



Ref. No. PTU/OA/const./18168

Date: 14/08/07

To,

- i) Sh. N.S. Kalsi, IAS, Secretary (Employment Generation) Room No. 419, 4th Floor, Mini Secretariat, Sector - 9, Chandigarh
- ii) Dr. R. S. Khandpur, Director General, Pushpa Gujral Science City, SCO 60-61, 3rd Floor, Sector -34, Chandigarh
- iii) Sh. Chandra Mohan, H. No. 202, Sector -36A, Chandigarh.
- iv) Sh. S. L. Kaushal, Advisor (Architecture), 2865, Sector - 42C, Chandigarh.
- v) Sh. A. N. Chowdhry, Chief Engineer (Const.), PTU, Jalandhar.

Subject: - Construction of New Campus of Punjab Technical University - 16th Meeting of the Standing Building Construction Committee.

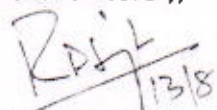
Dear Sir,

16th Meeting of the Standing Building Construction Sub Committee shall be held under the Chairmanship of Sh. P. Ram, IAS, Principal Secretary, Technical Education, Punjab at 1530 hrs. on 23.08.2007 in his office in Mini Secretariat, Punjab, Sector -9C, Chandigarh. Agenda and Agenda note for the meeting is enclosed.

You are requested to kindly make it convenient to attend the meeting.

Thanking you.

Yours sincerely,


(Dr. R. P. Singh)
Dean (Academics)

CC to:-

1. PS to Principal Secretary, Technical Education, Govt. of Punjab for the kind information of the Principal Secretary, Please.
2. Sh. Rajiv Aggarwal of M/S Archigroup Architects, 5/304, Sikka Complex, Preet Vihar Community Center, Vikas Marg, Delhi

OK

**PUNJAB TECHNICAL UNIVERSITY
JALANDHAR**

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**AGENDA FOR SIXTEENTH MEETING OF
STANDING BUILDING CONSTRUCTION SUB COMMITTEE
TO BE HELD
IN THE OFFICE OF SH. P. RAM, IAS
PRINCIPAL SECRETARY, TECHNICAL EDUCATION, PUNJAB,
AT MINI SECRETARIAT (PUNJAB)
SECTOR - 9 (C)
CHANDIGARH
ON 23.08.2007 AT 1530 HRS.**

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Item No. 16.1 : To decide specifications of Roads, Parking and foot paths around Administration Building.

In the fifteenth meeting, it was decided to adopt the following type of Roads around the Administration Building.

- Roads : Concrete Roads
- Parking : Concrete Pavers
- Foot Paths : Concrete Pavers

M/s Archigroup Architects have submitted the cost for the roads and the Parking Area vide their reference no. AA(R)/PTU/2330 dated 17-07-07 as mentioned below (annexure on Page 6-7) :

1.	Concrete Roads	:	171 Lacs
	Parking Area with Pavers.	:	18 Lacs
	Total	:	189 Lacs

He has intimated that if black top roads and parking with designed crust thickness of 25 inches is provided, the cost shall be Rs. 160 lacs. The Specifications adopted for the black top roads in Pushpa Gujral Science City were studied and there 13 inches crust thickness has been provided, which though insufficient as compared to the designed specifications, but are functioning satisfactorily since last three years. Moreover the Jalandhar Kapurthala Highway has the same crust thickness. University campus being adjoining, nature of soil is same and traffic is not expected to be more than that in the Science City. The cost of black top Roads and Parking with specifications provided in Science City works out Rs. 85 Lacs giving a saving of Rs. 1.00 Crore approximately. PTU intends to adopt same specifications.

2. For the footpaths 50 mm thick pavers over 200 mm thick base course with 25 mm thick cushion of sand at a cost of Rs. 50 lacs have been proposed as per recommendation of the IRC and IS Codes. These specifications are proposed to be accepted.

The matter is placed before the Committee for approval so that estimate is prepared and tenders are invited.

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Item No. 16.2 : Drainage System In the New Campus of PTU.

In the last meeting of the Committee, it was decided that drainage system of the campus shall be discussed with the Chairman and Sh. Chandra Mohan. Proper plans for the drainage of Storm Water from the Roads and Parking and Rain Water from the roof tops have been evolved. Rain Harvesting is proposed to be adopted. Sh. Rajiv Aggarwal, Architect shall explain the proposal in the meeting.

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Item No. 16.3 : Payment of Architect's Bills for the 2nd Phase :-

M/s Archigroup have prepared plans of following buildings of 2nd phase.

