



Er. H.P. Singh
Executive Engineer

ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਜਲੰਧਰ

PTU PUNJAB
TECHNICAL
UNIVERSITY

Esid, Under Punjab Technical University Act, 1996
(Punjab Act No. 1 of 1997)

Ref. No. PTU/CC/398/27593

Dated 1-6-2011

The Director,
Department of Technical Education and
Industrial Training, Punjab,
Plot No. 1, Sector-36A, Chandigarh.

Sh. H.S. Bains,
Registrar, Punjab Technical University,
Jalandhar.

Sh. A. N. Chowdhry,
3-B, Jyoti Nagar, Jalandhar.

Sh. S. R. Aggarwal
Chandigarh – by e-mail

Sh. Rajiv Aggarwal,
M/s Archigroup Architects,
A-14, Sector-15, Noida -201301.

Sh. S.L. Kaushal,
Advisor/Architecture,
2865, Sector 42-C, Chandigarh.

Dr. Nachattar Singh,
Advisor to VC and Dean (P&D),
Punjab Technical University, Jalandhar.

Sh. N. S. Bhatti,
3040, Sector 19-D, Chandigarh

Sh. P. S. Saini,
Hospital Engineer, PGI
H.No. 3334, Sector 24-D, Chandigarh

Sh. Inderjit Kumar,
House No. 116, Phase 3B/1,
S.A.S. Nagar, Mohali.

Sub : Construction of new campus of Punjab Technical University – 26th meeting of the Standing Building Construction Committee.

Dear Sir,

Please find enclosed herewith minutes of the above said meeting for kind information and further necessary action please. Comments, if any, may please be forwarded within 10 days of issue of this letter.

Thanking you

Yours Sincerely,

(H. P. Singh)
Executive Engineer

Copy to :

Dr. R. S. Khandpur, Director General, PGSC, SCO 60-61, Sector 34-A, Chandigarh for kind information please.

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PUNJAB TECHNICAL UNIVERSITY, JALANDHAR

Minutes of the 26th Meeting of the Building Construction Committee held on 26.05.2011 under the Chairmanship of Dr. R. S. Khandpur, Director General, PGSC in his office at Chandigarh.

Present :

1. Sh. S.L. Kaushal, Chief Architect (Retd.), Punjab
 2. Dr. Nachhattar Singh, Advisor to VC and Dean (P&D), PTU
 3. Sh. H.S. Bains, Registrar, PTU
 4. Sh. Mohanbir Singh, Additional Director, DTE & IT, Punjab.
 5. Sh. N. S. Bhatti, Chief Engineer (Retd)
 6. Sh. A. N. Chowdhry, Chief Engineer (Retd),
 7. Sh. S. R. Aggarwal, Chief Engineer (Retd)
 8. Sh. Inderjit Kumar, Executive Engineer (Retd),
 9. Sh. P. S. Saini, Hospital Engineer, PGI
 10. Sh. H. P. Singh, Executive Engineer, PTU
 11. Sh. Rajiv Aggarwal, Architect
 12. Ms. Mansi Bedi, Architect
 13. Sh. Hitesh Gupta, Structural Engineer
 14. Sh. Vikram Kukreja, HVAC and Fire Fighting Consultant
 15. Sh. Linus Lopez, Electrical Consultant.
- } From Archigroup
Architects

Item No. 26.1 : To confirm the Minutes of 25th meeting of Standing Building Construction Committee held on 20.04.2011.

The minutes of 25th meeting of Standing Building Construction Committee held on 20.04.2011 were confirmed by all the members.

Item No. 26.2 : Action taken on various items discussed during previous meetings of Standing Building Construction Committee.

Action taken on various items discussed during previous meeting of Standing Building Construction Committee is as under:

- Applications for recruitment of one Asstt. Executive Engineer (Civil) and one Asstt. Engineer (Civil) required for construction cell has been received. It was informed by EE/PTU that there has been a very poor response and in total only six applications (four for AEE and two for AE) have been received. Majority of the applications submitted are not meeting the requirements.
- The bids for appointment of Architect for Architectural services for establishment of new Punjab Institute of Technology at Mansa, Ludhiana & Barnala, PTU's Regional campus at Mohali and other future works has been received, technical bids opened and their evaluation is in progress.



