

Proposal from

**UNIVERSITY COLLEGE OF TECHNOLOGY  
OSMANIA UNIVERSITY, HYDERABAD – 500 007**



*for*

**COMPETITIVE SELECTION AS NETWORK INSTITUTION**

under

**TECHNICAL EDUCATION QUALITY IMPROVEMENT  
PROGRAMME**

*of*

**THE MINISTRY OF HUMAN RESOURCE DEVELOPMENT  
GOVERNMENT OF INDIA**

*submitted through*

**THE GOVERNMENT OF ANDHRA PRADESH**

on

**1<sup>st</sup> September, 2004**

*to*

**NATIONAL PROJECT DIRECTOR,  
NATIONAL PROJECT IMPLEMENTATION UNIT,  
ED. CIL HOUSE, 4<sup>th</sup> FLOOR, PLOT NO. 18 A, SECTOR 16 A,  
GAUTAM BUDDHA NAGAR, NOIDA – 201 301,  
(UTTAR PRADESH)**

## EXECUTIVE SUMMARY

The college proposes to utilize the opportunity in the form of TEQIP to impart technical education of highest standards by training manpower equipped with initiative, innovative flair, spirit of inquiry, ability to respond to challenges and tackle them with effective strategies.

The institution will immediately identify persons from non-teaching staff to depute them for short term training to improve their capabilities. The college will also identify some teaching staff members to depute them for attending refresher courses in the subjects of their choice. Some more teachers will be asked to proceed on study tours of two or three weeks duration to various IITs or similar organizations to study their methods of teaching-learning process.

The long term objective of the institution is to improve the quality of students at the UG and PG level with exposure to the frontier areas of technologies and to inculcate awareness of the social responsibilities of the profession. This includes increased involvement with community by making the college a nodal center for conducting training programmes and for developing appropriate technologies. Another objective is to provide increased support to disadvantaged groups by identifying their specific problems and developing solution procedures for them.

At the end of the first year, all the civil works and majority of the procurement of the equipment will be completed and about 25% of the staff will be sent for training to improve their capabilities. Appointments of all additional staff will also be completed. At the end of the second year, all the procurements of equipment and about 80% of the books and learning resources will be completed. The objectives in the remaining period shall be increased involvement with community, particularly the disadvantaged groups, in the form of technical training and technology transfer and achieving academic excellence.

In order to achieve the proposed objectives of the TEQIP programme, the following financial requirement is being sought.

	(Rs. In Millions)
1. Academic Excellence	117.314
2. Networking	1.131
3. Service to Community & Economy	0.255
	<hr style="width: 10%; margin: auto;"/> 118.700

The college has already been functioning as an autonomous college with full academic autonomy since the year 1995. The college has established various committees such as Board of Governors, Academic Council, Board of Studies, Purchase Committee, Finance committee. The college has been following the practice of annual budget, auditing of the accounts and decentralized management for a long time and hence is in an advantageous position to fully exploit this opportunity in the form of Technical Education Quality Improvement Program of Government of India .

From the programme it is expected that the college will attain the status of centre of excellence in a short duration tuned to the changing requirements of the students, the staff the community and the process industry. The college will be in a position to provide tailormade solutions to the demands of the industry and community

## UNIT-1

### CURRENT INSTITUTIONAL INFORMATION

Give information in the tabular formats given below. Do not give any write-up in this Unit.

#### 1.1 INSTITUTIONAL IDENTITY

1.1.1 Name of the Institution : UNIVERSITY COLLEGE OF TECHNOLOGY

1.1.2 Names of Head of Institution and Nodal Officers for Academic Activities, Civil Works, Procurement and Financial Aspects

Lead & Nodal Officer	Name	Phone Numbers	Mobile Number	Fax Numbers	Email Address
Head of the Institution	Prof. I.V.Rao	27098901	---	27098472	ivaturi48@yahoo.com
Nodal Officers (TEQIP) for:					
Academic Activities	Prof. J.S.N.Murthy	27121744	9885047079	27098472	jsnmurthy_ou@yahoo.com
Civil Works	Dr. D.Jaya Prakash	27006720	9849035467	" do"	<a href="mailto:ipdodle@yahoo.com">ipdodle@yahoo.com</a>
Procurement	Prof. S.S.Sridharan	27506175	31059178	" do"	profsridharan@osmania.ac.in
Financial Aspects	Prof. S.Venkateshwar	27731096	9849640986	" do"	svenkateshwar@rediffmail.com

#### 1.2 ACADEMIC INFORMATION

##### 1.2.1 Engineering Programs offered in 2003-2004

S. No	Title of Program	Level <sup>1</sup>	Duration <sup>2</sup> (Years)	Year of starting	Sanctioned Annual Intake <sup>3</sup>	Total Student strength
1	B.Tech (Chemical Engineering)	UG	4	1954	60	246
2	B.Tech (Textile Technology)	UG	4	1994	20	65
3	B.Tech (Food Technology)	UG	4	1994	20	68
4	M.Tech (Chemical Engineering)	PG	2	1958	14	31
5	M.Tech (Chemical Technology)	PG	2	1958	12	20

1 State whether UG/PG.

2 If any program is of flexible duration and or offered on part time basis, this may be stated in the column.

3 Annual intake as sanctioned by the AICTE.

1.2.2 Total strength of students in all courses and all years of study in 2003-2004 : 430

1.2.3 Total women students in all courses and all years of study in 2003-2004 : 150

1.2.4 Total ST students in all courses and all years of study in 2003 : 27

1.2.5 Total SC students in all courses and all years of study in 2003 : 67

1.2.6 Total OBC students in all courses and all years of study in 2003 : 113

##### 1.2.7 Doctoral Programs

a) Total number of candidates that obtained PhD from the institution up to 2003-04 : 37

b) Total number of candidates currently registered for PhD. : 11

##### 1.2.8 Accreditation Status of Programmes

Level of Programs	Total Number of Programs being offered	Number of Programs Eligible for Accreditation	Total Number of Programs Accredited in		Number of Programs for which Accreditation Applied for
			2002	2003	
Undergraduate	3		University accredited with 5 stars by NAAC Up to 2006		
Postgraduate	2				

### 1.3 TEACHING STAFF STATUS

#### 1.3.1 Regular/On-Contract Teaching Staff (2004-05) as on July 31, 2004

Type of Staff	No. Sanctioned	Status	Number in Position by Highest Qualification						Total Number in Position	Total Vacancies
			PhDs		Post-graduates		Degree Holders			
			Engg.	Other	Engg.	Other	Engg.	Other		
Professors		Regular	07	05	01	--	--	--	13	
		Contract	--	--	--	--	--	--		
Associate Professor/Reader		Regular	07	02	06	03	--	--	18	
		Contract	--	--	--	--	--	--	--	
Assistant Professor/Lecturer		Regular	02	01	01	01	--	--	05	
		Contract	01	02	02	02	04	--	11	

#### 1.3.2 Visiting Faculty/Part-time Teaching Staff (2003-04)

Level for which Engaged	Number by Highest Qualification						Total Hours Taught/Week
	PhDs		Post-graduates		Degree Holders		
	Engg.	Other	Engg.	Other	Engg.	Other	
UG Teaching	--	--	--	--	02	--	27
PG Teaching	--	--	--	--	--	--	--

### 1.4 AVERAGE ANNUAL RECURRENT COST PER STUDENT Rs. 51,460 (0.051 millions of Rs.)

(Average recurrent cost per student = Total recurrent expenditure of the institution divided by the total strength of students in all UG and PG engineering programs in March 2004)

### 1.5 CURRENT FULL TIME TEACHER-STUDENT RATIO : 1:10

(This is to be calculated by dividing the total number of regular faculty + full-time contract faculty + regular faculty equivalent of visiting/part-time faculty by the total strength of students in all engineering programs in March 2004)

(Number of regular faculty equivalent = total number of hours taught by visiting/part-time faculty divided by 16)

## UNIT 2

### VISION

#### 2.0 Institutional Vision

Please state your Institute's Vision below as given in your DPR:

“To develop into a nodal institution of technical education to cater to the needs of all sections of society by progressing towards excellence through interdisciplinary academic, research and extension activities.”

#### 2.1 Identify the part of the Vision you plan to achieve during the current project-life (i.e. your Pragmatic Future)

To provide Technical Education of highest standard by training manpower equipped with initiative, innovative flair, spirit of inquiry, ability to respond to challenges and tackle them with effective problem solving strategies, thereby fulfilling the manpower requirements of the nation. Training students to become persons with excellent engineering skills.

#### 2.2 Indicate key activities in order of priority to achieve your pragmatic future as stated in item 2.1

1. Revision of UG/ PG curricula to keep in pace with demands from industry.
2. Modernization of Laboratories.
3. Increased frequency of Industrial visits.
4. Faculty development in the form of training.
5. Increased support to research activities of faculties.
6. Encourage students to participate in conference & seminars.
7. Networking & Resource sharing.
8. Service to Community & Economy.

