

## **INFORMATION TECHNOLOGY DEPARTMENT**

### **DEMAND NO. 31**

#### **POLICY NOTE 2008 – 2009**

Tamil Nadu continues to register remarkable progress in the Information Technology sector. The Software export from the State, which was Rs.20,700 Crores in 2006-2007 is expected to cross Rs.28,000 Crores in 2007-2008.

Tamil Nadu is emerging as the preferred destination for IT Software and Hardware Companies. The number of IT-ITES SEZs in the State is an indication of this. So far, 37 IT-ITES SEZs spread over an extent of 1226.32 hectares have been given formal approval by the Government of India. Out of this, 19 have been notified and have commenced operation. Apart from this, 1 Multi Service SEZ covering an extent of 121.41 hectares and 2 Multi Product SEZs covering an extent of 2192.44 hectares have also been given formal approval in Tamil Nadu. In addition, 6 Electronic Hardware, Software and Related Service SEZs covering an extent of 464.45 hectares have also got formal approval. Thus, Tamil Nadu is ideally placed to attract investments in the IT - ITES and Electronic Hardware manufacturing sector.

All the top IT companies of India have been expanding their activities in Tamil Nadu. Tata Consultancy Services is setting up a new 70 acre campus at Siruseri. This is nearing completion. Wipro has already commenced operations in their newly established 80 acre campus at Sholinganallur and is developing another 90 acre campus in Mahindra World City. HCL is expecting to complete its latest campus at Sholinganallur over an extent of 50 acres this year. Satyam Computer Services is also building its additional campus over an extent of 50 acres at Sholinganallur. Cognizant Technology Solutions has already commenced work on a new 25 acre SEZ at Siruseri and is expected to start work at Sholinganallur soon. Many more IT Parks are being put up not only at Chennai but at Coimbatore, Madurai, Tirunelveli and other cities. Thus, the IT-ITES sector continues to show good growth in Tamil Nadu.

Large international Hardware manufacturers like NOKIA, Foxcon, Flextronics and Motorola have already located their facilities in Tamil Nadu. Dell Computers, Samsung, ASPOCOMP, Spelmech Semi-conductors, Salcomp, Perlos, Jabil, Wintek and many more electronic hardware

manufacturers have also decided to locate their manufacturing plants in Tamil Nadu. This combination of Hardware and Software is unique anywhere in the world.

## **Information Technology Policy 2008**

The Government of Tamil Nadu is committed not only to sustain the growth momentum but to accelerate it so that Tamil Nadu can reap the twin benefits of economic prosperity as well as increased employment. In order to achieve this, the State has come out with a comprehensive new Information Technology Policy 2008.

The new IT Policy of Tamil Nadu aspires to capture a 25% share of Indian ICT production by year 2011 from its present share of 11%. Towards this end, the State has set itself the following vision:

**“Tamil Nadu shall be the ICT Hub of South Asia by creating a knowledge driven ecosystem, leveraging entrepreneurship and promoting socially inclusive growth to achieve a 25% production share of the Indian ICT industry.”**

Achieving this vision would create a total of 0.8 million direct jobs (ICT services is estimated to employ around 0.7 million people while ICT manufacturing is estimated to employ close to 0.1 million people by 2011) and 2.2 million indirect jobs. Thus, the policy aims at the creation of approximately 3 million additional jobs by 2011. The Policy lays down various measures aimed to achieve this vision.

### **TIDEL II IT-ITES SEZ at Chennai**

A world class IT Park is coming up at Taramani near Chennai. TIDCO, an undertaking of the Government of Tamil Nadu, has formed a joint venture with M/S DLF Limited for putting up an IT-ITES SEZ with 4.5 million sq.ft built up space on 26.64 acres of land at Taramani in Chennai. The first phase of the construction work covering 2.5 million sq.feet would be completed by 2009. The remaining 2 million sq.feet would be constructed by the year 2011. This project is expected to generate 45,000 direct jobs and 10,000 indirect jobs to youth.

### **TIDEL III IT-ITES SEZ at Chennai**

Another project to develop an IT-ITES Park with an Integrated International Convention Centre on 25.27 acres of land at Taramani in Chennai is also being executed by TIDCO. The joint venture partner in this

case is M/s. Tata Reality and Infrastructure Limited. Out of 40 lakh sq. feet ,construction for the first phase covering 20 lakh and 30 thousand sq. feet will be completed by the year 2009.The second phase of the construction covering 19 lakh 70 thousand sq. feet will be completed by the year 2011.This IT SEZ is expected to generated 40 thousand direct jobs and 15 thousand indirect jobs.

### **IT-ITES SEZ at Sholinganallur near Chennai**

The IT-ITES SEZ developed by ELCOT at Sholinganallur has started functioning with M/s. Wipro commencing its operations. The facilities of M/s. HCL and M/S Satyam are in an advanced state of completion. In addition, M/s. Sify, M/s. Cognizant Technology Solutions, M/s. SCOPE International and M/s. Sutherland Global Services are likely to start their construction activities shortly.

### **IT-ITES SEZ at Perumbakkam-Sholinganallur near Chennai**

M/s. ELCOT has already obtained formal permission to establish an IT-ITES SEZ at Perumbakkam-Sholinganallur villages near Chennai. ELCOT proposes to set up an integrated IT Township with over 10 Million sq.ft. of IT built up space and required social infrastructure like Housing, Medical Facility, School, Commercial and Entertainment facilities on 199 acres of land.

### **IT-ITES Park at SIPCOT Siruseri, Kanchipuram District**

The SIPCOT IT Park at Siruseri is also developing fast. M/s. TCS, CTS and Hexaware are putting up IT-ITES Special Economic Zones here. Apart from this, 58 other IT - ITES companies are putting up their facilities at this IT Park.

