

**BID DOCUMENT**  
**FOR**  
**Repair and renovation of existing girls common room to be**  
**used for new faculty and research scholars of Chemistry**  
**Department at PEC**

Last Date of Submission:	27.09.2023 upto 12.00 AM
Opening of Tender:	27.09.2023 at 3.00 PM
Estimated Cost:	9,13,227/-
EMD:	18,265/-
Time	02 Months

# 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](http://etenders.chd.nic.in) upto 12.00 hours on 27.09.2023 which shall be opened at 15.00 Hrs. on 27.09.2023 for the work.

Sr No .	NI T No .	Name of work & location	Estimated cost put to tender	Earnest money	Period of Completion	Last date & time of submission of tender on website	Time & of opening of tender
1	2	3	4	5		8	9
1.		Repair and renovation of existing girls common room to be used for new faculty and research scholars of Chemistry Department at PEC	9,13,227/-	18,265/-	02 Months	27.09.23 upto 12.00 PM	27.09.23 at 3.00 PM

1. Bid document can be downloaded from the website of Punjab Engineering College ([www.pec.ac.in](http://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 “.**

(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 2022.

University Engineer  
Phone No. 0172-2753059  
Dated:

Endst. No:

A Copy forwarded to the following for information and n/action.

1. Registrar
2. CE&W
3. AC (F&A)
4. Webmaster (For uploading the tender notice on institute and e-tendering website)
5. Notice Board.

University Engineer

**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.

1.	The intending bidder has to upload the receipt of EMD submitted.	
2	ELIGIBILITY CRITERIA for the Post Qualification of the intending contractors/firms shall be as follows and the scanned 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 <sup>st</sup> March, 2021 should be at least 50% of the estimated cost. <i>(scanned copy of certificate from Chartered Accountant should be uploaded and there is no need to upload entire voluminous Balance sheets)</i>  Experience of having successfully completed similar works as per CPWD Manual Works during last 7 years ending last day of the previous month in which the tender is invited should be either of the following: - <b>(The work completed upto previous day of last day of submission of tender shall be considered)</b>
	i)	Three similar completed works each costing not less than the amount equal to 40% of the estimated cost.
		OR
	ii)	Two similar completed works each costing not less than the amount equal to 60% of the estimated cost.
		OR
	iii)	One similar completed work costing not less than the amount equal to 80% of the estimated cost.
	b	DEFINITION OF SIMILAR WORK: - <b>SIMILAR WORK MEANS “(Building Work)</b>
	c	<i>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 application of tenders.</i>
	d	The intending bidder/contractor along with the bid should furnish an AFFIDAVIT duly attested by Notary Public/ First class Magistrate ON STAMP PAPER in Folder “B” as per specimen given below:-
	E	<p style="text-align: center;"><b><u>AFFIDAVIT</u></b></p> <p><b>To become eligible for e-tendering, the tenderer shall have to furnish an affidavit as under:-</b></p> <p>a) 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.</p> <p>b) 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.</p> <p>c) That the deponent further undertake that he/she/ director(s)/partner(s) of the proprietor/ firm/company/agency have never been convicted of any criminal offence.</p> <p>d) That I/we also undertake that the particulars given by me are true and correct to the best of my knowledge and belief and nothing has been concealed thereof. I am aware that in case of any discrepancy/ false statement found, it will lead to rejection of my bid/tender and the institute will debar/blacklist the proprietor/ firm/agency as per policy of blacklisting issued by</p>

		Chandigarh Administration vide notification dated 27.02.2009.
		Dated: _____ Signature of the firm/agency _____
		<b>NOTE:</b> Affidavit should be of latest date. The Affidavit of date prior to six months from the date of publishing the tender shall not be considered for qualification of Technical Bid
3.		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.
4.		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.
5.		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
6.		The copy of the other documents as specified above in the Notice shall be scanned and uploaded to the e-tendering website within the period of Bid submission.
7.		The Bidders shall have to submit their Bids online in Electronic Format with Digital Signatures. For participation in the e-tendering process the Bidders need to register themselves on <a href="http://etenders.chd.nic.in">http://etenders.chd.nic.in</a> . Bid document can be downloaded from the website of Punjab Engineering College ( <a href="http://www.pec.ac.in">www.pec.ac.in</a> ) or <a href="http://etenders.chd.nic.in">http://etenders.chd.nic.in</a> .
8.		<b>The contractor/agency will ensure that no children are engaged at the site of work.</b>
9.		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.
10		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		<b>Instructions to Bidders regarding e-tendering process:-</b>
	i	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.
	ii	Before submission of on-line Bids, Bidders must ensure that scanned copies of all the necessary documents have been uploaded with the Bid.
	iii	It will be mandatory for all the Bidders to upload all the documents.
	iv	The Deptt. will not be responsible for any delay in on-line submission of the Bids due to any reason whatsoever.
	v	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.
	vi	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.
12		<b>THE LIST OF DOCUMENTS TO BE SCANNED AND UPLOADED WITHIN THE PERIOD OF BID SUBMISSION IS AS UNDER :-</b>
	i.	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 order.
	ii.	Performance Certificate as per CPWD Manual.
	iii.	Certificate of Financial Turnover for last three financial years from Chartered Accountant.
	iv.	Affidavit as per format attached.

