shall become invalid if;
 - (i) The bidder is found ineligible.
 - (ii) The bidder does not upload all the documents including GST registration as stipulated in the bid document and **photocopy of EMD depositing slip.**
 - (iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted **physically by the lowest tenderer** in the office of tender opening authority.
- 8. List of Documents to be scanned and uploaded within the period of bid submission:
 - 1. The intending bidder has to upload photocopy of EMD depositing slip.
 - II. Certificate of Work Experience. i.e. Completion Certificate.
 - III. Certificate of Financial Turnover for last 3 years from CA.
 - IV. Any other Document as specified in the press notice.
 - V. Affidavit as per provisions of clause 1.2.3 of CPWD-6.
 - VI. Certificate of Registration for GST and acknowledgement of up to date filed return if required.
- 9. The contractor whose tender is accepted will be required to deposit furnish performance guarantee of an amount equal to 5.00% (Five point Zero Percent) of the tendered amount with in the period specified in schedule F. This guarantee shall be in the form of Demand Draft/ Deposit at call receipt/ Bankers Cheque/ Pay Order/ FDR of any scheduled bank in accordance with the prescribed form.
- 10. The description of the work is as follows: -

Name of work: - Providing and Fixing of Floor Tiles etc. in Admission Room, Administrative Block at Punjab Engineering College, Sector 12, Chandigarh

Copies of other drawings and documents pertaining to the work will be open for inspection by the tenderers at the office of the **University Engineer**, **Punjab Engineering College**, **Chandigarh**.

Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The tenderer shall be responsible for arranging and maintaining at his/her own cost all materials, tools and plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a tender by a tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local condition and other factors having a bearing on the execution of the work.

- 11. The competent authority on behalf of Director, PEC does not bind himself to accept the lowest or any other tender, and reserves to himself the authority to reject any or all of the tenders received without the assignment of any reason. All tenders, in which any of the prescribed conditions are not fulfilled or any condition including that of conditional rebate is put forth by the tenderer, shall be summarily rejected.
- 12. Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.
- 13. The competent authority on behalf of Director, PEC reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.

14. The tender for the works shall remain open for acceptance for a period of Seventy Five (75) DAYS /from the opening of technical bid (strike out as the case may be). If any tenderer withdraws his tender before the said period or issue of letter of acceptance, whichever is earlier or makes any modifications in the terms and conditions of the tender which are not acceptable to the department, then the institute shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said Earnest Money as aforesaid and to forfeit the whole of the Earnest Money if the tenderer fails to submit the Performance Guarantee in the prescribed time after issue of letter of acceptance. Further, the tenderer shall not be allowed to participate in the re-tendering process of the work.

In the event the tenderer whose tender is accepted and the award letter issued after the receipt of Performance Guarantee MOU signed with electrical associates in the prescribed form and time, fails to commence the work "along with change in scope, if any" in the prescribed time or abandons work before its completion, the institute shall without prejudice to any other right or remedy be at liberty to forfeit the whole of the Earnest Money and Performance Guarantee shall stand forfeited in full and shall be absolutely at the disposal of the Director, PEC.

- 15. This Notice Inviting Tender shall form a part of the contract document. The successful tenderer/contractor, on acceptance of his tender by the accepting authority, shall, within 15 days from the stipulated date of start of the work sign the different component part of the contract
- 16. The notice inviting tender, all the documents including additional conditions, specifications and drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.
- 17. Standard C.P.W.D. Form 7 as per "General conditions of contract for CPWD works-2019 and all the conditions of the contract will be as per the General Conditions of contract for CPWD works 2019.

For and on behalf of Director, Punjab Engineering College

University Engineer, Punjab Engineering College Sector-12, Chandigarh.

SECTION-II

CPWD Form 7, Schedule 'A' to 'F'

FORM NO. 7

Punjab Engineering College, Chandigarh

PERCENTAGE RATE TENDER & CONTRACT FOR WORKS

Name of Work: Providing and Fixing of Floor Tiles etc. in Admission Room, Administrative Block at Punjab Engineering College, Sector 12, Chandigarh

Tender for the above work to be submitted by **2.00 p.m**. on 29.01.2021 to University Engineer, Punjab Engineering College, **Chandigarh** to be opened in presence of tenderers who may be present at **3.00p.m**. on **29.01.2021** in the office of University Engineer, PEC.

i)	Issued to: -
Signatı	ure of officer issuing the documents
ii)	Designation: - University Engineer, PEC
iii)	Date of issue:

TENDER

I/We have read and examined the Notice Inviting Tender, Schedule A, B, C, D, E & F, Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, Clauses of Contract, Special Conditions, Schedule of Rate and other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the Director, PEC within the time specified in Schedule 'F', viz. Schedule of Quantities and in accordance in all respects with the Specifications, Designs, Drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of Contract and with such materials as are provided for, by and in respects in accordance with, such conditions so far as applicable.

We agree to keep the tender open for (75) Seventy Five days from date of opening of technical bid and not to make any modifications in its terms and conditions.

A sum of Rs. 2470/- is hereby deposited as EMD in the form of demand draft in the office of University Engineer, PEC Chandigarh. If I/we fail to furnish the prescribed Performance Guarantee within prescribed period, I/we agree that the said Director, PEC or his successor in office shall without prejudice to any other right or remedy be at liberty to forfeit the said Earnest Money absolutely. Further, if I/we fail to commence the work as specified. I/we agree that Director, PEC or his successors in office shall, without prejudice to any other right or remedy available in law, be at to forfeit the said earnest money and the Performance Guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be ordered, up to maximum of the percentage mentioned in Schedule 'F' and those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2, 12.3 and 12.5 of the tender form. Further, I/We agree that in case of forfeiture of earnest money or both Earnest Money & Performance guarantee as aforesaid, I/We shall be debarred for participation in the retendering process of the work.

Further, I/We agree that in case of forfeiture of earnest money or both Earnest Money & Performance guarantee as aforesaid, I/We shall be debarred for participation in the retendering process of the work.

I/We hereby declare that I/we shall treat the tender documents, drawings and other records connected with the work as Secret / Confidential documents and shall not communicate information / derived there from to any person other than a person to whom I/we am/are may authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Dated	Signature of Contractor	
Witness:	Postal Address:	1
Occupation:		>
	Telephone No.	
	Fax:-	
	E-Mail:-	

ACCEPTANCE

The above tender (as modified by you as provided in by me for and on behalf of the Director, (Rupees	PEC for a sum of Rs
The letters referred to below shall form part of this contract agreement.	For & on behalf of the Director, PEC.
i) ii) iii) iv)	Signature
Dated:	
	University Engineer.