### **IT Park in Coimbatore**

Electronics Corporation of Tamil Nadu (ELCOT), Tamil Nadu Industrial Development Corporation (TIDCO), TIDEL Park Limited and Software Technology Parks of India (STPI) are jointly putting up an IT Park measuring 17.11 lakh sq.ft. at Coimbatore. The foundation stone for this project was laid by the Hon'ble Chief Minister of Tamil Nadu on 24<sup>th</sup> February 2007. The project cost has been estimated as Rs.335 Crores. The work on this project is progressing fast and is likely to be completed by

early 2009. An extent of 10 acres in this SEZ has been allotted to M/S WIPRO Ltd and an extent of 5 acres has been allotted to M/s. TCS Ltd for establishment of IT facilities at this IT-ITES Special Economic Zone. ELCOT also proposes to set up an integrated IT Township with required social infrastructure like Housing, Medical Facility, School, Commercial and Entertainment facilities at this site.

### **IT Parks in Madurai**

The IT-ITES Special Economic Zone established by ELCOT at Ilandaikulam, near Madurai is making good progress. M/s. HCL , M/s. Honeywell International India and M/s. Tessolve Services have been allotted land at this IT Park and are expected to commence their construction activities soon. The Government has given administrative sanction for construction of an IT Tower measuring over 1 million sq.ft. (10 Lakhs sq.ft.) on a public -private partnership mode, at this site.

Another IT-ITES Special Economic Zone has been established by ELCOT at Vadapalanji Village abutting the Madurai Kamaraj University. Land has been allotted to M/s. HCL Limited, M/s. Sutherland Global Services and M/s. Satyam Computers in this IT Park. There is good demand for land from other reputed IT-ITES Companies at Madurai. ELCOT proposes to set up an integrated IT Township with required social infrastructure like Housing, Medical Facility, School, Commercial and Entertainment facilities on 50 acres of land here.

Hon'ble Chief Minister of Tamil Nadu laid the foundation stone for these two IT parks on 26.4.2008. These two IT Parks have firmly established Madurai as an attractive IT destination. This will give a big boost to the economic development in Southern Tamil Nadu.

### **IT Park in Tiruchirappalli**

An IT-ITES Special Economic Zone has been established at Tiruchirappalli in an extent of 135.04 acres by ELCOT. Land has been allotted to M/s. Sutherland Global Services and M/s. Cognizant Technology Solutions at this Park. ELCOT proposes to set up an integrated IT Township with over 1 Million sq.ft. of IT built up space and required social infrastructure like Housing, Medical Facility, School, Commercial and Entertainment facilities on 50 acres of land at this site.

### **IT Park in Salem**

An IT Park has been established at Salem in an extent of 164.26 acres by ELCOT. ELCOT proposes to set up an integrated IT Township with IT built up space and required social infrastructure like Housing, Medical Facility, School, Commercial and Entertainment facilities on 100 acres of land at this site. Hon'ble Chief Minister laid the foundation stone for this IT park on 14.9.2007.

### **IT Park in Tirunelveli**

An IT-ITES Special Economic Zone has been established at Tirunelveli in an extent of 100 acres by ELCOT. This Park has been expanded by acquiring an additional extent of 400 acres. There is good response from IT-ITES companies to this IT Park. ELCOT proposes to set up an integrated IT Township with IT built up space and required social infrastructure like Housing, Medical Facility, School, Commercial and Entertainment facilities at this site. Hon'ble Chief Minister laid the foundation stone for this project on 17.6.2007.

This move of taking the IT revolution to the "deep south" has been welcomed by all and is likely to have a great impact on the economic development of this region.

### **IT Park in Hosur**

An IT-ITES Special Economic Zone has been established at Hosur in an extent of 172.19 acres by ELCOT. The ELCOT proposes to set up an integrated IT Township with IT built up space and required social infrastructure like Housing, Medical Facility, School, Commercial and Entertainment facilities at this site. Hon'ble Chief Minister laid the foundation stone for this IT Park on 26.2.2008.

### **IT Park in Vellore**

As announced by the Hon'ble Finance Minister in the Budget speech a new Information Technology Park will be set up in Vellore district by ELCOT in partnership with the private sector in the coming financial year.

### **Drinking Water Facilities in ELCOT Promoted IT Parks**

A sum of Rs.35 crores has been granted to ELCOT under the ASIDE Scheme for providing drinking water facilities to the IT Parks in Tirunelveli, Madurai-Vadapalanji, Madurai-Ilandakulam, Tiruchirappalli, Salem, Coimbatore and Hosur.

### **Road Over Bridge At ELCOT IT Park at Vadapalanji, Madurai**

The Madurai - Bodinayakkanur Railway line cuts across the IT Park site, leaving the SEZ area accessible only through a railway level crossing or a railway over bridge. This IT Park is expected to house over 75000 IT professionals in the next 10 years. Hence a connecting fly over has to be provided to connect the IT Park site with the Madurai - Theni National Highway to avoid traffic congestion. A sum of Rs.12 crores has been granted to ELCOT through ASIDE Scheme for construction of the Railway Over Bridge to connect Madurai - Theni National Highway with the Vadapalanji IT Park site. This project will be executed through Railways.

