



Er. H.P. Singh
Executive Engineer

ਪੰਜਾਬ ਟੈਕਨੋਕਲ ਯੂਨੀਵਰਸਿਟੀ ਜਲੰਧਰ

PTU PUNJAB
TECHNICAL
UNIVERSITY

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

Ref. No. PTU/CC/496

Dated 06/07/11

Sh. Chander Mohan,
House No. 202, Sector 36-A, Chandigarh.

Sh. S.L. Kaushal,
Chief Architect/Punjab (Retd),
2865, Sector 42-C, Chandigarh.

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

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

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

Dr. Buta Singh (Special Invitee),
Dean (Academics), Punjab Technical University, Jalandhar.

**Sub : Construction of new campus of Punjab Technical University – 27th meeting of the
Standing Building Construction Committee.**

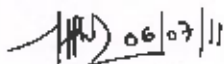
Dear Sir,

27th meeting of the Standing Building Construction Committee shall be held under the Chairmanship of Dr. R. S. Khandpur, Director General, PGSC at 11.30 hours on 13.07.2011 in his office at SCO 60-61, Sector 34-A, Chandigarh. Agenda and Agenda note for the meeting are enclosed.

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

Thanking you

Yours Sincerely,



(H. P. Singh)

Executive Engineer

Copy to :

- Dr. R. S. Khandpur, DG, PGSC, SCO 60-61, Sector 34-A, Chandigarh.
- Sh. Rajiv Aggarwal, M/s Archigroup Architects, A-14, Sector-15, Noida -201301.

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Punjab Technical University Jalandhar

Kapurthala Campus : Jalandhar-Kapurthala Highway, Post Bag No. 01, Kapurthala.
Mobile : 9501109042 www.ptu.ac.in E-Mail : exeplu@gmail.com

PUNJAB TECHNICAL UNIVERSITY, JALANDHAR

Sub : Agenda for the 27th meeting of the Standing Building Construction Committee.

- Item No. 27.1 : To confirm the Minutes of 26th meeting of Standing Building Construction Committee held on 26.05.2011.
- Item No. 27.2 : Action taken on various items discussed during previous meetings of Standing Building Construction Committee.
- Item No. 27.3 : To finalize the 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.
- Item No. 27.4 : To discuss and approve the rough cost estimate (based upon plinth area rates of CPWD) submitted by the Architect for two towers, one library and seminar hall of the proposed Punjab Institute of Technology (PIT) at PTU's main campus at Jalandhar-Kapurthala Road.
- Item No. 27.5 : To discuss and finalize the methodology/procedure to be adopted for invitation & finalization tenders, project management including supervision of works in respect of PIT Kapurthala works.
- Item No. 27.6 : To discuss and approve the 'Finishing Schedule' submitted by the Architect for two towers, one library and seminar hall of the proposed Punjab Institute of Technology (PIT) at PTU's main campus at Jalandhar-Kapurthala Road.
- Item No. 27.7 : Any other point with the permission of the Chair.



PUNJAB TECHNICAL UNIVERSITY, JALANDHAR

Sub : Agenda Note for the 27th meeting of the Standing Building Construction Committee.

Item No. 27.1 : To confirm the Minutes of 26th meeting of Standing Building Construction Committee held on 26.05.2011.

The minutes of 26th meeting of Standing Building Construction Committee held on 26.05.2011 were circulated on 01.06.2011. Following comments have been received against item No. 26.3 (Para 3) of the minutes of the meeting from Sh. S. R. Aggarwal, Chief Engineer (Retd), special invitee in 26th meeting:

- 1) To ensure supply of potable/ quality water, it involves two activities i.e.
 - i) Treatment of the water if so required. Decision to be taken after testing of the available underground water (recorded in the Minutes)
 - ii) Disinfection of treated water. Herein it was pointed out that disinfection with UV Sterilizer is not suitable for piped water supply. Therefore, PTU should adopt any other process of disinfection which has residual effect to guard against any bacterial contamination of water during transmission through pipe line network. It was suggested that gaseous chlorine shall be most effective and economical mode of disinfection.
- 2) For a public building it is always preferred to use GI pipe in wall chases to the various fixtures. Proposed use of CPVC pipes need to be further evaluated.
- 3) **Technology of STP:** As the treated effluent is proposed to be recycled for use in horticulture/ flushing, therefore, technology for treatment of the sewage effluent should be such which is capable of providing requisite quality of treated effluent (BOD < 5). Accordingly it was suggested that either of the technologies i.e. MBR or SBR should be adopted after working out its economic viability. (Technology mention in the Minutes as MRB need to be corrected).

The above is to be discussed and minutes are to be confirmed.

Item No. 27.2 : 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:

- Three stage evaluation in respect of 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 have been completed and the same is being discussed in the present meeting.

