ABSTRACT

Employment and Training – Employment wing – Announcement 2016-2017- Setting up of a centralized training centre with web based teaching and learning materials (Virtual Learning System) to unemployed youth and students – Under State Innovation Fund - Rs. 1 crore - Sanctioned- orders issued.

LABOUR AND EMPLOYMENT(R1) DEPARTMENT

G.O.(Ms) No.32

Dated: 08.03.2017

துன்முகி வருடம், மாசி 24

திருவள்ளுவர் ஆண்டு 2048

Read :

1) Labour and Employment Department, Demand No.32, Announcement No. 3, 2016-2017

2) Director of Employment and Training, Chennai-32, Letter No.Thi.ve/25223/2016, dated, 26.12.2016.

ORDER:

The following announcement was made by the Hon'ble Minister for Labour in the floor of Assembly for the financial year 2016-2017.

"இணையதளங்களைப் பயன்படுத்தி கற்கும் வசதிகளை அதிகப்படுத்தி இளைஞர்களுக்கு வேலைவாய்ப்பை பெருக்குவதில் முனைப்புடன் ஈடுபட்டுவரும் வேலைவாய்ப்பு மற்றும் பயிற்சித் துறையால் இரண்டு கோடி ரூபாய் செலவில் பயிற்சி மற்றும் பாடங்கள் கற்பிக்க இணைய வழி கற்கும் முறை (Virtual Learning System) ஏற்படுத்தப்படும் ".

2) In the letter 2nd read above, the Director of Employment and Training has stated that the District Employment Offices are functioning as Career Guidance Centres through which coaching classes for various competitive examinations conducted by UPSC, TNPSC, etc., are being conducted. In addition to this, coaching classes are conducted through Study Circles. Through these district level coaching centres and study circles it is very difficult to reach a large number of unemployed youth in rural areas and remote corners of the state. Further, the unemployed youth and students living in rural areas have to spend on transport every day to attend classes organised in district centres. The resource persons, experienced faculty available in state headquarters and in premier universities cannot come down to take classes even in district centres depriving quality lectures for the candidates in rural centres. The study materials and books cannot be made available in sufficient numbers to all the needy students as the costs involved will be huge.

3) In order to overcome these hurdles a virtual learning portal with e-learning, e-content and e-books along with online virtual learning through interactive videos is proposed to be developed to cater to the needs of unemployed youth and students to prepare for competitive exams, enhance their skills and update their knowledge for improving their employability. Students of Arts and Science colleges, Engineering colleges can attend online class with smart class room facility through live streaming of video lectures and others can download and view at their convenience from the portal.

4) The Virtual Learning Portal will address comprehensively the present shortcomings in making available information and quality educational content through a common platform for the benefit of unemployed youth registered with TNSDC, Employment Offices and students. This can also cater and support the teaching learning activities of other departments like Higher Education, School Education, Technical Education, Anna Institute of Management etc.,

5) The proposed Virtual Learning System will be in the form of three pillars viz Assessment pillar, Information pillar and Analytical pillar. All three pillars will be simultaneously developed in three phases.

a) Phase 1 (Assessment pillar)

During the first phase, the content engine will be designed and developed, since it's the basic platform on which the other components and rule engines are integrated. On completion of this phase, the beneficiary and admin will have their dashboards integrated with the e-learning portal. During this development phase, the integration of skill assessment engine design will be done in parallel and first level contents will also be created. This will help us to optimize the time and improve efficiency in delivery. The total duration for phase 1 will be 4 Months.

b) Phase 2 (Information pillar)

In Phase 2, the library stack engine will be developed and deployed. Along with the stack, the assessment stack will be integrated, such that the career assessment based course guidance will be available for beneficiaries right from phase 2 onwards. During this phase the parallel development of analytics, reports, alerts and tracking systems will be designed. The university video lecture integration and development of mobile app will also be done during this phase, since all these components are mutually exclusive. The total duration for phase 2 will be 3 Months.

c) Phase 3 (Analytical pillar)

During Phase 3, the integration of contents, modularization of competitive exams, video lectures, statistical analytics engine, gap analysis and feedback systems will be done. Also, during this phase, bilingual support engine (Tamil equivalents, contents) will be developed. Also, during this phase, the Mentor signup and connect will be established. The total duration for phase 3 will be 3 Months. The entire project will be completed and delivered in a turnaround time of 10 months

Capital expenditure, Applications and Content Development 2016-2017 :-

Sl: No	Description	Net Cost Rs.
1	Servers, hosting charges, HIPPS and virus & security audit and accessories Independent Array Disks/RAID/Storage	20,00,000
2	Virtual learning Portal– design, Development, Integration of components – Phase I	40,00,000
3	Analytics Portal, Integration with Dashboard	7,00,000
4	Social Network Module	50,000
5	Mobile App Career Guidance Integration	3,50,000
6	Training Cost	1,00,000
7	Deployment and support	40,000
8	Firewall/anti-hack featured networking	2,00,000
9	Video Equipment, Video Labs-Standalone Center at DET	10,00,000
10	Content Development	15,00,000
11	3rd Party UAT	60,000
	TOTAL	1,00,00,000