University Engineer, Punjab Engineering College Chandigarh

SCHEDULES

SCHEDULE 'A'

Schedule of quantities In case of composite tender

As per Section - VII

Description of item		Quantity		
	Civil Work	P.H. Work	Electrical work	Total
a) DSR Items		NA		
b) N.S. Items				

SCHEDULE 'B'

Schedule of materials to be issued to the contractor.

S.No.	Description of item. Quan	at which the material will	Excluding 3% store charges	Place of issue
1.	Cement	Rs. 6400/-		
2.	Tor Steel (All Size	Rs. 38500/-		
(1)	(2)	(3) (4)	(5)	

SCHEDULE 'C'

Tools and plants to be hired to the contractor

S.NO.	DESCRIPTION.	HIRE CHARGES PER DAY	PLACE OF ISSUE

SCHEDULE 'D'

Extra schedule for specific requirements/ documents for the work, if any.

 Amendments/ Changes in Clauses of the General Conditions of Contract to CRWD Works 2019

to CPWD Works - 2019 - Section – III

2. Special Conditions - Section – IV

3. Particular Specifications. - Section – V

4. Annexure - Section – VI

SCHEDULE 'E'

Schedule of component of other materials, Labour, POL etc. for price escalation:-

CLAUSE 10 CC:

Component of civil (Except materials covered under clause 10CA)/

Electrical construction materials expressed as percent of total value of work.

Nil %

Component of labour expressed as percent of total value of work.

Y' Nil %

Component of P.O.L. expressed as percent of total value of work.

'Z' Nil %

SCHEDULE 'F':-

Poforonco to	General Conditions	of Contract	
Reference to	General Conditions	s of Contract.	

Name of Work: Providing and Fixing of Floor Tiles etc. in Admission Room, Administrative Block at Punjab Engineering College, Sector 12, Chandigarh.

1.2 Estimated Cost of work: -Rs. 1,23,206/-

1.3 Earnest Money: -Rs. 2470/-

1.4 Performance Guarantee 5.00% of tendered value

Security Deposit 5% of Work Done 1.5

1.6 Time Allowed 01 Month

1.7 The following expressions shall unless the context otherwise require have the meanings hereby specifically assigned to them.

University Engineer, PEC 1.7.1 Or Successor thereof

1.7.2 Dean Infrastructure, Planning & Estate

Or Successor thereof

1.7.3 Director, PEC

Or Successor thereof

1.8 Delhi Schedule of Rates (DSR) DSR-2018 with correction/amendments

1.8.1 CPWD Specifications CPWD Specifications 2014.

General Rules & Directions:-

Officer Inviting Tender: -University Engineer

Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2, 12.3 & 12.5

As per clause 12 (Detail given below)

Definitions:-

2(v)	Engineer-In-Charge	University Engineer
2(viii)	Accepting Authority	Director
2(x)	Percentage on cost of materials and labour to cover all overheads and profits	15%
2(xi)	Standard Schedule of Rates	Delhi Schedule of Rates 2018
8.1	The order of preference: -	In the case of discrepancy between the Schedule of Quantities, the Specifications and/ or the Drawings, the following order of preference shall be observed: (i) Nomenclature of item as per Schedule of Quantities

- Special Conditions. (ii)
- Particular Specifications. (iii)
- (iv) CPWD Specifications.
- (v) Architectural Drawings.

(vi) Indian Standard Specifications of B.I.S.

9(ii) Standard CPWD Contract Form

CPWD Form 7 with latest amendments as per Section-III.

Clause-1:-

Time allowed for submission of performance guarantee after date of issue of letter of acceptance

15 days

Maximum allowable extension with late fee @0.1% per day of Performance Guarantee amount beyond the period. Provided in (i).

1 to 15 days

Clause-2:- I. Authority for fixing compensation

under clause-2.

University Engineer

II. Whether clause-2A shall be

applicable.

NA

Clause-5:-Time allowed for execution of

work.

Refer Para 1.6 Sheet No.II-4

Authority to give fair and

Appropriate clause of CPWD Work Manual 2018.

reasonable extension of time

for completion of work. Mile Stone

Refer Para (A) Table of Milestones

Clause-6, 6A:-

Clause applicable- (6 or 6A):-

Clause 6 applicable

Clause-7:- Gross work to be done together with net payment / adjustment of

advances for material collected, if any, since the last such payment for being eligible to interim payment Refer Para (B) Table of Milestones

Clause-10A:-

List of testing equipment to be provided by the contractor at site lab.

Clause-10-B (i).

Whether clause 10-B (i) shall be

Applicable

Yes

Clause-10-B (ii).

Whether clause 10-B (ii) shall be

applicable

NA

Clause-10C:-

Component of labour expressed as percent of

NA

total value of work.

Clause :- 10CA

Materials covered under this clause	than cement ,	10CA	covered under
	reinforcement bars and structural steel) for which all India whole sale price index to be followed	Base Price	Correspondence Period
1.Cement i)OPC II)PPC	N/A	Rs. 7000/- Rs. 6400/-	July 2020 Rates taken are ex-stockyard prices

2. Reinforcement bars (TMT-500D)		excluding GST.
(a) Primary manufacturers	Rs. 40931/-	
3. Structural steel	Rs. 38500/-	

Clause-10-CC:- Clause 10CC to be applicable in

contracts with stipulated period of completion exceeding the period.

C.P.W.D. Specifications

Clause-11:- Specifications to be followed for

execution of work

Clause-12:- Type of Work Original

Clause-12(a) Accord sanction of substituted items.

Appropriate clause of CPWD Works

Manual 2014.

-do-

__ Nil.

Clause 12(b) Accord sanction of extra items.

12.2 & 12.3 Deviation limit beyond which

clause 12.2 & 12.3 shall apply

be for building work super structure.

Any quantity increased/decreased shall carried out by the contractual agency

at contractual rate.

12.5 Deviation limit beyond which

clause 12.2 & 12.3 shall apply for foundation works

Any quantity increased/decreased shall be carried out by the contractual

agency at contractual rate

Clause-16:- Competent Authority for

deciding reduced rates.

As per appropriate clause of CPWD Works Manual 2018 with latest

modification upto Date

Clause 18 :-

List of mandatory machinery tools & Plants to be deployed by the

Contractor at site.

Type of Work

N.A

Original Works

Clause-36

S.no	Minimum qualification of technical representative	Disci- pline	Designation(Prin cipal Technical/Technical Representative	Minimum Experience	Number	be made fror	h recovery shall n contractor in non deployment
						Figures	Words
1.							
2.							

Clause-42:-

(e) a) Schedule/Statement for determining

Delhi Schedule of Rates 2018

theoretical quantity of cement & bitumen (f) Variations permissible on theoretical quantities.

a) i) Cement for works with estimated cost Put to tender for more than Rs.5 Lacs.