### UNIT-3

## IMPLEMENTATION OF INSTITUTIONAL REFORMS

*Please give brief statement about processes and activities that would be undertaken to implement the reforms*

Academic Reforms	Activities to be undertaken in brief*	Indicate starting and completion time			
		2004-05	2005-06	2006-07	2007-08
1. Flexibility in academic programmes	Introduction of credit system		√	√	√
	Lateral level entry		√	√	√
	Sliding in branches of engg. at second year level	√	√	√	√
	Addl. Credits – Addl. Courses				
2. Introduction of reforms in student performance evaluation	Compulsory attendance in all the class tests	√	√	√	√
3. Establishment of a system for teacher performance appraisal by students, and teacher counseling	Feed back forms to students	√	√	√	√
4. Providing incentives to faculty for participation in continuing education programmes, consulting services, services to community and industry and for securing sponsored research & development projects	(Please indicate incentives to be given for various activities)				
	Supporting Paper Preparation	√	√	√	√
	Supporting Paper Presentation	√	√	√	√
	Supporting Sponsored Projects	√	√	√	√
5. Establishment of a system for recognizing merit and outstanding performance of teachers	Presentation of best teacher awards		√	√	√
6. Offering service packages that would attract and retain good quality faculty	Out of turn promotions based on merit		√	√	√
7. Establishment of a system for maintaining record of graduates and conducting regular tracer studies	One office staff will be asked to look after the record of graduates		√	√	√
8. Establishment of a governance system with participation of stakeholders	Governing body representation to stakeholders		√	√	√

Academic Reforms	Activities to be undertaken in brief*	Indicate starting and completion time			
		2004-05	2005-06	2006-07	2007-08
9.Establishment of a modern management system – delegation of decision making, administrative and financial powers to senior functionaries with accountability	Formation of various committees	√	√	√	√
10.Modernization of administrative and financial management system to increase staff and student friendliness, increase time efficiency and resource efficiency	Training to staff working in Office, Library and Laboratory	√	√	√	√
11.Establishment of a Corpus Fund for development activities, a Staff Development Fund for supporting critical staff development activities, a Depreciation Fund for modernization of teaching and training facilities and Maintenance Fund for upkeep of equipment and physical infrastructure	i) Corpus Fund	√	√	√	√
	ii) Staff Development Fund		√	√	√
	iii) Depreciation Fund	√	√	√	√
	iv) Maintenance Fund		√	√	√
12.Instituting measures for increasing recovery of cost of education	Consultancy earnings will be deposited with the College.		√	√	√
13.Instituting practices for maximizing utilization of resources and reducing wastage	Minimising wastage of resources	√	√	√	√
14.Establishment of mechanisms for regular quality and efficiency audit of institutional activities including academic processes and administrative procedures.	Academic & administrative audit will be carried out every year		√	√	√

## UNIT-4

### ACADEMIC EXCELLENCE

#### 4.1 PRIORITIES

Prioritize your objectives for the Project Period by assigning number 1 to 9 against each item below (1 is highest and 9 lowest)

S. No.	Objectives	Priority
1.	Improving undergraduate teaching/learning processes through better curricula, better faculty competence, better delivery, better interaction, development of proper attributes, and exposure to industrial practices	2
2.	Increasing facilities for undergraduate education, equipment. LRs, internet access, etc	1
3.	Increasing efficiency and effectiveness of the education process through better academic discipline and improved governance	3
4.	Improving post-graduate admission to M.Tech and Research programs through better structuring of offerings and increased facilities	4
5.	Improving sponsored Research and Consultancy activities	5
6.	Any other objectives (identify)	

#### 4.2 CURRICULUM REVISION

##### 4.2.1 Reorientation/Restructuring/closure of UG/PG Programmes

4.2.2 **UG/PG programmes to be reoriented** [write nil if no programmes are to be reoriented and delete the table] : NIL

4.2.3 **UG/PG programmes to be restructured** [write nil if no programmes are to be restructured and delete the table]

Name of the Programme	Indicate starting and completion time			
	2004-05	2005-06	2006-07	2007-08
B.Tech (Chemical Engineering)	√	√	√	√
B.Tech (Food Technology)	√	√	√	√
B.Tech (Textile Technology)	√	√	√	√

4.2.4 **UG/PG programmes to be closed** [write nil if no programmes are to be closed and delete the table] : NIL

##### 4.2.5 Curriculum Improvement/ Upgradation of Curricula

Name of the curricula to be improved	Indicate starting and completion time			
	2004-05	2005-06	2006-07	2007-08
M.Tech (Chemical Engineering)		√	√	
M.Tech (Chemical Technology)		√	√	

### 4.3 Modernization of Laboratories and Workshops including Removal of Obsolescence

Department	Name of the lab/workshop	Purpose/linkage to existing Programme	Indicate starting and completion time			
			2004-05	2005-06	2006-07	2007-08
Technology	Fluid Mechanics	UG laboratory		√	√	
	Mechanical Unit Operator	“DO”		√	√	
	Heat Transfer	“DO”		√	√	
	Physical Chemistry	“DO”		√	√	
	Mass Transfer Operators	“DO”		√	√	
	Process Dynamic & Control	“DO”		√	√	
	P.G Research Laboratory	P.G Programme			√	√

### 4.4 New Programmes Proposed

Name of the Program	Level (UG/PG)	Proposed Annual Intake	Proposed Year of Starting	AICTE Approval	
				Obtained (YES/NO)	Applied for (YES/NO)
Industrial Biotechnology	PG	20	2005-2006		yes

**Brief justification to be given for introduction of each programme supporting your priorities. Justification must include current or future market demand and whether the institution has adequate base in terms of faculty and facilities to initiate/ adequately support the programme(s).**

After its successful tryst with IT, it is the Biotechnology that has revolutionized the Indian scenario. Biotechnology is the study of direct manipulation of biological life at a fundamental level to produce substances useful to humans. Modern biotechnology has advanced to gene technology and beyond, and is an interdisciplinary subject covering different disciplines such as Genetic Engg, applied microbiology, biochemistry, and Chemical Engineering

The College of Technology has been offering Chemical Engineering course for the last fifty years and is proposing to offer academic programme leading to M. Tech (Industrial Biotechnology) and Doctorate degree in Industrial Biotechnology so as to generate the needed manpower for promoting biotechnological industries.

To give new impetus to this emerging technology by technological innovations, in the form of new creative methods and procedures based on sound engineering and biological principles.

#### 4.5 Areas of Doctoral Programmes

- a) Please indicate whether starting of Doctoral Programme is envisaged, and if yes indicate the areas and demonstrate capability to support the same

Doctoral Programme was introduced in 1969 and so far 37 Ph.D's have been awarded.

- b) In relation to Doctoral Programmes indicate requirements for assistantship/fellowships

10 Assistantships are needed

*Brief justification to be given for introduction of Doctoral programme in the areas selected above*

#### 4.6 Establishment of New Laboratories and Workshops

Department	Name of the lab/workshop	Purpose/ linkages to an existing/ new Programme	Indicate starting and completion time			
			2004-05	2005-06	2006-07	2007-08
Technology	Downstream Processing	PG Laboratory		√	√	
	Molecular Biology & Genetic Engg.	"DO"		√	√	

#### 4.7 Additional Faculty and Staff Required

Purpose	Designation	Numbers
To strengthen the existing teaching resources	Professors	One
	Assistant Professors	One
	Lecturers	One
Technical staff to conduct PG laboratory classes	Staff	
	Lab. Assistant	One
	Lab. Attendant	one
Total estimated expenditure on salaries and benefits	Rs. 0.912 million rupees per year	

#### 4.8 Faculty Development (Local & Foreign Fellowship programs)

S.No	Area of Training (please see slide numbers 35 to 37 of the presentation)	Training duration			
		Within India		Abroad	
		No. of Persons	Person months	No. of Persons	Person months
1	Students Performance Evaluation	03	03	--	--
2	Development of Modules LRs	02	04	--	--
3	New Techniques in Research	03	03	03	06

#### 4.9 Staff Development (within India only)

Functional areas in which staff is required to be trained.