- The Architect has started detailed designing for structure, HVAC, Electrical, Plumbing and Fire Fighting systems of two towers, one library and one seminar hall of proposed PIT at main campus, Kapurthala. The Architect is presenting a schedule for completion of these activities in the present meeting.

Item No. 27.3 : To finalize the 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.

Based upon the procedure and tender documents discussed/approved in 23rd, 24th and 25th meeting, open bids in two packets system through press advertisement were invited by PTU for this work. As per bid conditions, the distribution of scores for evaluation and finalization of bids are as under:

- | | |
|------------------|----------|
| 1. Technical Bid | 60 marks |
| 2. Presentation | 20 marks |
| 3. Financial Bid | 20 marks |

Fifteen bids were received and technical bids were opened on 19.05.2011.

In terms of 'Procedure for evaluation of bids' forming part of bid document, based upon the scores (out of 60 marks) obtained by various bidders in technical evaluation, top five bidders, as listed below, were invited to make presentation in front of 'Board of Assessors':

1. M/s Archigroup Architects, Noida
2. Suresh Goel & Associates, N. Delhi
3. Morphogenesis, New Delhi
4. Architects Atelier, Chandigarh
5. Design Associates Inc., Noida

The presentations were made by all the five bidders on 27.06.2011 in the office of Director General, PGSC at Chandigarh. Further, as per bid conditions, the scores obtained by the bidders in technical evaluation (out of 60 marks) and in the presentation (out of 20 marks) have been added and financial bids of top three bidders (as per merit list prepared based upon total scores obtained by the bidders out of 80 marks) have been opened on 01.07.2011.

The rates quoted by these three bidders are as under:

S. No.	Agency	Rates quoted
1.	M/s Archigroup Architects, Noida	2.05%
2.	Suresh Goel & Associates, N. Delhi	1.90%
3.	Morphogenesis, New Delhi	2.00%

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The details of the scores obtained by top three bidders after complete evaluation in three stages (i.e. Technical, Presentation and Financial) is as under:

S. No.	Agency	Scores obtained in			
		Technical Evaluation	Present-ation	Financial evaluation	Total
1.	M/s Archigroup Architects, Noida	60	19	18.54	97.54
2.	Suresh Goel & Associates, N. Delhi	59	13	20.0	92.00
3.	Morphogenesis, New Delhi	54	18	19.0	91.00

Thus, M/s Archigroup Architects, Noida have scored the highest overall scores and is eligible for award of work/negotiations in terms of bid conditions.

Committee is requested to discuss and finalize its recommendations for appointment of the Architect.

Item No. 27.4 : To discuss and approve the rough cost estimate (based upon plinth area rates of CPWD) submitted by the Architect for two towers, one library and seminar hall of the proposed Punjab Institute of Technology (PIT) at PTU's main campus at Jalandhar-Kapurthala Road.

Based upon the plans approved in 23rd meeting, the Architect has submitted the rough cost estimates based upon plinth area rate of CPWD for two towers, one library and seminar hall of the proposed Punjab Institute of Technology (PIT) at PTU's main campus at Jalandhar-Kapurthala Road. The total estimated cost for these works is Rs. 97.71 Crores. The details and copy of the estimate submitted by the Architect is also placed at Annexure-A.

Item No. 27.5 : To discuss and finalize the methodology/procedure to be adopted for invitation & finalization tenders, project management including supervision of works in respect of PIT Kapurthala works.

The Architect has submitted the estimates for Punjab Institute of Technology Kapurthala works for an amount of Rs. 97.71 crores. Committee is requested to discuss the following issues pertaining to these works and approve the methodology/procedure to be adopted for invitation & finalization tenders, project management including supervision of works in respect of these works. :

1. Packages (Splitting of works for invitation and finalization of contractors/ agencies for execution of works)
2. Mode of invitation of tenders – Open tenders under two packet system or short-listing/pre-qualification of bidders at first stage.
3. Project Management including supervision of works.

B

Item No. 27.6 : To discuss and approve the 'Finishing Schedule' submitted by the Architect for two towers, one library and seminar hall of the proposed Punjab Institute of Technology (PIT) at PTU's main campus at Jalandhar-Kapurthala Road.

The Architect has submitted the 'Finishing Schedule' for two towers, one library and seminar hall of the proposed Punjab Institute of Technology (PIT) at PTU's main campus at Jalandhar-Kapurthala Road. The same is placed at Annexure-B. Committee is requested to discuss and consider approval of the same.

Item No. 27.7 : Any other point with the permission of the Chair.

