

TENDER DOCUMENT  
FOR

# Acoustic Provision for L-20

AT PEC UNIVERSITY SECTOR 12 CHANDIGARH

**Last Date of Submission of document: 11.01-2017**

**Estimated Cost: Rs. 1,81,060/-**

**Earnest Money: Rs. 3621/-**

## NIT PARTICULARS

The University Engineer PEC University of Technology Chandigarh invites on behalf of Director PEC University of Technology item rate tenders from approved and eligible contractors of PWD (B&R) from enlisted agencies of Chandigarh Administration, M.C. Chandigarh, CPWD, State PWDs of Haryana/Punjab/Himachal and their board and corporations up to 1500 hrs. on 11.01.2017 which shall be opened at 1530 hrs. on the same date for the work

- |                          |  |
|--------------------------|--|
| 1. Name of Work:         | <b>Acoustic Provision for L-20 at PEC, Sector-12, Chandigarh</b> |
| 2. Estimated Cost:       | Rs.1,81,060/-  |
| 3. Earnest Money:        | Rs. 3621/-   |
| 4. Period of Completion: | 45 Days  |
| 5. Cost of Tender:       | Rs. 500/- (Non Refundable)                                       |

The eligible firms, after processing the applications for the criteria mentioned above, shall have to deposit earnest money in shape of Bank Draft/ Bankers Cheque of a scheduled Bank in favor of Director, PEC University of Technology, Chd payable at Chandigarh, in addition to the cost of tender in cash before the tender documents are issued.

Detail of tender may be seen at [www.pec.ac.in](http://www.pec.ac.in)

University Engineer  
PEC, University of Technology, Chd

## **INDEX**

**Name of Work: Acoustic Provision for L-20 at PEC, Sector-12, Chandigarh**

<b>S.NO</b>	<b>DESCRIPTION</b>	<b>SHEET</b>
1.	Section-I – Checklist, for Contractors, CPWD-6,	4-8
2.	Section-II – CPWD Form 7, Schedule ‘A’ to ‘F’	9-12
3.	Section-III- Amended /Changes in Clauses of the General Conditions of the Contract of CPWD Works 2014	13
4.	Section-IV – Special Conditions.	14-22
5.	Section-V – Particular Specifications	23
6.	Section-VI-Annexure	24-28

SECTION – I**CHECK LIST FOR CONTRACTORS FOR SUBMISSION OF TENDERS**

1. Tender to be witnessed at earmarked page 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, the rates must be filled both in words and figures. The amount should be worked out for individual items and totaling done.
4. The contractor (s) shall quote the rates keeping in mind, general conditions of CPWD works 2014 as amended from time to time, special conditions and particular specifications etc.
5. It may be noted that the 10 CC clause is only applicable if the time limit of the work is more than 18 months.
6. Criteria for engagement of specialized agencies have been laid in tender document.
7. **List of documents to be submitted with application for issue of tender document:**
  - a. Copy of the valid Registration
  - b. Performance certificate regarding completion of similar works in the last three years.
  - c. Demand Draft or Bankers Cheque of Rs. 500/- as tender fee drawn in favour of Director, PEC University of Technology, Chandigarh., payable at Chandigarh of any scheduled bank (in original)

OR

Receipt of submission of tender fee with the cashier PEC, Chandigarh (in original)

- d. Solvency Certificate of value equivalent to 40% value of estimated cost of tenders.
- e. Affidavit regarding:
  - i. No criminal proceedings and submission of genuine and correct documents.
  - ii. Confirmation that eligible similar works(s) has/ have not been got executed through another contractor on back to back basis.
- f. Copy of PAN.
- g. Certificate of Registration for Sale Tax/ Vat and Service Tax.