### **Other Infrastructure in ELCOT IT Parks**

In order to provide roads and other infrastructure in the various IT Parks in the State by ELCOT, a sum of Rs. 43 Crores has been sanctioned under the ASIDE Scheme for construction of road and compound wall as follows:

Sl. No.	Name of the IT Park	ASIDE grant (Rs. in crores)
1	Chennai - Sholinganallur SEZ	5.00
2	Tirunelveli - Gangaikondan IT Park	5.00
3	Madurai – Ilandhaikulam IT Park	5.00
4	Madurai - Vadapalanji IT Park	5.00
5	Tiruchirappalli - Navalpattu IT Park	5.00
6	Coimbatore - Vilankurichi IT Park	8.00
7	Salem - Jagir Ammapalayam IT Park	5.00
8	Hosur – Viswanathapuram IT Park	5.00
	<b>TOTAL</b>	<b>43.00</b>

In addition, a sum of Rs.10 crores has been granted to ELCOT under the ASIDE Scheme to create captive power infrastructure and communication infrastructure in the 9 ELCOT promoted IT Parks.

### **ICT Academy of Tamil Nadu**

The greatest asset that the State of Tamil Nadu possesses is its human resources. With a view to improve

the quality of education in the State, the formation of an ICT Academy in Tamil Nadu was announced during the last budget. The Government of India has appreciated this move and has sanctioned a grant of Rs.600 lakhs for this project. The first installment of Rs.400 lakhs has been received. A number of leading IT-ITES Industries have also come forward to take part in this project through the Confederation of Indian Industry (CII). This institution will focus on development of curriculum in various technical disciplines. It will also develop content and train faculty and students. This will go a long way in improving the quality of teaching in the State and consequently result in better employability for the students of the State. The ICT Academy will commence its operations this year. Such an initiative is the first of its kind in India. Hon'ble Chief Minister of Tamil Nadu launched this initiative on 8<sup>th</sup> April 2008.

### **Indian Institute of Information Technology, Design and Manufacturing**

The Human Resources Development Ministry of the Government of India has decided to establish a National Centre of Excellence called "Indian Institute of Information Technology, Design and Manufacturing"

meeting international standards at Chennai. For this purpose, 41.21 hectares (101.75 acres) of land at Melakottaiyur and Nallambakkam villages in Kancheepuram district has been leased in favour of the Indian Institute of Information Technology Design and Manufacturing (IIITD&M). Pending the construction of buildings and other such works, 30 students have been enrolled in the academic year 2007-08. Classes are presently being held at IIT Chennai campus until IIITD & M Kancheepuram is fully established.

### **Society for Electronic Transactions and Security (SETS)**

Society for Electronic Transactions and Security (SETS) is an organization conceived by Dr. A.P.J. Abdul Kalam, the Hon'ble former President of India. The Principal Scientific Advisor to the Government of India is the present Chairman of this organisation. SETS was set up for the purpose of developing technologies that can protect the information wealth of the country and that can be used in the Certification of Information Security products and services. The Government of Tamil Nadu has allotted 2.8 acres of land at Taramani, Chennai for setting up a world class Advanced Facility for Information Security and Cryptology (AFISC). The setting up of this prestigious facility at Chennai will add to the attractiveness of Chennai and Tamil Nadu as an investment destination. This state of the art facility is under construction and is expected to be completed by the end of 2008.

### **Information Technology Task Force**

A State Information Technology Task Force was constituted under the Chairmanship of the Hon'ble Chief Minister of Tamil Nadu. The Task Force has representatives from leading Software, BPO, Hardware and Telecom companies besides representatives from various Industry Associations in Tamil Nadu. A meeting of the Task Force was conducted on 23<sup>rd</sup> August 2007. In this meeting, inputs of the members on the formulation of the new Information Technology Policy 2008 were obtained. The valuable suggestions made by the members have been incorporated in the Policy.

### **Scheme to provide free Colour Television Sets**

A unique scheme of free distribution of Colour Television sets to the households not having Colour Television Sets was commenced on 15<sup>th</sup> September 2006. A Committee of Legislators comprising representatives of political parties represented in the Legislative Assembly has been formed to ensure transparency in procurement and proper distribution of



Colour Television sets. This Committee is headed by the Hon'ble Chief Minister of Tamil Nadu. Thiru. M.K. Stalin, Hon'ble Minister for Local Administration(DMK), Thiru. D.Sudarssanam (INC), Thiru. G.K.Mani (Pattali Makkal Katchi), Thiru. C.Govindasamy (Communist Party of India (Marxist)), Thiru. V. Sivapunniam (Communist Party of India), Thiru. K. Selvam (Dalit Panthers of India), Thiru. H.Abdul Basith (Indian Union Muslim League) and Thiru. Poovai M. Jaganmoorthy (Puratchi Bharatham) are members of this Committee.

30,000 Colour Television Sets were procured through National Competitive Bidding in the first phase. Following this, 25 lakh Colour Television Sets were procured through International Competitive Bidding in the second phase. In the third phase, orders have been placed for the procurement of 34 lakh and 25,000 Colour Television Sets through International Competitive Bidding. The entire procurement was done under the direct supervision and guidance of the aforesaid Committee. This unique method of procurement in a free, fair and absolutely transparent manner has received praise from all quarters.

In the first phase, 30,000 Colour TV sets were procured and distributed to the families living in Periyar Ninaivu Samathuvapurams, families of Scheduled Tribes in Nilgiris District, families residing in two Tamil Nadu Slum Clearance Board tenements (one in North Chennai and another in South Chennai) and residents staying in rehabilitation homes throughout the State.

The second phase of free distribution of Colour Television Sets was launched by the Hon'ble Chief Minister at Pammadhukulam Village in Thiruvallur District on 15.2.2007. The second phase of distribution has been completed successfully.

The Third Phase of free distribution of 34,25,000 Colour Television Sets was launched by the Hon'ble Chief Minister at Vellore on 16-02-2008. This is in progress.

## **Infrastructure Development**

One of the prime requirements for the growth of the IT sector is the availability of building infrastructure. In order to streamline the process, a single-window facilitation process has been introduced in the Electronics Corporation of Tamil Nadu Limited (ELCOT). No Objection Certificate for IT Buildings are being issued without any delay. ELCOT has so far issued NOC to 213 IT Buildings with built up area in excess of 73 Million Sq.ft.