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ANNEXURE – A

PUNJAB TECHNICAL UNIVERISTY

**ABSTARCT OF ESTIMATES FOR COLLEGE BUILDINGS, LIBRARY AND SEMINAR
HALL AT PTU'S MAIN CAMPUS AT JAL-KPT ROAD**

S. No.	Description	Area (In Sqm)	Total Cost (In lacs of Rs)	Cost (In Rs)	
				per Sqm	per Sft
1	College Building - 1	12962.42			
	Civil works		2,754.54	21,250.20	1,974.93
	Public Health		204.79	1,579.87	146.83
	Electrical Works		747.03	5,763.04	535.60
	Fire Fighting		60.18	464.27	43.15
	Passenger Lifts		75.60	583.22	54.20
Total			3,842.14	29,640.60	2,755.00

S. No.	Description	Area (In Sqm)	Total Cost (In lacs of Rs)	Cost (In Rs)	
				per Sqm	per Sft
2	College Building - 2	12857.29			
	Civil works		2,725.98	21,201.82	1,970.43
	Public Health		203.13	1,579.88	146.83
	Electrical Works		740.96	5,762.96	535.59
	Fire Fighting		59.55	463.16	43.04
	Passenger Lifts		75.60	587.99	54.65
Total			3,805.22	29,595.81	2,751.00

S. No.	Description	Area (In Sqm)	Total Cost (In lacs of Rs)	Cost (In Rs)	
				per Sqm	per Sft
3	Central Library & Canteen	5516.71			
	Civil works		1,280.62	23,213.47	2,157.39
	Public Health		87.97	1,594.61	148.20
	Electrical Works		175.94	3,189.22	296.40
	Fire Fighting		62.23	1,128.03	104.84
	Passenger Lifts		18.00	326.28	30.32
Total			1,624.76	29,451.61	2,737.00

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S. No.	Description	Area (In Sqm)	Total Cost (In lacs of Rs)	Cost (In Rs)	
				per Sqm	per Sft
4	Seminar Hall	302.55			
	Civil works		93.06	30,758.55	2,858.60
	Public Health		5.09	1,682.37	156.35
	Electrical Works		10.20	3,371.34	313.32
	Fire Fighting		2.38	786.65	73.11
	Passenger Lifts		-	-	-
Total			110.73	36,598.91	3,401.00

S. No.	Description	Area (In Sqm)	Total Cost (In lacs of Rs)	Cost (In Rs)	
				per Sqm	per Sft
5	Open Air Theatre	234.64			
	Civil works		14.47	6,166.89	573.13
	Public Health		-	-	-
	Electrical Works		-	-	-
	Fire Fighting		-	-	-
	Passenger Lifts		-	-	-
Total			14.47	6,166.89	573.00

S. No.	Description	Area (In Sqm)	Total Cost (In lacs of Rs)	Cost (In Rs)	
				per Sqm	per Sft
	Overall (Without AC)	31873.61			
	Civil works		6,868.67	21,549.71	2,002.76
	Public Health		500.98	1,571.77	146.08
	Electrical Works		1,674.13	5,252.40	488.14
	Fire Fighting		184.34	578.35	53.75
	Passenger Lifts		169.20	530.85	49.34
Grand Total for all works except AC			9,397.32	29,483.08	2,740.00

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S. No.	Description	Area (In Sqm)	Total Cost (In lacs of Rs)	Cost (In Rs)	
				per Sqm	per Sft
Air-Conditioning					
1	College Building 1	6232.06	139.29	2,235.00	207.71
2	College Building 2	6090.22	136.12	2,235.00	207.71
3	Library	4218.33	94.28	2,235.00	207.71
4	Seminar Hall	157.72	3.53	2,235.00	207.71
Total		16698.33	373.21	8,940.00	831.00

GRAN. GRAND TOTAL INCLUDING AC WORKS

9,770.53 LACS

OR

97.71 CRORES

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PUNJAB TECHNICAL UNIVERSITY, PHASE II A
PRELIMINARY COST ESTIMATE

AREA DETAILS

SUMMARY- PRELIMINARY ESTIMATE

S. No.	Building / Component	Plinth Area (Sqm)	Cost in Rs	Reference
1	2	3	4	5
1	College Building 1	12,962.42	37,62,93,466.25	Ref. Annexure 1
2	College Building 2	12,857.29	37,25,15,280.34	Ref. Annexure 2
3	Central Library including cafeteria	5,516.71	16,04,76,115.06	Ref. Annexure 3
4	Seminar Hall	302.55	96,56,338.88	Ref. Annexure 4
5	O.A.T.	234.64	14,46,717.97	Ref. Annexure 5
6	Sub Total for Buildings	31,873.61	92,03,87,918.50	
7	Other Building Expenses (Richer Specifications, Air conditioning)		5,66,72,280.83	Ref. Annexure 6
8	Total including other building expenses (6 + 7)		97,70,60,199	