

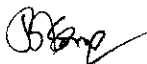
**UNIVERSITY GRANTS COMMISSION**  
**NEW DELHI**

**Report of the Expert Committee constituted to examine the proposal of Sant Longowal Institute of Engineering and Technology, Longowal, Sangrur (Punjab) for conferring Deemed to be University status.**

(1) The Chairman, University Grants Commission constituted an Expert Committee comprising of the following members to examine the proposal of Sant Longowal Institute of Engineering and Technology, Longowal, Sangrur (Punjab) for grant of Deemed to be University status under Section 3 of the UGC Act, 1956.

- |    |   |                  |
|----|---|------------------|
| 1. | Prof. B.H. Briz Kishore<br>Member, UGC,<br>Chairman, National Council of Rural Institute<br>Shankar Bhavan, Fateh Maidan Road,<br>Hyderabad-500 004 (Andhra Pradesh). | Convenor         |
| 2. | Prof. M.P. Kapoor<br>Former Director,<br>Thapar Institute of Engineering & Technology,<br>R/o Y-8A, 1st Floor,<br>Hauz Khas, New Delhi-110 016                        | Member           |
| 3. | Prof. R.M. Vasagam<br>Vice-Chancellor<br>Dr. M.G.R. Educational & Research Institute<br>EVR Periyar Salai, Maduravoyal,<br>Chennai-600 095 (TN)                       | Member           |
| 4. | Prof. P.B. Sharma<br>Principal, Delhi College of Engineering<br>Bawana Road, New Delhi-110 042  | Member           |
| 5. | Prof. N.K. Gupta<br>Henry Ford Chair-Emeritus Professor<br>Department of Applied Mechanics<br>IIT, Hauz Khas, New Delhi.  | Member           |
| 6. | Shri V.K. Jaiswal<br>Under Secretary<br>University Grants Commission,<br>New Delhi-110 002  | Member Secretary |

The Expert Committee visited the Institute on 30<sup>th</sup> and 31<sup>st</sup> January, 2006.

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**Background:**

(2) The Govt. of India, Ministry of Human Resource Development had sent a proposal to UGC for grant of Deemed to be University status to Sant Longowal Institute of Engineering & Technology, Longowal, Sangrur (Punjab) vide their letter No.F.9-42/2001 (U.3) dated 4<sup>th</sup> October, 2002.

(3) The UGC at its meeting held on 13<sup>th</sup> August, 2004 (Item No.5.01) decided that the old guidelines of the year 2000 for considering the proposals for declaring an Institution as Deemed to be University be continued till the new guidelines are approved.

(4) Sant Longowal Institute of Engineering & Technology, Longowal, Sangrur, made a presentation before the UGC Screening Committee on 22<sup>nd</sup> November, 2004. The observations and recommendations of the Screening Committee are given below:-

1. The Institute has a standing of 15 years.
2. The Institution is fully funded by M/HRD, Govt. of India.
3. Student Admission is on All-India basis.
4. The Institute was well-structured, and runs, modular academic programmes with vertical mobility from certificate, Diploma, the UG Degree, PG Degree to Ph.D. levels, with multiple entry and exit possibilities.
5. All programmes are approved by AICTE and many of them are accredited by NBA (although item 13 in consolidated information of Institute is silent on this).
6. Good placement record for outgoing students.
7. The Institute has well developed physical infrastructure.
8. 8 Departments are guiding research upto Ph.D. 25 students obtained Ph.D. so far.
9. Many projects sponsored by Govt. agencies have been undertaken.
10. The Institute has obtained NOC from the Government and University.
11. Following weaknesses were also observed.
  - A. Many of the sanctioned posts particularly at Professor level, are lying vacant for quite some time.
  - B. Interaction with industry, particularly in testing consultancy etc. is yet at low level.
  - C. Research publications, particularly in referred journals are yet on the low side.

(5) The (Screening) Committee recommended further consideration of application for Deemed to be University status, after the Institute takes steps to recruit at least 60% of unfilled posts at Professor level and makes series efforts to take care of weaknesses at (A) & (B).

(6) The Expert Committee took note of the observations made by the UGC Screening Committee and had detailed deliberations with the Institute in the matter.

### Introduction

(7) The Expert Committee visited the Institute for an on the spot assessment of the infrastructural facilities and academic programme of the Institute. The committee was welcomed and received in the Institute by Dr. N.P.Singh, Director, along with his faculty colleagues and the Deans of the Institute. In their presentation before the committee, Institute highlighted the ongoing academic programmes and their future plans.

