

**TECHNICAL EDUCATION
QUALITY IMPROVEMENT PROGRAMME**

INSTITUTIONAL PROPOSALS (2004-2005)



UNIVERSITY COLLEGE OF ENGINEERING
(AUTONOMOUS)
OSMANIA UNIVERSITY, HYDERABAD – 500 007.



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OSMANIA UNIVERSITY, HYDERABAD – 500 007

EQUIPMENT PROPOSED UNDER TEQIP

S. NO.	DESCRIPTION	TOTAL AMOUNT (Rs. Millions)
A	Central Facilities	
1	Library	4.300
2	Computer Facility	5.200
3	Campus wide Networking Fiber Optic of all Depts. in Engg. College	5.000
4	CAD LAB I	3.000
5	Central Instrumentation Facility	4.000
6	Central Workshop	10.560
7	Furniture (Central Facility)	2.000
8	Institutional Consultancy	0.800
	DEPARTMENTS	
1	Civil Engineering Department	5.000
2	Bio Medical Engineering Department	5.460
3	Electrical Engineering Department	5.025
4	Electronics and Communication Engineering	5.700
5	Computer Science and Engineering	4.700
6	Mechanical Engineering	5.000
	Grand Total Rupees in Millions:	65.745



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The equipment required under Phase I during the year 2004-2005 as per the expert committee review-meeting recommendations held at NPIU, Noida on May 15th, 2004.

Equipment (Central Facility):

S. No	Equipment	Unit Price Rs. Millions	Qty. Required	Total Amount (Rs. Millions)	Ref. Annexure No.	Procurement Mode
A				4.300		NS
1	Library					
(i)	Copier	1.000	1	1.000	2.2.10.1	
(ii)	Digital Library Indian & Foreign Journals Print / Electronic Version	3.300	1	3.300	Page No.9 & 3.3	
2	Computer Facility			5.200		NS
(i)	Computers, Servers and Related software	0.050	100	5.000	2.2.11.1	
(ii)	Printers (Color Laser Printers 1, Dot Matrix Printers 4, Desk Jet Printer 3, etc.)	0.025	8	0.200	2.2.11.1	
3	Campus wide Networking Fiber Optic of all Depts. in Engg. College	---	---	5.000	2.2.11.1	
4	CAD LAB I			3.000		NS
(i)	Hydrology Calculator (SCS Designer, MODFLOW, etc)	---	---	0.200	3.8.2	
(ii)	Mathematical Tool (MATLAB)	---	---	0.150	3.8.2	
(iii)	Programing Language (Diff Compilers Tool Kits)	---	---	0.100	3.8.2	
(iv)	Structural Analysis (Stad Pro-2003, STAAP, GT Strudal)	---	---	0.550	3.8.2	
(v)	CAD Software Package, Pro E, Unigraphics NX	---	---	2.000	3.8.2	
5	Central instrumentation facility			4.000		NS
(i)	Atomic Absorption Spectrophotometer	1.000	1	1.000	2.2.8.1	
(ii)	X Ray diffracto Meter	2.000	1	2.000	2.2.8.1	
(iii)	Polarizing Microscope with a computer Camera & Printer	1.000	1	1.000	2.2.9.1	

6	Central Workshop			10.560		
(i)	Milling Machine	0.800	1	0.800	2.2.6.9	NS
(ii)	General Purpose Lathes	0.226	10	2.260	2.2.6.9	
(iii)	CNC milling m/c	2.500	1 No.	2.500	2.2.6.7	
(iv)	CNC EDM equipment	1.500	1 No.	1.500	2.2.6.7	
(v)	CNC Lathe	2.000	1 No.	2.000	2.2.6.7	
(vi)	Gear Measuring Machine	1.000	1 No.	1.000	2.2.6.6	
(vii)	Balancing Machine	0.500	1 No.	0.500	2.2.6.4	
7	Furniture (Central facilities)			2.000		NS
(i)	Computer Centre	---	---	1.000	Pg. No.5	
(iv)	Instrumentation Centre	---	---	1.000	Pg. No.5	
8	Institutional Consultancy			0.800		NS
(i)	Civil Works	---	---	0.400	Pg. No. 7	
(ii)	Procurement of goods	---	---	0.400	Pg. No. 7	

B. EQUIPMENT

Civil Engineering Department Equipment under TEQIP 2004-2005.