S.No	Functional areas of training	Training duration	
		No. of Persons	Person months
1	Computerization of Office Records & Accounting	04	06
2	Library Automation	02	03

#### 4.10 Improved Implementation of Curricula (for possible activities see slide 32 to 33)

S.No	Activity	Indicate starting and completion time			
		2004-05	2005-06	2006-07	2007-08
1	Extensive use of Media		√	√	√
2	Visits to & Training in Industry	√	√	√	√
3	Invited Lecturers from Industry & field	√	√	√	√
4	Innovation in Teaching		√	√	√

#### 4.11 Improvement in Student Evaluation (see slide 33 for possible evaluation mechanisms)

S.No	Activity	Indicate starting and completion time			
		2004-05	2005-06	2006-07	2007-08
1	Weekly assignments to students		√	√	√
2	Monthly tests		√	√	√
3	Projects from Industry for problem solving		√	√	√

#### 4.12 Research and Consultancy

Activities to be taken for implementation	Indicate starting and completion time			
	2004-05	2005-06	2006-07	2007-08
• Establishment of Research Promotion and Coordination Cell		√	√	√
• Establishment of Consultancy Cell		√	√	√
• Organising state of the art lectures		√	√	√
• Creating R&D facilities for faculty / students	√	√	√	√

#### 4.13 Enhanced Interaction with Industry

Activity	Indicate starting and completion time			
	2004-05	2005-06	2006-07	2007-08
Establish I-I-I Cell		√	√	√
Conduct Continuing Education Programmes		√	√	√
Organising Industrial training of faculty	√	√	√	√
Industrial training of students	√	√	√	√
Undertaking Consultancy	√	√	√	√
Hosting industry R&D centers		√	√	√
Others				

#### 4.14 Tribal Development Plan (TDP)

Identified Activities	Indicate starting and completion time			
	2004-05	2004-05	2006-07	2007-08
Reservation of seats for SC/ ST/ BC	√	√	√	√
GATE coaching for SC/ ST	√	√	√	√
Hostel Facilities	√	√	√	√
Book Bank	√	√	√	√
English Language Laboratory	--	√	√	√
SC/ ST women reservation	√	√	√	√
SC/ ST women hostel facilities	√	√	√	√
SC/ ST women GATE coaching	√	√	√	√
PETCs	√	√	√	√
Teacher Recruitment under Backlogs Posts	√	√	√	√

## UNIT-5

### NETWORKING

#### 5.1 Formal Networking

a) Name of the 1<sup>st</sup> Network Partner : Institute of Science & Technology, JNTU, Hyderabad.

Planned bi-directional activities planned with 1<sup>st</sup> Network Partner

Activities/services/support which outgo from your institution to the network partner No 1	Indicate starting and completion time				Areas of support to be received from Network partner No. 1	Indicate starting and completion time			
	2004-05	2005-06	2006-07	2007-08		2004-05	2005-06	2006 - 07	2007-08
1.Lending Teachers to teach Biochemical Engg. to their students		√	√	√	1.Training to our students in the use of advance instrumentation.		√	√	√
					2.Help of Teachers in M.Tech ( Industrial Biotechnology) course to teach Molecular biology & Genetic engineering.		√	√	√

b) Name of the 2<sup>nd</sup> Network Partner : Srinidhi Institute of Science & Technology, Ghatkesar.

Planned bi-directional activities planned with 2<sup>nd</sup> Network Partner

Activities/services/support which outgo from your institution to the network partner No 2	Indicate starting and completion time				Areas of support to be received from Network partner No. 2	Indicate starting and completion time			
	2004-05	2005-06	2006-07	2007-08		2004-05	2005-06	2006-07	2007-08
1.Lending Teachers to teach Bio-Chemical Engg. & Food Technology in B.Tech (Bio-Technology) Programme		√	√	√	1.Training our students in Intellectual Property Rights		√	√	√
2.Guest Lectures in Downstream Processing		√	√	√	2.Molecular Biology		√	√	√
					3.Biochemistry		√	√	√
					4.Genetic Engineering		√	√	√
					5.Downstream Processing Laboratory methods		√	√	√
					6.Performance appraisal strategy for teachers		√	√	√
					7.Personality development strategy for students		√	√	√

c) Name of the 3<sup>rd</sup> Network Partner : Osmania University Engineering College

Planned bi-directional activities planned with 3<sup>rd</sup> Network Partner

Activities/services/support which outgo from your institution to the network partner No 3	Indicate starting and completion time				Areas of support to be received from Network partner No. 3	Indicate starting and completion time			
	2004-05	2005-06	2006-07	2007-08		2004-05	2005-06	2006-07	2007-08
1.Teachers will be sent to teach few subjects in B.E (Biomedical Engg.)		√	√	√	1.Our students will be trained in their Workshop, Mechanical Engg. Laboratories & Computer laboratories		√	√	√
2.Library Facilities		√	√	√	2.Library Facilities		√	√	√
3.Seminars		√	√	√	3.Seminars		√	√	√

d) Name of the 4<sup>th</sup> Network Partner : Andhra University Engineering College

Planned bi-directional activities planned with 4<sup>th</sup> Network Partner

Activities/services/support which outgo from your institution to the network partner No 4	Indicate starting and completion time				Areas of support to be received from Network partner No. 4	Indicate starting and completion time			
	2004-05	2005-06	2006-07	2007-08		2004-05	2005-06	2006-07	2007-08
1.Exchange of Faculty for Chemical Engineering & Biotechnology		√	√	√	1.Guest lecturer for Petroleum Engineering & Electrochemical Engineering		√	√	√

e) Name of the 5th Network Partner : National Institute of Technology, Warangal.

Planned bi-directional activities planned with 5<sup>th</sup> Network Partner

Activities/services/support which outgo from your institution to the network partner No 5	Indicate starting and completion time				Areas of support to be received from Network partner No. 5	Indicate starting and completion time			
	2004-05	2005-06	2006-07	2007-08		2004-05	2005-06	2006-07	2007-08
1.Guest Lecturer in Bio-Chemical engineering & Downstream Processing		√	√	√	1.Training to our students in the use of Advanced Instrumentation such as: i)Scanning Electron Microscope ii)Metallurgical Microscope iii)X-ray Diffractometer iv)Micro Computer controlled distillation column.		√	√	√
2.Training to their students in the Bio-Technology Laboratory		√	√	√					

f) Name of the 6<sup>th</sup> Network Partner : Bapatla Engineering College

Planned bi-directional activities planned with 6<sup>th</sup> Network Partner

Activities/services/support which outgo from your institution to the network partner No 6		Indicate starting and completion time				Areas of support to be received from Network partner No. 6	Indicate starting and completion time			
		2004-05	2005-06	2006-07	2007-08		2004-05	2005-06	2006-07	2007-08
Sharing of expertise, Research facilities, Special equipment etc. in the Depts, mentioned below.		√	√			1. Sharing of special equipment available in the Departments of Chemical Engineering and Biotechnology.		√		
1	Biotech-nology									
2	Ch. Engg.	a	Separation Process							
		b	Heat Transfer							

## 5.2 Non-Formal Networking

Activities to be undertaken	Name of the organization with which networked	Indicate starting and completion time			
		2004-05	2005-06	2006-07	2007-08
MOU has been already signed. Every year upto 10 Research scholars are being admitted into Ph.D programme of this college	Indian Institute of Chemical Technology, Tarnaka, Hyderabad.	√	√	√	√

## UNIT-6

### SERVICES TO COMMUNITY AND ECONOMY

**6.1 Services to Community and Economy** [these should be planned to be rendered with the involvement of all the Departments, Faculty, Staff and Students]. Suggested Activities: (pages 13 & 14 of PIP and slides 47, 48, 49)

- a) Services to be Rendered to the Community [the community should be in the vicinity of the institution]

Identified Activities	Indicate starting and completion time			
	2004-05	2005-06	2006-07	2007-08
Encouragement of Cottage industries to meet daily needed products.		√	√	√

- b) Services to be extended to the unorganized sector

S.No	Identified Activities	Indicate starting and completion time			
		2004-05	2004-05	2006-07	2007-08
1	Increasing earnings of Loom owners by producing quality fabrics		√	√	√
2	Training of dyeing personnel in the use of natural dye		√	√	√

- c) Services to be extended to the organized sector (suggested activities could be Continuing Education Programmes, specialized training sought by industry etc) Please refer to page 14 of PIP

Identified Activities	Indicate starting and completion time			
	2004-05	2005-06	2006-07	2007-08
Increasing safety in industry		√	√	√
Extension lectures to labour force of Chemical & Pharmaceutical Industry, workshops for textile industry personnel.		√	√	√

## **UNIT-7**

### **Overall Programme Life Time Financial requirements for Institutional Development**

Institutions should sum the expected resource requirement for different years for all the activities proposed under Institutional Development (Academic Excellence, Networking, Services to Community and Economy and Tribal Development Plan) in the formats given in para 7.1 to 7.6.

If there is no fund requirement under any of the expenditure categories or sub-categories or in any project year, this should be shown as 0.00.