2% plus/minus.

ii) -do- Less than 5 lacs

3% plus/minus

b) Steel Reinforcement and structure steel Steel sections for each diameter, section And category

2% plus/minus

c) All other materials

Nil

d) Bitumen for all works

+ 0.3% Plus minus only

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

S.No.	Description of items	Rates in figures and words at which recovery shall be made from the contractor					
		Excess beyond permissible	Less use from the permissible variation				
1.	Cement	As per CPWD Manual					
2.	Steel	-do-	XXXXXX				

XXX to be filled in by Executive Engineer

Correction-Nil Deletion-Nil Insertion-Nil Overwriting-Nil Sheet No.II-6

TABLE OF MILE STONE (S)

Name of Work:- Providing and Fixing of Floor Tiles etc. in Admission Room, Administrative Block at Punjab Engineering College, Sector 12, Chandigarh

Para (A) In Physical / Financial Terms: -

	Milestone Programme							
Sl. No.	Gross Work Done Of Total Work Allotted	Time Allotted (From date of start)	Amount to be withheld in case of non-achievement of milestone					
1.	20 %	05 days	1.25% of Tendered Amount					
2.	50 %	15 days	1.25% of Tendered Amount					
3.	80 %	25 days	1.25% of Tendered Amount					
4.	Completion of work i/c testing etc. complete	30 days	1.25% of Tendered Amount					

Para (B): -

Gross work to be done together with net payment/ adjustment of advances for material collected if any, since the last such payment for being eligible to interim payment.

SECTION -III

Special Conditions

SPECIAL CONDITIONS

1.0 General

- 1.1 Except for the items, for which Particular Specifications are given or where it is specifically mentioned otherwise in the description of the items in the schedule of quantities, the work shall generally be carried out in accordance with the "CPWD Specifications" (Refer Para 1.7.5 of Schedule F at **Sheet No. II 4** and as per instructions of Engineer-in-Charge. Wherever CPWD Specifications are silent, the latest IS Codes / Specifications shall be followed and the rates should be all inclusive.
- 1.2 Any reference made to any Indian Standard Specifications, shall imply to the latest version of that standard, including such revisions / amendments as issued by the Bureau of Indian Standards upto last date of receipt of tenders. The Contractor shall keep at his own cost all such publications including relevant Indian Standard applicable to the work at site.
- 1.3 The work shall be executed and measured as per metric dimensions given in the Schedule of Quantities, drawings etc. (FPS units wherever indicated are for guidelines only).
- 1.4 The work should be planned in a systematic manner so that chase cuttings in the walls, ceilings and floors is minimized. Wherever absolutely essential, the chase shall be cut using chase cutting machines. Chases will not be allowed to be cut using hammer / chisel. The electrical boxes should be fixed in walls simultaneously while raising the brick work. The contractor shall ensure proper co-ordination of various disciplines viz. sanitary & water supply, horticulture & electrical etc.
- 1.5 All the hidden items such as water supply lines, drainage pipes, conduits, sewers etc. are to be properly tested before covering.
- 1.6 Samples including brand / quality of materials and fittings to be used in the work shall be got approved from the Engineer-in-Charge, well in advance of actual execution and shall be preserved till the completion of the work.
- 1.7 Equipment like concrete pump excavators/Transit mixer etc. shall be allowed to be moved away from the site when, in written opinion of Engineer-in-Charge, the same are no longer required at site of work.
- 1.8 The contractor, his agents / representative, workman etc. shall strictly observe orders pertaining to fire precautions prevailing in the area.
- 1.9 Contractor(s) shall study the soil investigation report for the site, available in the office of the Engineer-in-Charge and satisfy himself about complete characteristics of soil and other parameters at site. However, no claim on the alleged inadequacy or incorrectness of the soil data supplied by the department shall be entertained.
- 1.10 The tenderer shall see the approaches to the site. In case any approach from main road is required at site or existing approach is to be improved and maintained for cartage of materials by the contractor, the same shall be provided, improved and maintained by the contractor at his own cost.
- 1.11 Contractor shall take all precautionary measures to avoid any damage to adjoining property. All necessary arrangement shall be made at his own cost.
- 1.12 The contractor shall take all precautions to avoid accidents by exhibiting necessary caution boards day and night, speed limit boards, red flags, red lights and providing barriers. He shall be responsible for all damages and accidents caused to work due to negligence on his part. No hindrances shall be caused to traffic, during the execution of the work.
- 1.13 The contractor shall take instructions from the Engineer-in-Charge regarding collection and stacking of materials at any place. No excavated earth or building rubbish shall be stacked on areas where other buildings, roads, compound wall, services etc are to be constructed.
- 1.14 The contractor shall provide at his own cost suitable weighing, surveying and leveling and measuring arrangements as may be necessary at site for checking. All such equipments shall be got calibrated in advance from laboratory, approved by the Engineer-in-Charge. Nothing extra shall be payable on this account.
- 1.15 Contractor shall provide permanent bench marks, flag tops and other reference points for the proper execution of work and these shall be preserved till the end of work. All such reference points shall be in relation to the levels and locations, given in the Architectural and plumbing drawings.
- 1.16 Water tanks, taps, sanitary, water supply and drainage pipes, fittings and accessories should conform to byelaws and municipal body / corporation where CPWD Specifications are not applicable. The contractor should get the materials (fixtures/fittings) tested by the Municipal Body / Corporation authorities wherever required at his own cost.
- 1.17 The work shall be carried out in accordance with the Architectural drawings and Structural drawings, to be issued from time to time, by the Engineer-in-Charge. Before commencement of any item of work, the contractor shall correlate all the relevant architectural and structural drawings issued for the work,

nomenclature of items, specifications etc. and satisfy himself that the information available there from is complete and unambiguous. The figures & the written dimensions of the drawing shall supersede the measurement by scale. The discrepancy, if any, shall be brought to the notice of the Engineer-in-Charge for immediate decision before execution of the work. The contractor alone shall be responsible for any loss or damage occurring by the commencement of work on the basis of any erroneous and/ or incomplete information and no claim, whatsoever shall be entertained on this account.