The availability of this huge pool of building infrastructure is a great attraction for investors in the IT sector.

A comprehensive multi-sectoral development plan for Chennai city, Coimbatore and other towns has been formulated under the JNNURM programme to meet the challenges thrown up by the rapid increase of population on account of the phenomenal growth of the IT sector.

A Metro Rail Project and several other mass transportation projects have also been planned for improving the transportation needs of the Towns. Expansion of existing Airports and establishment of new Airports is also being contemplated. Hon'ble Chief Minister of Tamil Nadu laid the foundation stone for the expansion of the new Airport Terminal Complex on 26.4.2008.

These investments in Infrastructure will add to the attractiveness of Tamil Nadu as a preferred destination for National and International investors.

## **IT Promotion**

The Government of Tamil Nadu through ELCOT participates in a number of National and International IT related events in order to promote the State as an investment destination. The premier IT event in this regard is 'CONNECT'. This is a one stop forum that unites the diverse stakeholders in the ICT sector - the Government, Industry, Service Providers, Academia and most importantly the End Users. The past seven editions of **CONNECT** have attracted the attention of the cream of the IT Industry in India as well as from a large number of foreign countries and has emerged as one of the most popular forums in the National and International Calendar of ICT events.

CONNECT 2008, the eighth in the series is planned to be held in the month of September 2008 at Chennai. It is anticipated that a large number of national and international delegates will participate in this event.

## **“Empower IT” Campaign**

The Information Technology Industry has been facing a severe shortage of quality manpower. The Tier II Cities of Tamil Nadu offer great potential in the area of IT manpower. In order to project the manpower potential of the Tier II cities and also to induce confidence among the student community, an event titled "**Empower IT**" was conducted in Tirunelveli on 18<sup>th</sup> and 19<sup>th</sup> January 2008. The aim of the Empower IT

campaign was to bring together final year college students and IT Companies. Various competitions and seminars were conducted for the student community. Over 12,000 college students and 34 IT Companies took part in this campaign. This was a successful event in exploring the potential of the Tier II Cities of Tamil Nadu.

### **Other Promotion Events**

ELCOT also organized/participated in the following IT promotion events during the year:

- 1) SME Expression 2007 Conference at Madurai on 18.5.2007
- 2) NASSCOM HR Summit 2007 at Chennai from 5<sup>th</sup> to 6<sup>th</sup> July, 2007
- 3) SME Expression at Tirunelveli on 11.10.2007
- 4) SME Expression at Trichy on 26.10.2007
- 5) ISec-2007 Exhibition cum Conference at Chennai on 26<sup>th</sup> and 27<sup>th</sup>, October 2007
- 6) Bangalore IT.In 2007 at Bangalore from 29<sup>th</sup> October to 1<sup>st</sup> November 2007
- 7) 'CONNECT Coimbatore 2008' at Coimbatore on 14.3.2008

### **E-Governance**

Tamil Nadu has been declared as a 'leader' in e-readiness by the recently published Report of the Government of India. The State's website- <http://www.tn.gov.in> has been awarded Gold Medal during the recently concluded National e-Governance Conference. Tamil Nadu has also been awarded the "Best e -Governed State" prize by the renowned magazine Dataquest. Many of the projects taken up in the State have been acknowledged as pioneers in their respective fields. Tamil Nadu continues to sustain this position of leadership by undertaking several new initiatives.

### **Tamil Nadu e- Governance Agency**

'Tamil Nadu e-Governance Agency', an autonomous Society has been formed to specifically focus on e-Governance activities. The Director

e-Governance is the Chief Executive Officer of this society. The establishment of this society has made e-Governance in Tamil Nadu more systematic by providing an institutionalized framework.

### **Tamil Nadu State Wide Area Network (TNSWAN)**

The TNSWAN is the first State Wide Area Network in India that has commenced commercial operations since December 2007. The overall cost of the project for 5 years is Rs. 181.69 Crores. The share of the Government of India in this project is Rs.97.17 Crores and that of the State Government is Rs.84.52 Crores. M/S. HCL is the technical consultant for the project and M/S.TCS is the Build Own Operate and Transfer (BOOT) operator. The Bandwidth for the project is leased from M/S.BSNL.

The TNSWAN provides the connectivity backbone for the State over which, Voice, Data, Internet, Intranet and Video Conferencing services have been launched. 708 Points of Presence (POPs) have been established all over the State linking the State Headquarters to every District (31), Taluk (395) and Block Headquarters (282).

The work of providing horizontal connectivity to individual offices is now being taken up. Offices located within the premises where the POPs are located are being provided with Local Area Network (LAN) connectivity. Offices located within short distance of the POP are being covered with extended LANs. Offices at a distance from the POPs are to be covered with Leased Lines, Broadband or Dial UP connectivity. The use of Wireless Modes of connectivity is also being contemplated.

### **State Data Centre**

State Data Centre is one of the key infrastructure projects envisaged under the National e-Governance Plan (NeGP). A sum of Rs.55.80 crores has been sanctioned for this project by the Government of India.

The first phase of this project has been completed at a cost of Rs.12 crores by ELCOT, making Tamil Nadu the first State in India to have such an advanced facility. This is a state of the art data centre with the entire required infrastructure. This will host all Government to Citizen (G2C) and Government to Government (G2G) applications for internal Government processing and online services to citizens. Hon'ble Chief Minister of Tamil Nadu inaugurated this facility on 8<sup>th</sup> April 2008. Work on the second phase is progressing and is expected to be completed this year.