(8) The Institute is managed by a Board of Governors who are eminent personalities in administration and academia. The Board is headed by Sh. Jai Singh Gill, IAS, Chief Secretary to Govt. of Punjab. Other administrative/Government members includes Sh. J.B. Goel, IAS, Secretary to Govt. of Punjab, Department of Technical Education & Indl. Training, Sh. R.K. Verma, IAS, Director, Department of Technical Education & Indl. Training, Punjab, Sh. Vijay Bharat, Director(Technical), MHRD, New Delhi., Ms. N. Sumati, Director(Finance,, MHRD, New Delhi, The Member-Secretary, AICTE, New Delhi, The Advisor(FD), AICTE, New Delhi. Sh. H.S. Nanda, PCS, Secretary, State Board of Technical Education & Industrial Training, Punjab, Sh. Y.P. Sharma, Director (Trainings), Ministry of Labour, New Delhi. Academic members includes, Dr. Moudin, Director, NIT, Jalandhar, Dr. P.K. Bansal, Principal, Malout Institue of Management & Information Technology, Malout.

(9) The committee had deliberations with Dr. N.P.Singh, Director and Member Secretary, Board of Governors of SLIET and also other officers / faculty members about the future vision of the Institute and the efforts which were on in their pursuit of excellence towards making the Institute a world class one in research & education.

(10) The committee visited all the physical and infrastructural facilities including administrative block, academic blocks – Science block, Mechanical Engineering Block, Food & Chemical Technology Block, Computer Science & Engineering Block, Electrical & Instrumentation Engineering Block, Electronics & Communication Engineering Block, Workshop, Library, Student Activity Centre, residential quarters for faculty & staff, student hostels and other infrastructural facilities and the students amenities.

(11) The committee had detailed interaction with the faculty and students.

(12) The brief profile of the Institute is given below :

#### Establishment, aims and objectives:

The Institute is located in rural area of Village Longowal, Distt. Sangrur (Punjab) on a campus of 451 acres of land. The land was acquired by the

State Government of Punjab for the Institute. Buildings and other infrastructure have been provided by the Ministry of Human Resource Development, Govt. of India and is fully funded by them.

The Institute was established in the year 1989, with the following main aims and objectives:

- To offer flexible, modular multipoint entry in all programme in Engineering & Technology.
- To promote self employment in all programmes by introducing an element of entrepreneurship & providing guidance and counseling services to help students to take up self-employment ventures.
- To offer non-formal programmes in different areas of technology to strengthen the scope of institutional programmes.
- To provide technical education facilities for women, through specially designed courses.
- To offer continuing education programmes for working personnel from industries at different levels.
- To offer bridge courses for lateral entry in all programmes and for moving from one level of course to another level.

#### Extension Services:

To offer extension services to:

- Industries in neighborhood and in the region.
- Working Personnel.
- Passed out Students.
- ITI's & Polytechnics.
- Research and other institutes of Higher Learning.

#### Research & Development:

- To conduct exploratory research to assess manpower requirement leading to integrated educational planning, curriculum development & instructional materials development in the identified areas of science & Technology.
- To conduct research in the interdisciplinary areas aimed at solving the problems of industry and community. In keeping with the other objectives, SLIET will prepare students capable of initiating & managing development activities in the region. Hence, the program will lay emphasis on developing relevant and appropriate technical and vocational skills. The concept of practice school for industrial training has been introduced in the institute. The students spend one third of the time in the industry for on-the-hand-job training. The concept of practice school will enable the students to attain the knowledge of modern technology practices in the industries with in reasonable time frame. The



courses offered by the institute are flexible and modular. Courses Offered :

(13) Admission to all the courses offered is through All India Entrance Test conducted by the Institute

Sr. No.	Name of the Course	Students Intake	Fee at the time of Admission (Rs.)	Fee per semester (Rs.)
1.	CERTIFICATE PROGRAMMES IN :		11230.00	4230.00
	Air Conditioning and Refrigeration (CAC)	30		
	Auto and Farm Machinery (CAF)	30		
	Computer Applications (CCA)	30		
	Foundry & Forging (CFF)	30		
	Food Technology (CFT)	30		
	Maintenance of Television (CTV)	30		
	Maintenance of Electrical Equipments(CMEE)	30		
	Paper and Printing Technology (CPPT)			
	Servicing and Maintenance of Electronics instruments(CSME)	30		
	Servicing and Maintenance of Medical Instruments (CSMM)	30		
	Tool and Die Technology(CTD)	30		
	Welding Technology (CWG)	30		
2.	DIPLOMA PROGRAMMES IN :		14305.00	5730.00
	Chemical Technology (DCT)	30		
	Food Technology (DFP)	30		
	Computer Science & Applications (DCA)	30		
	Computer Science & Engineering (DCE)	30		
	Electronics & Communication Engineering (DEC)	30		
	Instrumentation & Process Control (DIN)	30		
	Industrial & Production Engineering (DIP)	30		
	Maintenance & Plant Engineering (DMP)	30		
	Welding Technology (DWT)	30		
Foundry Technology (DFT)	30			
3.	DEGREE PROGRAMMES IN :		31810.00	19,525.00
	Chemical Technology with specialization in:			
	(a) Polymer Technology (GCT Polymer)	30		
	(b) Paper Technology (GCT Paper)	30		
	Food Technology (GFT)	40		
	Computer Science & Engineering (GCS)	60		
	Electronics & Communication Engineering (GEC)	40		
	Instrumentation Engineering (GIN)	40		
	Mechanical Engineering with specialization in:			
	(a) Manufacturing Engineering (GME)	40		
(b) Welding Technology (GWT)	40			
4.	P.G. PROGRAMMES IN :		24810.00	15,025.00
	M. Tech. in Manufacturing Systems Engineering	25		
	M. Tech. in Food Engineering & Technology	25		
	M. Tech. in Instrumentation and Control Engineering	18		
	M. Tech. in Polymer Technology	18		