## 7.1 Promotion of Academic Excellence (Financial Requirement) – Total of 7.1.1 to 7.1.5

(Rs in Million)

S.No.	Category of Expenditure	* Allocation indicated to institution	* Proposed reappropriation of allocation of col.3	* Additional funds required to meet priorities	Total project life time allocation	Year-wise fund requirement for the remaining period of Project			
						2004-05	2005-06	2006-07	2007-08
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
<b>(A)</b>	<b>INVESTMENT COST</b>								
1.	Civil Works*				11.870	3.561	8.3090	0.0	0.00
2.	Equipment				75.748	15.1496	37.874	15.1496	7.5748
3.	Furniture				1.822	0.3644	0.9110	0.3644	0.1822
4.	Vehicles				0.250	0.05	0.1250	0.05	0.025
5.	Books and Learning Resources				0.450	0.09	0.2250	0.09	0.045
6.	Consultancy Services** & Research Studies				1.000	0.20	0.500	0.20	0.1
7.	Training/Study Tours/Fellowships (Local & Foreign)				8.584	1.7168	4.292	1.7168	0.8584
<b>Sub Total (A)</b>					<b>99.724</b>	<b>21.1318</b>	<b>52.236</b>	<b>17.5708</b>	<b>8.7854</b>
<b>(B)</b>	<b>INCREMENTAL OPERATING COST ***</b>								
8.	Salaries for Additional Key Faculty and Staff				3.648	0.7296	0.912	1.0944	0.912
9.	Consumables				0.440	0.088	0.220	0.088	0.0440
10.	Operation & Maintenance				13.502	2.7004	6.751	2.7004	1.3502
<b>Sub Total (B)</b>					<b>17.590</b>	<b>3.518</b>	<b>7.883</b>	<b>3.8828</b>	<b>2.3062</b>
<b>Grand Total (A+B)</b>					<b>117.314</b>	<b>24.6498</b>	<b>60.1190</b>	<b>21.4536</b>	<b>11.0916</b>

\*Restricted to 10% of Project - life time allocation

\*\* Consultancy may be given for civil works, procurement of goods, implementation of fellowship programs, educational studies, academic activities and other activities

\*\*\* Restricted to 15% of Project life time allocation

\* Left blank as per the instruction of NPIU

## 7.1.1 Tribal Development Plan

(Rs in Million)

S.No.	Category of Expenditure	* Allocation indicated to institution	* Proposed reappropriation of allocation of col.3	* Additional funds required to meet priorities	Total project life time allocation	Year-wise fund requirement for the remaining period of Project			
						2004-05	2005-06	2006-07	2007-08
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
<b>(A)</b>	<b>INVESTMENT COST</b>								
1.	Equipment				0.00	0.00	0.00	0.00	0.00
2.	Furniture				0.00	0.00	0.00	0.00	0.00
3.	Books and Learning Resources				0.00	0.00	0.00	0.00	0.00
4.	Training/Workshop				0.160	0.032	0.08	0.032	0.016
<b>Sub Total (A)</b>					<b>0.160</b>	<b>0.032</b>	<b>0.08</b>	<b>0.032</b>	<b>0.016</b>
<b>(B)</b>	<b>INCREMENTAL OPERATING COST</b>								
5.	Salaries for Additional Key Faculty and Staff (only honorarium)								
6.	Consumables				0.00	0.00	0.00	0.00	0.00
7.	Operation & Maintenance				0.00	0.00	0.00	0.00	0.00
<b>Sub Total (B)</b>					<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>Grand Total (A+B)</b>					<b>0.160</b>	<b>0.032</b>	<b>0.08</b>	<b>0.032</b>	<b>0.016</b>

\* Left blank as per the instruction of NPIU

## 7.1.2 Institutional Management Capacity Development

(Rs in Million)

S.No.	Category of Expenditure	* Allocation indicated to institution	* Proposed reappropriation of allocation of col.3	* Additional funds required to meet priorities	Total project life time allocation	Year-wise fund requirement for the remaining period of Project			
						2004-05	2005-06	2006-07	2007-08
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
<b>(A)</b>	<b>INVESTMENT COST</b>								
1.	Training/Study Tours/Fellowships (Local & Foreign)				1.500	0.300	0.750	0.30	0.15
	<b>Total</b>				1.500	0.300	0.750	0.30	0.15

\* Left blank as per the instruction of NPIU

### 7.1.3 Implementation of Reforms

(Rs in Million)

S.No.	Category of Expenditure	* Allocation indicated to institution	* Proposed reappropriation of allocation of col.3	* Additional funds required to meet priorities	Total project life time allocation	Year-wise fund requirement for the remaining period of Project			
						2004-05	2005-06	2006-07	2007-08
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
<b>(A)</b>	<b>INVESTMENT COST</b>								
1.	Books and Learning Resources				0.00	0.00	0.00	0.00	0.00
2.	Consultancy Services & Research Studies				0.200	0.04	0.10	0.04	0.02
3.	Training/Study Tours/Fellowships (Local & Foreign)				1.500	0.30	0.75	0.30	0.15
<b>Sub Total (A)</b>					<b>1.700</b>	<b>0.34</b>	<b>0.85</b>	<b>0.34</b>	<b>0.17</b>
<b>(B)</b>	<b>INCREMENTAL OPERATING COST</b>								
4.	Consumables				0.005	0.001	0.0025	0.001	0.0005
5.	Operation & Maintenance				0.10	0.02	0.05	0.02	0.01
<b>Sub Total (B)</b>					<b>0.105</b>	<b>0.021</b>	<b>0.0525</b>	<b>0.021</b>	<b>0.0105</b>
<b>Grand Total (A+B)</b>					<b>1.805</b>	<b>0.361</b>	<b>0.9025</b>	<b>0.361</b>	<b>0.1805</b>

\* Left blank as per the instruction of NPIU

## 7.1.4 Project Monitoring and Implementation

(Rs in Million)

S.No.	Category of Expenditure	* Allocation indicated to institution	* Proposed reappropriation of allocation of col.3	* Additional funds required to meet priorities	Total project life time allocation	Year-wise fund requirement for the remaining period of Project			
						2004-05	2005-06	2006-07	2007-08
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
<b>(A)</b>	<b>INVESTMENT COST</b>								
1.	Consultancy Services& Research Studies				0.200	0.04	0.10	0.04	0.02
2.	Training/Study Tours/Fellowships (Local & Foreign)				1.200	0.24	0.60	0.24	0.12
<b>Sub Total (A)</b>					1.400	0.28	0.70	0.28	0.14
<b>(B)</b>	<b>INCREMENTAL OPERATING COST</b>								
3.	Consumables				0.005	0.001	0.0025	0.001	0.0005
4.	Operation & Maintenance				0.10	0.02	0.05	0.02	0.01
<b>Sub Total (B)</b>					0.105	0.021	0.0525	0.021	0.0105
<b>Grand Total (A+B)</b>					1.505	0.301	0.7525	0.301	0.1505

\* Left blank as per the instruction of NPIU

**7.1.5 Financial Requirement for Promotion of Academic Excellence other than Tribal Development (7.1.1), Institutional Management Capacity Development (7.1.2), Implementation of Reforms (7.1.3) and Project Monitoring and Implementation**

(Rs in Million)

S.No.	Category of Expenditure	* Allocation indicated to institution	* Proposed reappropriation of allocation of col.3	* Additional funds required to meet priorities	Total project life time allocation	Year-wise fund requirement for the remaining period of Project			
						2004-05	2005-06	2006-07	2007-08
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
<b>(A)</b>	<b>INVESTMENT COST</b>								
1.	Civil Works*				11.870	3.561	8.3090	0.0	0.00
2.	Equipment				75.748	15.1496	37.874	15.1496	7.5748
3.	Furniture				1.822	0.3644	0.9110	0.3644	0.1822
4.	Vehicles				0.250	0.05	0.1250	0.05	0.025
5.	Books and Learning Resources				0.450	0.09	0.2250	0.09	0.045
6.	Consultancy Services** & Research Studies				0.600	0.12	0.30	0.12	0.06
7.	Training/Study Tours/Fellowships (Local & Foreign)				4.224	0.8448	2.112	0.8448	0.4224
<b>Sub Total (A)</b>					<b>94.964</b>	<b>20.1798</b>	<b>49.856</b>	<b>16.6188</b>	<b>8.3094</b>
<b>(B)</b>	<b>INCREMENTAL OPERATING COST ***</b>								
8.	Salaries for Additional Key Faculty and Staff				3.648	0.7296	0.912	1.0944	0.912
9.	Consumables				0.430	0.086	0.215	0.086	0.043
10.	Operation & Maintenance				13.302	2.6604	6.651	2.6604	1.3302
<b>Sub Total (B)</b>					<b>17.38</b>	<b>3.476</b>	<b>7.778</b>	<b>3.8408</b>	<b>2.2852</b>
<b>Grand Total (A+B)</b>					<b>112.344</b>	<b>23.6558</b>	<b>57.634</b>	<b>20.4596</b>	<b>10.5946</b>

\*Restricted to 10% of Project - life time allocation

\*\* Consultancy may be given for civil works, procurement of goods, implementation of fellowship programs, educational studies, academic activities and other activities

\*\*\* Restricted to 15% of Project life time allocation

\* Left blank as per the instruction of NPIU

## 7.2 Networking (Financial Requirement)

(Rs in Million)

S.No.	Category of Expenditure	* Allocation indicated to institution	* Proposed reappropriation of allocation of col.3	* Additional funds required to meet priorities	Total project life time allocation	Year-wise fund requirement for the remaining period of Project			
						2004-05	2005-06	2006-07	2007-08
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
<b>(A)</b>	<b>INVESTMENT COST</b>								
1.	Equipment*				0.876	0.1752	0.438	0.1752	0.0876
2.	Training/Workshop				0.15	0.03	0.075	0.03	0.015
<b>Sub Total (A)</b>					<b>1.026</b>	<b>0.2052</b>	<b>0.513</b>	<b>0.2052</b>	<b>0.1026</b>
<b>(B)</b>	<b>INCREMENTAL OPERATING COST</b>								
3.	Consumables				0.005	0.001	0.0025	0.001	0.0005
4.	Operation & Maintenance				0.10	0.02	0.05	0.02	0.01
<b>Sub Total (B)</b>					<b>0.105</b>	<b>0.021</b>	<b>0.0525</b>	<b>0.021</b>	<b>0.0105</b>
<b>Grand Total (A+B)</b>					<b>1.131</b>	<b>0.2262</b>	<b>0.5655</b>	<b>0.2262</b>	<b>0.1131</b>

\*Equipment needed for communication between Institutions such as video conferencing etc.