- 1.18 The Architectural drawings other than those indicated in nomenclature of items are only indicative of the nature of the work and materials/fittings involved unless and otherwise specifically mentioned.
- 1.19 The contractor should submit the shop drawing of staging and shuttering for approval of Engineer-in-Charge before actually commencing the execution of work under the item. Nothing extra shall be payable on this account.
- 1.20 Other agencies may also simultaneously execute and install the works and the contractor shall afford necessary facilities for the same. The contractor shall leave such recesses, holes, openings, trenches etc. as may be required for such related works (for which inserts, sleeves, brackets, conduits, base plates, clamps etc. shall be available as specified elsewhere in the contract) and the contractor shall fix the same at the time of casting of concrete, stone work and brick work, if required, and nothing extra shall be payable on this account
- 1.21 The contractor shall conduct his work, so as not to interfere with or hinder the progress or completion of the work being performed by other contractor(s) or by the Engineer-in-Charge and shall as far as possible arrange his work and shall place and dispose off the materials being used or removed so as not to interfere with the operations of other contractor or he shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of others.
- 1.22 All material shall only be brought at site as per program finalized with the Engineer-in-Charge. Any pre-delivery of the material not required for immediate consumption shall not be accepted and thus not paid for.
- 1.23 The contractor shall procure the required materials in advance so that there is sufficient time for testing of the materials and approval of the same before use in the work.
- 1.24 Existing drains, pipes, cables, over-head wires, sewer lines, water lines and similar services encountered in the course of the execution of work shall be protected against the damage by the contractor at his own expense. The contractor shall not store materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services. In case temporary supporting/shifting of such services is required to facilitate the work, the same shall be done by the contractor at no extra cost.

In case the existing services are to be shifted permanently, then before dismantling the existing services, alternate/diversion of service lines has to be laid by the contractor so that there is no interruption in use of existing services. The contractor has to plan the alternate suitable route for diversion/shifting of service lines and get the same approved from the Engineer-in-Charge before starting shifting of services. Nothing extra shall be paid except the payment of dismantling and laying of new service lines as per conditions of contract.

- 1.25 The contractor shall be responsible for the watch and ward / guard of the buildings, safety of all fittings and fixtures including sanitary and water supply fittings and fixtures provided by him against pilferage and breakage during the period of installations and thereafter till the building is physically handed over to the department. No extra payment shall be made on this account.
- 1.26 The contractor shall be fully responsible for the safe custody of materials brought by him/ issued to him even though the materials may be under double lock key system.
- 1.27 For construction works which are likely to generate malba / rubbish to the tune of more than a tempo / truck load, contractor shall dispose of malba, rubbish & other unserviceable materials and wastes at his own cost to the notified specified dumping ground and under no circumstances these shall be stacked / dumped even temporarily, outside the construction premises.
- 1.28 The excavated surplus earth shall be disposed off by the contractor as per directions of Engineer-in-Charge.
- 1.29 All disputes concerning with this work/tender are subject to the Chandigarh jurisdiction.
- 2.0 Unless otherwise specified in the schedule of quantities, the rates for respective items shall be all inclusive and apply to the following: -
 - (i) All lifts & all heights, floors including terrace, leads and depths.
 - (ii) All labour, material, tools and plants and other inputs involved in the execution of the item.
 - (iii) Any of the conditions and specifications mentioned in the tender documents.
 - (iv) Pumping / bailing out surface water / rain water / sub soil water, if necessary for any reason.
 - (v) Providing sunk flooring in bath-rooms, kitchen, etc.
 - (vi) Any legal or financial implications resulting out of disposal of earth, if any.

- (vii) Payment of Royalty at the prevailing rates, if any, on the boulders, metal, shingle, sand and bajri etc. or any other material collected by him for the work direct to revenue authorities.
- (viii) Performance test of the entire installation(s) before the work is finally accepted.
- (ix) Any cement slurry added over base surface (or) for continuation of concreting for better bond is deemed to have been built in the items .
- (x) All incidental charges for cartage, storage and safe custody of materials brought to site.

3.0. **TESTING OF MATERIAL: -**

- 3.1 Samples of materials required for testing shall be provided free of charge by the contractor. The cost of tests shall be borne by the contractor / department in the manner indicated below: -
- a) By the contractor, if the results show that the material does not conform to relevant specifications.
- b) By the department, if the results show that the material conforms to relevant specifications.
 - All other expenditure required to be incurred for taking samples; conveyance, packing etc. shall be borne by the contractor himself.
- However, if any ultrasonic pulse velocity / load testing or special testing is to be done for concrete whose strength is doubtful, the cost of the same shall be borne by the contractor.
- 3.3.1 In case there is any discrepancy in frequency of testing as given in list of mandatory tests and that in individual sub-heads of work as per CPWD Specifications higher of the two frequencies of testing shall be followed and nothing extra shall be payable on this account.

4.0 SECRECY

- 4.1 The contractor shall take all steps necessary that all persons employed on any work in connection with the contract have notice that the Indian Official Secrets Act 1923 applies to them & will continue so to apply even after the execution of such works under the contract.
- 4.2 The contract in confidential and must be strictly confirmed to the contractor's own use (except so far as confidential disclosure to sub-contractors or suppliers as necessary) and to the purpose of the contract.
- 4.3 All documents, copies thereof & extracts there from furnished to the contractor shall be returned to the Engineer-in-Charge on the completion of the work / works or the earlier determination of the contract.

5.0 LABOUR AND SECURITY

- 5.1 Contractor should provide his plan for labour huts as per his requirement and get it approved from the Engineer-in-Charge. The contractor will be provided space for labour huts etc. inside the campus but the space requirement and location, as assessed by Engineer-in-Charge shall be final and binding.
- 5.2 Contractor has to follow the security requirement of the campus and obtain necessary entry passes for the labour and vehicles and follow security checks at entry / exit gates, restriction on movement of vehicle, restricted timings of working etc. The Department however shall assist the contractor in obtaining such passes for movement of vehicles and labour. No claim whatsoever shall be entertained on account of delay in entry of vehicles and labour including restrictions in working hours, if there is any.
- 5.3 The contractor shall employ only Indian Nationals after verifying their antecedents and loyalty. The contractor shall, on demand submit list of his agents, employees and work people concerned & shall satisfy as to the bonafides of such people.
- 5.4 The contractor & his work people shall observe all relevant rules regarding security promulgated in which work is to be carried out by the Controlling Administrative Authority of the campus/area (hereinafter referred to as "Administrator").
- 5.5 The contractor, his representative, workman shall be allowed to enter through specified gates & timing as laid down by the controlling authority. They shall be issued an identity card or an individual pass in accordance with the standing rules & regulations & they should possess the same while working. The contractor shall be responsible for the conduct & actions of his workman, agents / representatives.
- Normally contractor shall be allowed to carryout work between 7 AM to 6 PM. However, he may also be allowed to carryout the work beyond 6 PM & upto 7 AM if the site conditions / circumstances so demand with prior written permission from the "Administrator". However, if the work is carried out in more than one shift or at night, no claim on this account shall be entertained.
- 5.7 Normally contractor's material / vehicles etc shall be allowed to move in / go-out between 7 AM to 7 PM only & no movement of material / vehicles out of site of work shall be allowed during night hours unless specific permission is obtained from the "Administrator".

