

# **Egyptian Technical Colleges Project (ETCP)**

## **Progress Report September 2006**

**Prof. Dr. Mohamed Kamel Elsaid**  
Faculty of Engineering - Ain Shams University  
ETCP Director

Email: [mkelsaid@mail.eun.eg](mailto:mkelsaid@mail.eun.eg)

Tel: (002)012-2176672

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## **II. ETCP objectives**

- Development of new organizational structure by clustering the MTIs into 8 Technical Colleges.
- Development of the MTIs quality by the development of programs, curricula, teaching staff, laboratories and workshops.
- Improving the relevance and job perspectives of the graduates.
- To open channels for distance learning and sustainable in-service training for teaching staff and administration.

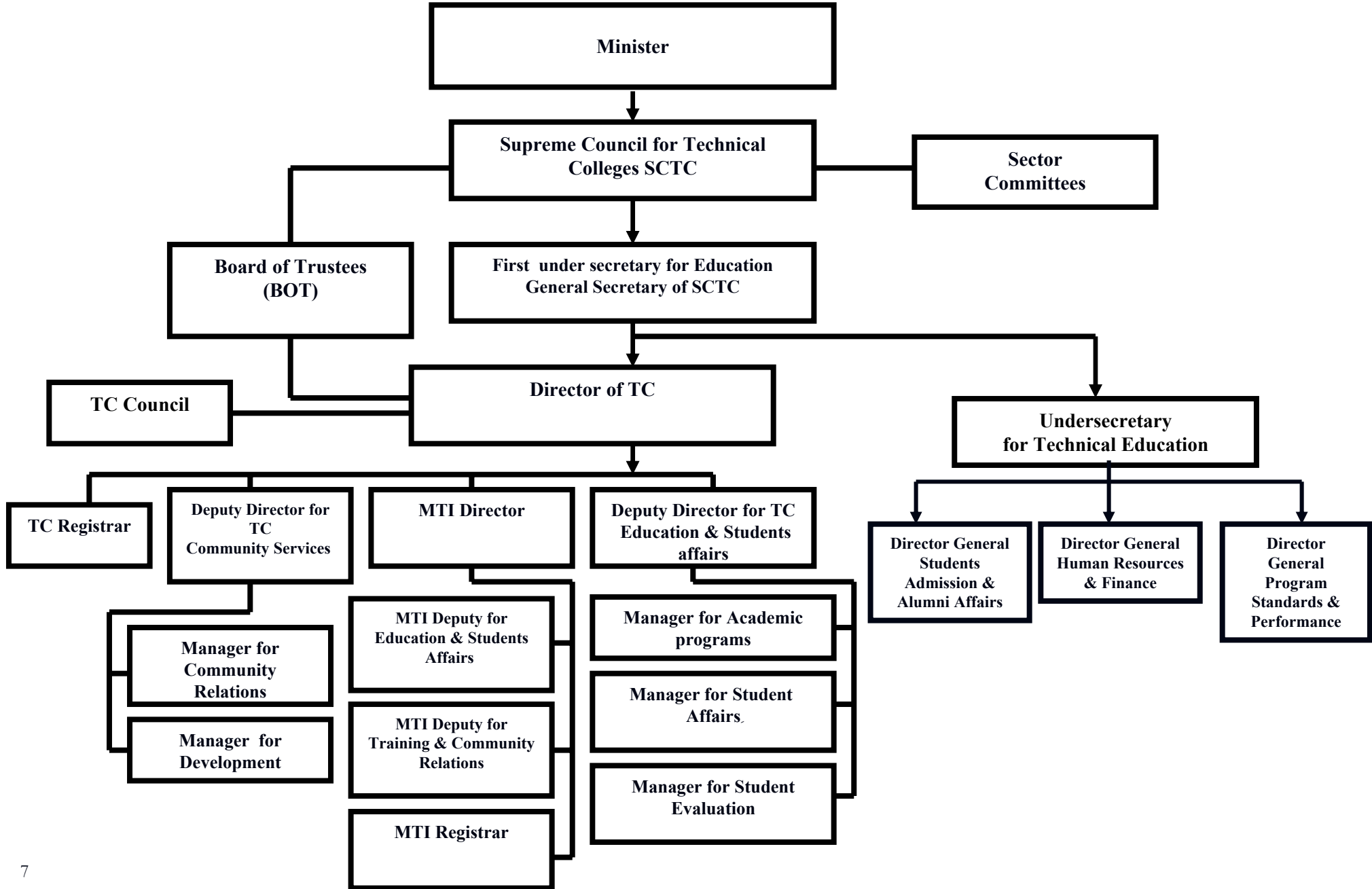
### **III. Mission of the TCs**

- The main mission of the TCs is to qualify technicians in various sectors. The TCs graduates are technicians who fit in intermediate job levels and they represent a very important nexus in the workforce chain in the fields of production and services.
- The laboratories and workshops of the TCs should be a certified training centres to serve the business community and to provide training opportunities to the youth in the community who are willing to develop their skills and get a job licence in the different specializations.

#### **IV. Key performance indicators**

1. Consolidation of 45 Middle Technical Institutes into 8 Technical Colleges.
2. Legislative framework in place for the Technical Colleges to become self-governing institutions with linkages to the private sector.
3. Redesigned curriculum, reflecting private sector input, introduced in TCs by 2007, benchmarked against international standards.
4. Refurbishment of computer, language and internet labs in the eight TCs. Development of TC basic labs and workshops and development of physical facilities in the Pilot TCs.
5. Equipping computer, language and internet labs in the eight TCs. Equipping specialized labs and workshops with equipments that serve the developed curriculum in the pilot TCs by 2007.
6. Recruiting new teaching and support staff.
7. Upgrading the teaching, administrative and support staff.
8. Establishment of Management Information System in the eight TCs.
9. 10% of the pilot TCs budget should be raised from the business community against services offered.
10. Increased employability and productivity of graduates from Technical Colleges.