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## Reservation Management Quota/General Seats

- Certificate Programme : Punjab: 75%, Other State: 25%  
(SC: 15%, ST: 7.5%, PH: 03%)
- Diploma Programme : Punjab: 50%, Other State: 50%  
(SC: 15%, ST: 7.5%, PH: 03%)
- Degree Programme : There shall be no reservation or quota etc. on territorial basis for admission to Degree Programme.  
(SC: 15%, ST: 7.5%, PH: 03%)
- M.Tech. Programme : There shall be no reservation or quota.  
(SC: 15%, ST: 7.5%, PH: 03%)

(14) All the Courses offered have been recognized by the AICTE, New Delhi. All the degree courses are accredited by National Board of Accreditation (NBA), New Delhi vide letter no. NBA/ACCR-228/2003 dated 22.12.2003 for the period of 03 years from 12.12.2003.

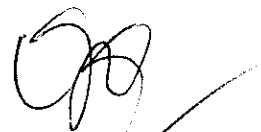
## Core Engineering Departments running PG Programmes

Name of the Department	Name of Post Graduate Programme	Year of Commencement
Mechanical Engineering	Manufacturing Systems Engineering	2002
Food Technology	Food Engineering & Technology	2002
Electrical & Instrumentation Engineering	Instrumentation and Control Engineering	2003
Chemical Technology	Polymer Technology	2004





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(15) The details of students who have passed out from the Institute during the last five years is as under :

Year	Certificate	Diploma	Degree	M.Tech.
2001	214 (63%)	308 (95%)	299 (98%)	--
2002	238 (64%)	288 (89%)	266 (87%)	--
2003	259 (67%)	285 (86%)	304 (99%)	--
2004	271 (66%)	307 (88%)	234 (78%)	45 (90%)
2005	230 (59%)	320 (92%)	204 (68%)	15 + <sup>⊙</sup>

⊙ 27 viva voce pending

Total Students enrolment in the Year 2004-2005 :

Certificate : 686, Diploma : 676, Degree : 930, M.Tech. : 84

Total : 2376

which includes 35% of girls students.

(16) Non-Formal Programmes

- Centre for Punjab Youth Training and Employment (C-PYTE) : 1993

- Trains rural youth on

Food Processing, Instrumentation repair, Electrician,  
TV/PC maintenance, Welding, Carpentry

- HUDCO (Govt. of India) Building Centre

- Scheme to train and transfer cost-effective, environment-  
friendly and appropriate building technology

- NABARD & KBIC Programs

- Community Development Centres (CDC) : 1999

CDC Scheme was established in the year 1998-99. The aim of the  
centre is to integrate sustainable and social economic development of

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Date: 11/4/2012

rural areas by providing vocational training and manpower development to generate self and wage-based employment opportunities.

- Training to rural youth

Plumbing, Welding & Fabrication, Video & Audio Service Technology, House Wiring & House Hold Electrical Appliances, Garment Technology, Food Processing & Preservation, Data Entry Operator, Wood Working & Furniture Making, Refrigeration & Air Conditioning, Motor Winding

- Persons with Disability (PWD) Cell : 2001

The Institute is implementing the scheme since 2001-2002 for "Integrating Persons with Disabilities in Mainstream of Technical and Vocation Education"

- Formal Education : Certificate (11 Programmes)  
Diploma (09 Programmes)

- Non-formal Education

- Garment Technology, Book Binding, Silk Screen Printing, Electrical Gadget Repair, Data Entry Operator, Carpentry/Masonry, Food Processing, Plumbing, Gardening/Floriculture, Mobile Repairing, Radio & TV Repair, Candle Making