In case if a separate entry has been allowed, the contractor has to make all arrangement for making a separate entry gate and barricading of the working area to segregate/separate the same from other areas. All these have to be done by the contractor at his own cost including safeguarding any untoward incident in the restricted area due to separate entry gate and barricading arranged by the contractor. No extra amount on this account shall be payable by the department.

6.0 TRANSPORTATION AND OFFICE INFRASTRUCTURE:

- 6.1 In order to complete the work within the scheduled time if the contractor shall be required to do the work in more than one shift and accepted by the department the contractor will provide vehicular facilities to the CPWD site staff to reach the site and their residence at his own cost for their services required beyond the normal office hours. In case the contractor fails to provide the facilities Engineer-in-Charge shall be at liberty to make the arrangement themselves and deduct the respective cost from the contractor's bills.
- 6.2 For Quality Control Measures, Preparation of Bills and Monitoring the Quality, the contractor shall provide (min. one number) Computer having MS-Windows XP, A-3 Coloured Inkjet & A-4 Laserjet Printers, Scanners, UPS etc. with required number of data entry operator in the site office of Engineer-in-Charge.

7.0 **PROGRAM CHART:** -

- 7.1 The Contractor shall prepare an integrated program chart for the execution of work, showing clearly all activities from the start of work to completion, with details of manpower, equipment and machinery required for the fulfillment of the program within the stipulated period or earlier and submit the same for approval of the Engineer-in-Charge within **15 days** of the issue of letter of acceptance for the contract.
- 7.2 The work has to be completed in stages as indicated in the **Milestones under Schedule 'F'** and the program should be prepared in such a manner to achieve these Milestones as indicated therein or earlier.
- 7.3 The program chart should include the following:
 - a) Descriptive note explaining sequence of various activities.
- b) Network (PERT / CPM / BAR CHART) which will indicate resources in financial terms, manpower and specialized equipment for every important stage.
- c) Program for procurement of materials by the contractor.
- d) Program of procurement of machinery / equipments having adequate capacity, commensurate with the quantum of work to be done within the stipulated period, by the contractor.
- 7.4 If at any time, it appears to the Engineer-in-Charge that the actual progress of work does not conform to the approved program referred above, the contractor shall produce a revised program showing the modifications to the approved program by additional inputs to ensure completion of the work within the stipulated time.
- 7.5 The submission of revised program or approval by the Engineer-in-Charge of such program or the furnishing of such particulars shall not relieve the contractor of any of his duties or responsibilities under the contract. This is without prejudice to the right of Engineer-in-Charge to take action against the contractor as per terms and conditions of the agreement.

Notwithstanding the fact that the contractor will have to pay to the labourers and other staff engaged directly or indirectly on the work according to the provisions of the labour regulations and the agreement entered upon and/or extra amounts for any other reason.

8.0 PROGRESS AND MONITORING OF WORK:

Contractor shall give the Engineer-in-Charge on the 10th day of each month, progress report of the work done during the previous month. Such progress report will include the project progress summary, work progress (planned v/s. actual), PERT chart, milestone status, financial progress status, manpower deployment status, important materials consumed, materials at site at the beginning of the month, materials consumed during the month and the balance quantities at the end of month and progress of the work stating the reasons for shortfall, if any including the steps and measures to be taken for making good the shortfall in the succeeding period. Non submission of aforesaid progress report shall make contractor liable for action under breach of contract conditions.

9.0 **SAMPLE OF MATERIALS:**-

9.1 All materials and fittings brought by the contractor to the site for use shall conform to the samples approved by the Engineer-in-Charge which shall be preserved till the completion of the work. If a particular brand of material is specified in the item of work in Schedule of Quantity, the same shall be used after getting the same approved from Engineer-in-Charge. Wherever brand / quality of material is not specified in the item of work, the contractor shall submit the samples as per **List of Preferred Makes as at Sheet No. VI-12 &13** for approval of Engineer-in-Charge. For all other items, ISI Marked materials and fittings shall be used with the approval of Engineer-in-Charge. Wherever ISI Marked material / fittings are not available, the contractor shall submit samples of materials / fittings manufactured by firms of repute conforming to relevant Specifications or IS codes for the approval of Engineer-in-Charge.

- 9.2 To avoid delay, contractor should submit samples as stated above well in advance so as to give timely orders for procurement. If any material, even though approved by Engineer-in-Charge is found defective or not conforming to specifications shall be replaced / removed by the contractor at his own risk & cost.
- 9.3. BIS marked materials except otherwise specified shall also be subjected to quality test besides testing of other materials as per the specifications described for the item/material. Wherever BIS marked materials are brought to the site of work, the contractor shall, furnish manufacturer's test certificate or test certificate from approved testing laboratory to establish that the material procured by the contractor for incorporation in the work satisfies the provisions of specifications relevant to the material and / or the work done.
 - BIS marked items (except cement & steel for which separate provisions have been made in para 10.0) required on the work shall be got tested, for only important tests, which govern the quality of the product, as decided by the Engineer-in-Charge. The frequency of such tests (except the mandatory test) shall be 5% of the frequency as specified in BIS. For mandatory test, frequency shall be as specified in the CPWD Specifications
- 9.4 For certain items, if frequency of tests is neither mentioned in the CPWD Specifications & BIS, then tests shall be carried out as per decision of Engineer-in-Charge.

10.0 CEMENT & STEEL REINFORCEMENT (IF NOT STIPULATED TO BE SUPPLIED BY THE DEPARTMENT).

10.1 Contractor has to produce manufacturers test certificate for each lot of Cement & Steel Reinforcement procured at site.