13	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. <b>NO CORRESPONDENCE OR PHYSICAL SUBMISSION OF ANY ADDITIONAL DOCUMENT THEREAFTER WILL BE ENTERTAINED BY THE DEPARTMENT.</b> <i>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.</i>
14	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.
16	No Tender will be accepted in physical form and in case it has been submitted in the physical form it shall be rejected summarily.
17	<b>THE CONDITIONAL TENDERS SHALL BE REJECTED STRAIGHT AWAY.</b>
18	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, PEC

# INDEX

## DNIT

**Name of Work: - Repair and renovation of existing girls common room to be used for new faculty and research scholars of Chemistry Department at PEC**

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## 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 CONSTITUTE 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

CWD-6

#### **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](http://etenders.chd.nic.in) upto 12.00 hours on 27.09.2023 which shall be opened at 15.00 Hrs. on 27.09.2023 for the work.

#### **Name of Work: Repair and renovation of existing girls common room to be used for new faculty and research scholars of Chemistry Department at PEC**

1.1 The work is estimated to cost **Rs. 9,13,227/-** This estimate, however, is given merely as a rough 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 “**(Building Work)**”

(ii) The bidder should have average financial turnover 50% of estimated cost of the above work during the last three financial years ending 31<sup>st</sup> March 2022.

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.

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

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.

2. Agreement shall be drawn with the successful tenderer on prescribed CPWD Form No.7 as per “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.



3. The time allowed for carrying out the work will be 02 **Months** from the **date of start as defined in 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.

4. The site for the work is available. Yes

5. (a) Last date of receipt of Application shall be As mentioned in the tender notice

(b) Last Date of sale of Tender Documents shall be As mentioned in the tender notice

(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 be 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 by 12:00 p.m. by the due date. The receipt for the same should be uploaded alongwith the technical bid

(b). Copy of Enlistment certificate (**Building Work**) 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.**

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:**

I. 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 3% (3 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: Repair and renovation of existing girls common room to be used for new faculty and research scholars of Chemistry Department at PEC.**

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’**  
**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. 18,265/-** 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 liberty 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 re-tendering 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 re-tendering 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 .....  
Witness: - .....  
Address: - .....  
Occupation: - .....

Signature of Contractor .....  
Postal Address: - .....  
Telephone No.  
Fax:-  
E-Mail:-

**ACCEPTANCE**

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of the Director, PEC for a sum of Rs.....  
(Rupees.....)

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,  
Punjab Engineering College  
Chandigarh**

## SCHEDULES

### SCHEDULE 'A'

Schedule of quantities

- As per **Section – VII**

In case of composite tender

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.	Quantity.	Rate in figures & words at which the material will be charged to the contractor	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
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### SCHEDULE 'D'

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

1. Amendments/ Changes in Clauses  
of the General Conditions of Contract  
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)/	'Xm' Nil %
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':-

Reference to General Conditions of Contract. \_\_\_\_\_

### Repair and renovation of existing girls common room to be used for new faculty and research scholars of Chemistry Department at PEC.