- Extension Centres (02 Nos.)  
- Patiala, Chunner

**Consultancy and Technology Transfer**

Department of Food Technology

Kota Dal Mill, Rajasthan

Rs. 51,000/- (Technology Transfer)

Kota Dal Mill, Rajasthan

Rs. 1,10,000/- (Consultancy)

Rai Agro Industry, Sangrur

Rs. 10,000/- (testing)

Department of Mechanical Engineering

NBCC

Manpower Training

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## (17) Faculty

## Status of Faculty Positions in Core Engineering Departments

Sr. No.	Name of the Department	Sanctioned Strength			Filled up posts		
		Prof.	Assistant Professor	Lect.	Prof.	A.P.	Lect.
1	Electrical & Instrumentation Engineering	03	04	12	03	04	18
2	Electronics & Communication Engineering	03	04	11	01*	04	05
3	Computer Science & Engineering	03	05	15	--	05	09
4	Food Technology	02	04	10	02	04	10
5	Chemical Technology	02	04	10	01	03	08
6	Mechanical Engineering	04	11	28	02	14	12
Status of Faculty Positions in Supporting Departments							
7	Physics	01	03	08	02	09	01
8	Chemistry	01	03	08	01	06	--
9	Mathematics	01	03	08	01	02	07
10	E.D.P.	01	02	05	--	04	04
11	Training & Placement	01	--	--	--	--	--
<b>Total</b>		<b>22</b>	<b>43</b>	<b>115**</b>	<b>13</b>	<b>55</b>	<b>74</b>

\* One Professor on contract basis in Electronics & Communication Department

\*\* 27 Lecturers have been promoted as Assistant Professors under Career Advancement Scheme (CAS).

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Besides above, 46 Lecturers are working on ad-hoc basis and there are 04 visiting Professors in different departments.

Statements showing the working teaching faculty is attached at **Appendix.**

(18) Non-Teaching and Technical Supporting Staff in Position

Group A	Group B	Group C	Group D	Total
15	22	138	65	240

(19) The achievements of the faculty during the last five years is as under :-

Years	2001	2002	2003	2004	2005
Refreed Journal	40	34	70	77	50
Conference Presentations	26	27	44	43	15
Books Published/ Authorship/ Editorship	01	01	02	03	02
Awards	03	03	06	01	01
Refereeship (Papers, Thesis etc.)	02	02	03	04	04
Editorship	01	02	01	01	01
Conference Program Chair/ Membership	02	05	05	04	03
Patents	--	--	--	--	01 + (02 Applied)
Industry Training Programs Nos./ Participations	--	--	01	02	03
Executive Programs conducted at SLIET	03	07	07	09	07
Sponsored Projects Nos./ Total Amount in rupees	06 (42.5 lacs)	07 (72 lacs)	13 (93 lacs)	21 (2.66 crores)	08 (1.02 crores)

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## Papers published in Refereed Journal during 2001 to 2005

Deptt.	2001	2002	2003	2004	2005	Total
Mathematics	06	03	11	10	12	42
Physics	06	05	13	06	05	35
Chemistry	01	07	06	--	04	18
ECE	04	--	05	12	05	26
Chemical Technology	--	01	--	--	01	02
EIE	03	04	07	09	02	25
Computer Sc. & Engg.	--	--	--	01	06	07
Mechanical Engg.	04	04	16	27	07	58
Food Tech.	16	10	12	12	08	58
<b>Total</b>	<b>40</b>	<b>34</b>	<b>70</b>	<b>77</b>	<b>50</b>	<b>271</b>

## R&amp;D Projects Implemented during 1994 to 2005.

Funding Agency	No. of Projects	Amount sanctioned (In Lacs)	Completed	Ongoing
MHRD	60	532.85	37	23
UGC	01	1.64	01	0
CSIR	08	17.94	08	0
DST	05	20.00	05	0
PSCST	01	1.00	01	0
MFPI	01	50.00	01	0
AICTE	10	42.00	10	0
ICAR	02	16.20	01	01
<b>Total</b>	<b>88</b>	<b>681.70</b>	<b>64</b>	<b>24</b>

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(20) Infrastructure and Building space

Particulars	Building with RCC Roof (Sq.M)	Building with Sheet Roof (if suitable for Educational Institution) (Sq.M)	Total Area Available (Sq.M)	Total approx. Cost (Rs.in lakh)
Instructional Area (Carpet Area)	222523 M <sup>2</sup>	600 M <sup>2</sup>	23123 M <sup>2</sup>	7400.31
Administrative Area (Carpet Area)	2710 M <sup>2</sup>	--	2710 M <sup>2</sup>	
Amenities (Carpet Area)	90601 M <sup>2</sup>	1205 M <sup>2</sup>	91806 M <sup>2</sup>	
Circulation & Others (*)	15743 M <sup>2</sup>	--	15743 M <sup>2</sup>	
Total	131577 M <sup>2</sup>	1805 M <sup>2</sup>	133382 M <sup>2</sup>	