10.2 **CEMENT:-**

- 10.2.1 The contractor shall procure 43 Grade Ordinary Portland Cement and/or Portland Pozzolona Cement (Fly Ash based), required in the work from reputed manufacturers of cement as per the approved make in 50 kg. bags bearing manufacturer's name and ISI marking, along with manufacturers test certificate for each lot. Portland Pozzolona Cement is however not to be used for RCC works.
- 10.2.2 Samples of cement arranged by the contractor shall be taken by the Engineer-in-Charge and got tested in accordance with provisions of relevant BIS Codes. The cement for such testing purpose shall be supplied by the contractor free of charge. In case test results indicate that the cement arranged by the contractor does not conform to the relevant BIS Codes, the same shall stand rejected and shall be removed from the site by the contractor at his own cost within a week's time of written order from the Engineer-in-Charge to do so. The cost of tests shall be borne by the contractor/department in the manner indicated below:
 - i) By the contractor, if the results show that the cement does not conform to relevant BIS Codes.
 - ii) By the department, if the results show that the cement conforms to relevant BIS Codes.
- 10.2.3 OPC/ PPC shall be brought at site in bulk supply of approximately 30 tonnes or as decided by the Engineer-in-Charge.
- 10.2.4 OPC/ PPC bags shall be stored in separate godowns. Separate godowns for tested cement and fresh cement (under testing) to be constructed by the contractor at his own cost as per sketches given in C.P.W.D Specifications having weather-proof roofs and walls. The size of the cement godown is indicated in the sketches for guidance. The actual size of godown shall be as per site requirements and nothing extra shall be paid for the same. Each godown shall be provided with a single door with two locks. The keys of one lock shall remain with Engineer-in-Charge of the work and that of other lock with the authorized agent of the contractor at the site of work so that the cement is issued from godown according to the daily requirement with the knowledge of both parties. The account of daily receipt and issue of cement shall be maintained in a register in the prescribed proforma and signed daily by the contractor or his authorized agent and Engineer-in-Charge or his authorized representative in token of its correctness. The day to day receipt and issue accounts of different grade/brand of cement shall be maintained separately in the standard proforma by the contractor or his authorized representative which shall be duly signed by the authorized representative of the Engineer-in-Charge before issue to the work on day to day basis. The capacity of each cement go-down shall be 1000 bags of cement or more as decided by the Engineer-in-Charge and shall be constructed by the contractor at site of work and at the site of batching plant for which no extra payment shall be made. The contractor shall be responsible for the watch and ward and safety of the cement go-downs. The contractor shall facilitate the inspection of the cement go-downs by the Engineer-in-Charge at any time.
- 10.2.5 The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in Clause-42 of the contract and shall be governed by the conditions laid therein.
- 10.2.6 If the quantity of cement actually used in the work is found to be more than the theoretical quantity of cement including authorized variation, nothing extra shall be payable to the contractor on this account. In the event of it being discovered that after the completion of the work, the quantity of cement used is less than the quantity ascertained as herein before provided (allowing variation on the minus side as stipulated in Clause 42), the cost of quantity of cement not so used shall be recovered from the contractor as specified in schedule. Decision of the Engineer-in-Charge in regard to theoretical quantity of cement which should have been actually used as per the schedule and recovered at the rate specified, shall be final and binding on the contractor.

- For non-scheduled items, the decision of the Superintending Engineer regarding theoretical quantity of the cement, which should have been actually used, shall be final and binding on the contractor.
- 10.2.7 Cement brought to site and cement remaining unused after completion of work shall not be removed from site without written permission of the Engineer-in-Charge.
- 10.2.8 In case the contractor brings surplus quantity of cement the same shall be removed from the site after completion of work by the contractor at his own cost after approval of the Engineer-in-Charge.
- 10.2.9 Cement, which is not used within 90 days from its date of manufacture, shall be retested at approved laboratory. Until the results of such tests are found satisfactory, it shall not be used on the work.

13.0 Defect liability:

13.1 The contractor's liability during the defect liability period from the final date of completion as per clause 17 shall be limited to rectification of defects including replacement as follows which in the opinion of Engineer-in-Charge are not man made.

Sl. No.	Description	Defect Liability
(i)	Anti termite	(a) Termites found if any till guarantee period to be rectified through
	treatment.	post ATT.
(ii)	Concrete	(a) Rectification of structural / superficial / non-structural cracks.(b) Rectification of dampness / seepage in roof slab / junctions & sunken portion.
		(c) Rectification of cracks in beam, shade, column.
(iii)	Brick work	(a) Rectification of cracks in panel wall / portion.
		(b) Cracks / settlement of dwarf walls.
		(c) Rectification of efflorescence.
(iv)	Joinery	(a) Replacement of warped joinery.
()	D '11	(b) Cracks in panels, rails / styles etc.
(v)	Builders	(a) Repairs / Replacement of loosened / pre-mature failure of fittings.
(:)	Hardware	(b) Tightening / Replacement of sag in mosquito proofing.
(vi)	Steel & Iron work	(a) Rectification / Replacement of defective part of rolling shutter.
	WOIK	(b) Redoing of defective portion in fabrication / welding including painting.
		(c) Steel windows, grills, gates etc. – defects to be rectified.
(vii)	Roof treatment	(a) Rectification of leakage / seepage of roof slab including covering at
(111)	Roof dedition	junction till guarantee period.
(viii)	Plastering	(a) Rectification of structural / superficial cracks if any.
, ,		(b) Rectification of protruding / peeling off plaster if any.
		(c) Rectification of efflorescence
(ix)	Flooring	(a) Rectification of sinking portion of plinth protection including
		saucer drain.
		(b) Settlement of foundation & floors.
(x)	Plumbing /	(a) Making good of leakage through soil / waste pipe joints.
	Sanitary fittings	(b) Replacement of looking mirror if found wavy.
		(c) Rectification of leakage of over head tanks.
		(d) Leakage / seepage of sunken floor, blockage of taps / pipes, non-functioning of cistern.
(xi)	Finishes	(a) Making good of defective / dissimilar patches of painting to match
(A1)	Timsnes	with remaining surfaces.
(xii)	Internal Water	(a) Repairs / Replacement of defective taps / fittings.
` '	Supply	(b) Repair to leakage of GI water pipe lines including joints.
		(c) Removal of blockage of GI pipe lines.
(xiii)	Roads	(a) Repair of sinking portion of road & potholes, if any
(xiv)	Sewage	(a) Rectification of slope / system if found defective during use.
		(b) Rectification of major blockage in Sewer lines.
		(c) Cracks & settlement of sewage lines.
(xv)	Drains	(a) Repair to Drains.
		(b) Settlement of Drains
(xvi)	External Water Supply	(a) Repairs to installations & fittings.
(xvii)	General	(a) All manufacturing defects of structures / fixtures / fittings /
		equipments other than listed above.
	_	

16. Supplementary special condition:

16.1 The stone aggregate for R.C.C. / C.C. items shall be double screened and washed and shall comply with the grading requirement as specified in IS-383 (latest edition) for stone aggregate besides meeting

other requirement as specified their in. If the contractor / agency to use crushed aggregate nothing extra shall be paid on this account.