- The Architect has submitted the design basis reports in respect of structural design, HVAC, Electrical, Plumbing and Fire Fighting systems of two towers, one library and one seminar hall of proposed PIT at main campus, Kapurthala and same are being discussed in the present meeting.

Item No. 26.3 : To discuss and approve the design basis reports submitted by the Architect in respect of structural design, HVAC, Electrical, Plumbing and Fire Fighting systems of two towers, one library and one seminar hall of proposed PIT at main campus, Kapurthala.

The design basis reports in respect of structural design, HVAC, Electrical, Plumbing and Fire Fighting systems of two towers, one library and one seminar hall of proposed PIT at main campus, Kapurthala was discussed in detail and committee's observations are as under:

1. Structural Design:

- It was advised to the Architect that all the designs must be done by following the codal provisions.
- The structural design shall be got proof checked by from an independent expert consultant/Agency/Institution.

2. HVAC:

- The various options suggested by the Consultant in the report were discussed in details and after lot of deliberation & looking the nature of requirements for the proposed buildings, it was decided that VRV/VRF scheme will be adopted for HVAC works.
- It was advised by the consultant that skilled manpower will be required for maintenance of VRV/VRF equipments. To take care of this aspect, it was decided that long term maintenance contract shall also be included in the scope of work while inviting tenders for execution of HVAC works. By following this procedure, the rates for maintenance will also be competitive.
- Heating systems shall be provided for Library and Seminar halls.

3. Plumbing Works:

- The fire tank/pumps etc. already installed for administrative building shall be used for the proposed buildings.
- The measures to be taken for ground water treatment shall be decided after testing of available water. It was advised that available water may be got tested as per codal provisions.
- For pipes above 80mm dia, Ductile Iron (DI) pipes will be used in place of CI LA pipes (para 4.1 of report).
- Cleanouts shall not be provided (para 5.5 of report).



- The possibility of using the existing STP after augmentation of its capacity for the proposed buildings may be explored. In case, augmentation is not possible, new STP (for the proposed buildings) may be located in the vicinity of the existing STP and in this case, modular system may be adopted. This will reduce the maintenance cost as same team will be able to run and maintain the STPs. It was also suggested that STP for residential area may also be planned in the same location. By locating all STPs at one location, there will also be a saving of land in addition to saving in running and maintenance cost.
- MRB technology will be used for new STP (para 7.2 of report).
- It was advised to check with 'Ministry of Environment' whether dual plumbing is mandatory or not and water supply system is designed accordingly.

4. Electrical Works:

- It was decided to have the following utilization diversities applied to the total connected load:
 - a) First diversity of 0.8 at the floor level.
 - b) Second diversity of 0.8 at building level.
 - c) Third diversity of 0.7 at the substation level.

- By following the above, the approximate diversified load works out to be:

- a.) Phase I of college buildings (Two college buildings, one library and one seminar hall): Connected load – 3169 kW, Diversified Load – 1419 kW.
- b.) Total Load: Connected load – 7043kW, Diversified Load – 3155 kW

The transformer capacities will be worked out accordingly.

- It was also discussed in the course of the meeting that the Caparo School electrical loads (approx. 250kW) would also required to be fed. It is not possible to feed this load from any of the existing or planned substations on LT. It was therefore agreed that a new 11kV/ 0.415kV substation may be provided for Caparo. It was further decided to lay an 11kV Ring Main covering the existing Administrative Block Substation, proposed Academic Sub-station and the Caparo School. This will be done with sufficient loop to connect to the Academic Block substation when it will be ready. This 11kV Ring Main would be suitably connected to the Sports Complex Substation as & when required.
- The issue of using LED lights for emergency light would be reviewed at the time of tender design.
- It was advised that PTU team may visit two or three colleges having facilities similar to the facilities being proposed in PIT, Kapurthala and examine their connected loads, facilities provided etc. so that the same may be used as benchmark for the proposed buildings.



5. Fire Fighting Systems:

- As expert for Fire Fighting Systems showed his inability to attend the meeting, it was decided that this report shall be discussed in the next meeting.

The Architect was advised to **start** detailed designing of the services (except Fire Fighting) after taking into consideration the **various** points as discussed above and also submit the final design reports for presentation in the **next** meeting of Building Construction Committee.

The meeting ended with a vote of thanks to the Chair.