## V. The Organizational Structure for Technical Education



Mediterranean Sea

Port Said TC

Quesna TC

Elmahalla TC

Alexandria TC

Mataria TC

Sahafa TC

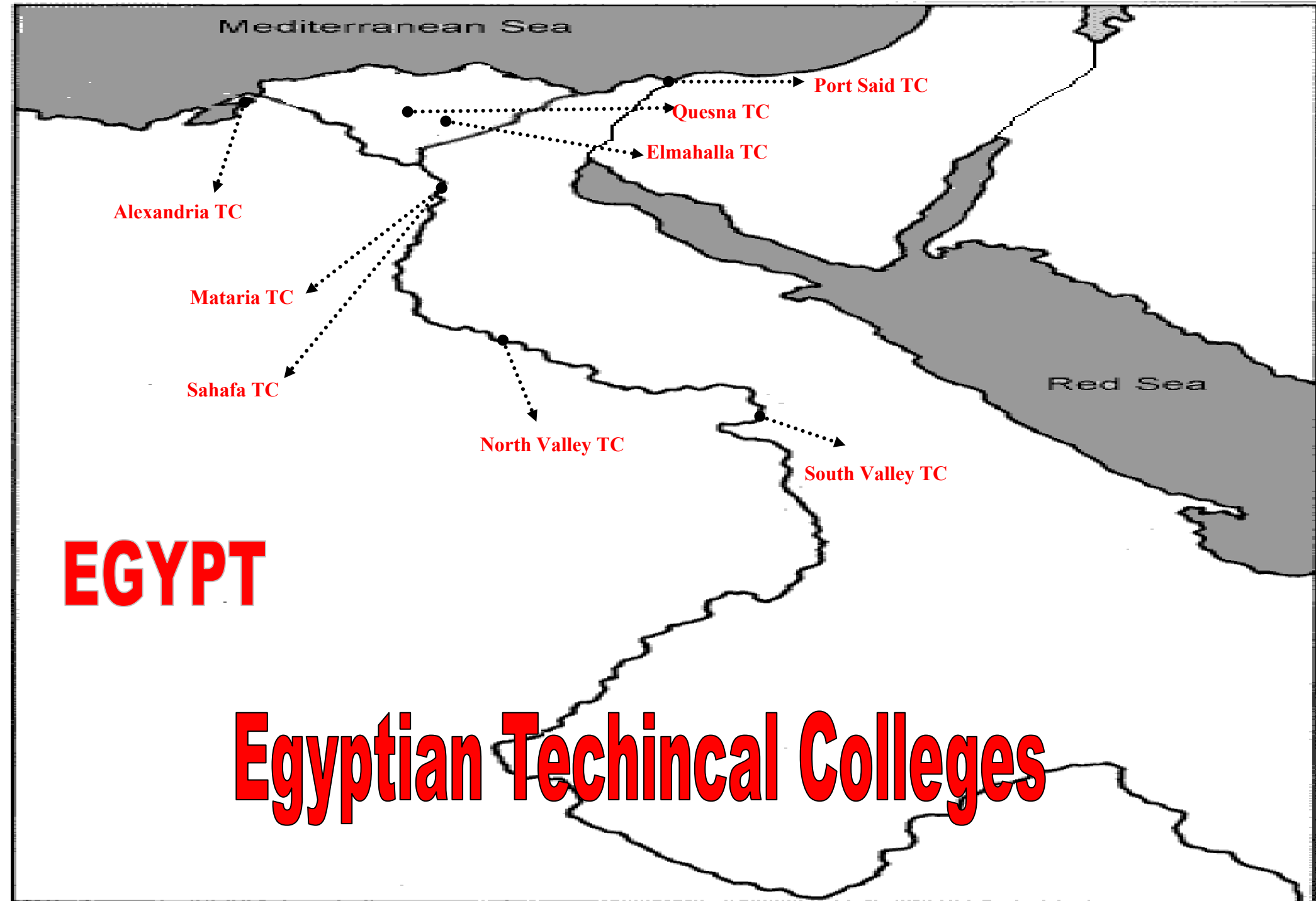
North Valley TC

South Valley TC

Red Sea

**EGYPT**

**Egyptian Technical Colleges**



## V. Egyptian Technical Colleges Project (ETCP) activities and outputs

I.D.	Activities	Outputs
A	<b>Bringing together MTIs into TCs based on geog.</b>	<ul style="list-style-type: none"> <li>▪ The MTI's were brought together into 8 Technical Colleges</li> </ul>
B	<b>Development of the TCs organiz. and gov. struc.</b>	<ul style="list-style-type: none"> <li>▪ The Organizational Structure is finalized.</li> <li>▪ Ministerial Decrees for the formation of the Academic Council, Board of Trustees of each college and the Supreme Council of TCs were issued.</li> <li>▪ Legislative framework for the TCs to become self-governing institutions with linkages to the private sector is not yet approved.</li> </ul>
C	<b>Refurbishment of computer, language and internet labs &amp; Development of physical facilities</b>	<ul style="list-style-type: none"> <li>▪ 85 computer labs &amp; 12 language lab were refurbished and equipped.</li> <li>▪ 26 Internet labs were refurbished and Bid was awarded to equip the labs.