(21) Laboratories

Physics	:	06 Labs
Mathematics	:	01 Lab.
Chemistry	:	06 Labs.
Mechanical	:	05 Labs.
Food Technology	:	13 Labs.
Chemical Technology	:	12 Labs.
Electrical & Inst. Engg.	:	14 Labs.
Electronics & Comm.Engg.	:	11 Labs.
Computer Sc. & Engg.	:	10 Labs.
Workshop	:	08 Labs.



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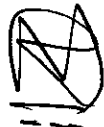
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(22) The Institute has good physical infrastructure consisting of computing facilities as below :

S.No	Particulars	Availability
1.	No of Computer terminals	460
2.	Hardware Specification	P-IV, P-III, P-II & P-I
3.	No of terminals of LAN/WAN	165
4.	Relevant Legal Software	Listed below*
5.	Peripheral(s)/ Printers	110
6.	Internet Accessibility(in kbps &hrs)	2+2 MBPS, 24 Hours

\*List of Legal Softwares available in the Institute

Sr. No.	Name of Software
1	MS Office 2000 Pentium
2.	Adobe Photoshop
3	Mathematica
4	Developer 2000
5	J. Builder Prof.3.01
6	Adobe Illustrator 6.0
7	Lotus Smart Suit
8	Windows 2000 Server
9	AS/4000 Software
10	Windows XP Professional
11	Windows NT Server
12	NT Workstation Ver. 4.0
13	Windows NT users Additional
14	Intranet ware V.4.11
15	LAN Workplace V.5.0
16	LAN Workgroup V.5.0
17	MS Back Office
18	MS Virtual Studio 6.0 Enterprises
19	Power Builder V.6.0, Power Designer
20	Adaptive Server Enterprises Sybase SQL Anywhere
21	Oracle Server Enterprise for Windows NT
22	Turbo C++
23	Turbo Pascal
24	Boarland C++
25	Visual C++ V.E.O.
26	Macromedia Studio MX (5 user license)
27	Windows 2003 server 25 users
28	Adobe Photoshop 5 user license
29	MS Office 2003 10 user
30	Visual Studio. Net 2003 10 user
31	Coral Drawn G.S. V-12
32	Adobe Acrobat 7.0
33	Bandwidth Management Software
34	Network Management Solution



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Dr. V. J. Haldar

## (23) Library

The Institute has well equipped Digital Library in a area of 1678.14 square meter with 51,550 books costing Rs.1.61 crores (approximately). There are 10,500 Reference Books and 35,000 Text Books. The available services in the Library are : Multimedia Room, Digital Library, Xerox Facility. It has Bandwidth of 4 MBPS Leased Line. The Library has a budget of Rs.15 lakhs.

No. of journals/Periodicals :

S.No.	Course (s)	No. of Titles	Number of Volumes	Journals/ Magazines	
				National	International
1	Computer Science	1725	7835	04	12
2	Electronics	1250	4925	03	07
3	Instrumentation	1290	4590	04	09
4	Mechanical	2870	9525	15	15
5	Chemical	670	2150	04	06
6	Food	800	2345	12	05
7	Physics	1025	3000	10	02
8	Chemistry	960	2400	02	03
9	Math	890	3525	05	04
10	EDP	1870	2560	16	05

## (24) Information regarding Hostels, Employees Quarters and other accommodations

Hostels

-	Boys Hostels	:	08 Nos. (250 students capacity in each)
-	Girls Hostels	:	02 Nos. (250 students capacity in each)
-	PG & Research Scholar Hostel	:	Under Construction

Staff Quarters

Type I	Type II	Type III	Type-IV	Type-V	Total
72	90	219	80	40	501

There is One Director's Residence, One Guest House (22 Rooms), One Transit Accommodation (20 Rooms) and One Faculty Club

(25) Health Centre

The Institute has its own Health Center to provide necessary medical aid to the students and staff on the campus. Specialists are also visiting the Health Center to provide consultation to the inmates. Ambulance is also available to assist serious patients.

