

Project Proposals (Second Generation Problems) for the
consideration of
XIIIth Finance Commission

The objective of Vocational Education is to produce sufficiently skilled ready to employable young population to cater the demand in the blue collar job market as well as to provide scope for vertical mobility for career aspiring youth in the selected vocation.

Even though this system is functioning for the last 25 years the objective as mentioned in pre para has not been achieved to the desired level because of various reasons as mentioned below,

- a) The attitude of the society that force the student to aspire for a degree in any Professional course and if this is not achieved, the student tries for any degree from any university. An aggressive campaign for popularization of the courses is proposed. The Department proposes a full fledged, placement, career guidance cell for this.
- b) The inability of average/below average students who opt for VHS course to cope up with the syllabus of Vocational and Non vocational subjects together within a time span of two years. The Department proposes semester system, to over come this to three years course and give equivalency to Diploma course .
- c) The lack of infrastructure in schools (Laboratory, Work shed etc), affect the proficiency of the students in selected vocation.
- d) Fast developing changes in various areas demand for change in needs of the job market which in tern demand for changes in technical skills in the students. This could only be achieved through development of infrastructure according to the changing needs of the job market

(Industry). Hence upgrading of Vocational lab at least once in five years is a must.

- e) Vocational Higher Secondary Education System demands the student to attend class for 43 hrs in a week of 6 working days. This practically reduces scope for a decent exposure to the work environment which in turn affects the student's proficiency in the selected vocation and hence his employability without proper training in the concerned area. This can be addressed at by starting finishing schools.
- f) Till now the system has not taken the employers (Various industries and service providers) in the confidence and vice versa while formulating the concern and changing the curriculum of various courses. This has resulted in a big gap in the skills demanded by the employers and the skills acquired by the students through vocational Education system. This could be addressed at by developing proper industrial linkage at school level and at Directorate level. Hence a properly equipped Research wing is necessary to assess the changing needs of the industry, to formulate the curriculum according to the changing needs of the industry, to give concrete suggestions for development of infrastructure according to the changing needs of the industry, to adopt various modern and fast developing teaching learning techniques according to the requirement of the system etc.
- g) In this fast developing Information Communication Technology (ICT) era it is necessary to transmit knowledge and information as fast as possible. For this networking of various institutions and wings of the department is imperative. The development and maintenance of an interactive web site for placement of passouts is highly essential. Consolidation of available resources and its management (Logistics management) can easily be done by digitalization of data and

networking of various wings of the department. The Department proposes a Linux based server and other necessary accessories for achieving their goal.

- h) The changing needs of the industry/service sector demand for enhancement of additional skills in the employed and this could only be achieved through retraining. The Department proposes such training centers in three major cities of Kerala viz., Thiruvananthapuram, Ernakulam and Kozhikode, to train employees working in various organizations across Kerala to improve their skills.
- i) In the fast changing teaching learning process, library plays a key role. But developing and maintaining libraries physically in every school is both tedious and costly. Under these circumstances the department proposes for development of e-library for the use of students of this stream.
- j) The aim of education is overall development of child and this includes personality. Personal hygiene is a major concept of personality, but personal hygiene does not make any sense if you are living in a clean environment. In order to have a clean environment and thus a healthy ecosystem, each and every individual of the society must contribute to protect it. The school premises are to maintain cleanliness through proper management of solid waste, conservation of water, promotion of use of unconventional energy sources etc. The department prepares to achieve these targets with the help of Vocational teachers in Agriculture, ANERT, Jananidhi etc.
- k) A constant interaction by the students with experts in the concerned field is necessary for achieving the desired level of skill. The Department is preparing for web based teaching as a solution for this. Since the expert setting in a student can interact with all the students in

different schools of the state easily by using latest Information Communication Technology.

- l) The various schemes proposed by the Department using the X111th plan period also require additional rooms to house them. In order to meet this requirement the Department proposes construction of rooms in schools.(A minimum of 2 rooms/schools)

(1) Finishing Schools

The pass outs need further skills upgradation according to the demands of the industry to improve their employability. Finishing schools are must to achieve this through tailor made training modules as per the needs of the employers. The Department proposes to develop finishing schools in every VHS Schools in the X111th plan period in a phased manner . The projected demand for funds during this period in an follows.

2010-11	2011-12	2012-13	2014-15	2015-15
50 schools	200schools	350schools	389schools	389schools
125 lakh	425 lakh	575 lakh	447.5 lakh	389 lakh

(2) Modernization, improvement and maintenance of laboratory of facility of schools

The department proposes to improve and modernize the laboratory facilities in schools in a phased manner in the X111th plan period as follows.

2010-11	2011-12	2012-13	2014-15	2015-15
50 schools	200schools	350schools	389schools	389schools
489 lakh	689 lakh	689lakh	467 lakh	389 lakh

One lakh for modernization and 2 lakh for improvement.

3) Development of research wing

2010-11	2011-12	2012-13	2013-14	2014-15
30 lakh	30 lakh	30 lakh	30 lakh	30 lakh
10 lakh	3 lakh	2 lakh	2 lakh	2 lakh

The research wing shall be headed by a technical officer with adequate staff both from Academic and Administrative sector. Necessary furniture, computer and other hardware along with maintenance cost is included.

4) Networking of the various wings and schools of the Department.

The Department is planning to utilize ICT in its maximum capacity to link various activities, run web based services etc. In order to achieve this a Linux based server and about 425 computers and other hardware are necessary. The Department also requires technical manpower to operationalise and maintains the system.

2010-11	2011-12	2012-13	2013-14	2014-15
50 lakh	10 lakh	10 lakh	10 lakh	10 lakh

5 Development of Retraining Centres.

The changing needs of employees demand for enhancement of skills in employers. In order to retrain the employed VHS Pass out, three Regional Retraining centers are proposed. These centers require amount for infrastructures facilities, Manpower and maintenance

2010-11	2011-12	2012-13	2013-14	2014-15
420 lakh	120 lakh	40 lakh	20 lakh	20 lakh

6 E-library

The Department requires a separate server for running E-book that is to be made available to the students of schools. The department also has to purchase license for e-books with permission to distribute the same to the students of VHS schools through internet/intranet. There has to be sufficient manpower to operationalise and maintain this facility

2010-11	2011-12	2012-13	2013-14	2014-15
20 lakh	5 lakh	4 lakh	4 lakh	4 lakh
7 lakh	7 lakh	9 lakh	9 lakh	11 lakh

7. Solid waste management, water conservation, use of unconventional energy sources etc.

The department is proposing awareness creation programme and actual management of solid waste, conservation of water use of unconventional energy to meet the energy the requirement for school viz. for cooking noon meal using solar cooker and bio-gas electricity from sunlight.

2010-11	2011-12	2012-13	2013-14	2014-15
50 schools	100 schools	100 schools	100 schools	39 schools
45 lakh	90 lakh	90 lakh	90 lakh	35.1 lakh

8 Use of ICT in teaching. (Interaction with experts)

ICT can be utilized for direct interaction with experts by the students. A studio shall be developed for this purpose.

2010-11	2011-12	2012-13	2013-14	2014-15
15 lakh	5 lakh	3 lakh	3 lakh	3 lakh
7 lakh	7 lakh	9 lakh	9 lakh	11 lakh

9 Building to house these facilities

2010-11	2011-12	2012-13	2013-14	2014-15
75 schools	75 schools	75 schools	11 schools	
750 lakh	750 lakh	750 lakh	110 lakh	

S/d

Director