</li> <li>▪ The building for workshops, Labs and lecturing rooms and auditoriums of the Industrial Technical Institute in Qena with total expenditure 15.188.825 MLE is now under construction.</li> <li>▪ Bid was released for buildings in El-Mataria and in El-Mahala TCs with estimated cost of 14 MLE.</li> </ul>
D	<b>Development of TCs specialized labs and workshops</b>	<ul style="list-style-type: none"> <li>▪ Bid documents for lab/workshop equipment were released for the three pilot TCs:               <ul style="list-style-type: none"> <li>– 21 lab/workshop for Mechanical and Electrical Specializations with total amount of 14,438,032.53 MLE.</li> <li>– 4 packages for Hotel Management and Tourism Specializations with total amount of 1,203,390.35 MLE.</li> </ul> </li> <li>▪ Re-Bid and shopping of the following:               <ul style="list-style-type: none"> <li>– 11 lab/workshop for Mechanical and Electrical Specializations with total amount of 26,130,240.00 MLE.</li> <li>– 3 packages for Hotel Management and Tourism Specializations with total amount of 209,838.00 LE.</li> </ul> </li> <li>▪ Bid documents for lab/workshop equipment will be released for Civil and Architectural Specializations with total amount of 12,599,173.00 MLE.</li> </ul>

