



*A Centre of Excellence for
Industrial Technology and Specialized Technical Services*

Training Institute for Chemical Industries

Annual Report

2013~2014



TICI *Central Training Institute of Bangladesh Chemical Industries Corporation*

ANNUAL REPORT

Financial Year

2013~2014



*A Centre of Excellence for
Industrial Technology and Specialized Technical Services*

Training Institute for Chemical Industries

TICI *Central Training Institute of Bangladesh Chemical Industries Corporation*



Partial view of Academic Building- 1 and Administration Building



View of Canteen Building and Large Unit Operation Lab

ট্রেনিং ইনস্টিটিউট ফর কেমিক্যাল ইন্ডাস্ট্রিজ
Training Institute for chemical Industries

Annual Report 2013~2014

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In TICI there are 37 labs and shops which are furnished with latest model training equipment under seven technical departments. The depth and extent of industrial technology that can be practiced with such wide variety of sophisticated equipment, undoubtedly merit a marked distinction of TICI as the only of its kind in Bangladesh.

Foreword

Annual Report is a documentary evidence of annual performance and financial statement of an organization. I become happy to know that Training Institute for Chemical Industries (TICI), the central training institute of Bangladesh Chemical Industries Corporation (BCIC), is going to publish its annual report for the year 2013-2014. This report is expected to reflect TICI's activities for the said period.

Industrial development supported by appropriate technology has immense contribution on the improvement of socio-economic index of a country. Manpower training has positive effect on industrial development. Present day industries need technically skilled manpower. Properly organized training is essentially required to produce skilled manpower. With this aim in view, BCIC has established TICI, which is the only of its kind in Bangladesh.

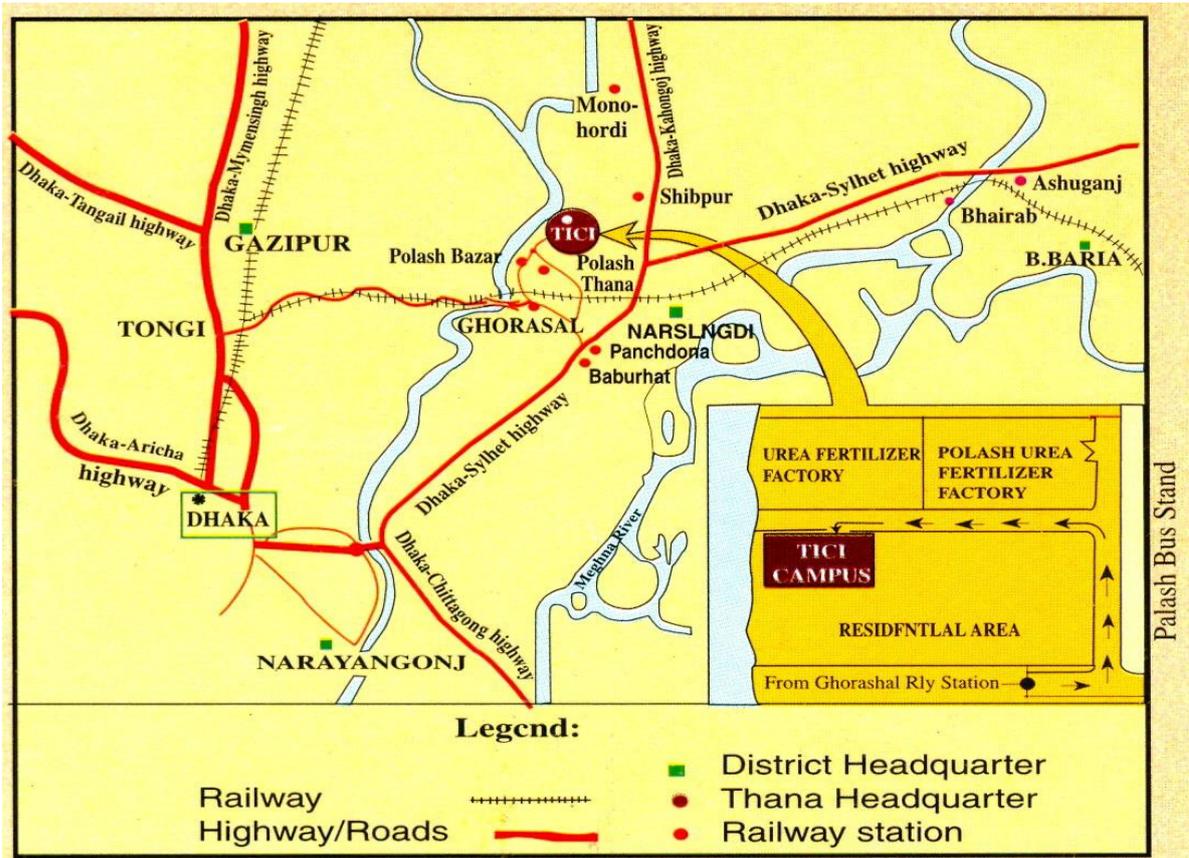
There is no alternative contrary to training in developing the skills and efficiency of the officers and employees of various industrial organizations. TICI has a great academic pride of developing the knowledge, skill & efficiency of technicians, officers, chemists, engineers and technologists.