- i) Construction of Guest House
- ii) Construction of Sports Complex
- iii) Construction of Convention Centre
- iv) Construction of different types of Houses

Type I (540 Sq ft – 16 units) , Type II (860 Sq ft – 18 units), Type III (1050 Sq ft – 20 units), Type IV (1400 Sq ft – 6 units), Type V (2700 Sq ft – 4 units)

The Architecture Sub Committee/Standing Building Construction Committee has approved the Architectural design of the above said buildings. The Architects have raised bills for the work done by them. The Board of Governors has authorized this committee to approve expenditure on buildings. For the time being construction is not proposed to be taken in hand. But it is proposed that detailed plans and specifications be decided on the basis of which detailed estimates may be prepared by the Architects and submitted to the University for approval. With this time involved in planning will be saved and tenders can be called in no time when it is decided to take up construction. Further, variations and deviations shall be minimized.

Architects have submitted bills upto 30% stage of fee payment. It is proposed to release payment @ 15% immediately and the balance 15% on the receipt of detailed estimates. For the houses payment may be released for the number of houses for which Architects had been requested to prepare plans and not on the basis of one block of each category as has been informally discussed in the last meeting.

The matter is placed before the Committee for approval.

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Item No. 16.4 Approval of White Sand Stone cladding (Non Schedule Item) In the Core Block of the Administration Building.

Architects have now proposed finishing of façade of Core Block with white sand stone cladding instead of Red sand stone proposed originally. No rate for white sand stone is included in the BOQ and thus it becomes a N.S. Item, the rate of which shall be as per DSR with current index. Total cost shall be approximately Rs. 20.00 lacs with an additional expenditure Rs. 5.37 lacs.

The proposal was put up to the Sub Committee headed by Dr. R.S. Khandpur for approval in its meeting held on 04-07-07. Drawings were studied and Sh. S. L. Kaushal, Advisor (Architecture) confirmed that white sand stone is required to give distinction to the blocks.

The Committee accepted the proposal and decided that its approval may be obtained from this committee.

The matter is placed before the Committee for approval.

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Item No. 16.5 Extension in the services of Sh. A. N. Chowdhry, Chief Engineer (Construction) and Sh. N.S. Bhatti, Advisor Electrical for one year

In the 10th meeting, the committee approved the extension in Services of the Chief Engineer (Construction) and Advisor (Electrical) for one year w.e.f 09-09-06 and 12-11-06 respectively. Construction is likely to continue at least for one year and the officers have requested for extension in their services. They have requested for enhancement of their salaries suitably.

The matter is placed before the Committee for approval the extension in service and decided about the enhancement in their salaries.

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Annexure

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Archigroup Architects (Regd.)

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E-MAIL : mail@archigroup.org WEBSITE : www.archigroup.org

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Reference No. AA (R) /PTU/ 2331
Date July 17, 2007

The Chief Engineer,
Punjab Technical University,
Ladowali Street,
Jalandhar

Project: The new campus of the Punjab Technical University, Jalandhar.
Subject: Construction of roads and parking around the administration building.

Sir,

Reference is drawn to your letter no. PTU/CE/17727 dated 5.7.2007 regarding the use of roads and pavers for the parking areas. In this regard we bring the following to your kind attention:

1. Concrete Roads: It is recommended that the roads in the campus roads should be designed for 10 msa (million standard axels). On on the soil characteristics at site, the following is specified for concrete roads:
 - a. 150 mm thick granular sub base;
 - b. 150 mm thick dry lean concrete;
 - c. 250 mm thick concrete.

The unit cost of such a road is estimated to be about Rs. 1850/- sq. mt. If concrete roads are limited to the movement areas, the estimated cost of those will be about Rs. 171 lakhs for about 9,240 sq. mt. road-area. The unit cost of the pavers to be used in the parking areas is estimated to be about Rs. 1100/- sq. mt. including drainage system bringing the cost to about Rs. 18.0 lakhs for about 1,630 sq. mt. parking area. Thus the total cost of the concrete roads and pavers in the parking is estimated to be about Rs. 189 lakhs.

2. Bituminous Roads For the same design parameters as above, the following is specified in the IRC 37-2001 (copy attached):
 - a. 300 mm Granular Sub-base (100 mm down);
 - b. 250mm Wet Mixed Macadam in three layers of varying thickness;
 - c. 70mm mm thick Dense Bituminous Macadam (50mm down); and
 - d. 40mm Bituminous concrete.

The unit cost of such a road is estimated to be about Rs. 1,465/- sq. mt. bringing the total estimated cost of this component to about Rs. 160 lakhs.

In addition to the above, the estimated cost of the footpaths, curb-stones etc. is about Rs. 75 lakhs which will be common to both the types of roads.

It is requested that the rough cost estimate and the specifications may please be approved so that we can proceed with the preparation of detailed estimates and tender documents.

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ARCHITECTURAL ARCHITECTS (Pvt.)

We will be honored to discuss the proposal regarding the roads with the chairman of the Standing Building Committee and Mr. Chandra Mohan. Any convenient date after the July 27th 2007 may be fixed as the undersigned will be traveling abroad.

Thanking you,

Truly yours,

Rajiv Aggarwal

Encl: as above

CC The Registrar, Punjab Technical University, Ladowali Street, Jalandhar