## ETCP activities and outputs (continue)

E	<b>TC teaching, admins. and support staff</b>	<ul style="list-style-type: none"> <li>▪ A survey to identify the needs of the TCs from teachers and administrative and support staff was carried out.</li> <li>▪ Covering the shortage in teaching staff:               <ul style="list-style-type: none"> <li>- <u>1<sup>st</sup> phase</u>: announcement for recruiting 510 teachers in the Technical Institutes was released and contracting procedures with 141 teachers are carried out.</li> <li>- <u>2<sup>nd</sup> phase</u>: The ETC project will announce for recruiting teachers in the Technical Institutes in December 2006.</li> </ul> </li> </ul>
F	<b>Develop. of the TCs prog., curricula &amp; educ. resour.</b>	<ul style="list-style-type: none"> <li>- 26 programs containing 440 courses in the commercial, industrial, civil and architect, hotel management and tourism and social services specializations were finalized. 15 volumes containing the study programs and curricula for all disciplines are available to stake holders.</li> <li>- The developed programs of the commercial and social services specializations were implemented starting from the academic year 2004/2005.</li> <li>- The programs of the Industrial, Construction and Hotel Management &amp; Tourism specializations were developed using NSSP outcomes and were implemented starting from the academic year 2005/2006.</li> <li>- A mechanism for issuing the text books of Tcs was carried out according to the decision of the Supreme Council of Universities. A contest for issuing the text books of the first year in the Commercial Institutes was released and the project has contracted with the chosen applicants to issue 17 books.</li> </ul>
G	<b>Upgrading the teaching, admins. and support staff</b>	<ul style="list-style-type: none"> <li>- 12 trainers were nominated to attend the workshops organized and financed by the social fund for development for the training of the trainers (TOT), five trainers were qualified to attend and three of them obtained the SQA 3<sup>rd</sup> level.</li> <li>- 802 teachers had ICDL training, which represent 93.43% of the theoretical teachers and so far 511 teachers obtained the license which represent 63.7% of the trainees.</li> <li>- 583 teachers had English language training, which represent 68% of the theoretical teachers and so far 518 teachers obtained the certificate which represent 88.8% of the trainees.</li> <li>- 172 teachers had specialized training, which represent 41% of the theoretical teachers in Industrial institutes.</li> <li>- 267 teachers had specialized training, which represent 84% of the practical teachers (trainers) in Industrial institutes.</li> <li>- 124 technicians had specialized training program to be lab technicians.</li> <li>- 114 newly appointed teachers had Educational program.</li> <li>- Training on ICDL and English language for all theoretical and practical teachers will be finalized Within a year.</li> </ul>

## ETCP activities and outputs (continue)

<b>H</b>	<b>Upgrading of administrative and support staff</b>	<ul style="list-style-type: none"> <li>▪ Training of 872 administrative staff members, which represent 62.57% of the administrative staff:</li> <li>- 10 workshops were held to qualify 245 top managements in the TCs.</li> <li>- 17 training cycles were held to qualify 626 administrative staff members in the TCs.</li> <li>- A leadership program was held to train TCs Directors and Deputy Directors and a training program for MTIs' Directors will be held in November 2006.</li> </ul>
<b>I</b>	<b>Linking TCs and Institutes with advanced ICT net.</b>	<ul style="list-style-type: none"> <li>- The internet labs were refurbished.</li> <li>- Bid for Equipping the internet labs was awarded, and the training of the employees in the TCs on the internet will be organized by the ICT Project.</li> </ul>
<b>J</b>	<b>Linking training with labor market needs</b>	<ul style="list-style-type: none"> <li>- A survey of the training centers in the geographical area near each TC was carried out.</li> <li>- TOT in Industrial Technical Institutes on advanced specialized program is being prepared targeting first TOT's in pilot TCs.</li> <li>- labs and workshops in the pilot TCs will become certified training centres to issue a job licence in the different specializations.</li> <li>- A future plan to operate the certified training centres as special units by January 2007, the expected revenue per year of the special units is about 3 MLE.</li> <li>- Services presented by the pilot TCs to the community will represent a 10% of the annual budget of the pilot TCs by the year 2007-2008.</li> </ul>
<b>K</b>	<b>Twinning</b>	<ul style="list-style-type: none"> <li>- Bid documents for twinning pilot TCs with International Institutes in foreign countries was released.</li> <li>- Twinning was not executed because of the high cost.</li> </ul>
<b>L</b>	<b>Development of Quality Assu. &amp; Accr. Framework</b>	<p>The National Committee is currently studying a proposed project for executing and establishing a system for quality assurance in El-Mataria TC.</p>

