ANDHRA PRADESH LEGISLATURE

DEPARTMENTALLY RELATED STANDING COMMITTEE ON

HUMAN RESOURCES

REPORT ON

DEMANDS FOR GRANTS

2013-14

DEMAND NO XIV

TECHNICAL EDUCATION

PRESENTED TO THE LEGISLATIVE ASSEMBLY ON 11-6-2013

A.P. LEGISLATURE SECRETARIAT
PUBLIC GARDENS, HYDERABAD

CONTENTS

ANDHRA PRADESH LEGISLATURE

DEPARTMENTALLY RELATED STANDING COMMITTEE
ON HUMAN RESOURCES
(TECHNICAC EDUCATION)

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LEGISLATURE SECRETARIAT

1. Dr. S. Raja Sadaram, Secretary.

2. Sri G. Venkata Krishna, Deputy Secretary.

3. Sri K. Raja Kumar, Assistant Secretary.

4. Sri V. Viswanatham, Section Officer.

INTRODUCTION

I, the Chairman, Departmentally Related Standing Committee on Human Resources (Technical Education) having been authorized by the Committee to present the Report on their behalf, present the First Report on Demands for Grants of Technical Education Department.

The Committee took oral evidence of Head of Departments of Technical Education in the meetings held on 06-05-2013 and 7-05-2013.

The Report was considered and adopted by the Committee at their sitting held on 04.06.2013.

The Committee wish to express their thanks to the officials of the Technical Education Department for placing before them the requisite material and their considered views in connection with the examination of the subject.

The Committee would also like to place on record their deep sense of appreciation for the valuable assistance rendered to them by the officials of Legislature Secretariat attached to the Committee.

Hyderabad,   K.V.V.SATYANARAYANA,

Dt.04.06.2013.   Chairman,
                                                          Departmentally Related Standing
                                                          Committee on Human Resources

<u>REPORT</u>

The Administrative Departments under the control of Technical Education Department are :

1. Commissionarate of Technical Education

2. Andhra Pradesh State Council of Higher Education

3. JNTU & other Universities

4. State Board of Technical Education.

I. Technical Education:

The Department of Technical Education was established vide G.O.Ms.No.1166, Education Department dated 5-6-1357 to bring about coordination efforts for the development of Technical Education by pooling Engineering Colleges from the Director of Public Instructions, Polytechnics from the Department of Industries and Technical Examinations from the Commissioner of Government Examinations.

II. The board functions of the Department are as follows:

1. To implement the policies of the Government of Technical Education and to co-ordinate and regulate working of the technical Institutions in the State at Degree and Diploma level.

2. To liaison with the A.I.C.T.E., New Delhi. South Central Regional Committee of A.I.C.T.E., at Hyderabad, the State Government, the A.P. State Council of Higher Education, Board of Apprenticeship Training and other bodies connected with the Technical Education.

3. To cause inspection of Commercial and Technical Institutions imparting Typewriting, Shorthand etc., and issue recognition orders.

4. To co-ordinate with the State Board of Technical Education and Training, an autonomous body for review and revision of curriculum, Syllabi and scheme of Examinations for various diploma courses offered in Polytechnics, to conduct the Polytechnics Common Entrance Test (POLYCET).

5. To identify training places in industry for placement of diploma holders in various branches of Engineering and Non-Engineering Subjects under Apprenticeship Training Programme.

6. Commissioner of Technical Education has been nominated as Nodal Agency for monitoring approval of new intuitions offering Engineering/ MCA8/MBA8/ B-Pharmacy courses etc. By State Government and A.I.C.T.E.

7. **At present, there are (2989) professional Institutions in the State with a total intake seats as detailed below:**

Sl.No	Programme	No. of Institutions	Intake
1.	Engineering	717	335000
2.	MCA	644	46795
3.	MBA	926	86905
4.	B. Pharmacy	290	29520
5.	Polytechnics	365	92660
6.	D. Pharmacy	47	2560

Important Schemes and Development Programmes of the Department:

1. Technical Education Quality Improvement Programme (TEQIP).

The TEQIP-II Project with the tentative outlay of Rs. 263.00 Crores is for period of (4) years. The project is being implemented in (24) engineering colleges.