- 16.2 The contractor agency shall make his own arrangement of water for construction purposes. Incase, the contractual agency takes temporary water connection from M.C., Chandigarh, the recovery of water charges @ 1.5% shall be made as per Notification issued by the Secretary Local Govt. Chandigarh Administration vide notification No. 6/1/195- FII(8)2011/4088, dated 24.05.2011 conveyed vide E.E. M.C. P.H. Division No. 2 vide memo no. 1533-62, dated 02.06.2011.
- 16.3 Labour Cess shall be deducted from the C.C. running & final bills and that amount will be deposited to the Chandigarh Building and Other Constructions Workers Welfare Funds.
- The contractor shall have to obtain labour license from the Assistant Labour Commissioner, Chandigarh after getting his established registered under the Building and other Construction Act 1996 notified vide Chandigarh Administration No. 353-383 dt. 15.1.2010 issued by the Registering Officer, under the Building and other construction workers Act and Assistant Labour Commissioner, U.T. Chandigarh U.T.
- 16.5 The bidder shall have to give undertaking regarding constitution of the firm /business i.e. whether proprietorship firm/Partnership firm/ Limited Company/Public Limited Company at the time of submission of tender and any change in the same at any stage shall be immediately intimated in writing to the Engineer-in-charge. In case of partnership/Limited/Public Limited companies, the Article of Memorandum of Association shall be submitted by the bidder.
- 16.6 GST or any other tax applicable in respect of this contact shall be payable by the Contractor and Government will not entertain any claim whatsoever in respect of the same.
- 16.7 The department will assist in arranging electric and water connection at the site of work. However the Security / Consumption / installation charger shall be borne by the contractor.
- In case of failure or default in the performance or responsibilities or breach of terms and conditions of DNIT or agreement, action as per "Policy on blacklisting, 2009" issued vide Finance Department Chandigarh Administration Notification No. 1927-F&PO(3)-2009/1170 dt. 27.2.2009 shall be taken.
- 16.13 All deviation beyond permissible limit shall be paid with financial approval of the competent authority at the already approved contractual rates for the respective items.

$\underline{SECTION-IV}$

Annexure

FORM OF PERFORMANCE SECURITY

BANK GUARANTEE BOND

	In conconditions	sideration of the	e Director, l agreemen	, PEC (here	einafter called	"The Governme	ent") having of and	fered to accept the te	rms and er called
	"the said co	ontractor(s)" for	the work			(her	reinafter called	(hereinafte "The said agreement") having
	agreed t	to productio	n of	an irrev	vocable Baı as security/s	nk Guarante guarantee from	e for Rs	or(s) for compliance	(Rupees
	obligations	in accordance v					the contracto	r(s) for compliance	or ms
1.	We			(her	einafter referre	ed to as "the Bar	nk) hereby unde	rtake to	
	(i	ndicate the nam	e of the ba	nk) . evceeding	D _c	(Pupas		only) on deman	nd by the
	Governmen		amount not	exceeding	KS	(Rupees		only) on deman	id by the
2.	Wo			do harab	v undortaka ta	pay the amounts	dua and navah	la.	
۷.	(i	ndicate the nam	e of the bar	do neteb nk)	y undertake to	pay the amount	s due and payau	ile	
	required to be conclusi	meet the recove ve as regardss	ries due or he amount	likely to be due and pa	e due from the a	said contractor(s	s). Any such de Guarantee. Ho	g that the amount clemand made on the Bawever, our liability unger only).	ank shall
3.	disputes rai		tractor(s) i	n any suit	or proceeding			otwithstanding any di Tribunal relating the	
		ent so made by s) shall have no					our liability for	payment there under	and the
4.		e name of the B			_ further agree	that the guarante	ee herein contai	ned shall	
	remain in f shall contin paid and its conditions	full force and ef tue to be enforce to claims satisfied	fect during eable till al l or dischar	l the dues or till I	of the Governm Engineer-in-Ch	nent under or by arge on behalf o	virtue of the sof the Government	the said agreement are aid agreement have been certified that the tentractor (s) and accommoditions are the said agreement agreement are the said agreement are	een fully erms and
5.		ndicate name of		fu	rther agree with	the Governmen	nt that the gove	rnment	
	the terms are to postpone and to forbe liability by omission or	nd conditions of e for any time or ear or enforce a reason of any e in the part of the	the said ag from time my of the te such variati Governme	to time any rms and con ion, or extent or any in	to extend time of the powers nditions relation sion being gradulgence by the	of performance exercisable by g to the said agranted to the said e Government to	by the said cor the Governmen reement and we d contractor(s) to the said contr	attractor(s) from time to tractor(s) from time to t against the said cont shall not be relieved a or for any forbearance ractor(s) or by any suc- effect of so relieving u	o time or tractor(s) from our ee, act of ch matter
6.	This guaran	ntee will not be	discharged	due to the c	hange in the co	onstitution of the	e Bank or the co	ontractor(s).	
7.	We Bank)				_ lastly underta	ike not to revok	te this guarante	e except (indicate the	name of
	,	ne previous cons	sent of the (Governmen	t in writing.				
8.		on	ly) and unl	ess a claim	in writing is le	odged with us v	within six mont	Government. Notwith hs of the date of expire	standing (Rupees ry or the
	extended da	ate of expiry of	this guarant	tee all our li	abilities under	this guarantee s	hall stand disch	arged.	
		Dated the			day of		for	·	
	D	FOR REN	10VAL (OF DEFE	CTS AFTER	TED BY THI	ON IN RESP		
	<u> 10</u>	LINGVALIO	TOP EITI	MAINCE	OF LIDNAN	CI (CIVIL C	a ELECTRI	CILL HURR J	
		S/o			(herein	after called th	ande GUARANT	only) bOR of the one part)	etween and the
		hereinafter ca			-				
 part	t, whereby	and mathe the contractor	de betwee inter alia	en the GUA, undertoo	ARANTOR C k to render th	F THE ONE	PART AND the said contract	lled the Contract) the Government of the recited structurally pantities.	he other

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the affect that the said work will remain structurally stable, leak proof and guaranteed against faulty material and workmanship, and finishing for two years from the date of completion of work.

NOW THE GUARANTOR hereby guarantee that work executed by him will be free from any leakage, seepage, cracks in pipes and guaranteed against faulty material and workmanship, defective galvanizing for two years to be reckoned from the date after the expiry of maintenance period prescribed in the contract.

The decision of the Engineer-In-Charge with regard to nature and cause of defect shall be final.

During this period of guarantee, the guarantor shall make good all defects and in case of any defect to satisfaction of Engineer-in-charge at his cost and shall commence the work for such rectification within seven days from the date of issue of the notice from the Engineer-in-charge calling upon him to rectify the defects failing which the work shall be got done by the Department by some other contractor at the guarantor's cost and risk. The decision of the Engineer-in-Charge as to the cost payable by the Guarantor shall be final and binding.

That if the guarantor fails to make good all defects or commits breach thereunder, then the guarantor will indemnify the principal and his successor against all loss, damage, cost expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and or cost incurred by the Government, the decision of the Engineer-in-charge will be final and binding on both the parties.