## **IX. Updated Implementation Plan**

<b>Activity ID</b>	<b>Activity description</b>	<b>Implementation status</b>
<b>A</b>	<b>Bringing together MTIs into TCs</b>	
A1	Prepare a map for MTIs locations	Implemented
A2	Preparation and passage of the appropriate M. D.	Implemented
<b>B</b>	<b>Development of the TC organiz. and gov. struc.</b>	
B1	Establish. of the supreme council of TCs (SCTC)	Implemented
B2	Establish. of the BOT and TCs Academic council.	Implemented
B3	Def. of roles & respons. of the dir. & deputy dir.	Implemented
B4	Selection and appointment of dir. & deputy dir.	
B4.1	Advertise for leadership workshops in the media	Implemented
B4.2	Develop content of leadership workshop	Implemented
B4.3	Conduct and evaluate leadership workshop	Implemented
B4.4	Final selection of dir. and deputy dir.	Implemented
B4.5	Advertise for positions	Implemented
B4.6	Appointment of directors and deputy-directors	Implemented
B5	Formation of SCTC	Implemented
B6	Formation of BOT of each TC	Implemented
B7	Management training of TCs Directors and Deputy Directors	
B7.1	Develop TOR for management training course in Egypt	Implemented
B7.2	Invite potential bidders to submit proposals	Implemented
B7.3	Evaluation of Proposals	Implemented
B7.4	Deliver the management training course	Implemented
B7.5	Study tour	Will be Implemented after all Directors and Deputy Directors will finish English training program

## **IX. Updated Implementation Plan (Continue)**

<b>Activity ID</b>	<b>Activity description</b>	<b>Implementation status</b>
<b>C</b>	<b>Refurbishment of computer, language and internet labs &amp; Development of physical facilities</b>	
C1	Survey of infrastructure & buildings	Implemented
C2	Develop. of complete architect. plans for TCs	Implemented
C3	Def. of needed comp. & language labs	Implemented
C3.1	Refurbishment of comp. & language labs	Implemented
C3.2	Equipping comp. & language labs	Implemented
C4	New constructions	Implemented
C4.1	A strategic plan for new constructions till June 2012	Implemented
C4.2	Identifying Pilot TCs needs of new constructions	Implemented
C4.3	Contracting with South Valley Development Authority to design and supervise constructions in South Valley TC	Implemented
C4.4	Contracting with Engineering Consultation Centers in Universities to design and supervise constructions in El-Mahala and El-Mataria TCs	Implemented
C4.5	Delivery of Constructions Designs	Implemented
C4.6	Bid opening, evaluation, contract awarding and implementation	Started implementation in Qena and Bid was released for El-Mataria and El-Mahala TCs
<b>D</b>	<b>Development of TCs specialized labs. and workshops</b>	
D1	Survey of existing laboratories and workshops	Implemented
D2	Def. of needed labs and workshops for pilots	Implemented
D3	Refurbishment of labs and workshops for pilots	Implemented
D4	Procurement of labs and Workshops (Phase 1)	Implemented
D5	Procurement of labs and Workshops (Phase 2)	Re-Bid is carried out
<b>E</b>	<b>TC Teaching and admins. and support staff</b>	
E1	Survey of existing teaching, support and admins. staff	Implemented
E2	Defin. TCs needs teaching, support and admins. staff	Implemented
E3	Request of positions from MOAD	Implemented
E4	Hiring teaching staff (Phase 1)	Phase (1) Implemented and 141 teachers were hired