1.2	Estimated Cost of work: -	Rs. 9,13,227/-
1.3	Earnest Money: -	Rs. 18,265/-
1.4	Performance Guarantee	3.00% of tendered value
1.5	Security Deposit	2.5% of Work Done
1.6	Time Allowed	02 Months
1.7	The following expressions shall unless the context otherwise require have the meanings hereby specifically assigned to them.	
1.7.1	University Engineer, PEC 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-2021 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 2021
8.1	The order of preference: -	<p>In the case of discrepancy between the Schedule of Quantities, the Specifications and/ or the Drawings, the following order of preference shall be observed:-</p> <p>(i) Nomenclature of item as per Schedule of Quantities</p> <p>(ii) Special Conditions.</p> <p>(iii) Particular Specifications.</p> <p>(iv) CPWD Specifications.</p> <p>(v) Architectural Drawings.</p> <p>(vi) Indian Standard Specifications of B.I.S.</p>
9(ii)	Standard CPWD Contract Form	CPWD Form 7 with latest amendments as per <b>Section-III.</b>
	<b>Clause-1:-</b>	
	(i) 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
	<b>Clause-2:-</b> I. Authority for fixing compensation under clause-2.	University Engineer
	II. Whether clause-2A shall be applicable.	NA
	<b>Clause-5:-</b> Time allowed for execution of work.	Refer Para 1.6 Sheet No.II-4
	Authority to give fair and reasonable extension of time for completion of work.	Appropriate clause of CPWD Work Manual 2021.
	Mile Stone	Refer Para (A) Table of Milestones
	<b>Clause-6, 6A:-</b>	
	Clause applicable- (6 or 6A):-	Clause 6 applicable
	<b>Clause-7:-</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	Refer Para (B) Table of Milestones
	<b>Clause-10A:-</b>	

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 total value of work. NA

**Clause :- 10CA**

Materials covered under this clause	Nearest material ( other than cement , reinforcement bars and structural steel) for which all India whole sale price index to be followed	Base price of the materials covered under 10CA	
		Base Price	Correspondence Period
1.Cement i)OPC II)PPC	N/A	Rs. 7000/- Rs. 6400/-	July 2020 Rates taken are ex-stockyard prices excluding GST.
2. Reinforcement bars (TMT-500D)  (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. \_\_\_ Nil.

**Clause-11:-** Specifications to be followed for execution of work C.P.W.D. Specifications

**Clause-12:-** Type of Work Original  
Clause-12(a) Accord sanction of substituted items. Appropriate clause of CPWD Works Manual 2014.

Clause 12(b) Accord sanction of extra items. -do-  
12.2 & 12.3 Deviation limit beyond which clause 12.2 & 12.3 shall apply for building work super structure. Any quantity increased/decreased shall be 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 2021 with latest modification upto Date



**Clause 18 :-**

List of mandatory machinery tools  
& Plants to be deployed by the  
Contractor at site.

N.A

Type of Work

Original Works

**Clause-36**

S.no	Minimum qualification of technical representative	Discipline	Designation(Principal Technical/Technical Representative	Minimum Experience	Number	Rate at which recovery shall be made from contractor in the event of non deployment	
						Figures	Words
1.							
2.							

## Clause-42:-

- (e) a) Schedule/Statement for determining theoretical quantity of cement & bitumen  
(f) Variations permissible on theoretical quantities.

Delhi Schedule of Rates 2021

- 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

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

### TABLE OF MILE STONE (S)

**Name of Work:-** Repair and renovation of existing girls common room to be used for new faculty and research scholars of Chemistry Department at PEC

Para (A) In Physical / Financial Terms: -

<b>Milestone Programme</b>			
<b>Sl. No.</b>	<b>Gross Work Done Of Total Work Allotted</b>	<b>Time Allotted (From date of start)</b>	<b>Amount to be withheld in case of non-achievement of milestone</b>
1.	20 %	15 days	1.25% of Tendered Amount
2.	50 %	30 days	1.25% of Tendered Amount
3.	80 %	45 days	1.25% of Tendered Amount
4.	Completion of work i/c testing etc. complete	60 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

### 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.

3.2 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 is confidential and must be strictly confined 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.

5.6 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".

5.8 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 a 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 10<sup>th</sup> 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 treatment.	(a) Termites found if any till guarantee period to be rectified through 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. (b) Cracks in panels, rails / styles etc.
(v)	Builders Hardware	(a) Repairs / Replacement of loosened / pre-mature failure of fittings. (b) Tightening / Replacement of sag in mosquito proofing.
(vi)	Steel & Iron work	(a) Rectification / Replacement of defective part of rolling shutter. (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 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 / Sanitary fittings	(a) Making good of leakage through soil / waste pipe joints. (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 with remaining surfaces.
(xii)	Internal Water Supply	(a) Repairs / Replacement of defective taps / fittings. (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	(a) Repairs to installations & fittings.



Sl. No.	Description	Defect Liability
	Supply	
(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.
- 16.4 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.
- 16.5 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.
- 16.6 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.
- 16.7 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.
- 16.8 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.