**PEC UNIVERSITY OF TECHNOLOGY**  
**NOTICE INVITING TENDER**

- 1.0 The University Engineer PEC University of Technology Chandigarh invites on behalf of Director PEC University of Technology item rate tenders from approved and eligible contractors of PWD (B&R) from enlisted agencies of Chandigarh Administration, M.C. Chandigarh, CPWD, State PWDs of Haryana/Punjab/Himachal and their board and corporations up to 1500 hrs. on 11.01.2017 which shall be opened at 1530 hrs. on the same date for the work

**Name of Work: Acoustic Provision for L-20 at PEC, Sector-12, Chandigarh**

The work is estimated to cost Rs.1,81,060/-

The estimate however is given merely as a rough guide

- 2.0 Agreement shall be drawn with the successful tenderer on prescribed format as per “General conditions of the contract of CPWD works-2014” (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-2014 attached in **Section- III**. Tenderer shall quote his rates as per various terms and conditions of the said form, which will form part of the agreement.
- 3.0 The time allowed for carrying out the work will be **45 Days** from the date of acceptance of tender or from the from date of allotment of above work, whichever is later, in accordance with the phasing, if any, indicated in the tender document.
- 4.0 The site for work is available
- 5.0 A) Last date of receipt of application shall be 3.11.2016 upto 3:00 p.m.  
B) Tender Cost Rs. 500/- (and tender document can also be downloaded from the Institute website i.e [www.pec.ac.in](http://www.pec.ac.in) and cost of the tender can be deposited at the time of submission of tender.)
- Tender documents consisting of plans, specifications, the schedule of quantities of the various classes of the work to be done and the set of terms and conditions of contract to be complied with by the contractor whose tender may be accepted and other necessary documents can be seen in the office of the University Engineer, PEC University of Technology, Chd between 9:00 a.m to 5:00p.m except Saturday, Sunday and public holidays. Tender documents excluding standard form will be issued from his office during the hours specified above on payment of the following:
- i) Rs. 500/- in cash/ D.D in favour of Director, PEC as cost of tender and
  - ii) **Earnest Money Rs 3621/-** in the shape of Demand Draft of a scheduled Bank in favor of Director, PEC University of Technology, Chd payable at Chd.
- 6.0 Tender should always be placed in sealed envelope, with the name of work and due date written on envelope will be received by the University Engineer, PEC University of Technology, Chd upto 3:00 p.m on 11.01.2017 will be opened by authorized representatives in Estate Office on the same day at 3:30 p.m.
- 7.0 The contractor whose tender is accepted will be required to deposit furnish performance guarantee of an amount equal to 5.00% (Five point Zero Percent) of the tendered amount within 15 days from the date of the opening of tender. This guarantee shall be in the form of demand draft of any scheduled bank payable at Chandigarh.

The description of the work is as follows: -

## **Name of Work: Acoustic Provision for L-20 at PEC, Sector-12, Chandigarh**

Copies of other drawings and documents pertaining to the work will be open for inspection by the tenderers at the office of the **University Engineer PEC University of Technology**

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 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 **Director PEC University of Technology** and local condition and other factors having a bearing on the execution of the work.

- 8.0 The competent authority on behalf of **Director** PEC University of Technology 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, however tender with unconditional rebate shall be acceptable.
- 9.0 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 conditions including that of conditional rebate is put forth by the tenderer, shall be similarly rejected, however tender with unconditional rebate shall be acceptable. 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.
- 10.0 The competent authority on behalf of **Director** PEC University of Technology 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.
- 11.0 The contractor whose near relatives is posted in any capacity in PEC University of Technology will inform the same through letter before due date of receipt of tender. He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any officer/official in PEC University of Technology Administration. Any breach of this condition by the contractor would render him liable to remove his name for works in PEC University of Technology.
- 12.0 No employee of PEC University of Technology. is allowed to work as a contractor for a period of two years after his retirement from Government service, without the previous permission of the Director in writing. His contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the PEC University of Administration. As aforesaid before submission of the tender or engagement in the contractor's services