## **IX. Updated Implementation Plan (Continue)**

<b>Activity ID</b>	<b>Activity description</b>	<b>Implementation status</b>
<b>F</b>	<b>Develop. of the TC prog., curricula &amp; educ. resour.</b>	
F1	Defin. of specialization of TCs	Implemented
F2	Developing Commercial and Social Services specializations programs & curricula	
F2.1	Form specialized committees & develop TORs	Implemented
F2.2	Design of programs and curricula	Implemented
F2.3	Decentralization in authoring and Publishing books	Implemented
F2.4	Evaluation of the developed programs and the books of the 1 <sup>st</sup> semester 04/05	Implemented
F2.5	Evaluation of the developed programs and the books of the 2 <sup>nd</sup> semester 04/05	Implemented
F2.6	Evaluation of the developed programs and the books of the 3 <sup>rd</sup> semester 05/06	Programs evaluated & books not yet
F2.7	Evaluation of the developed programs and the books of the 4 <sup>th</sup> semester 05/06	Programs evaluated & books not yet
F3	Developing Industrial and Hotel Management specializations programs & Curricula	
F3.1	Form specialized committees & develop TORs	Implemented
F3.2	Developing programs & Curricula	Implemented
F3.3	Validation of the developed programs & Curricula	Implemented
F3.3.1	Technical cooperation agreement with federations	Implemented
F3.3.2	Verification of programs with Nssp outcomes	Implemented
F3.3.3	Decentralization in authoring and publishing books	Implemented
F3.3.4	Evaluation of the developed programs and the books of the 1 <sup>st</sup> semester 05/06	Programs evaluated & books not yet
F3.3.5	Evaluation of the developed programs and the books of the 2 <sup>nd</sup> semester 05/06	Programs evaluated & books not yet
F3.3.6	Evaluation of the developed programs and the books of the 3 <sup>rd</sup> semester 06/07	Not implemented yet
F3.3.7	Evaluation of the developed programs and the books of the 4 <sup>th</sup> semester 06/07	Not implemented yet
F4	Definitions of needed educ. resources	Implemented
F5	Procurement and commissioning of educ. resources	Implemented
F6	A mechanism for issuing the text books	Implemented
<b>G</b>	<b>Upgrading the teaching staff and support staff</b>	
G1	Survey of qualific./exper. of the teach. staff	Implemented
G2	Development of training plan	Implemented
G3	Training programs in IT and ESL	Implemented
G4	Training programs in technical specializations	Not implemented yet

## **IX. Updated Implementation Plan (Continue)**

<b>Activity ID</b>	<b>Activity description</b>	<b>Implementation status</b>
<b>H</b>	<b>Upgrading of administrative</b>	
H1	Survey of qualific./exper. of admin.& suppo. staff	Implemented
H2	Development of upgrading plan	Implemented
H3	Training prog. to enhance effici. of admin. staff	Implemented
H4	Evaluating the performance of TCs admins. and support staff.	Implemented
<b>I</b>	<b>Linking TCs and Institutes with advanced ICT net.</b>	
I1	Design technical specifications for network	Implemented
I2	Procurement, installation & testing	Bid awarded & Equipments not delivered yet
I3	ICT training (Phase 1)	Not implemented yet
I4	ICT training (Phase 2)	Not implemented yet
<b>J</b>	<b>Linking training with labor market needs</b>	
J1	Survey of the training providers in the TC region	Implemented
J2	TOT in Industrial Institutes	Implemented
J3	labs and workshops in the pilot TCs. to become certified training centres	labs and workshops are being refurbished
J4	TOT on the specialized labs and workshops in the Pilot TCs	Not implemented yet
<b>K</b>	<b>Twinning arrangement</b>	
K1	Request for EOI for Twinning arrangement	Implemented
K2	TOR for Twinning arrangement	Implemented
K3	Evaluation of requests and preparing a short list	Implemented
K4	RFP evaluation and awarding	Implemented
K5	Implementation of the Twinning arrangement	Not implemented due to the high cost
<b>L</b>	<b>Development of Quality Assu. &amp; Accr. Framework</b>	The National Committee is currently studying a proposed project for executing and establishing a system for quality assurance in El-Mataria TC.
L1	Ident. of inter. quality standards for TC progs.	
L2	Development of the certification of TC graduates	
L3	Incorporation of stand. in the QAAC's framework	
L4	Self assessment of quality in selected programs	
L5	Accr. of selected progs. & certifi. of graduates	