# SECTION – IV

## Annexure

### FORM OF PERFORMANCE SECURITY

#### BANK GUARANTEE BOND

In consideration of the Director, PEC (hereinafter called “The Government”) having offered to accept the terms and conditions of the proposed agreement between \_\_\_\_\_ and \_\_\_\_\_ (hereinafter called “the said contractor(s)” for the work \_\_\_\_\_ (hereinafter called “The said agreement”) having agreed to production of an irrevocable Bank Guarantee for Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) as security/guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement.

1. We \_\_\_\_\_ (hereinafter referred to as “the Bank) hereby undertake to  
(indicate the name of the bank)  
pay to the Government an amount not exceeding Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) on demand by the Government.
2. We \_\_\_\_\_ do hereby undertake to pay the amounts due and payable  
(indicate the name of the bank)  
under this Guarantee without any demure, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only).
3. We, the said bank further undertake to pay to the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal.

The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the contractor(s) shall have no claim against us for making such payment.

4. We \_\_\_\_\_ further agree that the guarantee herein contained shall  
(indicate the name of the Bank)  
remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Engineer-in-Charge on behalf of the Government certified that the terms and conditions of the said agreement have been fully and properly carried out by the said contractor (s) and accordingly discharges this guarantee.
5. We \_\_\_\_\_ further agree with the Government that the government  
(indicate name of the bank)  
shall have the fullest liberty without our consent and without effecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said contractor(s) or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
6. This guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).
7. We \_\_\_\_\_ lastly undertake not to revoke this guarantee except (indicate the name  
of Bank)  
  
with the previous consent of the Government in writing.
8. This guarantee shall be valid upto \_\_\_\_\_ unless extended on demand by Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged.

Dated the \_\_\_\_\_ day of \_\_\_\_\_ for \_\_\_\_\_.

**GUARANTEE BOND TO BE EXECUTED BY THE CONTRACTOR  
FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF  
RENOVATION OF ENTRANCE OF LIBRARY ( CIVIL & ELECTRICAL WORK )**

The agreement made this..... day of ..... (Two Thousand ..... only) ..... between .....S/o .....(hereinafter called the GUARANTOR of the one part) and the Director PEC (hereinafter called the Government of the other part)

WHEREAS THIS agreement is supplementary to a contract (Hereinafter called the Contract) dated ..... and made between the GUARANTOR OF THE ONE PART AND the Government of the other part, whereby the contractor inter alia, undertook to render the work in the said contract recited structurally stable, leak proof and sound material, workmanship, sealing, finishing etc as specified in bill of quantities .

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 WHEREOF these presents have been executed by the obligator ..... and ..... by ..... for and on behalf of the Director PEC on the day, month and year first above written.

SIGNED, sealed and delivered by OBLIGATOR in the presence of :-

1. .... 2. ....

SIGNED FOR AND ON BEHALF OF THE Director PEC BY..... in the presence of :-

1. .... 2. ....

# **EMD RECEIPT**

**Name of Work: - Repair and renovation of existing girls common room to be used for new faculty and research scholars of Chemistry Department at PEC**

Tender No.: PEC/EO/2023/23

**Last date of submission of tender: 27.09.2023 upto 12:00 p.m.**

Amount of EMD: 18,265/-

D.D./ FDR No. \_\_\_\_\_, dated \_\_\_\_\_ amount \_\_\_\_\_

Name of Firm: \_\_\_\_\_

Address for Correspondence: \_\_\_\_\_

\_\_\_\_\_

Valid Email ID \_\_\_\_\_

Contact No. \_\_\_\_\_

SECTION – V

Schedule of Quantities

**DNIT**

**Repair and renovation of existing girls common room to be use for new faculty and research schoolers of chemistry deptt at Punjab Engineering College, Sector-12, Chandigarh.**

**EMD:-18,265/-**

SLNo	DSR No.	Description	Qty	Unit	Rate	Amount
1	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
2	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	1	cum	6658.25	6658.25
3	8.3	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
4	8.3.2	Granite work	30	metre	418.85	12565.50
5	9.65	Providing and fixing ISI marked oxidised M.S. door latches conforming to IS:5930 with screws etc. complete : (copper oxidized as per IS: 1378)				
6	9.65.1	300x20x6 mm	2	each	82.40	164.80
7	9.83	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	3	each	1025.65	3076.95
8	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
9	9.97.3	200x10 mm	2	each	90.80	181.60
10	9.1	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
11	9.100.1	125 mm	4	each	60.05	240.20
12	9.101	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.				
13	9.101.2	Twin rubber stopper	4	each	62.25	249.00
14	11.47	Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately). Make- Kajaria/Johnson/NITCO/RAK				
15	11.47.2	Size of Tile 600x600 mm	5	sqm	1676.15	8380.75
16	11.49	Providing and laying Vitrified tiles in floor with 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 with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).Make- Kajaria/Johnson/NITCO/RAK				
17	11.49.2	Size of Tile 600x600 mm	54	sqm	1537.40	83019.60
18	11.56	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.				
19	11.56.2	Polished Granite stone slab of all colour and texture except Black, Cherry/Ruby Red	12.5	sqm	2677.90	33473.75