(26) Placement of the passed out degree students:

S.No.	Discipline	Number of Pass Out students			Students got placement within 6 months of their passing			Remarks
		99	2k	2k1	99	2k	2k1	
	<b>DEGREE PASSED OUT IN</b>	99	2k	2k1	99	2k	2k1	Average placement of the passed out students of 1999- 67%  2k - 64%  2k1 - 62%
1.	Mechanical Engg.	71	52	63	63%	62%	60%	
2.	Computer Science	64	58	58	76%	74%	70%	
3.	Instrumentation	32	27	27	71%	68%	60%	
4.	Electronics	30	26	22	66%	64%	80%	
5.	Chemical	55	50	41	60%	52%	20%	
6.	Food Technology	32	28	18	64%	62%	80%	

(27) Financial Status:

(Rs. In lakhs)

Years	Budget Estimates		Receipt/Income						Expenditure	
			Central Govt. Grants		Internal Resources		Total		Plan	Non Plan
			Plan	Non Plan	Plan	Non Plan	Plan	Non Plan		
2002-03	403.00	1263.70	135.00	900.00	---	434.32	135.00	1334.32	229.02	1073.00
2003-04	300.00	2018.60	435.00	1500.00	---	474.07	435.00	1974.07	262.67	1936.00
2004-05	365.00	1353.75	200.00	900.00	---	466.73	200.00	1366.73	175.99	1326.02
2005-06	400.00	1450.00	225.00	700.00	---	250.00	225.00	950.00	200.00	891.00

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Expenditure (Till Dec. 2005)

-	Building	:	Rs. 6293 lakhs	} <span style="border: 1px solid black; padding: 5px;">Rs. 16715 lakhs</span>
-	Equipment	:	Rs. 2038 lakhs	
-	Recurring	:	Rs. 3650 lakhs	
-	Salary	:	Rs. 4734 lakhs	

Fund available (for Development)

-	Computer development	:	Rs. 279 lakhs
-	Institute development	:	Rs. 219 lakhs

Annual Budget

-	Budget 2005-06	:	Rs. 1850 lakhs
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(28) Future Plan:

A. Institute plans to start market driven M.Tech. programmes in various disciplines.

- i. M.Tech. in Materials Science (Interdisciplinary)
- ii. M.Tech. in Environmental Sciences (Interdisciplinary)
- iii. M.Tech. in Operational Research (Department of Mathematics)
- iv. M.Tech. in Electronics & Communication Engg. (Department of Electronics & Communication Engg.)
- v. M.Tech. in Computer Science & Engg. (Department of Computer Science & Engg.)

Special features of M.Tech programmes will be multi and inter-disciplinary nature.

B. To start new programmes in emerging frontier areas like Nanotechnology and Biotechnology.

C. Extension Services:

- i. Institute will enhance the Extension Services in Punjab, and other adjoining states in the coming year.
- ii. There will be more stress on research activities at interface of industries and technology as director has been authorized to institute fellowship for the promotion of research in each department.



## (29) Why SLIET need the status of Deemed-to-be-University?

1. The institute offers unique modular pattern of education at various level where more emphasis is given on skill development; accordingly the curriculum of SLIET is only one of its kind. This is completely different from the existing four year conventional engineering degree programme offered and does not fit in the statutes, ordinances and regulations of the conventional universities. This uniqueness makes the institute to conduct its separate entrance test throughout the country. There is always a pressure from the earlier and present affiliating university to follow their syllabus and common entrance test. Some how rather, this has been resisted till now, which may not be possible in future. If the institute agrees to their pressure the novelty of the institute as well as the objective of the institute will be spoiled. The Institute has submitted the proposal of Deemed University status to maintain its separate identity in the country.

SLIET is the second institute of this kind in the country. The first one is North Eastern Regional Institute of Science & Technology (NERIST), Itanagar, Arunachal Pradesh which is situated in north eastern part of the country has been given deemed-to be university status recently in order to retain the identity of modular structure.

2. Besides, the number of years required for a student to complete degree after class XII is 5 years due to non-compatibility of the conventional 4 year programme of Indian Universities. This factor hinders the best students of the country to join SLIET, as they have to spend one year more.
3. SLIET and NERIST are only two institutes in the country where a student admitted after class X can continue his study till M. Tech. and Ph. D. The institute can introduce integrated and dual degree and other innovative programmes if the deemed university status is granted.
4. The unique skilled-based programme of SLIET, which has major component of practice school and industrial training as an inbuilt feature can be extended throughout the country if autonomy is granted to the institute in doing so. It can introduce new programme and course keeping in view the changing scenario, draft, modify or close a program as per need of the society immediately following deemed university statute.
5. The work done by the faculty of the institute to excel in the academics, research and uniqueness of the course pattern can globally be recognized if the institute is given its own identity. The students will get recognition and be placed at prestigious national and international academic and industrial organizations.
6. At present the institute is following the dual nature of academic rules and regulations, one for certificate & diploma and other for degree programme in accordance to suit the university requirements. Therefore, it is very difficult to implement this dual nature of rules under the same roof.



