

SECOND AUDITORS REPORT – TEQIP

NAME OF THE AUDITOR : **Prof. M. A. RAMLU**

DATES OF AUDIT : **April 27 – 28, 2006.**

NAME OF INSTITUTION : **J N T U COLLEGE OF ENGINEERING,
KUKATPALLY,
HYDERABAD, (A. P.)**

Auditors Report

Name of Auditor :	Prof. M.A. Ramlu	Dates of Audit:	April 27 – 28. 2006
Name of Institution with location :	J N T U College of Engineering, Hyderabad (A.P)		

Summary Evaluation

Sl.No.	Performance Audits	Overall average perceived score, out of 10*	Auditors Observations/suggestions
1.	Project Implementation	8.7	Very good
2.	Implementation of institutional reforms	8.5	Good
3.	Administrative and managerial efficiency improvement	8.1	Satisfactory
4.	Quality of education, training and services	8.9	Very good

* The score may be brought forward from the four performance audits.

**Auditor's overall score for the overall
Performance of the institution (out of 10):**

8.6

Signature

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1. Performance Audit – Project Implementation.

Sl.No.	Performance Audits	Overall average perceived score, out of 10*	Auditors Observations/suggestions
1.	Project ownership amongst functionaries, faculty; and students	10.0	Whole college is ceased of utilizing the TEQIP funds fully modernizing laboratories
2.	State of preparedness to move rapidly with overall project implementation	9.0	Owing to academic & financial autonomy granted, the college is moving rapidly for overall project implementation.
3.	Improved curricula, syllabi and teaching-learning process	8.5	Circullam revised during 05 – 06 subjects of Industrial Psychology & History of science & Technology are to be introduced during next revision.

Note : Perceived score is the one assessed by the Auditor based on FGDs, discussions with principal/ Director and others, visits to various facilities and the impression based on the responses in the filled in questionnaires.

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1. Performance Audit – Project Implementation(Contd.)

Sl.No.	Performance Audits	Overall average perceived score, out of 10*	Auditors Observations/suggestions
4.	Refurbishment of academic buildings	10.0	With NPIU approval tenders for the construction of centralized computer center are floated and to be opened on 03-05-06.
5.	Strengthening and modernization of academic facilities	8.0	Removal of obsolescence of laboratory equipment creation of modern new facilities continued.
6	Improvement in overall faculty competence and activates	8.5	Faculty development through subject knowledge enhancement, nonformal networking with industries and formal networking with net work partners

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1. Performance Audit – Project Implementation(Contd.)

Sl.No.	Performance Audits	Overall average perceived score, out of 10*	Auditors Observations/suggestions
7	Operation of formal networking	9.0	continued
8	Services to community and the unorganized labor force	7.5	Through EDC, Entrepreneurship Development Programmes, Improvement in communication skills, Personality Development programmes.
9	Implementation of Tribal Development Plan	8.0	Communication skills development programs continued.
	Overall Average Score	8.7	

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2. Performance Audit – Implementation of Institutional Reforms

Sl.No.	Performance Audits	Overall average perceived score, out of 10*	Auditors Observations/suggestions
1.	Creation of institutional ambiance conducive to achievement of high institutional standards	9.0	Systems application and modeling lab established for PG & Research activities, keeping centralized computer facility open for 24 hours.
2	Introduction of flexibility in program offerings	8.0	Provided adequate choice of elective subjects to suit the students interest with in the course programme.
3	Usage of continuous assessment for evaluation of students academic performance	10.0	Use of quizzes, monitoring tests, viva-vozes on laboratory practicals continued.
4	Appraisal of teachers performance by students	8.0	Exits – the proforma requires changes for correct appraisal of teachers

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2. Performance Audit – Implementation of Institutional Reforms(Contd.)

Sl.No.	Performance Audits	Overall average perceived score, out of 10*	Auditors Observations/suggestions
5	Establishment of four funds and their sizes	9.0	Rs. 186 Lakhs from UG Tuition Fee and PG development fees. Break up not made; Head of account for all the four funds available.
6	Institution of improved service package for faculty	6.0	No; service package as provided by Government exists but benefits such as sabbatical leave, research grants, merit based promotions are in existence

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2. Performance Audit – Implementation of Institutional Reforms(Contd.)

Sl.No.	Performance Audits	Overall average perceived score, out of 10*	Auditors Observations/suggestions
7	Offer of incentives to faculty	8.0	Permission to attend National and International conferences, freedom to accept consultancies from Govt. & Private agencies.
8	Mechanisms for self - correction	10.0	Keeping the implementation of the Project on a fast track by the departments involved.
	Overall Average Score	8.5	

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Name of Auditor :	Prof. M.A. Ramlu	Dates of Audit:	April 27 – 28. 2006
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3. Performance Audit – Improvement in Administrative and Managerial

Sl.No.	Performance Audits	Overall average perceived score, out of 10*	Auditors Observations/suggestions
1	Modernization and decentralization of administration and financial management	8.5	Decentralization of administration by appointing under the Vice-principal, Prof. in-charge for academic affairs (UG&PG), Hostel Management as their designation Dean is not permitted. Financial autonomy exists
2	Increased responsiveness to students academic and non academic requirements	8.5	Increased Library working hours, increased Computer facilities, nonacademic staff development.

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3. Performance Audit – Improvement in Administrative and Managerial (Contd.)

Sl.No.	Performance Audits	Overall average perceived score, out of 10*	Auditors Observations/suggestions
3	Increased responsiveness to faculty requirements	8.0	The maintenance of costly equipment and instruments require manpower such as a core of Electrical, Mechanical computer hardware handy men but due to limitations posed by the Govt. Contract appointments made.
4	Increased utilization of institutional resources	8.5	Sharing of resources with sister institutions, inter departmental cooperation haring with network institute continued.

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3. Performance Audit – Improvement in Administrative and Managerial (Contd.)

Sl.No.	Performance Audits	Overall average perceived score, out of 10*	Auditors Observations/suggestions
5	Maintenance of academic and non academic infrastructure and facilities	7.0	Non recruitment of maintenance staff for administrative reasons.
	Overall Average Score	8.1	

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Name of Auditor :	Prof. M.A. Ramlu	Dates of Audit:	April 27 – 28. 2006
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4. Performance Audit – Quality of Education , Training and Services

Sl.No.	Performance Audits	Overall average perceived score, out of 10*	Auditors Observations/suggestions
1	Accreditation status	10.0	Accreditation status awarded by NBA in 2005
2	Improved relevance of curricula and syllabi	9.0	From the academic year 2006 UG, PG curiculum revised and approved by academic bodies of the college
3	Use of modern teaching/learning aids and methods	9.0	LCD, OHP, e-Class room facilities, interactive boards provided and used.
4	Provision of opportunities to students to improve their learning	8.5	Student seminar, design projects, electives, guest lectures from experts.

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4. Performance Audit – Quality of Education , Training and Services(Contd.)

Sl.No.	Performance Audits	Overall average perceived score, out of 10*	Auditors Observations/suggestions
5	Interaction and Industry	8.0	Refresher Courses, Workshops, Sponsored Research, inviting experts from industries.
6	Placement through campus interviews	7.0	461 students placed in 40 companies during 2005-2006.
7	Training and services offered	8.5	Very Good.
	Overall Average Score	8.9	

Note : Perceived score is the one assessed by the Auditor based on FGDs, discussions with principal/ Director and others, visits to various facilities and the impression based on the responses in the filled in questionnaires.

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IMPROVEMENTS NOTICED

On

SHORTCOMINGS REPORTED

During

FIRST AUDIT.

JNTU College of Engineering, Hyderabad (A. P.)

**Second Academic Auditor Report based on the Visit to the College on
April 27 and 28, 2006.**

By
Professor M. A. Ramlu Dr. Ing.,
Retired Professor / Ex / Deputy Director and Acting Director,
Indian Institute of Technology, Kharagpur.

**Improvements noticed on shortcomings reported during the First
Audit Report.**

The College has a very good academic environment with good administration and deserves additional funding to improve its laboratory facilities and environment that will contribute to quality of engineering education.

Observations made in the Second Performance Audit over the suggestions made in the First Audit:

1. The expensive application software procured for all the departments is being fully utilized.
2. The need for a Department of Chemical Engineering is now felt by the university which envisages only PG courses at present in Chemical Engineering.
3. The Mechanical Handling & Fluid Power laboratories have been planned to be created with the availability of TEQIP funds which have been fully utilized for other laboratories already. Additional funding will therefore be necessary from TEQIP for creating these laboratories.