SLNo	DSR No.	Description	Qty	Unit	Rate	Amount
20	12.45	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in				
21	12.45.1	12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095-(Part I) :2011 (Board with BIS certification marks)	28	sqm	1145.95	32086.60
22	13.4	12 mm cement plaster of mix :				
23	13.4.2	1:6 (1 cement: 6 coarse sand)	36	sqm	294.35	10596.60
24	13.8	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	112	sqm	123.85	13871.20
25	13.9	Distemping with 1st quality acrylic distemper (Ready mix) having VOC content less than 50 grams/ litre of approved brand and manufacture to give an even shade :				
26	13.90.1	Old work (one or more coats)	112	sqm	56.80	6361.60
27	13.91	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	90	sqm	20.85	1876.50
28	13.99	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :				
29	13.99.1	One or more coats on old work	35	sqm	86.55	3029.25
30	14.3	Fixing chowkhat in existing opening in brick/ RCC wall with dash fasteners/Chemical fasteners of appropriate size (3 nos on each vertical member of door chowkhat and 2 nos on each vertical member of window chowkhats), including Cost of dash fasteners/ chemical fastener.	1	each	190.25	190.25
31	15.3	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	2.75	cum	2928.10	8052.28
32	15.7	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.				
33	15.7.4	In cement mortar	2.6	cum	1698.45	4415.97
34	15.56	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	26	sqm	45.05	1171.30
35	15.60	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	6	cum	219.35	1316.10

SLNo	DSR No.	Description	Qty	Unit	Rate	Amount
36	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
37	21.1.1	For fixed portion				
38	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	52	kg	466.30	24247.60
39	21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
40	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	12	kg	564.80	6777.60
41	21.2	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.				
42	21.2.1	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side	12	sqm	965.10	11581.20
43	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
44	21.3.2	With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)	10	sqm	1325.55	13255.50
45	26.23	Providing and fixing false ceiling at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595x595 mm of approved texture, design and patterns having NRC (Noise Reduction coefficient) of 0.50 (minimum) as per IS 8225:1987, Light reflectance of 85% (minimum). Non combustible as per BS:476 (part 4), fire performance as per BS:476 (part 6 &7), humidity resistance of 100%, thermal conductivity < 0.043 W/m K as per ASTM 518:1991, in true horizontal level suspended on inter- locking metal powder coated T- Grid of hot dipped galvanised iron section of 0.40 mm thick on Silhouette profile, rotary stitched double webbed white with 6mm reveal profile (white/black), comprising of main-T runners of size 15x42mm of length 3000 mm, cross - T of size 15x42 mm of length 1200 mm and secondary intermediate cross- T of size 15x42 mm of length 600mm to form grid module of size 600 x 600 mm, suspended from ceiling using galvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 50 mm long, 8 mm outer diameter M-6 dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 85x25x2 mm. Galvanised iron perimeter wall angle of size 22x19x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450 mm center to center and 40mm long dry wall S.S screws. The work shall be carried out as per specifications, drawing and as per directions of the Engineer-in-Charge.				
46	26.23.1	With 15 mm thick integral densified micro edge light weight calcium silicate false ceiling tiles	35	sqm	2055.65	71947.75
47	10.28	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.).	80	kg	612.25	48980.00