## **VII. Budget Till 30/6/2007**

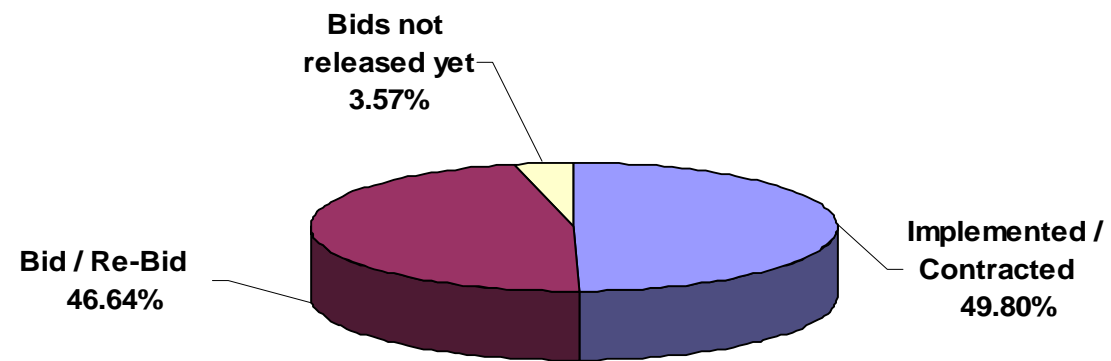
	<b>Loan</b>	<b>Local</b>
■ Refurbishment of computer and language labs	4.07	1.36
■ Equipment for computer and language labs	10.84	3.61
■ Refurbishment of specialized labs and workshops	3.66	10.97
■ Equipment for Specialized labs and workshops	35.44	11.81
■ Training	4.34	--
■ Refurbishment and Equipment of internet labs	0.67	0.22
■ New constructions in pilot colleges	3.80	11.39
<b>Total Budget</b>	<b>62.82 million L.E</b> <b>(13.31 Million US)</b>	<b>39.36 million L.E</b> <b>(6.81 Million US)</b>

## IX. Financial status in 31/8/2006

No.	Activities status	Budget	Percentage
1	Implemented / Contracted	9,346,996.78	49.80%
2	Bid / Re-Bid	8,753,357.25	46.64%
3	Bids not released yet	669,310.34	3.57%
Total		18,769,664.37	100%

- ✘ The total budget of the ETCP is 17.740M. US\$ and the financial status in 31/8/2006 shows that 18.77M. US\$ is the required budget to implement the project activities till 30/6/2007. As a result about one Million US\$ extra is required.