- 13.0 The tender for the works shall remain open for acceptance for a period of ninety days from the opening of financial bid. 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 **Director** PEC University of Technology, **then the Director** PEC University of Technology **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.**
- In the event the tenderer whose tender is accepted and the award letter issued after the receipt of Performance Guarantee MOU signed with requisite 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 Director** PEC University of Technology **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 University of Technology
- 14.0 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 10 days from the stipulated date of start of the work sign the different component part of the contract consisting of:-
- 14.1 The notice inviting tender, all the documents including additional conditions, specifications and drawings, if any, forms the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.
- 14.2 Standard CPWD Form 8 as per General conditions of contract for CPWD works-2008.
- 15.0 The tenderer has to associate with himself agencies of the appropriate class eligible to tender for the other component individually.
- 15.1 Security deducted will be worked out on work done by the contractor in running payments .
- 15.2 It will be obligatory on the part of the tenderer to sign the tender documents for all the components before the first payment is released.
- 16.0 The Agency has to produce the original documents as and when asked for by U.E. The failure of the Agency to furnish the said original documents will entail summarily rejection of its tender.
- 17.0 The reference of General condition of Contract for CPWD-2014’ Wherever appearing in bid document shall be read as General Condition of Contract for CPWD Works-2014’
- 18.0 The contractor/agency will ensure that no children are engaged at the site of work.
- 19.0 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 conveyed vide E.E. M.C. P.H. Division No. 2 vide memo no. 1533-62, dated 02.06.2011.
- 20.0 PEC University of Technology reserves the right to reject any or all the application/tenders without assigning any reason. Overall lowest bid will be criteria for finalization of tender.
- 21.0 Successful tender shall deposit an amount equal to 5% of the tendered accepted value of the work as performance guarantee.
- 22.0 All disputes concerning in any way with this work are subject to the Chandigarh jurisdiction only.
- 23.0 Conditional tenders will be rejected without assigning any reason.
- 24.0 For detailed Terms & Conditions of the DNIT, relevant drawings etc. can also be seen in the office of undersigned on any working day during office hours.

For & on behalf of the Director PEC University of  
Technology

Signature\_\_\_\_\_

University Engineer

PEC, University of Technology, Chd



**SECTION – II**

**PEC UNIVERSITY OF TECHNOLOGY  
SECTOR 12 CHANDIGARH**

**STATE: UT**

**Authority: PEC**

**BRANCH: UNIVERSITY ENGINEER  
PEC UNIVERSITY OF TECHNOLOGY**

**CITY; CHANDIGARH**

**ITEM RATE TENDER & CONTRACT FOR WORKS**

**Name of Work: Acoustic Provision for L-20 at PEC, Sector-12, Chandigarh**

to be submitted by **3.00 p.m.** on **11-01-2017** to **University Engineer PEC University of Technology Sector 12 Chandigarh**

to be opened in presence of tenderers who may be present at **3.30 p.m.** on **11.01.2017** in the **Estate Office, PEC University of Technology Sector 12 Chandigarh.**

i)

Issued to :- .....

Signature of officer issuing the documents.....

Designation:- **University Engineer, PEC University of Technology Sector 12, Chandigarh.**

ii)

iii) Date of issue:- .....

## T E N D E R E R

I/We have read and examined the Notice Inviting Tender, Schedule of Quantities 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 President of India within the time specified in Tender, 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.

### CPWD FORM NO. 7

We agree to keep the tender open for (90) Ninety days from the date of submission thereof and not to make any modification in its Term & Conditions.