\* Left blank as per the instruction of NPIU

### 7.3 Services to Community & Economy (Financial Requirement)

(Rs in Million)

S.No.	Category of Expenditure	* Allocation indicated to institution	* Proposed reappropriation of allocation of col.3	* Additional funds required to meet priorities	Total project life time allocation	Year-wise fund requirement for the remaining period of Project			
						2004-05	2005-06	2006-07	2007-08
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
<b>(A)</b>	<b>INVESTMENT COST</b>								
1.	Training/Workshop				0.15	0.03	0.075	0.03	0.015
<b>Sub Total (A)</b>					<b>0.15</b>	<b>0.03</b>	<b>0.075</b>	<b>0.03</b>	<b>0.015</b>
<b>(B)</b>	<b>INCREMENTAL OPERATING COST</b>								
2.	Consumables				0.005	0.001	0.0025	0.001	0.0005
3.	Operation & Maintenance				0.10	0.02	0.05	0.02	0.01
<b>Sub Total (B)</b>					<b>0.105</b>	<b>0.021</b>	<b>0.0525</b>	<b>0.021</b>	<b>0.0105</b>
<b>Grand Total (A+B)</b>					<b>0.255</b>	<b>0.051</b>	<b>0.1275</b>	<b>0.051</b>	<b>0.0255</b>

\* Left blank as per the instruction of NPIU

## 7.4 Category wise Total Allocation

This Table is total of the figures given in Table 7.1, 7.2 and 7.3. Also provide Project lifetime allocation based on the formula given at the end of this table.

(Rs in Million)

S.No.	Category of Expenditure	* Allocation indicated to institution	* Proposed reappropriation of allocation of col.3	* Additional funds required to meet priorities	Total project life time allocation)	Year-wise fund requirement for the remaining period of Project			
						2004-05	2005-06	2006-07	2007-08
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
<b>(A)</b>	<b>INVESTMENT COST</b>								
1.	Civil Works*				11.870	3.561	8.3090	0.0	0.00
2.	Equipment				76.624	15.3248	38.312	15.3248	7.6624
3.	Furniture				1.822	0.3644	0.9110	0.3644	0.1822
4.	Vehicles				0.250	0.05	0.1250	0.05	0.025
5.	Books and Learning Resources				0.450	0.09	0.2250	0.09	0.045
6.	Consultancy Services** & Research Studies				1.000	0.20	0.500	0.20	0.1
7.	Training/Study Tours/Fellowships (Local & Foreign)				8.884	1.7768	4.442	1.7768	0.8884
<b>Sub Total (A)</b>					<b>100.900</b>	<b>21.367</b>	<b>52.824</b>	<b>17.806</b>	<b>8.903</b>
<b>(B)</b>	<b>INCREMENTAL OPERATING COST ***</b>								
8.	Salaries for Additional Key Faculty and Staff				3.648	0.7296	0.9120	1.0944	0.9120
9.	Consumables				0.450	0.09	0.225	0.09	0.045
10.	Operation & Maintenance				13.702	2.7404	6.851	2.7404	1.3702
<b>Sub Total (B)</b>					<b>17.800</b>	<b>3.56</b>	<b>7.988</b>	<b>3.9248</b>	<b>2.3272</b>
<b>Grand Total (A+B)</b>					<b>118.700</b>	<b>24.927</b>	<b>60.812</b>	<b>21.7308</b>	<b>11.2302</b>

\*Restricted to 10% of Project - life time allocation

\*\* Consultancy may be given for civil works, procurement of goods, implementation of fellowship programs, educational studies, academic activities and other activities

\*\*\* Restricted to 15% of Project life time allocation

\* Left blank as per the instruction of NPIU

## 7.5 Component Wise Financial Requirement

(Rs in Million)

S.No.	Category of Expenditure	* Allocation indicated to institution	* Proposed reappropriation of allocation of col.3	* Additional funds required to meet priorities	Total project life time allocation	Year-wise fund requirement for the remaining period of Project			
						2004-05	2005-06	2006-07	2007-08
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
<b>(A)</b>	<b>INVESTMENT COST</b>								
1.	Promotion of Academic Excellence (Total of 7.1)				117.314	23.4628	58.657	23.4628	11.7314
2.	Networking (Total of 7.2)				1.131	0.2262	0.5655	0.2262	0.1131
3.	Services to Community & Economy (Total of 7.3)				0.255	0.051	0.1275	0.051	0.0255
<b>Total</b>					<b>118.700</b>	<b>23.740</b>	<b>59.35</b>	<b>23.74</b>	<b>11.870</b>

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## UNIT-8

### Programme Implementation and Monitoring Mechanisms

#### Formation of various Committees to look after the following Activities:-

##### I. Implementation of Academic Excellence Committee :-

###### Activities :-

1. *Implementation of academic excellence activities*
2. *Promoting research and consultancy – research and consultancy cell*
3. *Faculty and staff development*

1. Prof. J.S.N.Murthy	-	Chairman
2. Sri. Maqdoom Mohiuddin	-	Member
3. Dr. J.Hayavadana	-	Member
4. Dr. Kavita Waghray	-	Member

##### II. Procurement of Civil Works & Goods Committee :-

###### Activities :-

1. *Procurement of Civil Works*
2. *Procurement of Goods*

1. Prof. S.S.Sridharan	-	Chairman
2. Dr. D.Jaya Prakash	-	Member
3. Sri. P.Venkat Reddy	-	Member
4. Dr. P.Laxminarayana	-	Member

##### III. Networking Committee :-

###### Activities :-

1. *Networking*
2. *Services to Community & Economy*
3. *Industry Institute Interaction*
4. *Tribal development activities*

1. Prof. P.Amareshwar	-	Chairman
2. Dr. A.Ravindernath	-	Member
3. Dr. E.Nagabhushan	-	Member
4. Sri. P.Raja Rao	-	Member

##### IV. Implementation of Reforms Committee :

###### Activities

1. *Implementation of reforms*
2. *Ensuring improvements in administrative and financial practices*
3. *Ensuring Auditing quality of Education, Training and Services*
4. *Monitoring implementation of the Programme*

1. Prof. S.Venkateshwar	-	Chairman
2. Dr. V.V.Basava Rao	-	Member
3. Sri. R.Shyam Sundar	-	Member
4. Dr. K.S.K.Rao Patnaik	-	Member

#### V. Conducting Audit Committee :-

##### Activities:-

1. Conducting Auditing quality of Education, Training and Services
2. Conducting Audit of administrative, managerial and financial practices
3. Monitoring implementation of reforms
4. Monitoring compliance with MOU
5. Monitoring implementation of Tribal development activities.

1. Prof. T.Sankarshana	-	Chairman
2. Sri. S.Ram Mohan Rao	-	Member
3. Dr. P.Ravindra	-	Member

#### VI. Preparing Quarterly Reports Committee :-

##### Activities : -

1. Preparing quarterly reports on progress in project and reforms implementation, internal audits and compliance with conditions of MOU
2. Submitting quarterly reports to their respective BOG and SPFU (in case of centrally funded institutions to BTE in DSHE)

1. Prof. I.V.Rao	-	Chairman
2. Sri. Ch.Sailu	-	Member
3. Sri. Srinivas Maloo	-	Member
4. Dr. V.Ramesh Kumar	-	Member

#### VII. Ensuring Achievement of Targets Committee:-

##### Activities:-

1. Ensuring achievement of targets set for Output Indicators

1. Prof. S.Subrahmaniyam	-	Chairman
2. Sri. D.Venugopal	-	Member
3. Smt. P.Shashikala	-	Member
4. Dr. G.Prabhaker Reddy	-	Member

All the above committees will meet regularly on bi-monthly basis to review the progress of various aspects assigned to them.