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(30) Control over future threats after getting the status of Deemed to be University

1. With Deemed-to-be-university status, Institute does not visualize any deviation from the norms and statutes of the laid-down by AICTE. The students entering at certificate level can go up to degree level
2. Each module is a terminating module. If a student is interested to go to higher modules, the students have to appear in the entrance examination and go in main stream.

### Major Observations of the Committee

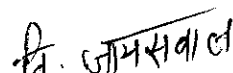
(31) SLIET is one of two institutions in the country which were established to offer education and training based on an innovative model of technical education which incorporates features like modular curriculum, vertical mobility and educational and training facilities from certificate to degree and postgraduate degree level programmes under one roof. The institution is a fully funded institution of Government of India and was founded in 1989 in the rural area of the state of Punjab and was named after the national martyr Sant Longowal. The institution has assigned to itself a unique role to produce highly skilled, employable manpower to meet the needs of the industries and to respond to the local technological needs of the state. One of the important mandate of the institute is to produce skilled manpower which promotes self employment and thus is able to cater for a large cross section of people who could take advantage of technical education and training to foster techno-entrepreneurship.

(32) The institute started its functioning in 1991 by offering certificate and diploma programmes and subsequently the degree programmes started in 1993. Currently the institute is offering 10 degree level programmes in various disciplines. Four post-graduate programmes have also been introduced in the following areas starting from 2002:

1.	M.Tech. in Manufacturing Engg.	2002
2.	M.Tech. in Food Technology	2002
3.	M.Tech. in Instrumentation & Control Engg.	2003
4.	M.Tech. in Polymer Technology	2004

(33) In addition Ph.D. level research is being carried out in major Science and Engineering Departments of the Institute. As per the information submitted by the Institute. 25 Ph.Ds have been awarded on the research work carried out at SLIET.

(34) The Institute has made an application for the grant of deemed to be university status to the Govt. of India which was forwarded to the UGC for its recommendations. The UGC Screening Committee has examined the proposal to SLIET for the grant of



deemed to be Universities status and has made a presentation on its proposal to the Screening Committee. The Screening Committee has observed the following observations:

1. The Institute has a standing of 15 years.
2. The Institution is fully funded by M/HRD, Govt. of India.
3. Student Admission is on All-India basis.
4. The Institute was well-structured, and runs, modular academic programmes with vertical mobility from certificate, Diploma, the UG Degree, PG Degree to Ph.D. levels, with multiple entry and exit possibilities.
5. All programmes are approved by AICTE and many of them are accredited by NBA (although item 13 in consolidated information of Institute is silent on this).
6. Good placement record for outgoing students.
7. The Institute has well developed physical infrastructure.
8. 8 Departments are guiding research upto Ph.D. 25 students obtained Ph.D. so far.
9. Many projects sponsored by Govt. agencies have been undertaken.
10. The Institute has obtained NOC from the Government and University.
11. Following weaknesses were also observed.
12. Many of the sanctioned posts particularly at Professor level, are lying vacant for quite some time.
13. Interaction with industry, particularly in testing consultancy etc. is yet at low level.
14. Research publications, particularly in referred journals are yet on the low side.

(35) The (Screening) Committee recommended further consideration of application for Deemed to be University status, after the Institute takes steps to recruit at least 60% of unfilled posts at Professor level and makes series efforts to take care of weaknesses at (A) & (B).

(36) The recommendations of the UGC Screening Committee were communicated to the Institute vide UGC Office letter No.F.6-66/2004(CPP-I) dated 10<sup>th</sup> December, 2004.

(37) The Expert Committee constituted by the UGC to assess the proposal of the SLIET for grant of deemed to be university status visited the Institute on 30<sup>th</sup> – 31<sup>st</sup> January, 2006. The Expert Committee have gone through the information submitted by the Institute, visited various academic departments, central facilities, institute infrastructure and also interacted with the faculty, students, Deans and Director of the Institute. The Committee has made the following observations:-

1. The Institute has a sprawling green campus spread over an area of about 450 acres. The campus of the Institute is well developed and has residential

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facilities for the students, faculty and staff. In addition to adequate space for its academic departments, it has central facilities and enough built up space for functioning of its administration.