S. No	Name of Equipment	Unit Price Rs. Lakhs	Qty. Required	Total Amount (Rs. Millions)	Ref. Annexure No.	Procurement Mode
1	NASTRAN	1.000	01	1.000	3.8.2	NS
2	PC Controlled Triaxial Testing System	1.000	01	1.000	2.2.2.3	NS
3	MATTA ASPHALT testing system	2.500	01	2.500	2.2.2.8	NS
4	Digital Consolidation Test Equipment	0.500	01	0.500	2.2.2.3	NS
	Total Rupees in Millions			5.000		NS

Bio Medical Engineering Department Equipment under TEQIP 2004-05

S. No	Name of Equipment	Unit Price Rs. Millions	Qty. Required	Total Amount (Rs. Millions)	Ref. Annexure No.	Procure ment Mode
1	Electroencephalography System (Eeg)	0.090	1	0.090	2.2.1.1	NS
2	Electromyography System (Emg)	0.060	1	0.060	2.2.1.1	NS
3	Uv/Vis Spectrophotometer	0.220	1	0.220	2.2.1.1	NS
4	Flame Photometer	0.050	1	0.050	2.2.1.1	NS
5	Gas Chromotography System	0.220	1	0.220	2.2.1.1	NS
6	Blood Cell Counter	0.120	1	0.120	2.2.1.1	NS
7	Auto Analyser	0.110	1	0.110	2.2.1.1	NS
8	Mass Spectrophotometer	0.490	1	0.490	2.2.1.1	NS
9	Pulse Oximeter With Finger/Ear Probe	0.050	1	0.050	2.2.1.1	NS
10	Nerve Stimulator	0.060	1	0.060	2.2.1.1	NS
11	Muscle Stimulator	0.060	1	0.060	2.2.1.1	NS
12	Lithotripsy Machine	0.250	1	0.250	2.2.1.1	NS
13	Medi-Embedded systems with accessories	2.000		2.000	2.2.1.2	NS
14	DSP Hardware and Software	0.500	1	0.500	2.2.1.3	NS
15	Digital Storage Oscilloscopes (100mhz)	0.400	1	0.400	2.2.1.4	NS
16	Bedside Monitor	0.180	1	0.180	2.2.1.5	NS
17	Precision Flow Sensor Calibration, Sources & Accessories	0.500	1	0.500	2.2.1.4	NS
18	Precision Laser Sensor & Calibration Unit	0.100	1	0.100		NS
	Total Rupees in Millions			5.460		NS

Electrical Engineering Department Equipment under TEQIP 2004-05

S. No	Name of Equipment	Unit Price Rs. Millions	Qty. Required	Total Amount (Rs. Millions)	Ref. Annexur e	Procure ment Mode
1	PLC Systems	0.250	5	1.250	2.2.5.1	NS
2	DSP Controlled Drive Systems	0.200	3	0.600	2.2.5.1	NS
3	Solid State AC/DC Drives	0.150	10	1.500	2.2.5.1	NS
4	SCADA System	0.300	2	0.600	2.2.5.3	NS
5	Power Analyzer	1.075	1	1.075	2.2.5.4	NS
	Total Rupees in Millions			5.025		NS

**Electronics and Communication Engineering Department Equipment
under TEQIP 2004-2005.**

As per the proposals sent to TEQIP (Annexure 3.4.1) in the first phase it is proposed to develop “VSNI & Embedded System Design Lab”. As per the budget allocated by the college the department is proposing the following equipment for the year 2004-2005.

VLSI & Embedded System Design Lab

S. No	Name of Equipment	Unit Price Rs. Millions	Qty. Required	Total Amount Rs. (Millions)	Ref. Annexu re	Procurem ent Mode
1	FPGA Design: VERILOG/VHDL Simulator, Synthesis & Place & Route, CPLD/ FPGA Programmer & Test Boards	0.200	8	1.600	3.4.1	NS
2	Tanner Tools	0.100	10	1.000	3.4.1	NS
3	Logic Analyzer	0.500	1	0.500	3.4.1	NS
4	Embedded System Software development Tools: Assembler, Compiler, simulator, Debugger, Emulator and RTOS	0.350	6	2.100	3.4.1	NS
5	Educational Kits for Embedded System Design	0.025	20	0.500	3.4.1	NS
	Total Rupees in Millions			5.700		NS

**Computer Science and Engineering Department Equipment under
TEQIP 2004-2005.**

S. No	Name of Equipment	Unit Price Rs. Millions	Qty. Required	Total Amount Rs. (Millions)	Ref. Annexu re	Procurem ent Mode
1	IBM Severs (with 4 CPUs, 4GB RAM, 2x80GB SCSI HDD)	0.500	2	1.000	2.2.3.1	NS
2	Sun Solaris Servers (with 4 CPUs, 4GB RAM, 2x80GB SCSI HDD)	0.500	2	1.000	2.2.3.2	NS
3	Development systems with Vx-works realtime OS, development tools	0.500	4	2.000	2.2.3.5	NS
4	Smart card development system	0.100	7	0.700	2.2.3.5	NS
	Total Rupees in Millions			4.700		NS

Mechanical Engineering Department Equipment under TEQIP 2004-05

S. No	Name of Equipment	Unit Price Rs. Millions	Qty. Required	Total Amount (Rs. Millions)	Ref. Annexure No.	Procurement Mode
1	Press and Dies	1.000	01	1.000	2.2.6.7	NS
2	Hot Forging m/c	1.000	01	1.000	2.2.6.7	NS
3	Heat exchanger	1.000	01	1.000	2.2.6.8	NS
4	Cylindrical grinding m/c	1.000	01	1.000	2.2.6.7	NS
5	CMM Machine	1.000	01	1.000	2.2.6.6	NS
	Total Rupees in Millions			5.000		NS