IN WITNESS WHEREOR	F these presents have b	een exec	uted by the obligator	
	and		by	for and on behalf
of the Director PEC on the d	lay, month and year fir	st above	written.	
SIGNED, sealed and deliv	vered by OBLIGATOR	R in the p	resence of :-	
1		2.		
SIGNED FOR AND ON I	BEHALF OF THE Dir	rector PE	C BY in the presence of	of:-
1			2	

SECTION – V

Schedule of Quantities

DNIT

Name of Work Providing and Fixing of Floor Tiles etc. in Admission Room, Administrative Block at Punjab Engineering College, Sector-12 Chandigarh.

Time Period- 1 month

Earnest money-Rs.2,470/-

SLNo	DSR No.	Description	Qty	Unit	Rate	Amount
1.1	9.128	Providing and fixing factory made Fiberglass Reinforced plastics (F.R.P.) chajja 4 mm thick of required colour, size and design made by Resin Transfer Moulding (RTM) Machine Technology, resulting in void free compact laminate in single piece, having smooth gradual slope curvature for easy drainage of water and duly reinforced by 2 nos vertically and 1 nos horizontally 50x2 mm thick M.S. flat with 12 mm in built hole for grouting on the existing wall along with the 50 mm flanges duly inserted and sealed in the wall complete in one single piece casted monolithically, including all necessary fittings. The FRP Chajja should be manufactured using unsaturated Polyester resin as per IS: 6746, duly reinforced with fibre glass chopped strand mat (CSM) as per IS: 11551 complete with protective Gel coat U/V coating on Top for complete resistance from the extreme of temperature,				
2	10	weather & sunlight (Only plan area of chajjas shall be STEEL WORK	6.26	sqm	4827.00	30217
2.1	10.3	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	2.07			
3	11	FLOORING	2.97	sqm	6403.30	19018
3.1	11.37A	Providing and fixing 1st quality ceramic glazed floor tiles conforming to IS: 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade	1.95	sam	067.15	
2		Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with whice cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only. Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.	1,70	sv(III	967.15	1886

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	Total				123,206
0 NS	Ozene/Dorma or equivalent floor mounted for toughened glass fixing in bottom of the door complete in all respects and to the entrie satisfaction of Engineering-in-charge.		each	2570.00	2570
NS	dia 3,0mm thick and 450mm long with SS screw etc. complete as per direction of Engineering-in-charge.	1	set	1400.00	1400
	Providing and fixing S.S tublar handle bar 32mm outer	1	Nos	700.00	700
NS NS	Taking out door and glazing fixed in MS steel section	1	Nos	400.00	400
NS NS	Dismentling and refixing of F.T. in renovated floor with PVC pipe if required and cement concrete around F.T.	2.21	sqm	4138.60	9146
5.1 21.	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture including providing and fixing top & bottom pivot & double acting hydraulic floor spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge (Door handle, lock and stopper etc.) be paid separately).	f	Som	4138 60	0145
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ALUMINIUM WORK				
5.2 15.	unserviceable, dismantled or waste materials be mechanical means, including loading, transporting unloading to approved municipal dumping ground or a approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	y I, s	cum	138.15	145
5.1 15.	cleaning the surface for plaster including disposal or rubbish to the dumping ground within 50 metres lead.	of 2.78	sqrn	27.60	77
15	DISMANTLING AND DEMOLISHING	13.03	Sqiii	2.03	
14 1.1 14,	REPAIRS TO BUILDING				8:
	46.2 Size of Tile 600x600 mm	2.78	sqm	1389.75	386
	(thickness to be specified by manufacturer), with watebsorption less than 0.08 % and conforming to 1, 15622, of approved make, in all colours & shade, skirting, riser of steps, over 12 mm thick bed of cemer mortar 1:3 (1 cement: 3 coarse sand), jointing with greater than the solution of the solution o	er S. In nt			
.5 11.			3 sqn	1192.5	3370
.2.1.111.		45.03	2 000	n 1192.55	5 5370
	41A.1 Double charge vitrif	ied tile polished finish of size			

RE. One lacs twenty three thousand two hundred and six only

Conditions

All Items provided in the schedule are subject to notes provided in DSR 2018.

- No Claim will be entertained from the contractor in case of mistake in description, rates units taken by the department in the schedule of quantity & price bid during preparation on account of typing, that of comparison or over sighting, if there will be any mistake that will be rectified at any stage as per DSR 2018 by the Engineer-in- charge.
- If non-schedule Item is to be carried out by the contractor with the order of the EIC rate will be approved by the competent authority.
- The quantity given against each item in the schedule can be increased or decreased by the Engineer-incharge at any time, no objection of any claim from the contractor will be entrained on this account.
- Although various makes has been mentioned against each items for inviting the healthy competition. But material selection i.e. makes of the material to be installed will be decided by the department and agency has to bring the same at site. Therefore agencies are requested to quote the rate accordingly and further it is made clear that no financial deviation/ benefit will be entertained by the department on the basis of the material brought at site as per direction of department later on.
- The contractor will be responsible for the damage caused to the cable of P & T or any other agency cables during the execution of work. He should inviolably informed to authority incharged of cables in writing prior to taking excavation works failing which the debit raised by the P & T/ other agency /Department for such damage caused by the contractor will be recoverable from him.
- That the contractor shall comply with the provision of the contract Labor (Regulation & Abolition) Act, 1970 and the rules made there under as extended by the contract Labor (Regulation & Abolition) Rules.
- The conditional tender or tender without Earnest Money shall be rejected at any stage.
- If any, schedule item other than approved DNIT is executed at site, the rate will be paid as per approval of competent authority.
- 10 Caution Tapes:-The agency will provide caution Tapes around the work/ excavated trenches / pits, manholes etc. with his own cost otherwise 1% (one present) Penalty of total work will be deducted & work of providing Caution tapes will be executed by the department.
- 11 The work will execute as per CPWD specification & relevant code.

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- The income Tax shall be deducted as per income tax department, or any other statuary taxes will also be deducted from the contractor's bill.
- The Rate shall be inclusive of all taxes & duties and other statuary taxes which will be deducted from contractor's bills.
- 14 It should be energed that colour and design of the wall/floor tile should be got approved from the EIC.
- 15 The valer charges @ 1.5% will be deducted as per M.C. Water bye-laws 2011
- 16 For labor rate items to be issued free of cost in case of any damage or loss the recovery shall be made at stock issue rate or market rate whichever is higher.
- Any material of the approved make if not available / manufacture then equivalent specification material of any other make may be allowed subject to approval of EIC.

University Engineer Punjab Engineering College, Sector-12, Chandigarh.