### **Common Services Centres (CSCs)**

Tamil Nadu is also among the few States in the country where the Common Services Centre Project has progressed well. Ms.3i Infotech and Ms.SREI have been issued Letters of Intent (LOI) to set up 5440 CSCs – one for every 3 Villages in the State. Three of these Centres were inaugurated on 8<sup>th</sup> April 2008 by the Hon'ble Chief Minister of Tamil Nadu. The rest will be rolled out by end of 2008. These would be the physical front end of the service delivery mechanism and would deliver web-enable anytime, anywhere access to information and services in rural areas.

Various Government to Citizen Services (G2C) like land records, Registration, Certificates, Ration Cards, Electoral Rolls and Cards will be offered to citizens. Similarly Business to Citizen (B2C) services like Railway and Bus ticketing, Utility Payments, Online Education, Banking, Insurance, Agriculture, Telemedicine etc will also be offered through these Centres.

### **e-District Project**

e-District is one of the key infrastructure projects envisaged under the National e-Governance Plan (NeGP). A sum of Rs.12.58 Crores has been sanctioned for this project by the Government of India. **The Districts of Tiruvarur, Krishnagiri, Perambalur, Ariyalur and Coimbatore have been selected for implementation of this project.**

### **Capacity Building**

Under the National e-Governance Plan (NeGP) of the Government of India, assistance is provided to the State Governments to enhance the capacity for the implementation of the e-governance projects. **A sum of Rs.218 lakhs as grant and Rs.182.3 lakhs as Additional Central Assistance has been sanctioned by the Government of India for this purpose.**

### **Mission Mode Projects under the National e-Governance Programme**

15 Mission Mode Projects have been selected under the National e-Governance Plan (NeGP) in Tamil Nadu. They are as follows:

1. Land Records
2. Commercial Taxes
3. Registration
4. Agriculture
5. Food and Civil Supplies

6. Health
7. Panchayats
8. Education
9. Treasuries
10. Municipalities
11. Transport
12. Employment
13. Industries
14. Social Welfare
15. Secretariat Computerisation

Detailed Project Reports (DPRs) have been formulated for all the above projects. **Out of the above, three projects, namely, Commercial Taxes, Food and Civil Supplies and Treasuries have been selected under the 'e Bharath' Scheme of the Government of India. Funds for the implementation of these three projects are expected from the Government of India soon.**

### **Pilot Projects in e Governance**

The following pilot projects have been sanctioned by the Department of Information Technology, Government of India for enhancing e-Services in Tamil Nadu:

<b><i>Name of the Project</i></b>	<b><i>Total Amount Approved (in Lakhs)</i></b>	<b><i>Amount released (in Lakhs)</i></b>
1. e-Services of Taluk Offices	497	249
2. e-Services of Collectorates	494	247
3. e-Services of Municipalities	496	248
4. e-Services of Civil Supplies	492	246
5. e-Services of Registration	497	249
6. e-Services of Transport Dept.	496	248

<i><b>Name of the Project</b></i>	<i><b>Total Amount Approved (in Lakhs)</b></i>	<i><b>Amount released (in Lakhs)</b></i>
<b>TOTAL</b>	<b>2972</b>	<b>1487</b>

The amount released so far has been utilized. The Government of India has been addressed to release the second installment for completing the schemes. The details of the schemes are as follows:

### **Enhancing e-Services of Taluk Offices**

The Taluk Offices under the Revenue Department of Government of Tamil Nadu have been Computerised under Tamil NILAM (Tamil Nadu Info system on Land Administration and Management) Project to offer the following citizen centric services:

- Issue of Land Ownership Certificates (Chitta Extract and 'A' Register Extract)
- Birth / Death Certificates

These services are presently available only at the respective Taluk Offices. Under this project these services will be made available over the internet. Thus, citizens can avail of these services at anytime, from anywhere. The project will be completed during the current year.

### **Enhancing e-Services of Collectorates**

A large number of Government services and information on Government is available on the internet. In order to make these accessible to the common man, it is proposed to set up internet enabled kiosks at all the Collectorates. These Kiosks will be equipped with 5 Computers along with Broadband/TNSWAN connectivity. Touch Screen Kiosks have also been proposed at all these locations for the public visiting the Collectorates to view the computerised data directly. These Centres will be established in all the Collectorates during the coming year.

### **Enhancing e-Services of Municipalities and Town Panchayats**

Tamil Nadu has 6 Municipal Corporations (Chennai, Coimbatore, Madurai, Trichy, Salem and Tirunelveli), 152 Municipalities and 561 Town Panchayats. The following e-services are proposed:

- i. Collection of Property Tax payments
- ii. Collection of Water Charges payments
- iii. Online application for Birth / Death Certificates
- iv. Online application for Child Name Registration
- v. Online applications for booking Marriage Halls / Public Grounds
- vi. Online application for Trade Licenses
- vii. Online applications for Survey Sketch
- viii. Online applications relating to Property Tax such as Name Transfer, Taxation Appeal, etc
- ix. Online applications for Water Supply connection, Drainage connection, etc.
- x. Collection of Professional Tax payments
- xi. Online grievances petitions, etc.

These services are presently available only at the respective Municipalities. Under this project these services will be made available over the internet. Thus, citizens can avail of these services at anytime, from anywhere. The project will be operational during the current year.

### **Enhancing e-Services of Civil Supplies Department**

The following e services are proposed under this scheme:

1. Application for Issue of New Ration Card
2. Application for Changes in Ration Card
  - Change of address within Shop
  - Change of address within Zone
  - Change of Address to other Zone/ District
  - Inclusion of Names
  - Deletion of Name
  - Change of LPG details
  - Change in Name
  - Change in Age, etc.



3. Application for Issue of Surrender Certificate
4. Application for Issue of Duplicate Card
5. Online Consumer Complaints etc.