4. A M.Tech. program in Industrial Engineering and Management is approved for starting as a part time course. This is offered in alternate years and during 2004 – 05 this was offered.
5. The advertisement has been given for 100 doctoral students on full time basis for all the units of the university with a scholarship of Rs. 8000 /- per month for the first two years and Rs. 10,000 /- per month for the third year. The written entrance examination was conducted and the results are declared. For the academic year 2006 – 07, full time research scholars will be taken.
6. Coursework approved by the concerned Board of Studies for full time research scholars will be started from the academic year 2006 – 07 as assured by the Vice Chancellor of the university.
7. JNTU Curriculum revision took place in Aug 2005. The practical training in Industries is made mandatory in the summer vacation after III year II sem and reports submitted and will be evaluated through the presentation in IV year II sem.
8. This practice of deputation of faculty to industries is existing in JNTU College Of Engineering, Hyderabad and greater effort is being made to continue the same. A faculty member has been deputed for CITD training program (on sabbatical leave).
9. The problems of students are represented to the HOD concerned, faculty and support staff will represent to the Vice Principal, in turn the Principal

conducts the meeting and resolve the issues to the best satisfaction of person's concerned.

10. Library working hours have already been extended. Computer lab timings are extended. However a unmanned centralized computer center is proposed to run for 24 X 7 with biometric entry and exit.
11. It has been reiterated that chapatti and rice should be served for both lunch and dinner skipping from the breakfast which will comprise idlies, bread, butter, mysore bajji, puri, utappam.

SUGGESTIONS
and
RECOMMENDATIONS

Suggestions And Recommendations:

1. Core maintenance handymen may be appointed on contract basis as there is a ban from the Government for regular appointments.
2. A stenographer with computer knowledge may also be appointed on contract basis, for each head of the department.
3. After studying carefully the existing credit systems at higher institutions in the country and abroad, an improved credit system may be adopted.
4. The University Administration has decided to aim at providing 100% residential accommodation for faculty and students for which good grants have been provided and steps have been initiated for the College/University.
5. BICS may be re-designated as Beaurau of Sponsored Research & Industrial Consultancy; this change will not pose any problems to the university.
6. One copy of the Ph. D thesis may be sent for evaluation to an international expert of repute.
7. Advanced Technology Development and Transfer Cell be established by the University in which an incubation centre forms a part.

8. The subjects, Intellectual Property Rights and Public Policy be introduced at post-graduate level. History of Science and Technology and Industrial psychology be introduced at UG level for all branches.
9. Illumination Engineering Laboratory be established in the department of Electrical Engineering for which additional funds need to be provided from TEQIP in the second phase. It will bring industrial consultancy work to the College as the lighting industry is growing in a big way.
10. Sports & Gym facilities be made available during holidays.
11. Intranet facility to be provided in the hostels.
12. Association of Industries for developing modern advanced experimental setups at UG level which will result in greater collaboration between the industries and the Departments.
13. Greater involvement of faculty and students in community services through NSS unit of the institution. The students be given additional credits without which they may not participate.
14. Student counseling by the teachers for the whole duration of stay of the students in the campus be taken up by the faculty (1 teacher for 20 students).
15. The merit of the teacher be gauged by the teacher competence and teacher effectiveness.

16. The UGC Career Advance Scheme exists for implementation periodically.
17. The teachers must try to develop innovative ideas which on marketing may result in entrepreneurship.

DETAILS
of
ASSETS PROCURED
UNDER TEQIP
During
2005 – 06.

JNTU COLLEGE OF ENGINEERING. KUKATPALLY. HYDERABAD

DETAILS OF ASSETS PROCURED UNDER TEQIP 2005-06.

S. No.	Name of Item	Qty	Make & Serial No	Year of Purchase	Cost at the time of Purchase	Asset Id.No. given by the Institution/SPFU	Asset Register Page No. (Stock entry)	Current location of Asset	Qty Verified	Variation (3-10)	Reason of Variation
1	2	3	4	5	6	7	8	9	10	11	12
1.	CAT 6 UTP cable, 24 port d-link switch,8 port d-link swith	7	CISCO	2005	45,600	JNTUCEH/TEQIP/33	TEQIP Volume I , page no:89	Main Server Room	7	Nil	--
2.	Home page, web pages, web space etc	211 pages, 1 slot	--	2005	1,55,700	JNTUCEH/TEQIP/34	TEQIP Volume I , page no:90	Main Server Room	1	Nil	--
3.	Networking for civil building for 175 nodes with all accessories.	--	CISCO	2005	7,67,230	JNTUCEH/TEQIP/35	TEQIP Volume I , page no:56	Civil Engg	--	Nil	--
4.	Single cylinder water cooled CI Engine, SI Engine.	4	APEX	2005	6,83,800	JNTUCEH/TEQIP/36	TEQIP Volume I , page no:61	Mech Engg	4	Nil	--
5.	Lathe tool dynamo meter, Stefan-Boltzman flanged CV hemisphere, Pin fin-apparatus-an air duct	3	EEE	2005	1,05,375	JNTUCEH/TEQIP/37	TEQIP Volume I , page no: 51	Mech Engg	3	Nil	--
6.	Film & drop wise condensation unit, Refrigeration unit	2	P.A. HILTON	2005	18,51,000	JNTUCEH/TEQIP/38	TEQIP Volume I , page no: 68	Mech Engg	2	Nil	--
7.	Thermal conductivity of liquids and gases	3	P.A. HILTON	2005	13,51,210	JNTUCEH/TEQIP/41	TEQIP Volume I , page no: 68	Mech. Engg.	3	Nil	--

8.	Reciprocating air compressor, viscometers, calorimeter, grease penetration test	18	ARVIND	2005	3,44,495	JNTUCEH/TEQIP/42	Not Yet Received.	Mech. Engg.	18	Nil	--
9.	Co-ordinate measuring machine	1	MACHINE TOOLS	2005	14,56,000	JNTUCEH/TEQIP/43	TEQIP Volume I , page no: 74	Mech. Engg.	1	Nil	--
10.	Linear conveyor, Sensor Technology package	2	CYBER MOTION	2005	1,96,875	JNTUCEH/TEQIP/44	TEQIP Volume I , page no: 66	Mech. Engg.	2	Nil	--
11.	Tilting Hydraulic flume Pentium-IV Computer of standard config. Windows based, Computer interface package for wind tunnel lift	1	EEE	2005	9,97,100	JNTUCEH/TEQIP/45	TEQIP Volume II, page no:10	Civil Engg.	1	Nil	--
12.	Cut sectioned models of hydraulic machines of pumps, Francis Turbine, Kaplan Turbine, Centrifugal pump, Reciprocating pump, Gear pump, Vane pump, Jet pump	1	ARVIND	2005	1,62,000	JNTUCEH/TEQIP/46	TEQIP Volume I , page no: 85	Civil Engg.	1	Nil	--
13.	Hydraulic Bench	1	FLOW & FORCE	2005	3,15,000	JNTUCEH/TEQIP/47	TEQIP Volume I , page no:52	Civil Engg.	1	Nil	--
14.	Mechanical Heat pump, Boiling Heat transfer	1	MODEL:R514/2 30-WITH RC 514A,MODEL:H 655/230-WITH HC 655	2005	20,01,500	JNTUCEH/TEQIP/49	TEQIP Volume I , page no: 82	Mech. Engg.	1	Nil	--
15.	Atomic absorption spectrophotometer for analysis all metal concentrations.	1	ADVANCED SCIENTIFIC	2005	12,17,346	JNTUCEH/TEQIP/50	TEQIP Volume I , page no: 64	Civil Engg.	1	Nil	--
16.	Agricultural based portable laboratory	1	MODEL:STH-14 CODE: 5010-01 SWAN	2005	30,940	JNTUCEH/TEQIP/51	TEQIP Volume I , page no: 75	Civil Engg.	1	Nil	--