The TEQIP-II project is central sponsored scheme with central & state share of 75:25. The state is selected for implementation of the project in:

        Pvt unaided colleges :   16

        University colleges   :   8

The budget provision is Rs.106.25 Crores in B.E 2013-14.

An amount of Rs 21.23 Crores has been released to the institutions so far.

2. Apprenticeship Training:

The Department is also providing training for Engineering Graduates and diploma holders in collaboration with BOAT, MHRD Government of India.

3. Web based Counselling:

Admissions are made through Web based Counselling for **EAMCET, ECET,ICET and CEEP (POLYCET)** as per the ranks secured by the candidates at 50 and 37 Help lines centres in Andhra Pradesh. The Web Counselling facilitates the students to exercise their options from nearest computer/Helpline centres or from their residence.

BUDGETARY PROVISION FOR THE LAST YEAR i.e., 2012-13

AND ALLOTTED BUDGET ESTIMATES FOR THE YEAR 2013-13.

	2012-2013	**2013-2014 (allotted)**
Plan	738,51,00	879,62,69
Non-Plan	348,83,12	384,37,00
Total	**1087,34,12**	**1263,99,69**

III. REFORM MEASURES AND POLICY INITIATIVES OF THE DEPARTMENT

1. Initiatives to improves access:

   The Department has taken following steps to correct the skewed ratio in intake of Engineering and Diploma holders of 6:1 as against 1:4 by increasing the intake in Polytechnics:

   A. Polytechnics:

   - **New Government Polytechnics:** Government have sanctioned (57) New Government Polytechnics during 2008-12.

   - **Second Shift Polytechnics in Polytechnics:** Permitted Second shift in (22) Govt., 1.Aided and (23) Private Unaided Polytechnics.

   - **Second Shift Polytechnics Engineering Colleges:** Polytechnic as Second shift introduced in1710 Engineering colleges and admissions were made.

GOAL:

To scale up and support ongoing efforts of the GOVERNMENTOF INDIA to improve quality of technical education and enhance existing capacities of the institutions to become dynamic, demand-driven, quality conscious, efficient and forward looking, responsive to rapid economic and technological developments occurring at national and international levels.

FOCUS:

- Strengthening Institutions to produce high quality engineers for better employability.
- Scaling up PG education and demand-driven Research & Development and Innovation.
- Establishing Centres of Excellence for focused applicable research.
- Training of faculty for Effective Teaching.
- Enhancing Institutional and System Management effectiveness.

Rajiv Yuva Kiranalu:

The Department is identified under Sub-mission (3) of Rajiv Yuva Kiranalu to provide placement of Polytechnic and Professional college students of the State.

Government polytechnics in RIAD Areas :

The Government sanctioned the Scheme of RIAD for the first time of implementation in (4) Government Polytechnics located in Paderu, Srisailam, Kothaguden and Bhadrachalam during 2008-09 for infrastructure Development and the scheme is being implemented in all the above Polytechnics.

The Rajiv Gandhi University of Knowledge Technologies (RGUKT) :

Government of Andhra Pradesh have established Rajiv Gandhi University of knowledge Technologies (RGUKT) in the year 2008 through Act 18 of 2008 to cater to the educational needs of the rural youth.

The first two years of education by and large correspond to intermediate syllabus and the subsequent four years are meant for engineering education. The student strength in these 3 IIITs at present is 21000.

Buildings for New Government Polytechnics:

A. Under RIDF : Government have accorded Administrative sanction for construction of Buildings for (21) new Government Polytechnics under RIDF XVI and provided Rs.39.00 crores and the work is under progress in (18) polytechnics. Government also accorded administrative sanction for an amount of Rs.45.00 crores for taking up II phase buildings for the above (18) Polytechnics under RIDF XVIII.

B. Under Normal State Plan : Budget provided during 2012-13 under Normal State plan for Construction of Government Polytechnic Buildings and additional Class rooms/Hostels is Rs.50.00 crores and construction work of (5) New Polytechnic Buildings is in Advanced Stage.

Buildings for Government Polytechnics for Minorities:

Government have sanctioned (3) Government Polytechnics for Minorities at L.B. Nagar, Kurnool and Guntur. The construction of works of Government Polytechnics atg L.B. Nagar and Kurnool are completed. The construction work is to be taken up at Guntur. Budget allotted in BE-2013-14 is Rs.2.00 crores.