Under this project these services will be made available over the internet. Consumers can avail of these services on an “anytime/anywhere” basis. The project will be operational during the current year.

### **Enhancing e-Services of Registration Department**

Registration Department is one of the oldest departments of Government of Tamil Nadu functioning from the year 1865.

Under this project, the following services will be made available to the public:

1. Provide the facility for applying online for Certified Copies of the documents without the need to visit concerned office through the internet. This would enable availing this service from anywhere and at anytime.
2. Enable sharing of registration details and ownership details between Sub Registrar Offices and Taluk Offices.
3. Monitoring the status of application.
4. Any payment to be made for availing the services would be enabled using various Payment Gateway options and Payment Cards or through the Citizen Service Centres.

The project will be completed during the current year.

### **Enhancing e-Services of Transport Departments**

Road Transport is one of the vital sectors serving very large number of people in the state. The services of the Department are offered through

46 Regional Transport Offices and 42 Unit Offices. Some of the services offered by the department are:

- Vehicles Registration
- Issue of Driving License
- Issue of Learners License
- Issue of Permits
- Issue of Conductors License, etc.

“Vahan” is a software that has been developed to create a database of all vehicles registered in the State. Similarly, “Sarathy” is a software that has been developed to create a database of all driving licences that have been issued in the State. Under this pilot project, these two databases will be made available at a central level by providing connectivity to all RTO’s Offices.

For catering to the needs of travelling public, the State Transport Corporations operate more than 15,000 buses serving more than 1 crore passengers everyday. The e-services of the State Express Transport Corporations like online ticket booking facility and bus location system using GPS are proposed to be enhanced under this project. The project will be completed in the current year.

### **Electronics Corporation of Tamil Nadu (ELCOT)**

Electronics Corporation of Tamil Nadu (ELCOT) is a wholly owned undertaking of the Government of Tamil Nadu. ELCOT was formed during 1977 and it functions as an extended arm of the Government as a channel of connectivity between the investors of IT and ITES sector, and the Government. ELCOT has completed 30 years of its existence on 21.03.2007. ELCOT has expanded its activities in the areas of Project Implementation and Information Technology Promotion.

### **Prominent Projects implemented by ELCOT**

#### **Colour TV Scheme**

The Government have entrusted ELCOT with the prestigious project of procuring 14” Colour Television Sets for free distribution to the public. So far, ELCOT has procured and supplied Twenty Five Lakhs and Thirty Thousand (25,30,000) Colour TV Sets in two phases. The third phase of procurement and supply of Thirty Four Lakhs and Twenty Five Thousand (34, 25,000) Colour TV Sets is being executed by ELCOT.

## **Tamil Nadu State Wide Area Network (TNSWAN)**

ELCOT has been nominated as the nodal agency for the Tamil Nadu State Wide Area Network Project. This is the first State Wide Area Network to become commercially operational in India.

## **Software Support Centre**

ELCOT has set up an e-Governance Software support centre under Open Source Software environment in its Head Office. The software support centre has been providing active support to the Government Departments in the areas of software consultancy and software development thus reducing the time taken for design and development of e-Governance application software.

## **Civil Supplies Department e-Governance Software Development**

ELCOT has created a state level Family Card Database for the entire 1.85 crores family cards and hosted the database online. Currently, the District Collectors have started using it for various purposes. It is expected that during the ensuing years, ELCOT would be in a position to provide on line transaction services to the citizen for and on behalf of Civil Supplies Department using the highly fine tuned database. The printing of family cards is done using this database.

## **Registration Department e-Governance Software Development**

ELCOT has been entrusted with the task of providing e-Governance software development under web based environment for the Registration Department. 108 Sub Registrar Offices would go online shortly with the software developed by ELCOT. ELCOT has been augmenting its data centre to facilitate the online hosting of the registration software. The citizen's satisfactory level is expected to go up considerably after the introduction of the online transaction system.

## **Farmers Social Security Card**

ELCOT has successfully carried out creation and printing of 70 lakhs Farmer Cards using a total electronic process system where by the District

Collectors have submitted their entire enumeration list in the electronic form.

### **Driving Licence**

The preparation and issue of Laminated Computerized Driving licence was entrusted to ELCOT by the Transport Commissioner in all the 86 centres in the State.

### **Centralised Co-operative Banking Software**

ELCOT has developed web based application software for automating the operations of the District Central Co-operative Banks. This web based core banking automation software has been under testing in 3 Central Co-operative Banks in Chennai City. This automated banking application software would be implemented all over Tamil Nadu by ELCOT through its centralised Main Frame Server hosting facility at Chennai. The Banks will be connected to the centralised server through Tamil Nadu State Wide Area Network Infrastructure.

### **Automation Software for Directorate of Town And Country Planning**

DTCP has entrusted the development of application software to ELCOT for automating its operations in the area of Layout Approval and Building Plan Approval. The DTCP Software with full citizen interface will be implemented through ELCOT during the current year.

### **Software for Commercial Taxes Department**

The Commercial Taxes Department has entrusted the task of developing and hosting application software enabling the Commercial Tax Dealers to register online and to file their monthly VAT Returns online. ELCOT has already developed the prototype of the software which is under testing by the Commercial Tax department. During this year, this application software will be hosted online from ELCOT's Main Frame Server Data Centre thus enabling the Commercial Tax Dealer Community to get the best of online services from Government.

### **Procurement**

ELCOT has adopted an innovative procurement policy by encouraging competition among the vendors coupled with an open and

transparent procurement process. This has resulted in price reduction to a tune of 20-30% of the market value of the products, thus contributing to substantial savings for Government Departments. During 2007-08, ELCOT procured IT products for a value of Rs.135.54 Crores.