17.	Online chlorine analyzer	1	ORBIT TECHNOLOGIE S	2005	1,87,313	JNTUCEH/ TEQIP/52	TEQIP Volume I , page no: 63	Civil Engg.	1	Nil	--
18.	8031/51 Family emulators with c-cross compilers. Tutors In circuit programmable hardware EPROM programmable universal programme 8031/51 Micro controller kits	1	SUPER PRO- 280U, MAKE : XELTEK2 SUMARGA SAI	2005	10,59,417	JNTUCEH/ TEQIP/54	TEQIP Volume I , page no: 65	EEE	1	Nil	--
19.	Thermo gravimetric/differential thermal analyzer.	1	MODEL : Q600DSC WATERS INDIA	2005	14,98,750	JNTUCEH/ TEQIP/60	TEQIP Volume I , page no: 86	Mett. Engg.	1	Nil	--
20.	Sintering furnace	1	SHREE ENTERPRICES	2005	15,05,925	JNTUCEH/ TEQIP/61	TEQIP Volume II, page no:11	Mett. Engg.	1	Nil	--
21.	Induction melting furnace	1	SHREE ENTERPRICES	2005	6,69,300	JNTUCEH/ TEQIP/62	TEQIP Volume II, page no:20	Mett. Engg.	1	Nil	--
22.	Vector signal generator	1	BLUE STAR	2005	15,84,940	JNTUCEH/ TEQIP/63	TEQIP Volume I , page no: 49	ECE	1	Nil	--
23.	DGBS receiver for permanent station with controller & antenna	1	BILL TRADING	2005	12,05,478	JNTUCEH/ TEQIP/64	TEQIP Volume I , page no:73	CTE	1	Nil	--
24.	Wear Testing Machine	1	SHREE ENTERPRISES	2005	7,08,100	JNTUCEH/ TEQIP/66	TEQIP Volume II Page no 21	Mett. Engg.	1	Nil	--
25.	All in one scope Specifications: 20MHzDual Oscilloscope	2	APLAB	2005	69,998	JNTUCEH/ TEQIP/67	TEQIP Volume I , page no: 62	ECE	2	Nil	--

26.	Oscilloscope demonstrator	3	MODEL: ST2001E SAI SRI ENTERPRISES	2005	47,919	JNTUCEH/ TEQIP/68	TEQIP Volume I , page no:69	ECE	3	Nil	--
27.	Multimeter-4 ½	4	SCIENTIFIC	2005	54,288	JNTUCEH/ TEQIP/69	TEQIP Volume I , page no: 45	ECE	4	Nil	--
28.	Water level indicator	1	MAKE: DKK- TOA CORPORATIO N, JAPAN	2005	5,56,875	JNTUCEH/ TEQIP/70	TEQIP Volume I , page no: 50	Civil Engg.	1	Nil	--
29.	Antenna systems laboratory	1	MULTI TECH	2005	3,85,026	JNTUCEH/ TEQIP/71	TEQIP Volume I , page no: 47	ECE	1	Nil	--
30.	Digital conductivity meter, optical microscope	20	OSAW	2005	89,700	JNTUCEH/ TEQIP/72	TEQIP Volume I , page no:78	Chemistry	0	Nil	--
31.	Photoelectric colorimeter, Digital type potentiometers	20	SCIENTIFIC	2005	1,14,972	JNTUCEH/ TEQIP/73	TEQIP Volume I , page no: 43	Chemistry	20	Nil	--
32.	pH meter	10	SYSTRONICS	2005	55,692	JNTUCEH/ TEQIP/74	TEQIP Volume I , page no: 42	Chemistry	10	Nil	--
33.	Fuming cup-boards	4	SUSHEETRONI CS	2005	1,86,930	JNTUCEH/ TEQIP/75	TEQIP Volume I , page no:72	Chemistry	4	Nil	--
34.	High capacity Universal testing machine	1	HEICO	2005	18,86,560	JNTUCEH/ TEQIP/76	TEQIP Volume I , page no:84	Civil	1	Nil	--
	Pressure Meter	1	AIMIL LTD	2005	5,45,298	JNTUCEH/ TEQIP/77	Not received		1	Nil	--

35.	Oscilloscopes, Dual Output, Regulated Power Supplies.	13	AGILENT	2005	7,78,321	JNTUCEH/TEQIP/78	TEQIP Volume II, page No.19	ECE	13	Nil	--
36.	100MHz mixed signal Oscilloscope, 2 channel mono display 100Mz, 60MHz oscilloscope, 4-channel, 100MHz oscilloscope,	10	PERIDOT	2005	5,27,102	JNTUCEH/TEQIP/79	TEQIP Volume I, page no: 58	ECE	10	Nil	--
37.	Low cost digital multimeters	15	MEASUREMENT SOLUTIONS	2005	18,720	JNTUCEH/TEQIP/82	TEQIP Volume I, page no:46	ECE	15	Nil	--
38.	Electronic total station	1	TOPCON	2005	4,23,250	JNTUCEH/TEQIP/84	TEQIP Volume I, page no: 60	Civil	1	Nil	--
39.	High Resolution storage oscilloscope with colour printer and photographic facility	1	MODEL NO:701740F-01/B5/C10/F5 500MHZ, 4CHANNEL, 8MW MODEL.	2005	6,00,000	JNTUCEH/TEQIP/85	TEQIP Volume I, page no: 53	ECE	1	Nil	--
40.	Books of MTech subjects as per Annexure-I	---	--	2005	7,03,000	JNTUCEH/TEQIP/87	TEQIP Volume I, page no: 39	Library	---	Nil	--
41.	B.Tech revised text books as per annexure-II	---	--	2005	6,99,300	JNTUCEH/TEQIP/88	TEQIP Volume I, page no: 40, 48	Library	---	Nil	--

42.	Adaptive security appliance ASA 5510	---	MODEL NO: ASA 5510- AIP10-KG MODEL NO: CON-SUI-AS1A 10 KG MODEL NO:CON-SUI- ASIP 10 KG	2005	4,20,000	JNTUCEH/ TEQIP/89	TEQIP Volume I , page no:80	Main server Room	---	Nil	--
43.	Soldering and desoldering stations	2	ARICON	2005	21,000	JNTUCEH/ TEQIP/90	TEQIP Volume I , page no: 57	ECE	2	Nil	--
44.	Mechabronics training package LSM controller	1	CYBERMOTIO N	2005	4,50,000	JNTUCEH/ TEQIP/91	TEQIP Volume I , page no:67	Mech.Eng g.	1	Nil	--
45.	Computers	250	IBM THINKER CENTER M52	2005	87,50,000	JNTUCEH/ TEQIP/92	TEQIP Volume I , page no:70	Civil – 25, Mech-30, EEE- 25, ECE- 25, CSE-25, Mett-25, Physics-5, Maths-5, Chemistry – 5, CCC-85	250	Nil	--
46.	Computers	20	HP XW 4300 WORKSTATIO N	2005	9,99,396	JNTUCEH/ TEQIP/93	TEQIP Volume I , page no:71	Civil – 3, Mech-17	20	Nil	--
47.	Professional Audio system	25	CROWN	2005	4,55,625	JNTUCEH/ TEQIP/94	TEQIP Volume I , page no:54	Principal Room	25	Nil	--
48.	Dell power edge 2850 servers	9	DELL	2005	24,16,383	JNTUCEH/ TEQIP/95	TEQIP Volume I , page no:79	Main Server Room	9	Nil	--
49.	Text books as per annexure – I	---	--	2005	1,76,333	JNTUCEH/ TEQIP/96	TEQIP Volume I , page no:81	Library	---	Nil	--

50.	Micro wave oven	2	LG	2005	31,400	JNTUCEH/ TEQIP/97	TEQIP Volume I , page no:59	Chemistry	2	Nil	--
51.	30 MHz Oscilloscope	2	--	2006	33,660	JNTUCEH/ TEQIP/104	TEQIP Volume II, page no:12	Physics	2	Nil	--
52.	X-Y plotter recorder	1	--	2006	80,000	JNTUCEH/ TEQIP/105	Not Yet Received.	Physics	1	Nil	--
53.	Optical Multi meters	2	--	2006	23,000	JNTUCEH/ TEQIP/106	TEQIP Volume I , page no:77	Physics	2	Nil	--
54.	Operating system windows XP Professional	20	MICROSOFT	2006	1,23,988	JNTUCEH/ TEQIP/117	TEQIP Volume I , page no:76	Civil-3, Mech-17	20	Nil	--
55.	42U server racks	2	---	2006	1,75,950	JNTUCEH/ TEQIP/125	TEQIP Volume I , page no: 83	Main Server Room	2	Nil	--

DEPARTMENT WISE
LIST OF EQUIPMENT PROCURED
DURING 2005 – 06

CIVIL ENGINEERING

Equipment Procured :

- Atomic Absorption Spectro Photo Meter
- Electronic Total Station
- Hydraulic Bench
- Water Level Indicator
- Online Chlorine Analyzer.
- High Capacity Universal Testing Machine
- Tilting Hydraulic Flume
- Cut Sectioned Models of Hydraulic Machines of Pumps
- Computer Interface Package for Wind Tunnel