SLNo	DSR No.	Description	Qty	Unit	Rate	Amount
48	15.12	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :				
49	15.12.2	Of area beyond 3 sq. metres	1	each	414.55	414.55
50	NS	Removing existing 12mm toughened glass safely including placing at a suitable place complete job	1	job	6000.00	6000.00
51	NS	P/F of stainless steel finish central locks of ozone/dorma or equivalent floor mounted for toughened glass fixed in f the door complete in all respect and to the entire satisfaction of engineer in charge.	3	each	2570.00	7710.00
52	NS	Providing and fixing steel tublar type handle set 32mm dia, 450mm long with stainless steel screws etc. complete in all respect to the entire satisfaction of engineer in charge.	3	each	1560.00	4680.00
53	NS	Providing and fixing 12 mm thick fix toughened glass of approved brand and manufacture, and fixed with necessary fixutres of SS and SS screws, angles etc to the entire sarisfaction of engineer in charge.	35	sqm	3819.00	133665.00
54	NS	Providing and fixing of Hydraulic floor spring of approved brand (Hardwyn/Ozone) for doors including cost of cutting floors, embedded in floors as required and making good the same eith cover plates with brass pivot complete in all respect.	3	nos	8200.00	24600.00
55	NS	Dismantalling of existing MS railing and other works complete job	1	Job	3000.00	3000.00
56		<b>Electrial work</b>				
57	1.10	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
58	1.10.3	Group B	20	Point	1182.00	23640.00
59	1.17	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.				
60	1.17.3	3 x 1.5 sq. mm	100	Metre	95.00	9500.00
61	1.17.12	3 x 2.5 sq. mm	130	Metre	137.00	17810.00
62	1.21	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
63	1.21.2	25 mm	120	Metre	145.00	17400.00
64	1.24	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
65	1.24.1	5/6 A switch	17	Each	103.00	1751.00
66	1.24.3	15/16 A switch	1	Each	156.00	156.00
67	1.24.4	3 pin 5/6 A socket outlet	17	Each	122.00	2074.00
68	1.24.5	6 pin 15/16 A socket outlet	3	Each	197.00	591.00
69	1.25	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	4	Each	369.00	1476.00
70	1.27	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.				
71	1.27.1	1 or 2 Module (75mmX75mm)	2	Each	298.00	596.00
72	1.27.2	3 Module (100mmX75mm)	1	Each	327.00	327.00
73	1.27.3	4 Module (125mmX75mm)	1	Each	343.00	343.00
74	1.27.4	6 Module (200mmX75mm)	1	Each	402.00	402.00
75	1.27.6	12 Module (200mmX150nm)	4	Each	547.00	2188.00
76	1.32	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	3	Each	586.00	1758.00
77	1.53	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required.				
78	1.53.1	1 run of cable	100	Metre	57.00	5700.00
79	1.55	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point ( without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.				
80	1.55.2	Group B	4	Point	753.00	3012.00