A sum equal to 5% of tendered amount is hereby forwarded and deposited in Demand Draft of a any Scheduled Bank payable at Chandigarh and **(5% of the tender amount)** in Guarantee Bond of Scheduled Bank or State Bank of India as Earnest Money. If I/we fail to furnish the prescribed Performance Guarantee within prescribed period, I/we agree that the said President of India 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 President of India 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. **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 .....	}	Signature of Contractor .....
Witness: - .....	}	Postal Address: - .....
Address: - .....	}	
Occupation: - .....		
		Telephone No. Fax:- E-Mail:

1. **Name of Work:**           **Acoustic Provision for L-20 at PEC, Sector-12, Chandigarh**

2     Estimated Cost of work: -           **Rs. 1,81,060/-**

3     Earnest Money: -                   **Rs. 3621/-**

4     Performance Guarantee           5.00% of tendered value

5     Security Deposit                   5.00% of tendered value

6     Time Allowed                      **45 Days**

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

a     University Engineer (PEC University of Technology)  
      Or Successor thereof

b     Registrar (PEC University of Technology)  
      Or Successor thereof

c     Director (PEC University of Technology)  
      Or Successor thereof

d     Delhi Schedule of Rates (DSR)     DSR-2014 with correction/amendments latest upto date

e     CPWD Specifications CPWD Specifications 2014 latest upto date

**General Rules & Directions:-**

Officer Inviting Tender: -                   University Engineer

**Definitions:-**

i       Engineer-In-Charge                   University Engineer  
ii      Accepting Authority                 Director     (PEC     University     of  
Technology)

iii     Percentage on cost of  
          materials and labour to  
          cover all overheads and  
          profits                                 15% (Fifteen Percent)

iv     Standard Schedule of Rates           Delhi Schedule of Rates 2014

v     Department:                             PEC University of Technology

8     The order of preference: -     In the case of discrepancy between the Schedule of Quantities, the Specifications and/ or the Drawings, the following order of preference shall be observed:-

- a. Nomenclature of item as per Schedule of Quantities
- b Special Conditions.
- c Particular Specifications.
- d. CPWD Specifications.
- e Indian Standard Specifications of B.I.S.

9 Standard CPWD Contract Form CPWD Form 7 as modified and corrected upto 28.01.2009 with amendments as per **Section-III**.

**Clause-1:-**

(i) Time allowed for submission of performance guarantee after date of issue of letter of acceptance **15 days**

(ii) Maximum allowable extension with late fee @ 0.1% per day of the Performance Guarantee beyond the period as provided in (i) above. **1-15 days**

**Clause-2:-** I. Authority for fixing compensation University Engineer (PEC University)  
under clause-2.

**Clause-3:-** Time allowed for execution of work. **45 Days**  
Authority to give fair and just extension of time: University Engineer

**Clause- 4:-** Specifications to be followed for execution of work C.P.W.D. Specifications

**Clause-5:-** Type of Work Renovation of old Building

**Clause-6** Accord sanction of substituted items. University Engineer

**Clause 7** Accord sanction of extra items. -do-

### SECTION – III

Amendments in Clauses of the General  
Conditions of Contract to CPWD Works – 2014 with latest modification  
upto date as applicable in this work conditions of contract shall be  
applicable to present work.

## SECTION –IV

### **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” 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 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.
- 1.10 Contractor shall take all precautionary measures to avoid any damage to adjoining property. All necessary arrangement shall be made at his own cost.
- 1.11 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.

- 1.12 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.
- 1.13 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.
- 1.14 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.
- 1.15 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.
- 1.16 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 supercede 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.
- 1.17 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.
- 1.18 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.
- 1.19 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.
- 1.20 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.

- 1.21 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.
- 1.2 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.
- 1.23 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.
- 1.24 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.
- 1.25 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.
- 1.26 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.
- 1.27 The excavated surplus earth shall be disposed off by the contractor as per directions of Engineer-in-Charge.
- 1.28 In the item of finishing walls with water proofing cement paint, only the plain/flat area shall be measured for payment and nothing extra shall be paid on account of pointed wall surface.
- 1.29 The excavated surplus earth of the building shall be disposed of by the contractor for all leads and lifts free of cost within campus. Dumping site/premises shall be approved from Engineer-in-charge. The contractor will not be permitted to take the surplus earth outside the campus.
- 1.30 Nothing extra shall be paid for making drip of any shape and size.
- 1.31 Nothing extra shall be paid for making any kind of groove/cut in item of plastering.
- 1.32 The layout of sanitary and electrical installation can be changed at any stage if required by the concerned University Engineer and no claim in this correction will be entertained. However, the payment shall be made as per the actual work done.
- 1.33 In case of composite tender, a copy of electrical contractor's licence duly endorsed by the Chief Electrical Inspector U.T. shall be submitted by the firm at the time of allotment of