EQUIPMENT (ORDERS PLACED):

- Pressure Meter
- Static Cone Penetrometer
- Accessories for Electronic Total Station
- Water Baths
- Reynolds apparatus, Flow measurement bench, Groundwater model
- Hydraulic Losses test rig
- Electronic Total Station

EEE Department

(Equipment Procured)

- High Resolution storage oscilloscope
- DSP application unit
- PMDC motor drive with measuring instruments
- IGBT chopper drive with accessories
- Thristorized DC motor chopper drive with accessories
- Induction motor drive with accessories
- DSP based AC/DC motor control trainer
- DSP based vector controller for induction motor
- Power electronics devices trainers
- DC Motor Alternator Set
- DC Motor Alternator Set
- DC Shunt Motor, DC Shunt Generator set
- Shifting Transformer 600 VA
- Booster Transformer
- III Phase Induction Motor
- Watthour meter test

Mechanical Engineering

(Equipment Procured)

- Coordinate Measuring Machine
- Linear Conveyor with Sensor Kit
- Sensor Technology Package
- Mechatronics Training Package
- Lathe Tool Dynamic Meter
- Stefan-Boltzman Apparatus
- Pin Fin Apparatus
- Single Cylinder Water Cooled CI Engine
- 2-S SI Engine
- Thermal Conductivity of liquids and gases unit
- Film & Drop wise condensation unit
- Reciprocating air compressor test rig
- Flame Propagation and Stability Unit
- Carbon Residue Test
- Viscometers
- Calori Meters
- Grease Penetration test
- Vortex Tube Apparatus
- Refrigeration Unit

Mechanical Engineering

(Orders placed)

- Talysurf
- Abrasive Water Jet machine
- Combustion laboratory unit
- Computerized Micro Hardness Tester
- Microscope with Computerized image
- MIG Welding Machine
- Erichson Cupping Tester

ECE Department

(Equipment Procured)

- 100 MHz Analog or Mixed Signal (Analog & Digital) Oscilloscope
- All the components Listed for Microwave Benches
(Annexure-1)
- Antenna Systems Lab
- Low Cost Digital Multimeters (DMM)
- 4-Channel 100 MHz, Oscilloscope
- All In One Scope
- Multimeters 4 ½
- Oscilloscope Demonstrator
- Bit Error Rate Generator
- Vector Signal Generator
- 1 Soldering and Desoldering stations
- 2 Analog + 16 Digital Channels Oscilloscope
- 2 Channel 60MHz Memory 4 MB Oscilloscope
- Function & Arbitrary Wave form Generators
- Dual Output Regulated Power Supply
- Digital Multimeters (DMM)

Computer Science Engineering

(Equipment Procured)

- 8031/51 Family emulators with C – cross compilers.
- In-circuit Programmable hardware
- EP ROM Programmers
- UV Erasers
- 8031/51 Micro controller kits Interfacing
- modules Boards ADC, DAC, LCD key board interface
- PIC – Controller of 12, 16, series kits PIC C-Compiler
- Interfacing Modules

Metallurgical Engineering

(Equipment Procured)

- Thermo-Gravimetric/differential thermal analyser
- Wear Testing Machine
- Induction Melting Furnace
- Sintering furnace

NETWORKING ACTIVITIES

With

OTHER INSTITUTIONS

Networking Activities with other Institutions

1. Workshop on Distribution and Automation – Recent Trends (DART-2005), held during 28th – 30th October 2005 organized by department of Electrical Engineering, JNTU College of Engineering, Ananthpur.
2. Emerging Areas of Computer Science and Engineering - Nov. 21-22, 2005 with SNIST, Hyderabad.
3. Recent Trends in Embedded systems and applications - Nov. 23-24, 2005 with SNIST, Hyderabad.
4. Artificial Neural Networks-Applications in Engineering and Technology - Nov. 25-26, 2005 with SNIST, Hyderabad.
5. Recent Trends in Power Systems - Nov. 30 - Dec. 1,2005 with SNIST, Hyderabad.
6. Technological Advancements in Mechanical Engineering - Dec. 5-6, 2005 with SNIST, Hyderabad.
7. Signals Processing & Communications - Dec. 5-6, 2005 with SNIST, Hyderabad.

8. Workshop on High Performance concrete on 24th February, 2006 with JNTU College of Engineering, Ananthpur.
9. Advances in Signal and Image Processing (ASIP' 06) with JNTU College of Engineering, Kakinada.
10. Real Time Power Systems (RTPS'06) with JNTU College of Engineering, Kakinada.
11. Advances in Structural Engineering with JNTU College of Engineering, Kakinada.
12. Adaptive and Intelligent control based power system stabilizers with SNIST, Hyderabad during 24th – 25th April 2006.

SERVICES TO COMMUNITY

(WORK PLAN 2006 – 07)

Technical Education Quality Improvement programme
Services to Community and Economy, Work Plan Format: 2006-07

Name of the Institution: JNTU College of Engineering, Kukatpally, Hyderabad (A.P.)

No	Activity undertaken	Steps involved in undertaking the activity	Expected No. of beneficiaries		Starting Dates	Finishing date	Cost involved	Expected cost recovery, if any
1. From the community								
1	Hazardas waste management		1.Women	10	10 Apr 06	12 Apr 06	Rs. 1.00 lakh	
			2.Men	20				
			3.SC/ST/OBC					
			4.Unemployed Youth					
2	Com[puter literacy for the un employed weman		1.Women	40	12 July	14 July 06	Rs. 1.5 lakh	
			2.Men					
			3.SC/ST/OBC					
			4.Unemployed youth					
3	Higenic Sanitation		1.Women	15	16 th May 06	18 th May 06	Rs. 1.00 lakh	
			2.Men	12				
			3.SC/ST/OBC	20				
			4.Unemployed youth	15				
2.From Unorganized sector								
1	Computer literacy by CSE Department		1.Women	5	14 th apr 06	16 th apr 06	Rs. 1.5 lakh	
			2.Men	10				
			3.SC/ST/OBC	15				
			4.Unemployed Youth	10				
2	Repair and Maintenances of Home appliances by EEE Department.		1.Women	10	19th may- 06	21 st may 06	Rs. 1.00 lakh	
			2.Men	10				
			3.SC/ST/OBC					
			4.Unemployed youth	15				
3	Repair of Automobiles by Mechanical		1.Women		20 th arp - 06	22 nd arp 06	1.5 lakh	
			2.Men	15				
			3.SC/ST/OBC	10				
			4.Unemployed Youth	10				

Tribal Development plan section 2006-07

Name of the Institution: JNTU College of Engineering, Kukatpally, Hyderabad (A.P)

Number of students belonging to disadvantaged groups (SC/ST/OBC):

No.	Activities Planned	Schedule		Expected No. of Beneficiaries	Expected Cost
		From	To		
1	Remedial Classes for SC, ST students.	July,06	Aug,06	100	1 lakh
2	GATE Coaching for SC, ST students.	Sep,06	Dec,06	125	50,000
3	Communication skills for SC, ST students.	Oct,06	Nov,06	200	50,000

OUTPUT – OUTCOME INDICATORS
(UPTO MARCH 2006)

JNTU COLLEGE OF ENGINEERING , KUKATPALLY, HYDERABAD -----OUTPUT INDICATORS

Guidelines for filling the format

Note:

Please follow instructions/guidelines for filling targets for each item as given below.

- Since the format covers baseline for 2003 and then skips 2004, it is expected that the target for 2005 will reflect higher increase than in those subsequent years as the data will cover two years i.e. 2004 and 2005.
- Targets for some items are sought as **cumulative** and for some items the targets are **non cumulative** which is indicated below each item.
- **Cumulative data:** When the targets are sought in cumulative figures it would mean that the increase each year will include the baseline information and information in subsequent years, for example if baseline data in 2003-04 indicates that the institution had 10 publications in 2003-4 and in 2005-06 the target set is 30, this would mean that 20 additional publications are targeted for achievement in 2004-5 and 2005-06 and the target of 30 includes 10 publications of the baseline as well ($10+20 = 30$). Similarly, for 2006 if the target is set for 40 this means the target includes 30 from previous years (2003-2005) and 10 additional for 2006 ($10+20+10 = 40$) and so on in subsequent years. To assist you, wherever data is required to be cumulative an '*' sign has been provided along the item number in column 1.
- **Non Cumulative data:** When non cumulative data is sought in an item it means that the target for previous years are not included but an increased target to be achieved in a specific year only is provided. Please ensure that the targets provided are as per instructions clarified so that all targets are standard and in line.
- Unless specified, give data in numbers. Where financial information is required give value in Rs. Million.
- Since academic year 2004-5 is already over, please provide information under achievement column of 2005-6 in all items.
- Since Joint Review Missions are held biannually, i.e. Oct/Nov and May/June every year, the achievement column is divided into two sub-columns to cover programs upto that specific point of time. For JRMs to be held in Oct/Nov, the progress data is sought till the end of Sept. of that academic year, and for JRMs to be held in May/June data is sought upto the end of March of that academic year.