The total expenditure for portal development, application development, content development and management for 2016-2017 is Rs. 1,00,00,000/- (Rupees one crore only)

A) Objectives

a) To build a centralized, interactive, web-based virtual learning system that includes training for competitive exams, online tests, mock

interviews and skill assessment.

b) To enable students to access the learning environment from any location, any time through a multitude of all electronic formats

c) To establish a portal that could help eligible youth to develop and enhance employability skills.

d) To design and develop course content, e-book, video facility and host a repository of study materials for competitive examination.

e) To provide notifications and other job-related information through mobile application.

f) To mitigate the language barrier by providing Tamil equivalent assistance for the e-content material and questionnaire.

g) To offer web learning facility with compatibility across all browsers and OS.

B) The proposed architecture is as follows:-

i) The architecture for the E-learning portal will have the following major areas:- Analytics Engine, Career Counselling engine, University Online Video Integration engine & Peer group Interaction engine. The architecture is designed keeping in mind the need for massive scalability and flexibility. So a strong DB design is integrated with the system architecture.

ii) The assessment engine will suggest the courseware for the candidates in line with their career choice and consecutive assessments are mapped through the assessment engine.

iii) The E-content engine will have the content library stack, to offer seamless access to content on multiple parameters like-course based, career based, Topic based, exam based etc. The content engine will also host the e-pub reader and conversion readers, which will help in reading the content in the format of a book and flipping through pages.

iv) The Integration and support engine will host the integration of e-content and live video lectures and sessions across all university video learning systems and will integrate the alerts system and mentor connect integrated with the user platform.

v) Peer to Peer forum will also be enabled and integrated for real time peer group discussions.

6. The Government, after careful examination sanction the amount of Rs.1,00,00,000/- (Rupees one crore only) for setting up of a centralized training centre with web based teaching and learning materials (Virtual Learning System) to unemployed youth and students under State Innovation Fund. Necessary Funds have been provided in supplementary Estimates for 2016-17.

7. The above expenditure authorised in para 6 above shall be debited under the following Head of Account:-

Head of Account	Amount of Rupees
2230 Labour and Employment – 02 Employment Services – 101 Employment Services – Schemes in the Twelfth Five Year Plan –II State Plan – JM Establishment of Virtual Learning System – Scheme under State Innovation Fund – 19 Machinery and Equipments – 01 Purchase. (DPC 2230 02 101 JM 19 19)	Rs.25,00,000/-
2230 Labour and Employment – 02 Employment Services – 101 Employment Services – Schemes in the Twelfth Five Year Plan –II State Plan – JM Establishment of Virtual Learning System – Scheme under State Innovation Fund – 72 Training. (DPC 2230 02 101 JM 72 08)	Rs.1,40,000/-
2230 Labour and Employment – 02 Employment Services – 101 Employment Services – Schemes in the Twelfth Five Year Plan –II State Plan – JM Establishment of Virtual Learning System – Scheme under State Innovation Fund – 76 Computer and Accessories - 01 Purchase. (DPC 2230 02 101 JM 76 19)	Rs.73,60,000/-
Total	Rs.1,00,00,000/-

8) The above expenditure shall be adjusted from the State Innovation Fund under the following Head of Account:

"2230 Labour and Employment - 03 Training – 902 Deduct – Amount met from State Innovation Fund – JA Deduct – Amount met from State Innovation Fund – 30 Inter – Accounts Transfers

(DPC 2230 03 902 JA 3001)

and by contra debiting reserve fund (b) Reserve Funds not bearing interest – 8229 00 Development and Welfare fund – 200 other Development and Welfare funds – BE State Innovation Fund (DPC 8229 00 200 BE 0006) outgo"

9. This order is issued with the concurrence of Finance Department vide its U.O.No. 20/L&E/ 2017 dated: 03.03.2017

(BY ORDER OF THE GOVERNOR)

P. AMUDHA
SECRETARY TO GOVERNMENT

To

The Director of Employment and Training, Chennai-32.
The Managing Director, Tamil Nadu Skill Development Corporation, Chennai-32.
The Principal Accountant General (Audit) / (A&E), Chennai-18.
The Accountant General, Chennai-35
The Accountant General, Chennai-9.
Copy to

The Hon'ble Chief Minister's Office, Chennai-9.
The Senior Personal Assistant to Hon'ble Minister for Labour, Chennai-9.
The Finance (L&E) (BG-I/II) Department, Chennai-9.
The Private Secretary to the Secretary to Government, Labour and Employment Department, Chennai-9.
The Labour and Employment (OP- II) Department, Chennai-9. (Two copies)
The Labour and Employment (F) Department, Chennai-9.
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SECTION OFFICER