# **TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME**

**FINE TUNING OF CONCISE  
INSTITUTIONAL PROPOSALS  
(DECEMBER 2004)**



UNIVERSITY COLLEGE OF TECHNOLOGY  
**(AUTONOMOUS)**  
**Osmania University, Hyderabad – 500 007.**

**Output indicators**

**NOTE: UNLESS SPECIFIED, GIVE DATA IN NUMBERS. WHERE FINANCIAL INFORMATION IS REQUIRED GIVE VALUE IN RS. MILLIONS**

S. No.	Indicators		Baseline Date		June	June	June	June	June
			June 2003		04	05	06	07	08
1.	Increased number of high quality graduates (first degree) in relevant and cutting edge technologies	All (relevant) Engineering Disciplines including Cutting Edge Technology	A 91	B 30	B4 36	B5 40	B6 45	B7 50	B8 60
		Cutting Edge Technology Disciplines only	C --	D --	D4 --	D5 --	D6 --	D7 --	D8 --
<ul style="list-style-type: none"> <li>• High quality graduates are those who score 75% or more marks or equivalent GPA in the aggregate at graduation.</li> <li>• Example of cutting edge technology disciplines are: Electronics &amp; Communications, Computer Science &amp; Engineering, Information Technology, Biotechnology, Bio-informatics, Bio-medical Engineering, etc. → NIL</li> <li>• At A, give the total number of students that graduated in all engineering disciplines in 2003.</li> <li>• At B, give the total number of graduates who were of high quality (as defined above) from the batch graduating in 2002 or 2003.</li> <li>• At B4, B5, B6, B7 and B8, give the increased number of high quality graduates; the increase in each year should be about 10% of the value at B (if for example the value at B is 30, then the increased values in the subsequent years would be 33, 36, 39, 42 and 45).</li> <li>• Following the above guidelines, please give the values for C, D, D4....D8.</li> </ul>									
			Baseline Date		June	June	June	June	June
			June 2003		04	05	06	07	08
2.	Increased number of students completing in engineering disciplines	Master's degree	19	21	23	25	26	26	
		Doctoral degree	3	3	4	4	6	6	

<ul style="list-style-type: none"> <li>At M and P, give the number of students who completed Master's and Doctoral program is 2003, and for the subsequent years, give the expected increased number of students obtaining Master's and Doctorate degrees.</li> </ul>								
			<b>Baseline Date (June 2003)</b>	<b>June 04</b>	<b>June 05</b>	<b>June 06</b>	<b>June 07</b>	<b>June 08</b>
3.	Increased professional outputs	Publications (Number)	36	43	40	42	44	45
		Academic Products (Number)	1 book	1	1	1	1	1
		R & D Products of Commercial use (Number)	0	1	1	1	1	1
		Patents (obtained / applied for) (Number)	0	0	0	1	1	1
<ul style="list-style-type: none"> <li>Please give baseline data for 2003 only.</li> <li>Give the anticipated increased numbers for the subsequent years.</li> <li>Under Publications, include all papers published in refereed journals and those presented in National and International Conferences (papers could be research papers, invited review papers, etc.). Popular articles, newspapers articles and radio / TV talks should be excluded.</li> <li>Under Academic product include books, monographs, conference proceedings and educational software.</li> </ul>								
			<b>Baseline Date (June 2003)</b>	<b>June 04</b>	<b>June 05</b>	<b>June 06</b>	<b>June 07</b>	<b>June 08</b>
4.	Number of Joint programs / activities	Externally funded research, design and development projects (both ongoing and completed)	NIL	Nil	Nil	1	1	1
		Consultancy assignments (both ongoing and completed)	NIL	Nil	Nil	1	1	1
		Publications	Nil	Nil	Nil	1	2	2
		Training programs conducted	Nil	Nil	Nil	1	1	1
		Joint research guidance at Ph.D. level	3	2	5	5	6	6

<ul style="list-style-type: none"> <li>Joint programs are those that are carried out jointly by two or more networked institutions.</li> <li>Under publications, include jointly published papers, books, monographs and conference proceedings and educational software developed.</li> <li>Give base value for 2003 only.</li> <li>Give the anticipated increased numbers in the subsequently years.</li> </ul>							
		<b>FY</b>	<b>2003-04</b>	<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>
5.	Increased revenue generation (Rs. In millions)		RC 22.6 IRG2.57	IRG 3.2	IRG 3.2	IRG 3.2	IRG 3.2
<ul style="list-style-type: none"> <li>Against RC, give the total recurring expenditure during FY 2003-04.</li> <li>Against IRG, give the total internal revenue generated during FY 2003-04. IRG is to include income from all sources including tuition fees and other charges collected from students.</li> <li>For subsequent Financial years, give the anticipated increased values of IRG that would be generated.</li> </ul>							
6.	Services to Community & Economy	<b>Baseline Date (June 2003)</b>	<b>June 04</b>	<b>June 05</b>	<b>June 06</b>	<b>June 07</b>	<b>June 08</b>
	a) Total No. of Programmes	3	3	4	5	5	7
	b) Total No. of Participants of all types	50	70	85	100	100	120
	Increased access to technical training for socially disadvantaged groups and unemployed youth	a) Total No. of Participants from socially disadvantaged groups	Nil	20	25	30	30
		b) Total No. of unemployed youth	Nil	20	20	20	20
		c) Total No of programmes offered	Nil	1	1	1	1
	Increased services to industry	a) Total Number of Training Programmes offered	1	1	1	2	2
		b) Total Number of Industry Personnel to be benefited	20	20	20	30	30
	Increased assistance to unorganized sector	a) Total No. of programmes	1	1	2	2	3

		b) Total No. of Participants	10	10	20	20	20	30
<ul style="list-style-type: none"> <li>Give baseline data for 2003-2004.</li> <li>Give expected increased numbers for the subsequent years.</li> </ul>								
			<b>Baseline Date (June 2003)</b>	<b>June 04</b>	<b>June 05</b>	<b>June 06</b>	<b>June 07</b>	<b>June 08</b>
7.	Increased availability of well-trained institution managers		0	2	4	6	6	6
<ul style="list-style-type: none"> <li>Institution managers would include Head of Institution, Deans, Heads of Departments, Registrar, Deputy Registrar, Comptroller / Finance Officer, Training &amp; Placement Office, etc.</li> <li>Well-trained implies those who have undergone formal training.</li> <li>Give baseline data for the numbers available within the institutions in June 2003.</li> <li>Give expected increased numbers for the subsequent years.</li> </ul>								

## OUTCOME INDICATORS

S. No.	Indicators		Baseline Date June 2003	June 04	June 05	June 06	June 07	June 08
		Employed through campus interviews	A - 4 B - Rs 0.2 Millions annual	8 Rs.0.2 millions annual	10 Rs 0.2 millions annual	15 Rs 0.2 millions annual	20 Rs o.2 millions annual	30 Rs 0.2 millions annual
		Employed through other means	10 Rs 0.1 Millions annual	20 Rs0.15 millions annual	30 Rs0.15 millions annual	35 Rs0.15 million annual	40 Rs0.15 million annual	50 Rs 0.20 millions annual

- This data is to be given for each network for 2002-2003. Lead institutions should collect information from their partner institutions and aggregate the values as the case may be.
- Give the expected increased values for the subsequent years.

3.	Networking		<b>Baseline Date June 2003</b>	<b>June 04</b>	<b>June 05</b>	<b>June 06</b>	<b>June 07</b>	<b>June 08</b>
		No. of faculty - days loaned for academic activities	9	12	15	20	20	20
		No. of student-days for which students sent to other institutions for curricular and	40	50	50	50	50	50
		Joint projects, consultancies, training programs, publications, seminars, workshops etc.	0	0	5	5	5	5
		Joint M.Tech. and Ph.D. programs	0	2	5	5	5	5
		No. of person-days for which labs, workshops and libraries utilized by faculty and students from other institutions which the same network	50	60	60	75	75	75

- This data is to be given for each network for 2002-2003. Lead institutions should collect information from their partner institutions and aggregate the values as the case may be.
- Give the expected increased values for the subsequent years.