Academic Excellence

Indicators		The Academic Year for Reporting Data																				
		2004-05		2005-06		2006-07				2007-08				At end of the Project in June 2008								
		Data for the graduates of batch of 2003-4		Data for the graduates of batch of 2004-5		Data for the graduates of batch of 2005-6				Data for the graduates of batch of 2006-7				Data for the graduates of batch of 2007-8								
1. Increased number of high quality graduates (first degree) in relevant and cutting edge technologies	1a. All (relevant) engineering disciplines including cutting edge technology	A	B		A5	B5		A6	B6				A7	B7				A8	B8			
		300	Achievement		300	Achievement		300	Target		Achievement		300	Target		Achievement		300	Target		Achievement	
			No.	%(B/A)		No.	%		No.	%	No.	%		No.	%	No.	%		No.	%	No.	%
			63	21		85	28		100	33	131	44		115	38				130	43		
	1b. Cutting edge technology disciplines only	C	D		C5	D5		C6	D6				C7	D7				C8	D8			
		150	No.	%(D/C)	150	Achievement		150	Target		Achievement		150	Target		Achievement		150	Target		Achievement	
No.			%(D/C)	No.		%	No.		%	No.	%	No.		%	No.	%	No.		%	No.	%	No.
		48	32		73	48		87	58					95	63			106	70			

Note:

- High quality graduates are those who score 75% or more marks or equivalent GPA in the aggregate at graduation.
- Relevant means all disciplines of engineering except architecture, MCA/BCA and pharmacy.
- Examples of cutting edge technology disciplines are: Electronics & Communication, Computer Science & Engineering, Information Technology, Biotechnology, Bio-informatics, Bio-medical Engineering, etc.
- At **A**, give the total number of students that graduated in all engineering disciplines in 2003-04. Please exclude students graduating from Architecture, Pharmacy and MCA/BCA.
- At **B**, give the total number of graduates who were of high quality (as defined above) from the batch graduating in 2003-04 in numbers and percentage of B over A.
- At **A5** and **B5**, give data in the same way as for **A** and **B**.
- Under Target for **B6**, **B7** and **B8**, give planned %ages of high quality graduates. Once the students pass out, the number of students graduating and those graduating with high quality would become known. Data should then be filled in for **A6**, **A7** and **A8**, and under Achievement columns. **Planned %ages should be higher each year**, the increase in each year should be about 10% or more of the previous year-- for example if the value at **B5** is 30, then the increased values in the subsequent years would be 33, 36 and 39. Institutions should achieve the planned %ages as achievement on this aspect will reflect in the performance of the institution.
- Following the above guidelines, please give the values for **C**, **D**, **C5**.... **C8** and **D5**...**D8**.
- The targets provided for each year will be **non-cumulative**.

		The Academic Year for Reporting Data										
		Baseline data 2003-04		2004-05		2005-06		2006-07		2007-08		At end of the Project in June 2008
		No. of students admitted in 2002-03	No. of students completed the degree in 2003-04	No. of students admitted in 2003-04	No. of students completed the degree in 2004-05	No. of students admitted in 2004-05	No. of students expected to complete the degree in 2005-06	No. of students admitted in 2005-06	No. of students expected to complete the degree in 2006-07	No. of students admitted in 2006-07	No. of students expected to complete the degree in 2007-08	No. of students completed the degree by June 2008
2. Increased number of postgraduate students completing in engineering disciplines	2a) M	280	185	330	261	330	310	330	315	330	320	330
	2b) P	20	5	48	12	52	12	52	12	50	18	20

M = Masters

P = PhD

Note:

- At M and P, give the number of students who completed Master's and Doctoral programs.
- Please include all part-timer students who are likely to register and complete the degree.
- The data provided should indicate gradually increasing admissions and completions both for Masters and Doctoral programs separately.
- By the end of the Project there should be substantial increase in number of students completing Master's and Doctoral Programme
- Please do not include students of Architecture, Pharmacy, Computer Applications/Science, pure sciences e.g. Chemistry, Physics, Maths etc.
- The target provided for each year will be **non-cumulative**.

		The Academic Year for Reporting Data													
		Baseline Data: 2003-04	Achievement in 2004-05	2005-06		2006-7		2007-8		At the end of the project (June 2008)					
				Target for 2005-06	Achievement		Target for 2006-07	Achievement		Target for 2007-08	Achievement		Target for end Project	Achievement	
					Upto Sept 2005	Upto Mar 2006		Upto Sept 2006	Upto Mar 2007		Upto Sept 2007	Upto Mar 2008			Upto June 2008
3. Increased professional outputs	3a. Publications	47	47	58	98	101	70			90			110		
	3b. Academic Products	2	2	2	2	5	3			4			5		
	3c. Patents (obtained/applied for)	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3d. R&D products	i) Commercialized	--	--	--	--	--	--	--	--	--	--	--	--	--
		ii) Uncommercialized	--	--	--	--	--	--	--	--	--	--	--	--	--

Note:

- Please give baseline data for 2003-4 only.
- Under Target, give the planned increased numbers for each of the academic years 2005-06, 06-07, 07-08 and up to end of the project .
- Under Publications, include all papers published in refereed journals and those actually presented in National and International Conferences (papers could be research papers, invited review papers, etc.). In achievement column papers accepted for publications or presentation but not actually published or presented should be excluded. Popular articles, newspapers articles and radio/TV talks should be excluded.
- Under Academic product include books, monographs, conference proceedings and educational software.
- The targets for each subsequent year will be **non cumulative** and will indicate valid data for that particular year in target as well as achievement.
- Please provide information on achievement due to the Project in subsequent years.

4. Increased revenue generation	Financial year 2003-04 (Rs in Million)					Financial year 2004-05 (Rs in Million)					Financial year 2005-06			Financial year 2006-07			Financial year 2007-08			At the end of the project June 2008	
	RC	IRG				RC	IRG				Target (%)	Achievement		Target (%)	Achievement		Target (%)	Achievement		Target (%)	Achievement
		(1)	(2)	(3)	(4) %		(1)	(2)	(3)	(4) %		Upto Sept 2005	Upto Mar 2006		Upto Sept 2006	Upto Mar 2007		Upto Sept 2007	Upto Mar 2008		
*	9.6	9.6	6.75	16.38	170	9.3	9.6	6.98	16.58	178	16.88	16.32	17.11	17.73			17.78			18.00	

Note:

- Against RC, give the total recurring expenditure during FY 2003-04.
- Against IRG in column (3), give the total internal revenue generated during FY 2003-4. IRG is to include income from all sources (income through Consultancies, Projects, Continuing Education Programs, Outreach Programs & Services, etc. including tuition fees and other charges collected from students).
- For the years 2003-04 and 2004-05, (1) = Tuition fee and other charges from all students (excluding hostel and mess charges) from all disciplines all years (UG, PG and PhD) even those disciplines not covered in TEQIP; (2) = Income from other sources; (3) = Sum of column (1+2) = Total IRG; (4) = IRG as percentage of RC (column 3/RC);
- Targets for FY 2005-06 should be higher than that achieved in column (4) of FY 2004-05; and for subsequent year the targets should be higher than that in the preceding year.
- Under Achievement in 2005-06 in both columns, give the actual RC upto the reporting month, and %age of IRG achieved up to that month. Give data like wise for the other years and up to project end.
- The data should indicate increased IRG every year but should be **non-cumulative**.

* **Excluding Salaries**

NETWORKING

- 1) Lead institutions only are to report all activities undertaken with all the network institutions. If a lead institution L has three network partners A, B and C then all activities planned, towards A,B, and C (LA, LB and LC) and completed; and all activities planned and completed by A ,B and C undertaken towards L (AL, BL and CL) will be reported by L only. Where activities are undertaken between any two network institutions, the network institution planning/initiating and completing one or more activities will only report that/those activities—the recipient network institution will not report these.
- 2) Earlier format sought information for ongoing and completed activities combined together, but it is felt that this needs to be separately identified to know the exact status of achievement with respect to the planned activities.