Apprenticeship Training :

The Department is also providing training for Engineering Graduates and diploma holders in collaboration with BOAT, MHRD Government of India. The Department is conducting walk in interviews throughout the state to Engineers and Diploma holders and no. of industries are participating in the camp for selection of Apprentices.

IV. New Schemes of MHRD, GOI under Skill Development:

The Ministry of Human Resources Development, Govt. Of India announced various schemes for providing **100% Direct** Central assistance under the Scheme of sub-Mission of Polytechnics under Coordinated action for Skill Development during **XIth Plan**. In response to the proposals of the state Government, the MHRD sanctioned and provided funds under the following Schemes:

Sl.No	SCHEME	No. of Polytechnics	Amount Released (Rs. In crores)
1	Community Development through Polytechnics (CDPT) for Training unemployed youth for self Wage employment.	48	12.53
2	Construction of Women's Hostel (22 hostels are at finishing stage)	46	29.00
3	Strengthening of existing Polytechnics (Up gradation) by procuring equipment and furniture.	57	24.20
4	Establishment of Government Polytechnic in underserved District to be spent on equipment, machinery, furniture and learning resource material	1	8.00
	Total		73.73

The amount sanctioned by the State Government towards Budget to the Technical Universities is to meet the needs of staff salaries. Hence, it was requested to provide additional funds for infrastructure facilities to the Universities.

During last five year since 2008, Government have sanctioned 57 New Polytechnics. This year the Government has already sanctioned 16 Polytechnics. Under these, seven are sanctioned under ST Sub-Plan particularly for STs.

Out of 57 polytechnics, Government have sanctioned building to 39 colleges. Out of them 10 have been completed and the remaining 29 are at various stages of completion and they will be completed within this year. For the remaining 18 colleges, the Government have allotted Rs.89 crores. Out of that, 50 crores shave been earmarked under Normal State Plan Budget and 39 crores were earmarked under RIDF. (The NABARD must approve proposal for sanction of another Rs.100 crores. i.e., Rs.80 crores for buildings & Rs.20 crores for equipment of new polytechnics). Rs.25 crores is allotted under TSP for construction of new polytechnics (for STs) and the same will be entrusted to the A.P. Educational Infrastructure Corporation or Medical Infrastructure Corporation for avoiding the delay.

The Technical Educational Education Department allotted Rs.20.23 crores for new polytechnics towards salaries etc, Rs.95 crores has been given for construction of buildings for polytechnics, which includes Rs.50 crores under Normal State Plan and Rs.39 crores under RIDF and another Rs.100 crores is likely to be sanctioned and Rs.223.50 crores is for Technical Universities. The budget provided for polytechnics is Rs.269.5 crores which is basically Universities. The budget provided for polytechnics is Rs.269.5 crores which is basically towards salaries of teaching staff. A total amount of Rs.384 crores is required for the year 2013-14.

An amount of Rs.42 crores is needed under SC Plan to construct 25 Hostels to SC students to accommodate 50 to 100 students in each hostel, it was proposed Rs.17 crores for providing of food, cloth etc., to the students.

Under the ST Plan Rs.23.38 crores is proposed for constructing of 5 Colleges on par with GMR Polytechnic College in the budget with new hostel buildings and amenities.

For providing infrastructure facilities in Rajiv Gandhi University for Knowledge Technologies, an amount of Rs.353.50 crores is required to provide infrastructure facilities in the campus of Nuzividu, Basar & Indupulapaya.

Revised Estimates to Technical Education

Non-Plan-2012-13   Rs. 349 crores
Plan – 2012-13   Rs. 638 crores
Total   Rs.   987 crores
Grand Total (a+b)   Rs. 3743 crores

Budget Estimates to Technical Department

Non-Plan-2013-14   Rs.   384 crores

Plan – 2013-14   Rs.   879 crores

Total   Rs. 1263 crores

Grand Total (a+b)   Rs.4081 crores

Technical Universities

Univ. Expenditure in 2012-13	Allocation in 2013-14 (as per Budget Book)	Univ. Actual requirement in 2013-14	Building grants to new univs.	Total (5+6)	
(Rupees in lakhs)					
Total	66478.73	67440.51	120168.59	---	120168.59

State Board of Technical Education & Training, Andhra Pradesh, Hyderabad

Formation of Board:

As per A.P. Education Act, 1982, The State Board of Technical Education and Training was constituted as an "Autonomous body" with the Commissioner/Director of Technical Education and Training as the Chairman.