			<b>Baseline Date June 2003</b>	<b>June 04</b>	<b>June 05</b>	<b>June 06</b>	<b>June 07</b>	<b>June 08</b>
4.	Improved internal efficiency of the engineering education system	1. No. of teaching days in an academic year	180 days	180 days	180 days	180 days	180 days	180 days
		2. No. of days of slippage from the announced academic calendar	0	0	0	0	0	0

		3. No. of days for completing the admission process	45 days	45	45	45	45	45
		4. Average No. of days taken for fee processing	1 day	1	1	1	1	1
		5. No. of days for completion of semester / annual examination	20 days	20	20	20	20	20
		6. No. of days for declaring results	30 days	30	30	30	30	30
		7. Average No. of Departments that Develop & Maintain question bank	1	1	1	1	1	1
		8. Office expenditure (excluding amount spent on maintenance of equipment and infrastructure)	Rs.0.1 million	0.1 million	0.1 million	0.1 million	0.1 million	0.1 million
		9. Average time taken to order equipment (from advertisement to supply / installation of equipment)	45 days	45	45	45	45	45
		10. Computerized maintenance of student record	low	low	medium	medium	high	High
		11. Ratio of non-teaching staff to faculty	2	2	2	1.5	1.5	1.5
		12. Computerized maintenance of employee record	medium	medium	high	high	Very high	Very high
		13. Average number of days taken for recruitment (from date of advertisement to date of offer of appointment)	90	90	30	30	30	30

		14. Average of No. of faculty that are computer literate	Faculty 100% Staff 10%	Staff 10%	Staff 30%	Staff 40%	Staff 50%	Staff 50%
		15. Extent of computerization of administrative and financial process	Medium	Medium	Medium	High	High	High
		16. Degree of decentralization of decision making	High	High	High	High	High	Very High
<ul style="list-style-type: none"> <li>• The data should be given for each institution. For baseline data, the period / year for which required has been indicated.</li> <li>• Give the expected changed values for subsequent years.</li> <li>• For the last 2 parameters, give base and changed values in subjective terms – very low, low, medium, high, very high</li> </ul>								
			<b>Baseline Date June 2003</b>	<b>June 04</b>	<b>June 05</b>	<b>June 06</b>	<b>June 07</b>	<b>June 08</b>
5.	Increased involvement of institutions with communities	No. of interactions with community	0	0	2	2	2	4
		No. of need / demand-based service programs carried out	0	0	2	2	2	4
		No. of technologies transferred	0	0	1	1	1	1
		No. of beneficiaries from skill-based training programs	0	0	85	90	100	120
<ul style="list-style-type: none"> <li>• Baseline values to be given for 2003-04.</li> <li>• Interactions with community to include interaction both within and outside the institution for the purpose of assessing community needs, identifying programs, preparing action plans for service programs. This should also include follow-up visits after completion of service programs and transfer of technologies.</li> </ul>								





**MEMORANDUM OF UNDERSTANDING  
BETWEEN  
UNIVERSITY COLLEGE OF TECHNOLOGY  
OSMANIA UNIVERSITY, HYDERABAD  
And  
UNIVERSITY COLLEGE OF ENGINEERING  
OSMANIA UNIVERSITY, HYDERABAD**

### **1.0 Background:**

The Government of India (GoI) has decided to bring in systemic transformation of Technical Education in India. This is to be achieved through intensive drive for excellence in the engineering colleges and polytechnics to make the system demand driven, quality conscious and responsive to rapid economic and technological changes occurring both at national and international levels. The system has to be expanded not only to address the needs of organized sector but also to cover the needs of unorganized and rural sectors with its relevance to productivity.

The Technical Education Quality Improvement Project (TEQIP) undertaken by GoI proposes to stimulate emergence of already well performing institutions into lead centers for self-sustaining excellence over the project period and develop multilateral synergistic network with neighboring institutions.

The National Project Implementation Unit (NPIU), implementing agency for TEQIP, has selected University College of Technology, Osmania University, Hyderabad as network institute and University College of Engineering, Osmania University as lead institute for participation in the project.

### **2.0 Project Aim**

**To develop a formal network for bi-directional sharing of the expertise and resources to improve the performance of teaching-learning process to such a level that the institutes emerge as Centers of Excellence in Technical Education, Training and Research.**

### **3.0 The Understanding**

**University College of Technology, Osmania University, Hyderabad as network institution, and University College of Engineering, Osmania University as lead institute under TEQIP jointly through this Memorandum of Understanding (MoU) decide to undertake various activities as listed below (suggested):**

- a) **Maintain career, interest and competency profiles of faculty members**
- b) **Organize lectures of experts of OUCT institute for students of OUCE-OU institute**
- c) **Organizing workshop to non-teaching laboratory staff**
- d) **Make available library and learning resources to visiting faculty**
- e) **Develop and work on joint proposal of research and consultancy**
- f) **Organize jointly continuing education program for professionals**
- g) **Organize seminars, conferences and workshops on topics of general interest**
- h) **Organize training and lectures on emerging and thrust areas**
- i) **Share and assist in curriculum development**
- j) **Nominate faculty members of each institute to academic bodies of other institutes**
- k) **Make arrangement of stay in hostel for visiting faculty**
- l) **Proved help to develop mutual relations with other institutes, industry, non-government organization and local bodies to provide the service to community and economy.**

**For implementing and monitoring of Project University College of Technology, Osmania University and University College of Engineering, Osmania University also agree that:**

- a) **The networking between University College of Technology, Osmania University and University College of Engineering, Osmania University will be implemented by creating a Networking Coordination Cell both at University College of Technology, Osmania University and University College of Engineering, Osmania University.**

- b) Each such cell will be headed by a faculty nominated by the Principals of the University College of Technology, Osmania University and University College of Engineering, Osmania University who shall be designated as network coordinator and whose main responsibility will be to execute and coordinate all activities envisaged under this MoU.
- c) University College of Technology, Osmania University and University College of Engineering, Osmania University will constitute a Network Coordinator Committee (NCC) for regular monitoring of the activities and achieving the set targets. The committee will meet at least once in six months and review the progress.
- d) The composition of the committee shall be the following:
- |  |          |
|--|----------|
| i. Principal & Secretary / Director, Univ. College of Technology, OU | Chairman |
| ii. Principal, University College of Engineering, OU                 | Member   |
| iii. One Professor of Univ. College of Technology, OU                | Member   |
| iv. One Professor of University College of Engineering, OU           | Member   |
| v. Network Coordinator, Univ. College of Technology, OU              | Member   |
| vi. Network Coordinator, University College of Engineering, OU       | Member   |
| vii. One SPFU Officer nominated by SPFU Head                         | Member   |
- e) The Networking Coordinators from University College of Technology and University College of Engineering, Osmania University will meet at least one in three months to assess the benefits of networking and re resolve any problems that are being faced. A networking progress report will be prepared by the Network Coordinators on a quarterly basis, which will be submitted to SPFU Head for onward transmission to NPIU.

**Regarding the financial agreements during the project implementation; University College of Technology, Osmania University and University College of Engineering, Osmania University further agree to:**

- a) Both the institutes will engage services of the existing faculty and staff for networking arrangement and no additional staff will be provided. Such staff will not be provided any honorarium
- b) Both the institutes will utilize existing infrastructure for networking arrangement and will create new facilities at the cost of TEQIP
- c) All expenses in connection with implementation and monitoring such as TA / DA, boarding / lodging and conveyance of students / faculty / researchers will be borne by TEQIP

#### **4.0 Settlement of Disputes**

In case of any dispute / differences of opinion or any such matter, decision of the Head of the SPFU will be final and binding on both the parties concerned.

#### **5.0 Termination of MoU**

If necessary, NCC will meet review the contents of the MoU and will expand the scope of the MoU as per requirement. The MoU can be terminated by mutual consent of the parties involved with permission from SPFU / NPIU.

Signature on behalf of  
University College of Technology, Osmania University, Hyderabad

Signed on behalf of  
University College of Engineering, Osmania University

In presence of  
Project Director, SPFU, Andhra Pradesh State

**MEMORANDUM OF UNDERSTANDING  
BETWEEN  
UNIVERSITY COLLEGE OF TECHNOLOGY  
OSMANIA UNIVERSITY, HYDERABAD  
And  
INSTITUTE OF SCIENCE & TECHNOLOGY  
JNTU. HYDERABAD**

### **1.0 Background:**

The Government of India (GoI) has decided to bring in systemic transformation of Technical Education in India. This is to be achieved through intensive drive for excellence in the engineering colleges and polytechnics to make the system demand driven, quality conscious and responsive to rapid economic and technological changes occurring both at national and international levels. The system has to be expanded not only to address the needs of organized sector but also to cover the needs of unorganized and rural sectors with its relevance to productivity.

The Technical Education Quality Improvement Project (TEQIP) undertaken by GoI proposes to stimulate emergence of already well performing institutions into lead centers for self-sustaining excellence over the project period and develop multilateral synergistic network with neighboring institutions.

The National Project Implementation Unit (NPIU), implementing agency for TEQIP, has selected University College of Technology, Osmania University, Hyderabad as network institute and Institute of Science & Technology, JNTU, Hyderabad as network institute for participation in the project.