SLNo	DSR No.	Description	Qty	Unit	Rate	Amount
81	2.4	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MOB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
82	2.4.1	4way (4 + 12), Double door	1	Each	4091.00	4091.00
83	2.10	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MOB DB complete with connections, testing and commissioning etc. as required.				
84	2.10.1	Single pole	12	Each	256.00	3072.00
85	2.24	Supplying and fixing cable and box (loose wire box) suitable for following triple pole and neutral, sheet steel, MCB distribution board 415 Volts, on surface/ recess, complete with testing and commissioning etc as required				
86	2.24.1	For 4 way, Double door TPN MCBDB	1	each	1080.00	1080.00
87	19.1	Supply and erection of AC ceiling fan 1400mm sweep with copper winding but without regulator complete with MS blades, plastic canopies 2 nos double ball bearing, MS hanging rods (As per site requirement), condenser, reels, clamps etc. The body of fan and blades should be white in colour. The job includes the cost of making necessary connections from the adjacent light point with 1.5mm <sup>2</sup> single core copper conductor cable and 3mm thick white BL sheet cover for fan box of suitable size. The sample of fans shall be got approved from the SDE in charge of work before installation at site. The job also includes the cost of carriage, erection, testing, commissioning of fan, all labour and petty material required to complete the job to the entire satisfaction of the Engineer in charge. Makes Havells-Velocity/Orient-New Breeze/Crompton-High Speed/ Usha-Strikers/Bajaj- Sabse-tej only	4	Each	2713	10852.00
88	NS	Supply ,installation, testing and commissioning of recessed type LED panel 2'x 2',having CRCA housing duly painted with diffuser, minimum 3600 lumens and 50000 burning hours of make Philips RC 380-B LED 36S-6500-G6/ Wipro CRCO10R036HP57MO / Havells VENUS-PLR36WLED857G2/Bajaj BZRSQ36L LED DX.The job includes the cost of testing, commissioning and making connection with 3*1.5 sq mm copper wire from adjacent light point, other petty material and labour etc as required to complete the same to the entire satisfaction of Engineer in Charge.	8	Each	3620.00	28960.00
89	NS	Supply and erection of recessed round down lighter 12 watt 5700/6500K CDL (Cool day Light) made of pressure dia-cast aluminium, heat sink and high quality PC diffuser, in white powder coated finish with integral electronic low THD (10%) LED Driver. The fixture should have a minimum system efficacy of 110 lumens/watt with CRI > 80, surge protection-2.5 KV, life 50000 hours, design ambient temp 45 degree celcius. The job includes cutting of false ceiling, fixing down lighter and connection to adjacent light point complete in all respect. Make- Philips-Model Green perform sleek DH296BLED-12S-6500PSEWHS1/Panasonic-Model-ARUMI-PDLM35128/WIPRO-LD06-151-LD06-XXX-57-XX/Havells-INTEGRAHEDLR12W LED 857S	12	Each	1636.00	19632.00
90	NS	Supply and erection of Modular type DP switch 32 Amp 250 Volt along with modular box, modular base and cover plate 2 module complete in all respect.Make Legrand (Lyncus)/ABB (Tvisha/ Gold Medal(GIFA) Crabtree (Athena)	2	Each	655.00	1310.00
91	NSR	Supply and installation split AC 2.0 tonn capacity 3 star rating with R-410A/R-32 gas with ISEER in range 3.80-4.39. The AC shall be suitable for 230Volts +-10% volt, 50Hz, single phase, including installation charges complete in all respect upto the entire satisfaction of EIC. Make Carrier/Daikin/Hitachi/Toshiba.	2	each	61312.00	122624.00
92	NSR	Providing and Fixing of Voltage Stabilizers of (3 stage) MS Body ( powder coated) with Copper winding Input range 160 to 280 Volts, Nominal output 230 Volts±10% Including cost of copper wire from stabilizer to AC unit and power plug complete in all respects Make Deol/Jewel /V-guard.				
93		5 KVA capacity	2	each	4248.00	8496.00
94	NSR	Providing & Fixing of Powder coated ready made heavy duty out door stand for Split out door as per site requirement to the entire satisfaction of Engineer- in Charge.	2	each	667.00	1334.00
95	NSR	Providing and Fixing of PVC Rigid drain Pipe surface/recess with necessary repair to the original condition, complete in all respects from indoor unit to Disposal Points as directed by the E.I.C. Size ¾" including specials- Make- Diplast or Equalivent.	14	metre	110.00	1540.00

SLNo	DSR No.	Description	Qty	Unit	Rate	Amount
96	NSR	Providing and Fixing of 22 gauge soft copper piping of size 3/8" & 5/8" or as per original manufacturer of A/C size, for Liquid & Suction sides, between indoor & outdoor units with 6 mm thick nitrile rubber insulation & protective covering for exposed weather including cost of chasing brick wall/RCC wall & repairing to original condition. Make Rajco., Mandev, Totaline.	18	metre	874.00	15732.00
97	NSR	Providing & fixing of 3 core 2.5 sqmm flexible copper wire ISI Marked complete. Makes Havell/Polycab as per site.	22	metre	122.00	2684.00
98	NSR	Providing and fixing of MS 10mm dia U type fan hook which includes fixing in the steel bar of RCC slab and repairing the same in good condition.	4	Each	175.00	700.00
99	NSR	Supply and erection of fan rod 48" length made of seamless MS pipe dia duly powder coated complete in all respect. Make National	5	Each	269.00	1345.00
100	NSR	Supply, erection testing and commissioning of UTP cat 6 information outlet (RED for Data- User End) complete in all respect upto the entire satisfaction of Engineer In-charge of the work make-Molex/R&M/Semon/D-Link	4	Each	310.00	1240.00
101	NSR	Supply, erection, testing and commissioning UTP face plate (Single/dual) along with modular box 75mmx75mm complete in all respect upto the entire satisfaction of Engineer In-charge of the work make-Molex/R&M/Semon/D-Link	4	each	250.00	1000.00
102	NSR	Supply and fixing of 63 amp rating, TPN MCB 415V, 10KA"C" curve miniature circuit breaker suitable for inductive load of following poles in the existing DB complete with connections, testing and commissioning as required. Makes Havells/ABB/L&T/Schnieder	1	each	2098.00	2098.00
103	NSR	Supply, installation, testing and erection LED box type fitting with single ended connections, made of CRCA sheet and suitable for 2x18/20 watt LED tube rods including cost of 2x18/20 watt LED tube rods. Specification of LED tube rods should be -minimum 2000 lumens per rod, extruded aluminium heat sink with polycarbonate diffuser 50,000 burning hours and others standard specifications as per OEM. Makes of fitting and LED rods should be of Philips/ Wipro/Bajaj/Havells. The job includes Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube/lamp etc. directly on ceiling/ wall, including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	2	each	1468.00	2936.00
104	NSR	Supply and erection of exhaust fan metallic body, Size 300mm sweep 900 RPM complete in all respect with necessary connections. The job includes Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required. Makes:- Havells- turbo force SP/crompton- EXHD 300-6-1/Bajaj-Supreme Plus.	1	Each	4315.00	4315.00
105	NSR	Supply and erection of National make louver shutter with aluminium wings for exhaust fan of size 300mm on existing hole complete with petty material and labour required to complete the job.	1	Each	775.00	775.00
106	NSR	Making hole for installation of exhaust fan/fresh air fan of size upto 450mm sweep by demolishing brick work manually/by mechanically means including disposal of malba within 50 mtr. lead and making good the wall by plastering etc as required.	1	Each	850.00	850.00
		Total				<b>913227</b>