### **Arasu Cable TV Corporation Limited**

Tamil Nadu has the maximum cable penetration in the country. There have been frequent complaints from the viewers as well as the local cable operators and small Multi System Operators (MSOs) regarding the non-availability of pay channels at reasonable cost and also the poor quality of service. Government of Tamil Nadu, therefore, launched Arasu Cable TV Corporation, fully owned by the Government with the intention of functioning as a Multi System Operator(MSO) in Chennai Metropolitan area and as cable operator in other areas of the State. The Corporation will receive signals from Broadcasters and distribute it to the consumers through the local cable TV operators. The main objective of the Corporation is to provide high quality cable TV service at reasonable cost to the public, through the existing cable TV operators. This will facilitate to streamline the existing unorganized cable TV industry in the State. The Ministry of Information and Broadcasting, Government of India has granted permission to the Arasu Cable TV Corporation for operating as a Multi System Operator (MSO) in the City of Chennai.

Arasu Cable TV Corporation is proposing to set up Digital Head Ends in 6 – 8 cities / towns utilizing the state-of-the art equipment. Each of the Head End will be feeding the TV signals with about 80 channels through the local cable operators spread in the area up to a distance of about 100 Kms. Global tenders have already been invited for setting up of such Head Ends at Coimbatore, Tirunelveli, Tiruvannamalai and Thanjavur. It is proposed to invite global tenders for setting up of such a Head End at Chennai soon. It is expected that these Head Ends would become fully operational along with the distribution network by September 2008.

The Government has constituted a welfare board with a view to promote the welfare of the Cable TV Operators.

### **Tamil Virtual University**

#### **Inception**

Tamil Virtual University (TVU), a unique and first institution of its kind for a language, was established by the Government of Tamil Nadu for providing internet based educational resources and opportunities for the

Tamil communities living in different parts of the globe as well as others interested in learning Tamil and acquiring knowledge of the history, art, literature and culture of the Tamils.

## **Academic Programmes**

The present Chief Minister of Tamil Nadu inaugurated the web based academic programme of TVU in June 2002. This has successfully evolved and flourished, and moved forward and has reached the level of conducting Examinations for the Certificate and Degree programmes in Tamil, through the various study centers of TVU located in different countries. TVU offers Certificate Courses (at three levels - Basic, Intermediate and Advance) and Graduate (B.A.) Programme in Tamil. The post graduate Programme M.A. (Tamil) has been approved by the Tamil University and the lesson writing is in progress.

Tamil Virtual University has signed a Memorandum of Collaboration with IGNOU for sharing their education resources for the students of TVU. Their resources will be used for the optional language (English, Part – II) of B.A Degree Programme. Tamil Virtual University has also signed a MOU with Commonwealth of Learning, Canada, to train 40 Tamil teachers from Malaysia for their degree programme.

## **Examination**

5961 candidates from 59 countries have registered for different courses - 286 have passed Certificate Examinations, 176 have passed their Diploma Examinations and 29 have passed their Higher Diploma Examinations during 2007. As a pioneer in India, TVU has conducted online examination through Internet for B.A. Degree Program for a total of 247 candidates during 2006-07. Online examination for total of 165 candidates was conducted during this year (2007 – 2008). 56 candidates have appeared for the Written – Offline – Examinations in Jan 2008. Moreover, Written Examinations for the Diploma and Degree papers are being conducted in March 2008.

## **Students Registration**

The TVU's website has been accessed by nearly 17 lakhs of people so far. About 2827 students from 59 countries have registered for the Certificate Programme and 3134 students for the B.A.Tamil Degree. It has 19 Coordinating Centres in 12 Countries.

## **Establishment of Virtual Classroom**

The Teaching/Learning methodology adopted for the Academic Programme is e-learning through Internet based lessons with multimedia support. To further strengthen and augment TVU's web based virtual Education Programme, a **Virtual Class Room**, a state of the art e-learning methodology with video conferencing equipments along with a streaming server and high speed internet connectivity are established in TVU.

## **Study Centres**

So far 19 Study Centres from 12 countries, has been established by Tamil Virtual University, Efforts are on to locate coordinating Centres in countries where Tamil Population is sizable.

## **Digital Library**

Digital Library of TVU, established on its website, comprises of a rich collection of Tamil Literature and also provides a view window into the culture, history and heritage of the Tamils. The literature content includes a large number of Tamil books.

இலக்கணம், சங்க இலக்கியம், பதினெண் கீழ்க்கணக்கு, காப்பியங்கள், சமய இலக்கியங்கள், சிற்றிலக்கியங்கள், திரட்டு நூல்கள், நெறி நூல்கள், 20ஆம் நூற்றாண்டு கவிதைகள், நாட்டுப்புற இலக்கியங்கள், உரைநடை நூல்கள், கலைச்சொற்கள் தொகுப்பு மற்றும் அகராதிகள் என மொத்தம் 300 புத்தகங்கள் இணைய தளத்தில் சேர்க்கப்பட்டுள்ளன.

More books on modern Literature are being added now. On the Cultural front, Video clippings of Folk Arts and dance forms like, Karakattam, Mayilattam, Oyilattam and Bharatha Nattiyam are included. The Roman script versions of Tamil classics like Tolkappiyam, Pathupattu and Ettuthogai are also available. The distinct advantage of this digital library is its elaborate subject indexing and search facilities. It is an unique one and a pioneering effort in a language. Thirty Glossaries in different disciplines are available on the web with more than, 2,00,000 technical terms. To enable a tourist go round Tamil Nadu with ease and comfort, Tourist Tamil programme has been developed during the current year.