### **2.0 Project Aim**

**To develop a formal network for bi-directional sharing of the expertise and resources to improve the performance of teaching-learning process to such a level that the institutes emerge as Centers of Excellence in Technical Education, Training and Research.**

### **3.0 The Understanding**

**University College of Technology, Osmania University, Hyderabad as network institution, and Institute of Science & Technology, JNTU, Hyderabad as network institute under TEQIP jointly through this Memorandum of Understanding (MoU) decide to undertake various activities as listed below (suggested):**

- a) Maintain career, interest and competency profiles of faculty members**
- b) Organize lectures of experts of OUCT institute for students of Institute of Science & Technology, JNTU, Hyderabad**
- c) Organizing workshop to non-teaching laboratory staff**
- d) Make available library and learning resources to visiting faculty**
- e) Develop and work on joint proposal of research and consultancy**
- f) Organize jointly continuing education program for professionals**
- g) Organize seminars, conferences and workshops on topics of general interest**
- h) Organize training and lectures on emerging and thrust areas**
- i) Share and assist in curriculum development**
- j) Nominate faculty members of each institute to academic bodies of other institutes**
- k) Make arrangement of stay in hostel for visiting faculty**
- l) Provide help to develop mutual relations with other institutes, industry, non-government organization and local bodies to provide the service to community and economy.**

**For implementing and monitoring of Project University College of Technology, Osmania University and Institute of Science & Technology, JNTU, Hyderabad also agree that:**

- a) The networking between University College of Technology, Osmania University and Institute of Science & Technology, JNTU, Hyderabad will be implemented by creating a Networking Coordination Cell both at University College of Technology, Osmania University and Institute of Science & Technology, JNTU, Hyderabad.**

- b) Each such cell will be headed by a faculty nominated by the Principals of the University College of Technology, Osmania University and Institute of Science & Technology, JNTU, Hyderabad who shall be designated as network coordinator and whose main responsibility will be to execute and coordinate all activities envisaged under this MoU.
- c) University College of Technology, Osmania University and Institute of Science & Technology, JNTU, Hyderabad will constitute a Network Coordinator Committee (NCC) for regular monitoring of the activities and achieving the set targets. The committee will meet at least once in six months and review the progress.
- d) The composition of the committee shall be the following:
- |   |          |
|---|----------|
| i. Principal & Secretary / Director, Univ. College of Technology, OU        | Chairman |
| ii. Principal, Institute of Science & Technology, JNTU, Hyderabad           | Member   |
| iii. One Professor of Univ. College of Technology, OU                       | Member   |
| iv. One Professor of Institute of Science & Technology, JNTU, Hyderabad     | Member   |
| v. Network Coordinator, Univ. College of Technology, OU                     | Member   |
| vi. Network Coordinator, Institute of Science & Technology, JNTU, Hyderabad | Member   |
| vii. One SPFU Officer nominated by SPFU Head                                | Member   |
- e) The Networking Coordinators from University College of Technology and Institute of Science & Technology, JNTU, Hyderabad will meet at least one in three months to assess the benefits of networking and re resolve any problems that are being faced. A networking progress report will be prepared by the Network Coordinators on a quarterly basis, which will be submitted to SPFU Head for onward transmission to NPIU. Regarding the financial agreements during the project implementation; University College of Technology, Osmania University and Institute of Science & Technology, JNTU, Hyderabad further agree to:
- f) Both the institutes will engage services of the existing faculty and staff for networking arrangement and no additional staff will be provided. Such staff will not be provided any honorarium
- g) Both the institutes will utilize existing infrastructure for networking arrangement and will create new facilities at the cost of TEQIP
- h) All expenses in connection with implementation and monitoring such as TA / DA, boarding / lodging and conveyance of students / faculty / researchers will be borne by TEQIP

#### 4.0 Settlement of Disputes

In case of any dispute / differences of opinion or any such mater, decision of the Head of the SPFU will be final and binding on both the parties concerned.

#### 5.0 Termination of MoU

If necessary, NCC will meet review the contents of the MoU and will expand the scope of the MoU as per requirement. The MoU can be terminated by mutual consent of the parties involved with permission form SPFU / NPIU.

Signature on behalf of  
University College of Technology, Osmania University, Hyderabad

Signed on behalf of  
Institute of Science & Technology, JNTU, Hyderabad

In presence of  
Project Director, SPFU, Andhra Pradesh State

(Page 1 of 3)  
MEMORANDUM OF UNDERSTANDING  
BETWEEN  
UNIVERSITY COLLEGE OF TECHNOLOGY  
OSMANIA UNIVERSITY, HYDERABAD  
And  
BAPATLA COLLEGE OF ENGINEERING  
BAPATLA

### 1.0 Background:

The Government of India (GoI) has decided to bring in systemic transformation of Technical Education in India. This is to be achieved through intensive drive for excellence in the engineering colleges and polytechnics to make the system demand driven, quality conscious and responsive to rapid economic and technological changes occurring both at national and international levels. The system has to be expanded not only to address the needs of organized sector but also to cover the needs of unorganized and rural sectors with its relevance to productivity.

The Technical Education Quality Improvement Project (TEQIP) undertaken by GoI proposes to stimulate emergence of already well performing institutions into lead centers for self-sustaining excellence over the project period and develop multilateral synergistic network with neighboring institutions.

The National Project Implementation Unit (NPIU), implementing agency for TEQIP, has selected University College of Technology, Osmania University, Hyderabad as network institute and Bapatla College of Engineering, Bapatla as network institute for participation in the project.

### 2.0 Project Aim

**To develop a formal network for bi-directional sharing of the expertise and resources to improve the performance of teaching-learning process to such a level that the institutes emerge as Centers of Excellence in Technical Education, Training and Research.**

### 3.0 The Understanding

**University College of Technology, Osmania University, Hyderabad as network institution, and Bapatla College of Engineering, Bapatla as network institute under TEQIP jointly through this Memorandum of Understanding (MoU) decide to undertake various activities as listed below (suggested):**

- a. Maintain career, interest and competency profiles of faculty members**
- b. Organize lectures of experts of OUCT institute for students of Bapatla College of Engineering institute**
- c. Organizing workshop to non-teaching laboratory staff**
- d. Make available library and learning resources to visiting faculty**
- e. Develop and work on joint proposal of research and consultancy**
- f. Organize jointly continuing education program for professionals**

- g. Organize seminars, conferences and workshops on topics of general interest**
- h. Organize training and lectures on emerging and thrust areas**
- i. Share and assist in curriculum development**
- j. Nominate faculty members of each institute to academic bodies of other institutes**
- k. Make arrangement of stay in hostel for visiting faculty**
- l. Provide help to develop mutual relations with other institutes, industry, non-government organization and local bodies to provide the service to community and economy.**

**For implementing and monitoring of Project University College of Technology, Osmania University and Bapatla College of Engineering, Bapatla also agree that:**

- a. The networking between University College of Technology, Osmania University and Bapatla College of Engineering, Bapatla will be implemented by creating a Networking Coordination Cell both at University College of Technology, Osmania University and Bapatla College of Engineering, Bapatla.**
- b. Each such cell will be headed by a faculty nominated by the Principals of the University College of Technology, Osmania University and Bapatla College of Engineering, Bapatla who shall be designated as network coordinator and whose main responsibility will be to execute and coordinate all activities envisaged under this MoU.**
- c. University College of Technology, Osmania University and Bapatla College of Engineering, Bapatla will constitute a Network Coordinator Committee (NCC) for regular monitoring of the activities and achieving the set targets. The committee will meet at least once in six months and review the progress.**
- d. The composition of the committee shall be the following:**
  - i. Principal & Secretary / Director, Univ. College of Technology, OU      Chairman**
  - ii. Principal, Bapatla College of Engineering, Bapatla      Member**
  - iii. One Professor of Univ. College of Technology, OU      Member**
  - iv. One Professor of Bapatla College of Engineering, Bapatla      Member**
  - v. Network Coordinator, Univ. College of Technology, OU      Member**
  - vi. Network Coordinator, Bapatla College of Engineering, Bapatla      Member**
  - vii. One SPFU Officer nominated by SPFU Head      Member**
- e. The Networking Coordinators from University College of Technology and Bapatla College of Engineering, Bapatla will meet at least one in three months to assess the benefits of networking and re resolve any problems that are being faced. A networking progress report will be prepared by the Network Coordinators on a quarterly basis, which will be submitted to SPFU Head for onward transmission to NPIU.**

**Regarding the financial agreements during the project implementation; University College of Technology, Osmania University and Bapatla College of Engineering, Bapatla further agree to:**

- i. Both the institutes will engage services of the existing faculty and staff for networking arrangement and no additional staff will be provided. Such staff will not be provided any honorarium**
- ii. Both the institutes will utilize existing infrastructure for networking arrangement and will create new facilities at the cost of TEQIP**

- iii. All expenses in connection with implementation and monitoring such as TA / DA, boarding / lodging and conveyance of students / faculty / researchers will be borne by TEQIP**

#### **4.0 Settlement of Disputes**

In case of any dispute / differences of opinion or any such matter, decision of the Head of the SPFU will be final and binding on both the parties concerned.

#### **5.0 Termination of MoU**

If necessary, NCC will meet review the contents of the MoU and will expand the scope of the MoU as per requirement. The MoU can be terminated by mutual consent of the parties involved with permission from SPFU / NPIU.

Signature on behalf of  
University College of Technology, Osmania University, Hyderabad

Signed on behalf of  
Bapatla College of Engineering, Bapatla

In presence of  
Project Director, SPFU, Andhra Pradesh State