		Academic year 2003-04		Academic year 2004-05	Academic year 2005-06		Academic year 2006-7		Academic year 2007-8		End of the Project June 2008
		Achievement		Achievement	Achievement		Achievement		Achievement		Achievement
				Upto Sep,05	Upto Mar,06	Upto Sep,06	Upto Mar,07	Upto Sep,07	Upto Mar,08	Upto June 2008	
5. Number of joint programs/ activities	5a. Externally funded research, design and development projects	i. Planned	4	4	4	4	5		6	6	7
		ii. Completed		4	4	5					

Note:

- Data for planned as well as completed is **cumulative**.
- The first cycle institutions should provide above information for 2003-04 also. The second cycle institutions can write NA (not applicable) in column for 2003-04 and all institutions for 2004-05 onwards for item 5 (5a to 5e).

	Academic year 2003-4	Academic year 2004-05	Academic year 2005-06	Academic year 2005-06		Academic year 2006-07		Academic year 2007-08		End of the Project June 2008		
				Achievement	Achievement	Achievement		Achievement		Achievement		Achievement
						Upto Sept 2005	Upto Mar 2006	Upto Sept 2006	Upto Mar 2007	Upto Sept 2007	Upto Mar 2008	Upto June 2008
5b. Joint consultancies	i. Planned	2	3	7	8	9	10	11	11	12	12	
	ii. Completed	2	4	5								

Note:

- Planned will have numbers of consultancies only and no value which will be **cumulative**.
- For completed activities please provide the information **cumulative** number and value in Rs. Million.

	Academic year 2003-4	Academic year 2004-05	Academic year 2005-06		Academic year 2006-07		Academic year 2007-08		End of the Project June 2008	
			Achievement	Achievement	Achievement		Achievement		Achievement	
					Upto Sept 2005	Upto Mar 2006	Upto Sept 2006	Upto Mar 2007	Upto Sept 2007	Upto Mar 2008
5c. Joint publications	i) Planned	--	5	6	8	9	10	12	16	20
	ii) Completed	--	12	39	60					

Note:

- Planned and committed publications will be **cumulative**.

		Academic year 2003-4		Academic year 2004-05	Academic year 2005-06		Academic year 2006-7		Academic year 2007-8		End of the Project June 2008	
				Achievement	Achievement		Achievement		Achievement		Achievement	
					Upto Sept 2005	Upto Mar 2006	Upto Sept 2006	Upto Mar 2007	Upto Sept 2007	Upto March 2008	Upto June, 2008	
	5d. Joint training and continuing education programs for industry personnel	i) Planned	3	4	6	8	10	12	14	17	20	
	ii) Completed	3	4	7	9							

Note:

- Planned and completed will be **cumulative** numbers.

				Academic year 2004-05	Academic year 2005-06		Academic year 2006-7		Academic year 2007-8		End of the Project June 2008	
				Achievement	Achievement		Achievement		Achievement		Achievement	
					Upto Sept 2005	Upto Mar 2006	Upto Sept 2006	Upto Mar 2007	Upto Sept 2007	Upto March 2008	Upto June, 2008	
	5e. Joint research guidance for PhD work	i) Planned	3	4	6	7	8	9	10	12	14	16
	ii) Completed	3	5	5	6							

Note:

Planned activities will show significant increase.

- For joint guidance in PhD Programs, it is expected that 'completed PhD' will be zero for first two years and it will show increased completion every year.
- The completed figure each year will be **cumulative**.

Services to Community and Economy

- Only Community within the close vicinity of the institution is expected to be served. Only those activities for which the institution has technical capability and expertise should be taken up under this component.

		Baseline data: 2003-2004			Academic year 2004-05	Academic year 2005-06			Academic year 2006-07			Academic year 2007-08			At the end of the project June 2008	
					Achievement	Target	Achievement		Target	Achievement		Target	Achievement		Target	Achievement upto June 2008
							Upto Sept 2005	Upto Mar 2006		Upto Sept 2006	Upto Mar 2007		Upto Sept 2007	Upto Mar 2008		
6. Services to Community and Economy	6a. Technical trainings for socially disadvantaged groups and unemployed youth	i) Total number of programs planned and offered which are within the technical expertise of the institution				2	1	2	3	2	3	4	3	4	5	5
		ii) Total number of beneficiaries	SC/ST/OBC			20	10	10	40	20	20	75	40	35	100	100
			W omen			10	05	05	20	10	10	25	10	15	25	25
			Unemplo yed youth			20	10	10	40	20	20	50	25	25	50	50

Note:

- Number of the programs planned are to be given under Target, and those actually conducted are to be given under Achievement. The numbers should increase every year.
- Data on beneficiaries by category is to be reported under Achievement. These numbers should also increase every year.
- Socially disadvantaged groups** will include SC/ST/OBC, Women and unemployed youth i.e. people who have no self or wage employment.
- Data on programs for the unorganized sector of economy and beneficiaries from this group are not be included in the data for socially disadvantaged groups and unemployed youth.** The data should indicate increasing number of programs actually completed every year- **(non cumulative)**.
- The total of the 3 categories may be higher than the total number of beneficiaries as because some beneficiaries might fall in more than one category but the total will not be less than the total of all categories. The data will be **non-cumulative**.

	Baseline data: 2003-2004	Academic year 2004-5		Academic year 2005-6		Academic year 2006-7		Academic year 2007-8		At the end of the project June 2008			
		Achievement	Target	Achievement		Target	Achievement		Target	Achievement		Target	Achievement Upto June 2008
				Upto Sept 2005	Upto Mar 2006		Upto Sept 2006	Upto Mar 2007		Upto Sept 2007	Upto Mar 2008		
6b. Assistance to the unorganized sector	i) Number of programs planned and conducted	1	2	2	2	3	3	3	4	4	4	5	5
	ii) Number of beneficiaries	20	40	20	20	45	25	20	50	30	20	60	60
	Male	15	25	15	10	25	15	10	30	20	10	40	40
	Female	5	15	10	5	20	10	10	20	10	10	20	20

Note:

- **Assistance to unorganized sector**, this will include persons like painters, carpenters, mechanics etc. Target and achievement for total number of programs and total number of participants will be **non cumulative** and expected to have increased number of beneficiaries every year. Please provide information separately for male / female beneficiaries in achievement column.
- Number of the programs planned are to be given under Target, and those actually conducted are to be given under Achievement. The numbers should increase every year.
- Data should indicate increasing number of programs and beneficiaries every year and will be **non cumulative**.

		Baseline data: 2003-2004		Academic year 2004-5	Academic year 2005-6			Academic year 2006-7			Academic year 2007-8			At the end of the project June 2008	
				Achievement	Target	Achievement		Target	Achievement		Target	Achievement		Target	Achievement upto June 2008
						Upto Sept 2005	Upto Mar 2006		Upto Sept 2006	Upto Mar 2007		Upto Sept 2007	Upto Mar 2008		
6c. Training to industry personnel (Non joint activities conducted singly by institutions)	i) Number of training programs planned and conducted	02	15	4	6	10	5	--		7			8		
	ii) Number of industry personnel beneficiaries	36	225	--	90	150	15			20			20		

Notes:

- **Socially disadvantaged groups** will include SC/ST/OBC, Women and unemployed youth i.e. people who have no self or wage employment and may or may not have any education. **This group is not to be included from unorganized sector (people working in the unorganized industry / entrepreneurs and self employed for which data has to be reported separately).** The data should indicate increasing number of programs actually completed every year- **(non cumulative).** **While target will reflect total number of beneficiaries under this category, under achievement,** please provide information separately for SC/ST/OBC, Women and Unemployed youth. The total of all categories may be higher because some beneficiaries might fall in more than one category but the total will not be less than the total of all categories. The data will be **non-cumulative.**
- **Assistance to unorganized sector,** this will include persons like painters, carpenters, mechanics etc. Target and achievement for total number of programs and total number of participants will be **non cumulative** and expected to have increased number of beneficiaries every year. Please provide information separately for male / female beneficiaries in achievement column.
- **Training for the organized sector i.e. persons who are wage employed in the organized industry:** Data should indicate increasing number of programs and beneficiaries every year and will be **non cumulative.**
- The revenue generated through services offered to organized sector would form part of the IRG of the Institution.
- Number of the programs planned are to be given under Target, and those actually conducted are to be given under Achievement. The numbers should increase every year.
- Data on beneficiaries by category is to be reported under Achievement. These numbers should also increase every year.