#### Conditions

- All items provided in the schedule are subject to notes provided in DSR 2022.
- 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 2021 by the Engineer-in- charge.
- The quantity given against each item in the schedule can be increased or decreased by the Engineer-in-charge at any time, no objection of any claim from the contractor will be entertained 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.
- Before the start of work, the agency has to bring samples of all the material of the approved make to be used at site and get it approved from the E.I.C. Only approved material and make will be allowed to be used at site.
- 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 invariably inform to authority in-charge 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. 1974.
- The work will execute as per CPWD specification & relevant code.

SLNo	DSR No.	Description	Qty	Unit	Rate	Amount
9		The water charges will be deducted as per M.C. Water bye-laws – 2011				
10		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.				
11		The contractor will be responsible for the damage caused to the cable of BSNL or any other agency during the execution of work. He should inform to authority incharge of cables in writing prior to taking excavation works, failing which the debit raised by the BSNL/ other agency /Department for such damage caused by the contractor will be recoverable from				
12		That the contractor shall comply with the provision of the contract Labour (Regulation & Abolition) Act, 1970 and the rules made there under as extended by the contract Labour (Regulation & Abolition) Rules. 1974.				
13		The Electrical work shall have to be executed side by side with Civil and PH work.				
14		Separate colour of wires shall be used for phase and neutral so as to distinguish it for live conductor.				
15		All the cables/wires connections should be done through lugs/thimbles duly crimped with proper crimping tools & no extra payment shall be made on this account.				
16		The work including fans and fittings shall be guaranteed for a period of one year for any manufacturing defect from date of commissioning.				
17		The approved makes are as under				
		Piano type accessories			Anchor Penta/ Havells Reo/ Gold Medal Essenza	
		Modular type accessories/sheets			Legrand (Lyncus)/ABB (Tvisha/ Gold Medal(GIFA) Crabtree (Athena)	
		Galvanized moduler boxes			ABB/National/ Goldmedal/ Indo Asian	
		PVC batten/Conduit pipe (ISI marked)			Polycab/Diplast/AKG/Polyplast	
		PVC copper wires FRLS (ISI Marked)			Polycab/L&T/Havells/ Finolex/R.R. Kables	
		MCB's/RCCB's/ELCB's and their enclousers			L&T/ Legrand/ Hager/Schneider/ ABB/ Siemens/Havells	
		BDB's/ A.C. Plug. Socket			L&T/Legrand/Hager/Schneider/Siemens/ABB	
		GI Pipe ISI Marked			Jindal Hissar/ Tata	
		DWC- HDPE Pipe ISI marked			Astral, Tirupati-Gemini, Duraline	
N.S.		The recovery of the material if required shall be made from the minimum rates mentioned against each. The job includes the cost of dismantling the same.				
1		Aluminium wiring light point, fan point, call bell point, exhaust fan point with MS boxes bakelite sheets, switches etc		Each		25.00
2		Aluminium wiring light plug with MS boxes bakelite sheets, switches and sockets 5amp etc		Each		30.00
3		Aluminium wiring power plug with MS boxes bakelite sheets, switches and sockets 15amp etc		Each		40.00
4		Ceiling Fan 56"		Each		350.00
5		Ceiling Fan 48"		Each		350.00
6		2x40 w fitting		Each		250.00
7		1x40 w fitting		Each		150.00
8		Main board consisting of junction box, SPNDB 8 way with MCB and DPMCB 32 amp with enclosure		Each		500.00

ME Civil

ME Electrical

University Engineer