- the work.
- 1.34 In case of composite tender, a copy of plumber's licence will be supplied by the firm at the time of the allotment of work.
- 1.35 In case department, does not specify the source of earth, the earth for filling is to be supplied by the contractor by the contractor/agency. The rate to be quoted should include all leads and lifts whatsoever. The contractor/agency will arrange earth from its own source.
- 1.36 The work during its progress and subsequently at any stage can also be inspected by the Chief Vigilance Officer/Chief Technical Examiner on behalf of Engineer in charge and agency shall responsible for compliance of the observations raised by the Chief Vigilance Officer/Chief Technical Examiner including any recoveries proposed thereof.
- 1.37 **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 SECRECY**

- 3.1 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.
- 3.2 The contract in confidential and must be strictly confirmed to the contractor's own use (except so far as confidential disclosure to sub-contractors or suppliers as necessary) and to the purpose of the contract.

- 3.3 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.

#### **4.0 LABOUR AND SECURITY**

- 4.1 The contractor will not provided any space for labour huts etc. inside the campus.
- 4.2 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.
- 4.3 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.
- 4.4 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”).
- 4.5 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.
- 4.6 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.
- 4.7 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”.
- 4.8 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.

#### **5.0 PROGRESS AND MONITORING OF WORK:**

Contractor shall give the Engineer-in-Charge every week, progress report of the work done during the previous week. Such progress report will include the project progress summary, work progress (planned v/s. actual), financial progress status, manpower deployment status, important materials consumed, materials at site at the beginning of the week, materials consumed during the month and the balance quantities at the end of week 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.

#### **6.0 SAMPLE OF MATERIALS:-**

- 6.1 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** 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.
- 6.2 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.
- 6.3 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
- 6.4 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.
- 7.0 **CEMENT & STEEL REINFORCEMENT (IF NOT STIPULATED TO BE SUPPLIED BY THE DEPARTMENT).**
- 7.1 Contractor has to produce manufacturers test certificate for each lot of Cement & Steel Reinforcement procured at site.

## **7.2 CEMENT:-**

7.2.1 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.

7.2.2 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.

7.2.3 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.

7.2.4 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.

7.2.5 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.

7.2.6 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.

## **8.0 Defect liability:**

8.1 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 manmade.

<b>Sl. No.</b>	<b>Description</b>	<b>Defect Liability</b>
(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	(a) Making good of leakage through soil / waste pipe joints. (b) Replacement of looking mirror if found wavy.

Sl. No.	Description	Defect Liability
	fittings	(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)	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.
(xiv)	Drains	(a) Repair to Drains. (b) Settlement of Drains
(xvi)	Extn Water Supply	(a) Repairs to installations & fittings.
(xvii)	General	(a) All manufacturing defects of structures / fixtures / fittings / equipments other than listed above.

## 9. Supplementary special condition:

9.1 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.

9.2 Labour Cess shall be deducted from the C.C. running & final bills and that amount will be deposited to the Chandigarh Building and Other Constructions Workers Welfare Funds.

9.3 The contractor shall have to obtain labour license from the Assistant Labour Commissioner, Chandigarh after getting his established registered under the Building and other Construction Act 1996 notified vide Chandigarh Administration No. 353-383 dt. 15.1.2010 issued by the Registering Officer, under the Building and other construction workers Act and Assistant Labour Commissioner, U.T. Chandigarh U.T.

9.4 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.