2. The campus is innovatively planned and provides ambience for growth of academic and professional environment, commensurate with a modern technological institute.
3. The library of the Institute has been recently modernized and incorporates a well functioning digital library and a reading room it is well stocked for relevant books and journals including e-journals for its academic and research needs. The library is also automated.
4. The Institute has excellent computing facilities including two x 2 MPBS Leased Line connectivity and campus wide net work. Academic departments are also well equipped with computing facilities required for their academic and research needs.
5. The academic infrastructure of the Institute including Laboratories is currently adequate to meet the requirements of the on going academic programmes. Some of the academic departments specially the Department of Chemistry, Physics and Food Technology are better equipped for research facilities.
6. The Institute is currently discharging a social responsibility by offering its extension services to a number of villages in the locality and thus fulfilling its responsibility towards the growth of rural entrepreneurship and support services on technological needs for the rural areas.
7. The Institute has functioned for a period of 15 years from its inception and in turn has contributed to certificates, diplomas and degree level programmes and has generated well qualified manpower for the country.
8. Postgraduate programmes have only begun in 2002 and thus postgraduate education is one of the area where significant growth could be envisaged in the coming years in various Engineering and technological departments.
9. During the presentation made by the Institute Director to the Expert Committee, it was observed by the Committee that the Institute should have a well formulated perspective plan incorporating its future vision and growth plan of the Institute. Such a perspective plan could give an idea of the opportunities which the Institute desires to utilize if a deemed to be a university status is available. It was also observed by the Committee that currently there is lack of clear vision on future road map for the Institute.
10. While the current faculty shortage at the Institute level is an area of concern specially the vacancies at the level of Professors in the Core-Engineering

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Departments, it is also true that faculty shortage is not a unique feature of this Institute rather it is problem in very many institutions including some of the IITs and NITs. It was informed by the Director of the Institute that recruitment to the vacant positions will be made in the near future.

11. As far as the research and industrial consultancy is concerned. The Institute has undertaken a large number of sponsored R&D Laboratory modernization programmes for a total funding amounting to Rs.4 Crores from AICTE, MHRD and other Government funding agencies. However, significant contribution to high quality research is yet to emerge from the Core Engineering Departments. Similarly, the contribution of Institute faculty to industrial consultancy is also not very significant at present.
12. Naturally, the postgraduate programmes have only begun 4 years ago and that the culture of research is yet to emerge in Core Engineering Departments. It would be difficult to expect, at this stage, a much greater contribution to industrial consultancy unless the Institute motivates its faculty to proactively market its capabilities for industrial consultancy and engages in industry relevant, need based R&D.
13. The Institute has a promise for significant growth and development, specially, that it has excellent campus infrastructure and well functioning academic programmes. However, the Committee has observed that the Institute is currently without a regular Director at a time when it needs a visionary leadership dedicated to transform the Institute into a centre of excellence in education and research in Engineering and Technology areas relevant to the current and future needs of the country in the fast approaching knowledge age.
14. The SLIET should strengthen its programmes relating to (a) Setting up of a Technology Business Incubator, (b) Setting up of a campus technology park, (c) Interacting with reputed international institutions in developed countries and bodies of United Nations to fulfill its mission of producing entrepreneurs and promoting technology based enterprises.
15. The Institute be asked to formulate a MoA/Rules and Regulations as per the UGC model guidelines for Deemed to be University and take necessary action to fill up the regular post of Senior Faculties. The Institute should also develop the desired university structure of governance and draw a perspective plan for growth into a centre of excellence in education and research so that it can utilize concomitant autonomy of the Deemed to be University, once granted, in the right earnest.

(38) The Committee records its high appreciation to the cooperation and warm hospitality extended to the Committee.



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Dr. Jitendra

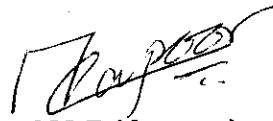
## RECOMMENDATIONS

The Committee unanimously recommends that Sant Longowal Institute of Engineering and Technology, Longowal, Sangrur (Punjab) is a fit Institution for the grant of the status of Deemed to be University under Section-3 of the UGC Act, 1956 *subject to*

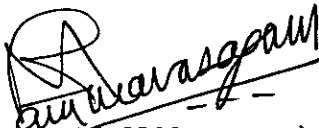
*the compliance of finalizing the MOA as per the UGC guidelines.*



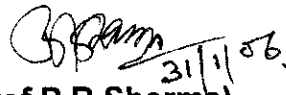
(Prof. B.H. Briz Kishore)  
Convenor



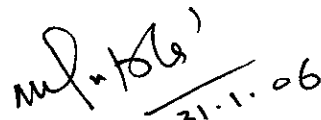
(Prof. M.P. Kapoor)  
Member



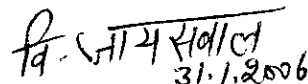
(Prof. R.M. Vasagam)  
Member



(Prof. P.B. Sharma)  
Member



(Prof. N.K. Gupta)  
Member



(V.K. Jaiswal)  
Member Secretary

Date:- 31.1.2006

Place: Longowal, Sangrur.