System Management Capacity Improvement

		Baseline Data: 2003-2004	Academic year 2005-6			Academic year 2006-7			Academic year 2007-8			At the end of the project	
			Target	Achievement		Target	Achievement		Target	Achievement		Target	Achievement
				Upto Sept 2005	Upto Mar 2006		Upto Sept 2006	Upto Mar 2007		Upto Sept 2007	Upto Mar 2008		
*7. Increased availability of well trained institution managers	i. No. of training programs planned and organized	--	2	--	2	3			5			7	
	No. ii. No. of persons trained in planning and management		10		10	15			25			50	50

Notes:

- Well-trained implies those who have undergone formal training.
- Objective is to get every person holding management position or a prospective manager undergoes training at least once during project period. A person who has undergone one training and goes for second or third training in management will be counted only once during entire program life.
- Institution managers would include Head of Institution, Deans, Heads of Departments, Registrar, Deputy Registrar, comptroller/Finance Officer, Training & Placement Officer, etc.
- Give expected increased numbers for the subsequent years.
- The data should be **cumulative**.

JNTU COLLEGE OF ENGINEERING –Kukatpally, Hyderabad ----- Outcome Indicators

Indicators			For the batch of 2002-03			For the batch of 2003-04			For the batch of 2004-05			For the batch of 2005-06			For the batch of 2006-07		
						Give data in March 2006			Give data in March 2007			Give data in March 2008					
1) Improved employment rate and earnings of graduates from participating institutions	1a) For UG graduates	i) U.G students Employed through campus interviews in 2002-3	UG-T	A	B	UG-T5	A5	B5	UG-T6	A6	B6	UG-T7	A7	B7	UG-T8	A8	B8
			120	2-3		180	2-3.5		220	2-3.5		260	2-4.5		280	2-6	
		ii) U.G. students Employed through other means	C	D	C5	D5	C6	D6	C7	D7	C8	D8					
		40	1.6	45	1.6	35	2.4	20	2.8	04	--						
	iii) Number of UG students remaining unemployed even after 1 year of graduation (exclude those who went for PG)	E	N.A.	E5	N.A.	E6	N.A.	E7	N.A.	E8	N.A.						
	35		24		07		nil		nil								
	iv) U.G. students who got selected in P.G. program	F	NA	F5	N.A.	F6	N.A.	F7	N.A.	F8	N.A.						
95		40		38		20		16									
2b) For Postgraduates	i) P.G. students employed through campus interviews	PG-T	G	H	PG-T5	G5	H5	PG-T6	G6	H6	PG-T7	G7	H7	PG-T8	G8	H8	
	30	2.5	35	2.5	45	2.5	80	3.00	100	3.25							
	ii) P.G. students employed through other means	J	K	J5	K5	J6	K6	J7	K7	J8	K8						
180		200		225		250		280									
iii) P.G. students registered for PhD	L	N.A.	L5	N.A.	L6	N.A.	L7	N.A.	L8	N.A.							
02		03		03		03		03									

Note:

- Against **T**, give total number of UG students graduating in 2002-3; NA = Not applicable against **A**, give number of students graduating in 2002-03 who got employment through campus interviews. Against **B**, give the mean annual emoluments of this group of students in Rs. in million.
- Give the values for the subsequent years at **T5 to T8**, **A5 to A8** and **B5 to B8** for graduates who got employed through campus interviews.
- Against **C**, give number of students who got employment through means other than campus interview within one year of graduation. Against **D**, give the mean annual emoluments of this group in Rs. in million
- Give the values for the subsequent years against **C5 to C8** and **D5 to D8** for those employed through means other than campus interviews as achievement for 2005 for 2003-04 and so on.
- Against **E**, give number of UG students remaining unemployed even after one year of graduation from the pass-outs of 2002-3. Give the values for subsequent years at **E5 to E8**.
- Against **F**, give number of UG students from the pass-outs of 2002-03 who got admitted to PG programs from the pass-outs of 2002-3, Give the values for subsequent years at **F5 to F8**.
- The data should not exceed the total number of students graduating in a particular year (given at **T to T8**) when combined for the four items i), ii), iii) and iv).
- The target and achievement should indicate **non-cumulative data** for i), ii), iii) and iv).
- It is expected that total students employed through campus interviews or otherwise and opting for higher education should be increasing every year.

- For PG students, give total number of students who graduated in 2002-3 at PG-T; give the values for subsequent years at **PG T5 to PG T8**.
- Against **G**, give number of PG students who got employment through campus interview from the pass-outs of 2002-3; give the values for subsequent years against **G5 to G8**. Against **H**, give mean annual emoluments of this group of students in Rs. in million; give the values for subsequent years against **H5 to H8**,
- Against **J**, give number of PG students who got employment through means other than campus interview within one year of graduation; give the values for subsequent years against **J5 to J8**.
- Against **K**, give mean annual emoluments of this group of students in Rs. in million; give the values for subsequent years against **K5 to K8**.
- Against **L**, give number of PG students who registered in PhD programs; give the values for subsequent years against **L5 to L8**.
- Data for item 2b) i), ii) and iii) should not exceed the total number of the pass-outs in a particular year as given at **PG T, PG T5 to PG T8**.
- **It is expected that % students employed through campus interviews and other means, and students registered for PhD should be increasing every year.**

Networking

Networking		Achievement up to									
		Total for 2003-04 up to March 2004	Sept 2004	March 2005	Sept 2005	March 2006	Sept 2006	March 2007	Sept 2007	March 2008	June 2008
2) Increased cooperation and resource sharing between institutions	2a) Number of faculty-days loaned for academic activities	06	08	10	12	14	16	18	20	22	26

Note:

- The data should indicate number of faculty days loaned in a given year; that means the summation of the number of days each faculty is loaned will be reflected as achievement at the end of each academic year. For example if 2 faculty spent 20 days in a network institution number of faculty days loaned would 20x2=40 faculty days. Please provide number of days faculty is loaned and in parenthesis give number of faculty loaned in a given year to able to ascertain number of faculty days loaned. The data will be **non cumulative** in each year.
- **Each institution reports its own achievement.**

Networking		Achievement up to									
		Total for 2003-04 up to March 2004	Sept 2004	March 2005	Sept 2005	March 2006	Sept 2006	March 2007	Sept 2007	March 2008	June 2008
	2b) Number of student-days for which students sent to other institutions for curricular and extra-curricular activities	20	30	34	36	36	38	40	48	54	56

Note:

- The data should indicate number of student days in a given year; that means the **summation** of the number of days each student is sent to other institution will be reflected as achievement at the end of each academic year. Please provide number of student days and in parenthesis give number of students sent to other institution in a given year to able to ascertain number of student days spent. Example, if 2 students sent for 10 days will be (2x10=20) 20 student days.

- **The data will be non cumulative in each year.** Each institution will report its own achievement.

Networking		Achievement up to									
		Total for 2003-04 up to March 2004	Sept 2004	March 2005	Sept 2005	March 2006	Sept 2006	March 2007	Sept 2007	March 2008	June 2008
2c) Joint Activities											
	Projects	6	7	8	9	11	14	15	17	17	18
	Training programs	3	3	4	5	7	10	12	15	19	24
	Consultancies	3	5	5	6	7	09	09	10	11	12
	Publications			5	5	6	7	08	9	10	11
	Seminars/Workshops										

Note:

- Lead institutions only are to report all activities undertaken with all the network institutions. If a lead institution L has three network partners A, B and C then all activities planned, towards A,B, and C (LA, LB and LC) and completed; and all activities planned and completed by A ,B and C undertaken towards L (AL, BL and CL) will be reported by L only.
- Where activities are undertaken between any 2 network institutions, the network institution planning/initiating and completing one or more activities will only report that/those activities—the recipient network institution will not report these.

Networking		Achievement up to									
		Total for 2003-04 up to March 2004	Sept 2004	March 2005	Sept 2005	March 2006	Sept 2006	March 2007	Sept 2007	March 2008	June 2008
	2d) Joint M. Tech. and PhD programs	10	15	15	24	24	35	35	45	45	45

Note:

- **Since activities are a joint effort by the network partners, the data in this item will be filled by the institution where the student is admitted / registered.**
- The data will be cumulative.