- 9.5 Sales-tax / Vat (except service tax), purchase tax, turnover tax 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. However, in respect of service tax, same shall be paid by the contractor to the concerned department on demand and it will be reimbursed to him by the Engineer-in-charge after satisfying that it has been actually and genuinely paid by the contractor.
- 9.6 The PEC 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.
- 9.7 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 – V

### **PARTICULAR SPECIFICATIONS**

**1 MEASUREMENT –**

As per CPWD Specifications.

**2 RATES: -**

- (i) The rate includes the cost of materials, labour and T&P, including mixing, placing, transportation and centring, shuttering involved in all the operations.

**3 TOLERANCES -** As per CPWD Specifications.

**4 RCC WORK (ORDINARY)**

The work shall be done in accordance with CPWD Specifications overall.

**5 REINFORCEMENT:-**

The reinforcement shall be done as per CPWD Specifications overall.

**6 BRICK WORK:-**

The brickwork shall be carried out with good quality well burnt FPS bricks of class designation 75/100 as per CPWD Specifications overall.

- 6.1** Brick work provided around shaft or lift walls or around slab cutouts shall be measured in the brick for corresponding floor level. Nothing extra shall be paid on this account.

- 6.2** M.S. Strip provided at every third course of half brick masonry shall be in single piece. If required, welding joint can be used without overlaps. Nothing extra shall be paid for welding and overlaps.

**7 WOOD WORK:-**

The wood work in general shall be carried out as per CPWD Specifications overall.

**8 STEEL WORK:-**

The work shall be carried out as per CPWD Specifications overall.

**9 FLOORING:-**

All work in general shall be carried out as per CPWD Specifications overall.

**10. FINISHING:-**

The work shall be done in accordance with CPWD Specifications overall.

All painting material of approved brand and manufacturer shall be brought to the site of work in the original sealed containers. The material brought to the site of work shall be sufficient for at least 30 days of work. The material shall be kept under the joint custody of contractor and representative of the Engineer-in-charge. The empty containers shall not be removed from the site till the completion of the work without permission of the Engineer-in-charge.

**11 SANITARY INSTALLATIONS /WATER SUPPLY / DRAINAGE:-**

The work in general shall be carried out as per CPWD Specifications overall.

Nothing extra for providing & fixing CP Brass caps /extension pieces wherever required for CP Brass fittings shall be paid beyond the rates payable for corresponding CP Brass fittings.

- 12.** Vitrified Tile Flooring:- The vitrified tiles shall be 605x 605 mm size and conforming to BIS specifications. It will be laid on prepared base with neat cement slurry/ specified adhesive as the case may be.

- 13.** False Ceiling: The false ceiling shall be as per nomenclature of schedule of quantities and confirm to BIS specifications.

## **SECTION-VI**

## **ANNEXURES**



**FORM OF PERFORMANCE SECURITY**  
**BANK GUARANTEE BOND**

In consideration of the President of India (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 a 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 \_\_\_\_\_.