Details of Examinations conducted by the Board :

➢ Technical Examinations, i.e. Typewriting and Shorthand conducted twice in a year.
➢ Diploma Examinations for 38 Diploma courses as shown in the Annexure.
➢ Polytechnic Common Entrance Test for admission into Polytechnic (POLYCET).
➢ Other Examinations:

a) The Board also conducts Electrical Supervisor Competency & Electrical Wireman Certificate Examination on behalf of A.P. State Electrical Inspectorate, Mint Compound, Hyderabad, once in every year.

b) Certificate Cources in Computer, Hotel Management & Catering Technology, Fashion Designing & Garment Technology.

Reforms:

Syllabus revision to make Diploma courses on Sandwich pattern

All Diploma Courses are made as Sandwich courses to benefit the students to know the needs of the industry and will provide hands on experience:

A. In five semesters all the students have to study theory subjects out of (6) Semesters.
B. During the Vth semester of the course, every student has tgo undergo compulsory Practical training of (6) Months duration in any one of the industries.

The Expert committee was constituted. The industrialists are invited to participate in the workshop on syllabus revision and their advice and suggestions are invited and are taken into consideration in finalization of syllabus so as to prepare the student suit to the needs of the industry.

Unit tests and Sessional Marks introduced:

The Unit tests were introduced in first year for students admitted into 1year in 2008-09. The sessional mark for unit tests is 20. The annual examination marks in each subject is 80. The minimum pass mark is 35. The Question paper for all unit tests is prepared in Hyderabad.

Issue of Photo copy of of valued answer scripts and Revaluation :

A system of revaluation of answer script on is introduced from 2008-09 and the Photo copy of answer script will also be supplied to the student on request.

Scheme of Valuation streamlined

Enhancing English and Employability Skills :

At diploma level, Text based English language teaching was there, that too only in the First year of the three year course. Form the 20089-09 academic year onwards English teaching has been introduced in all the three years so that students do not lose touch with English language. Board has also moved away from text based English language teaching to Skill based Practical oriented teaching. The focus primarily is on imparting LSRW Skills.

OBSERVATIONS/RECOMMENDATIONS OF THE COMMITTEE

1. During last five year from 2008 Government haves\ sanctioned 57 New Polytechnics. This year the Government have already sanctioned 16 new Polytechnics. Under these, seven are sanctioned under ST Sub-Plan particularly for STs. The budget provided under Non plan for polytechnics is Rs. 269.50 crores which is basically towards salaries of teaching staff with a normal increase of 17% (Two Das and one increment). A total amount of Rs.384.00 crores is allotted for the year 2013-14 under Non Plan. The Committee recommends to the Government to allocate Rs.384.00 crores to meet the needs of polytechnics, Technical Universities and Direction & Administration.

2. In the year 2013-14 under Plan an amount of Rs.20.23 Crores have been allotted to newly established government Polytechnics out of which an amount of Rs.8.08 Crores is for meeting the salaries. The allotted amount is not sufficient to mkeet the total requirement of salaries as the 2012-13 expenditure itself is Rs.31.02 Crores. In addition 911 posts are being filled by APPSC and the salary requirement for 911 posts is Rs.43.73 Crores. Hence an amount of Rs.66.67 Crores is required in addition to the Rs.20.23 Crores already allotted for the year 2013-14 for nearly established Government Polytechnics. The Committee recommends to the Government to allocate additional amount to meet the needs of newly established Government Polytechnics.

3. For providing infrastructure facilities in Rajiv Gandhi University for Knowledge Technologies, an amount of Rs.353.50 crores has been allocated in the year 2013-14 Budget. In addition an amount of Rs.368.50 Crores is required to provide infrastructure facilities in the campus of Nuzividu, Basar & Idupulapaya. The Committee recommends to the Government to allocate the amount in a phased manner to provide infrastructure in the three IIITs.