Networking		Achievement up to									
		Total for 2003-04 up to March 2004	Sept 2004	March 2005	Sept 2005	March 2006	Sept 2006	March 2007	Sept 2007	March 2008	June 2008
	2e) Number of person-days for which labs, workshops and libraries utilized by faculty and students from other institutions within the same network	---	----	5	25	50	80	100	145	180	200

Note:

- The data will be **non-cumulative**.
- **Each institution reports its own achievement.**

Internal Efficiency parameters.		Achievement in academic year 2003-04	Achievement in academic year 2004-5	Achievement in academic year 2005-6	Achievement in academic year 2006-7	Achievement in academic year 2007-8
				Sep. 06	Sep. 07	June 2008
3) Improved internal efficiency of the engineering education system	3a. Number of teaching days in an academic year	192	192	192	192	192

Note:

- Data for each completed academic year is to be reported in September of the next academic year except for 2007-08, it is to be reported in June 2008 which is the project end month.
- On an average number of teaching days in a year are 180. The institutions that have less than 180 should strive to achieve 180 teaching days. The achievement will be **non-cumulative** each year.

			Achievement in academic year 2003-04	Achievement in academic year 2004-5	Achievement in academic year 2005-6	Achievement in academic year 2006-7	Achievement in academic year 2007-8
					Sep. 06	Sep. 07	June 2008
*	Is the academic calendar under your control? – Put a √ mark	Yes	y	y	y	y	y
		No					
	3b. Number of days of slippage from the announced academic calendar		Nil	Nil	Nil	Nil	Nil

Note:

- Data for each completed academic year is to be reported in September of the next academic year except for 2007-08, it is to be reported in June 2008 which is the project end month.
- It is expected that number of days of slippage should be reducing each year. The achievement will be **non-cumulative**.
- Tick mark Yes or No and fill the applicable data.

			Achievement in academic year 2003-04	Achievement in academic year 2004-5	Achievement in academic year 2005-6	Achievement in academic year 2006-7	Achievement in academic year 2007-8
					Sep. 06	Sep. 07	June 2008
*	Is the admission process under your control? – Put a √ mark	Yes	Through EAMCET by Govt. 1 to 10 days	1-10 days	1-10 days	1-10 days	1-10 days
		No					
	3c. Number of days for completing the admission process						

Note:

- Data for each completed academic year is to be reported in September of the next academic year except for 2007-08, it is to be reported in June 2008 which is the project end month.
- It is expected that number of days for completing examination process should be reducing each year. The achievement will be **non-cumulative**.

- Tick mark Yes or No and fill the applicable data.

			Achievement in academic year 2003-04	Achievement academic year 2004-5	Achievement academic year 2005-6	Achievement academic year 2006-7	Achievement as in academic year 2007-8
					Sep. 06	Sep. 07	June 2008
*	Is conduction of examination under your control? – Put a ✓ mark	Yes	y	y	y	y	y
		No					
	3d. Number of days taken for completion of semester examination / annual examination		14	14	14	14	14

Note:

- Data for each completed academic year is to be reported in September of the next academic year except for 2007-08, it is to be reported in June 2008 which is the project end month.
- It is expected that number of days for completion of semester/annually examination should be reducing each year.
- The achievement will be **non-cumulative**.
- Tick mark Yes or No and fill the applicable data.

			Achievement in academic year 2003-04	Achievement academic year 2004-5	Achievement academic year 2005-6	Achievement academic year 2006-7	Achievement as in academic year 2007-8
					Sep. 06	Sep. 07	June 2008
*	Is declaring results under your control? – Put a ✓ mark	Yes	y	y	y	y	y
		No					
	3e. Number of days for declaring results		28	28	28	21	14

Note:

- Data for each completed academic year is to be reported in September of the next academic year except for 2007-08, it is to be reported in June 2008 which is the project end month.
- It is expected that number of days taken for declaring results should be reducing each year.
- **The achievement will be non-cumulative.**
- Tick mark Yes or No and fill the applicable data.

		FY 2003-04	FY 2004-05	FY 2005-6	FY 2006-7	FY 2007-8
				Sep. 06	Sep. 07	June 2008
*	3f. Office expenditure (excluding amount spent on maintenance of equipments and infrastructure (in Rs. million)	5.0	4.8	4.7	4.6	4.5

Note:

- Data for financial years (FY) 2005 and 2006-07 is to be reported in September of the next FY except for 2007-08, it is to be reported in June 2008 which is the project end month.
- It is expected that automation will reduce office expenditure. The achievement will be **non-cumulative**.

		FY 2003-04	FY 2004-5	FY 2005-6	FY 2006-7	FY 2007-8
				Sep. 06	Sep. 07	June 2008
*	3g. Total salary expenditure per student	--	--	--	--	--

Note:

- The achievement will be **non-cumulative**.

		Achievement in academic year 2003-04	Achievement in academic year 2004-5	Achievement in academic year 2005-6	Achievement as in academic year 2006-7	Achievement in academic year 2007-8
				Sep. 06	Sep. 07	June 2008
*	3h. Ratio of non-teaching staff to teaching staff	1.07:1	1.07:1	1.07:1	1.07:1	1.07:1

Note: It is expected that ratio of non-teaching staff to faculty should be reducing each year to an optimal value. The achievement will be **non-cumulative**.

			Achievement up to									
			Total for 2003-04 up to March 2004	Sept 2004	March 2005	Sept 2005	March 2006	Sept 2006	March 2007	Sept 2007	March 2008	June 2008
4) Service to Community and Economy	4a. Increased involvement of institutions with community	i) Faculty - Community interactions in person-hours	24	26	26	100	150	200	220	230	230	240
		ii) Staff - Community interactions in person-hours	10	12	32	34	36	37	38	48	56	60

		iii) Student - Community interactions in person-hours	---	---	34	200	230	240	300	340	340	400
		iv) Community members visited the institution in person-hours	240	300	1200	1600	1800	2000	2400	2500	2600	2800

Note:

- Please provide actual number of person-hours spent in various interactions viz. faculty-community, staff-community, student-community, and community-institution. If 20 faculty/staff/ students/ community members spent two hours in a year in interaction with community the achievement will be 20X2=40 person-hours.
- The data for achievement is expected to be increasing every year. The data should be **cumulative**.
- 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

			Achievement up to									
			Total for 2003-04 up to March 2004	Sept 2004	March 2005	Sept 2005	March 2006	Sept 2006	March 2007	Sept 2007	March 2008	June 2008
	4b. Number of programs conducted for	Community	0	0	0	03	06	12	14	18	22	25
		Unorganized sector of economy	0	0	0	0	0	2	6	7	8	10
		Industry personnel	0	0	0	0	0	1	1	2	3	5

Note: The data as achievement is expected to be increasing every year. The data should be **cumulative**.

			Achievement up to									
			Total for 2003-04 up to March 2004	Sept 2004	March 2005	Sept 2005	March 2006	Sept 2006	March 2007	Sept 2007	March 2008	June 2008

	4c. Number of technologies transferred for commercialization	--	---	--	--	03	04	8	9	10	12
--	--	----	-----	----	----	----	----	---	---	----	----

Note: The data as achievement is expected to be increasing every year. The data should be **cumulative**.

		Achievement up to									
		Total for 2003-04 up to March 2004	Sept 2004	March 2005	Sept 2005	March 2006	Sept 2006	March 2007	Sept 2007	March 2008	June 2008
4d. Number of beneficiaries from skill oriented training programs through Institution - Community activities	Women	--	--	--	85	85	200	240	280	320	380
	SC/ST/OBC	--	--	--	23	45	80	120	150	200	340
	Unemployed youth	--	---	---	--	--	120	180	250	280	310

Note: The data as achievement is expected to be increasing every year. The data should be **cumulative**.

		Achievement in academic year 2003-04	Achievement in academic year 2004-5	Achievement in academic year 2005-6	Achievement as in academic year 2006-7	Achievement in academic year 2007-8
				Sep. 06	Sep. 07	June 2008
5) Improved planning and management of technical education system making it demand driven and forward looking	5a. Number of new UG and PG programs started during the project	---	---	---	---	---
	5b. Number of UG and PG engineering programs reoriented/restructured	---	---	---	---	---
	5c. Number of students graduating in cutting edge programs from all engineering disciplines	300	300-	300	300	300
	5d. Average time period taken in revising / up-dating curricula	3years	3years	3years	3years	2 years
	5e. Board of Governors constituted	Yes	Yes	Yes	Yes	Yes
	5f. Number of Board of Governors meeting held	---	01	03	06	06

- Data will be **non-cumulative**.