## LIST OF PREFERRED MAKES FOR CIVIL / SANITARY WORKS

S.No.	Material	Preferred make
<b>CIVIL ITEMS</b>		
1. (i)	Ordinary Portland/Portland Pozzolona Cement (Grey) Lakshmi, (43 Grade)	ACC, L&T, Gujarat Ambuja, Vikram, Birla, : JK Cement, JP Rewa., Shree, J.K. M/s Binani Cement.
(ii)	White Cement	:ACC, Birla White / J. K. White
2.	Reinforcement Steel	: SAIL, TISCO, RINL
3.	Veneered Particle Board Archidply	: Novapan, Kitply, Anchor, National,
4.	Laminated Particle Board	: Novapan, Kitply, National, Archidply
5.	Flush door shutters	: Kutty Flushdoor, Kitply Industries (Swastik) Jawala,Samrat Laminate Pvt. Ltd. (Samrat) CNC Commercial Ltd.(Shivalik), SR Jindal Ply Wood Industries (Prima), Archidply,GEE door (Century) Kandran.
6.	Steel Windows/Pressed Steel frames	: San Harvic, Steelman Industries, PD Industries, Metal Windows, Chandni Industries, Ganpati Udyog (Rajpura).
	uPVC doors/windows	: Finesta or equivalent make approved by Engineer in charge
7.	Water Proofing Compound	: Fosroc, Cico, Pidilite. Impermo by M/s. Snowcem, Sika
8.	M.S. Pipe	: Tata, Jindal (Hisar), Parkash Steel Tubes, Bhushan Industries
9.	PVC Pipe & Fittings	: Supreme, AKG, Finolex, Prince, Kisan, SFMC, Diplast.
10.	Acrylic Distemper (Tractor	: Narolac , Berger (Bison Acrylic) Asian Paints Acrylic), Shalimar
11.	Dry Distemper	: Berger (Castle), JENSON & NICHOLSON (J&N), Golden
		Paints AquaLacs.
12.	Synthetic Enamel Paint	: ICI (Dulux Gloss), NeroLacs, Berger (Luxol High Gloss), Asian Paints (Premium Apcolite Gloss), Shalimar.
13.	Steel Primer	: ICI, NeroLacs, Berger, Asian Paints, Shalimar.
14.	Wood Primer	: ICI, NeroLacs, Berger, Asian Paints, Shalimar.

15.	False ceiling:-		Arm strong, USG, Dexune, AMF
16.	Mosaic tiles/Chequed tiles	:	NITCO, Modern, NTC,
17	Ceramic/glazed Tiles Sunheart	:	Kajaria, NITCO, Somany, Orient, RAK,
18.	Vitrified Tiles	:	
19.	Dash / Anchoring Fasteners	:	HILTI / Fischer
20.	Nuts / Bolts & Screws	:	GKW, Atul
21.	Stainless Steel Sink (Out of Salem Steel only)	:	AMC, UNIK, DIAMOND.
22.	Glass Mosaic Tiles	:	ITALIA, OPIO QR Eqmlent.
23.	Aluminium Sections	:	Hindalco, Jindal, Indian Aluminium CO
24.	Grouting Compound	:	Endura, Pidilite, forsac.
25.	Glass panes (Float Glass/ Toughen glass	:	Modi, Saint-Gobind, and Asahi
26.	Admixtures	:	Fosroc, MBT, Sika, CICO, Asian.
27.	Ready Made Concrete (RMC)	:	M/s L&T Concrete, Associate Concrete, J.K.Lakshmi Ultra Teck or having Plant of Minimum capacity of 60 cum/ and turn over should be minimum Rs. One Crore per month or 4000 cum/ month from last one year upto proceeding month of opening of tender.

#### **Public Health Items:**

1.	CP Fittings/ Mixer Pillar taps washers:	Kindston, Gem, Parko, Techno, JAL Sieko, ESS ESS, Jaquar, Crabtree, NOVA, EXCEL
2.	CP Accessories:	Kingston, Gem, Parko, Gem, JAL, Seiko, ESS,EESS, Jaquar
3.	G.I. Pipes:	B.S.T, Jindal (Hissar), Tata Steel Tubes Ltd, Prakash, Surya,
4.	G.I. Fittings:	Unik, KS AMCO, AVR, NVR, RR, SUW

#### **Electrical Items:**

1.	Electric Cables (Submersible):	Finolex, Havells
2.	Main Switch:	Havells, Standard, Crompton
3.	MCCB/ELCCB/Shut-Cabacter:	L&T, ABB, Siemens, GE, Havells
4.	Metering Equipments:	AE/L&T/BCH
5.	On-Off Sleeter:	L&T/ BCH

### **TABLE OF MILE STONE (S)**

**Name of Work:** Acoustic Provision for L-20 at PEC, Sector-12, Chandigarh

**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.	25 %	12 days	1.25% of Tendered Amount
2.	50 %	24 days	1.25% of Tendered Amount
3.	75 %	35 days	1.25% of Tendered Amount
4.	Completion of work i/c testing etc. complete	45 days	1.25% of Tendered Amount