## **Tamil Software Development Fund**

The Government has always been keen on the use of Tamil in Computers and encouraged the development of tools and software in Tamil by providing grants for the software developers. Two of the projects

funded under this scheme, namely, Tamil OCR Software and English-Tamil Machine Aided Translation Packages were released by the Honourable Chief Minister in 2002 and 2003 respectively. A few more projects namely, Tamil Word Net to enhance Machine Translation, Tamil Linux, Localising Windows 95 & 98, Idham 2000 - Advanced Tamil Interface for Microsoft Windows, Optical Character Recognition Software for Tamil Handwriting – Phase I, and Localization for Tamil in Mobile Phones have been completed. A Universal Search Engine has also been completed and hosted at NIC for testing. The project 'Value Added Services in Regional Language on Hand Held Devices' has been completed during this year. There are 6 on going projects. Government will further promote the Tamil Software development as R&D efforts for the growth of Tamil computing and Tamil IT.

### **Standardization and Certification for Tamil encoding**

To facilitate smooth data exchange among files and programs, Government of Tamil Nadu have standardized the Tamil99 and Typewriter keyboards for data entry and TAB and TAM encoding for Tamil Characters. This will facilitate many developers to come up with effective tools which could be used as plug-ins, and promote development of efficient packages. TVU is the **Testing and Certifying Agency** for the Tamil software suites for the compliance with the standard. So far 20 products were certified by TVU.

### **Popularizing the TVU**

In addition to conducting various workshops in colleges to make known the programmes and Digital Library of TVU, two Touch Screen Kiosks one at Birla Planetarium and other at TVU were installed. This will provide information about TVU and sample lessons as well as Digital Library to the general public.

### **Other Activities of TVU**

The following activities have also been carried out by Tamil Virtual University during the year:

1. **Thirukkural with search facility:** Thirukkural CDs as available in TVU e-library with search facility with 5 commentaries and two translations have been produced.



2. **Web-enabled Palm Leaves in TVU website:** Palm leaves collected by Dr.U.V.Swaminatha Iyer, the great Tamil scholar have been web enabled with search and zooming facilities to enhance readability. Corresponding Tamil Text is also given along with the Palm Leaves for easy reference.
3. **CDs on Temples / Churches / Mosques:** Video clippings on Temples, Churches and Mosques are web enabled.
4. **Video Gallery on performing arts and culture:** The Video gallery in TVU site is being expanded with more Video clippings.
5. **Publication of Technical Glossaries:** The technical glossaries prepared by various universities and other institutions have been hosted on the TVU website with search facility. Tamil Virtual University is now engaged in reviewing, and vetting the terms for publication in a standard series of 12 volumes.
6. **E-Studio Equipments:** Studio equipments costing Rs.25,00,000 (Rupees Twenty Five Lakhs only) have been purchased for establishing an e-studio for conducting online classes as well as producing e-lessons as per Tamil Virtual University curriculum & syllabus.

## **All Character Encoding for Tamil**

The Government of Tamil Nadu has constituted a Task Force headed by Prof. Ananthakrishnan to study the feasibility of developing an all character encoding system for Tamil language computing. The final report of the committee is awaited.

## **Building for TVU**

Honorable Chief Minister of Tamil Nadu announced the allotment of 2 acres of land and Rupees One Crore for the construction of the own building for TVU. Accordingly, Government has alienated 2 acres of land to Tamil Virtual University at Kottur in Chennai. The building will be completed during the current financial year.

## **New Schemes**

The following new schemes at a total cost of Rs.1 crore have been included for the year 2008-2009.

### **Disaster Recovery Centre**

ELCOT has set up a State Data Centre at Perungudi, Chennai. The setting up of a Disaster Recovery Centre is mandatory to satisfy the technical requirements of the Data Centre. An amount of Rs.60 lakhs has been included in the Budget Estimate 2008-09 for this purpose

### **Publication of Lessons, e-Books and Technical Glossaries**

Tamil Virtual University has hosted a large number of books in its e-Library along with Technical Glossaries and Cultural Video Gallery. It is proposed to publish lessons and e-books as available in the website for the use of students and others. Moreover, the Technical terms put in the e-Library needs to be reviewed and standardised for use by the authors who are writing technical books in Tamil. An amount of Rs.12.00 lakhs has been included in the Budget Estimate 2008-09 for this purpose.

### **Software for reading inscriptions**

The inscriptions on stones, coins, copper plates and mud pots reveal vital clues on the cultural developments of Tamils. However these inscriptions change according to a particular period. Therefore reading and interpreting the inscriptions requires special expertise and training. A software will make these things easy. Hence it is proposed to develop a software for reading these inscriptions and converting into readable text and also to classify according to their period. An amount of Rs.12.00 lakhs has been included in the Budget Estimate 2008-09 for this purpose.

### **Search facilities for TVU-web content**

Tamil Virtual University has hosted a large number of lessons at Certificate Level and Degree Level. It also has a rich Digital Library including Tamil Literature, Technical Glossaries and Cultural Video Gallery. In order to facilitate global search, the entire content of TVU website has to be integrated into one data base. This will help the students and visitors of TVU website to search information from lessons, e-books, dictionaries and cultural gallery. An amount of Rs.9.00 lakhs has been included in the Budget Estimate 2008-09 for this purpose.

### **Training of various department officials in e-Governance**

Training of Government Servants is vital for the success of e governance. An amount of Rs.5.00 lakhs has been included in the Budget Estimate 2008-09 for this purpose.

**Purchase of Computers, Multifunctional Printer and other accessories**

An amount of Rs.2.00 lakhs has been included in the Budget Estimate 2008-09 for the purpose of purchasing Computer Systems, Multifunctional Printer and other Accessories for the office of the Tamil Nadu e-Governance Agency.

**M.KARUNANIDHI  
CHIEF MINISTER**