## IX. Financial status till 31/8/2006 (continue)



Expenditure Items till 30/6/2007 (US \$)			
No.	Activities	Bid / Quotation	Total (\$)
1	Executed / Contracted	1/G/WB/ICB/ETCP/2004 (computer labs – language labs – air conditions)	1,878,703.85
		1/G/WB/IS/ETCP/2004 (Furniture)	98,780.39
		2/G/WB/IS/ETCP/2004 (Furniture)	94,143.19
		4/G/WB/NS/ETCP/2005(Physics labs experiments)	23,725.86
		11/G/WB/NS/ETCP/2005 (Physics labs tables)	26,000.00
		14/G/WB/IS/ETCP/2006 (Auto cad)	29,070.69
		14/G/WB/NS/ETCP/2006 (language labs Furniture)	9,200.00
		1/G/WB/ICB/ETCP/2004 (3 language labs ) Ext.	141,046.71
		5/G/WB/NS/ETCP/2005 (Books & Ext.)	7,886.29
		Copies	1,066.80
		4/CON/WB/QCBS/ETCP/2006 (Land Landscape Survey)	50,000.00
		1/W/WB/NCB/ETCP/2004& Ext.	190,081.90
		2/W/WB/NCB/ETCP/2004& Ext.	329,716.99
		3/W/WB/NCB/ETCP/2004	345,199.31
		4/W/WB/NCB/ETCP/2004	70,232.16
		5/W/WB/NCB/ETCP/2005	2,618,762.93
		6/W/WB/NCB/ETCP/2006	522,263.10
		7/G/WB/ICB/ETCP/2005 (equipments for specialized labs and work shops)	2,722,046.54
		13/G/WB/NCB/ETCP/2006 (equipping internet labs)	153,568.34
		Books (shopping of 1 <sup>st</sup> year commercial books authoring right)	35,501.72
	<b>Total</b>	<b>9,346,996.78</b>	
2	Bid / Re-Bid	7/G/WB/ICB/ETCP/2005 (equipments for specialized labs and work shops)- Re-Bid	4,583,912.50
		Recruiting New Staff 500 Teachers	145,328.72
		7/W/WB/NCB/ETCP/2006	1,000,000.00
		8/W/WB/NCB/ETCP/2006	1,000,000.00
		(equipments for civil and architectural labs and work shops)	2,024,116.03
	<b>Total</b>	<b>8,753,357.25</b>	
3	Bid not released yet	Software	240,000.00
		Training	86,206.90
		Books (1st year commercial books printing)	300,000.00
		QAA	43,103.45
	<b>Total</b>	<b>669,310.34</b>	
(\$) Total			<b>18,769,664.38</b>

## **X. Requirements for the enhancement of ETCP outputs**

- **Legislative framework for TCs to become self governing institutions should be prepared and support of the MOHE, the Cabinet and the Parliament is required.**
- **100 MLE is required for the development of the infrastructure and to finalize all constructions in TCs. By 2012: as MTIs' buildings are in bad shape and 7 Institutes are sharing buildings of schools.**
- **The developed programs of the commercial and social services specializations were implemented starting from the academic year 2004/2005 and the programs of the Industrial, Construction and Hotel Management & Tourism specializations were developed using Nssp outcomes and were implemented starting from the academic year 2005/2006.**

**As a result all the labs and workshops of the industrial institutes has to be equipped properly, but the allocated budget will be enough to fully equip only the industrial institutes of 3 pilot TCs (except the industrial institutes in Qena and Zagazig which are under construction) and to fully equip the other 5 TCs a budget of 132 MLE is needed.**

## **XI. Future vision for the second phase**

### **Activities:**

- Equipping the specialized labs and workshops of the industrial institutes in Qena and Zagazig.
- Supporting the training centers in pilot TCs, Linking TCs and Institutes with advanced ICT net and linkage of the TCs with International Institutes in foreign countries:
  - Linking TCs with advanced ICT net and establishing an electronic library to serve the educational process in TCs.
  - Linking TCs with International Institutes in foreign countries.
  - Establishing and financing certified training centers as special units to provide certified vocational training for the TCs' students, youth in the community as well as business community.
- Refurbishing and equipping labs and workshops in the five non pilot TCs.
- Finishing the required constructions of the five non pilot TCs.

### **Extra Fund:**

- 22 MLE for equipping the specialized labs and workshops of the industrial institutes in Quena and Zagazig.
- 17 MLE for Supporting the training centers in pilot TCs, Linking TCs and Institutes with advanced ICT net and linkage of the TCs with International Institutes in foreign countries.
- 132 MLE for Refurbishing and equipping labs and workshops in the non pilot TCs.
- 100 MLE for finishing the required constructions of non pilot TCs.