BCIC is keen to maintaining technical standard of TICI. Ministry of industries and BCIC has taken project titled "Modernization and Strengthening of TICI in Bangladesh" with the help of Korea International Cooperation Agency (KOICA), The Republic of Korea for further up-gradation and new addition towards course curriculum, Equipment, Instruments and Machines of TICI.

I hope, this industrial training Institute will maintain its significant contribution towards industrial development as well as developing skill of manpower of the country.



(Mohammad Iqbal)
Additional Secretary &
Chairman, BCIC



TICI Location Map



View of TICI with Shitalakkha River in the background

PREFACE

TICI is implementing various training courses throughout the year beside technical services and other activities. A brief description of training program conducted by TICI is included within this report. All the courses are carefully designed to meet training needs of technical manpower. Though the aim and objective of TICI is to produce skilled and trained manpower, yet it is also rendering specialized technical services to industries and various other technical organizations.

Training Institute for Chemical Industries is furnished with latest model training equipment of its seven technical departments. The depth & extent of industrial technology that can be practiced with such wide variety of sophisticated equipment, undoubtedly merit a marked distinction as the only of its kind in Bangladesh.

It also gives me pleasure to state that BCIC and Ministry of Industries have taken projects with the help of Korea International Cooperation Agency (KOICA), The Republic of Korea provides aid for the 'Modernization and Strengthening of TICI in Bangladesh'. The estimated cost for the project is Tk. 4000.00 Lakh as foreign assistance and Tk. 1016.50 Lakh as GOB fund. Project work has already been started and expected to be completed within the year 2018.

We are grateful to the Government of Netherland for their assistance in building-up this institute. We are also grateful to the Government of South Korea for their upcoming technical assistance for the modernization of Equipment, Instruments and Machines of TICI.

I extend my heartiest thanks to the Executive Director, Head of the Departments, officers and staff members of TICI for their untiring efforts to uphold the standard of this institute. I pay my regards and heartfelt thanks to the Board of Directors of BCIC, the Directors of TICI Governing body, officials of different Ministries and various Govt. and non-Govt. organization for their valuable suggestions and contribution to this organization.



(Md. Altaf Uddin Sheikh)
Director (P & R), BCIC
Director-in-charge, TICI

Objective & scope of activities of TICI:

In order to develop technical knowledge and skill related to production, maintenance and quality control activities of industries, the objective and scope of TICI were determined as follows:

- * Conduct basic training courses for apprentice operators/technicians (HSC/B.Sc/Dip in Eng.) and newly recruited officers (B.Sc in Eng/M.Sc).*
- * Conduct refreshers/up-gradation courses for in-service operators, technicians and officers.*
- * Conduct seminar, symposium, workshop & specially designed short courses with a view to exchange technical information & experience and to enhance mutual cooperation in national & international level.*
- * Extend specialized technical services to industries & other organizations.*

ACKNOWLEDGMENT

Training Institute for Chemical Industries (TICI) established in 1989 by BCIC has opened a new horizon for industrial development in the country. This institute is competent to develop skill manpower like-technician, operator, engineer, chemist and technologist for our industries. By now, it has been able to draw attention of our industrial sectors in general as well as technical organization in the country.

The faculty members of this institute have been posted by BCIC selecting from it's different industries having high academic background, skill and efficiency. Efforts have been taken to increase their capability through local and foreign trainings. Thus they can impart effective training and render specialized technical services to BCIC industries.

Many employers are now preferring candidates having TICI training. Besides industrial unit, students from public and private universities are availing the facilities of TICI for their improvement of competence. Professors of Universities, entrepreneurs, technologist and dignitaries of the country often visit TICI and exchange their views and ideas relating to technological aspects of industrial sectors.

TICI also extends technical service assistance in small, medium and heavy industries mitigating the technical problems. Thus sometime considered as alternative to avoid overseas expertise which needs huge amount of foreign exchange.

On the eve of publishing this annual report for the year 2013-14, I remember with great honor for commendable contribution of the board of directors, specially the Chairman of the Governing Body of Directors & Chairman of BCIC and Director in Charge-TICI for their valuable guidance and continuous suggestions for the smooth running of the institute.

Annual reports could not be published timely. We are sorry for this inconvenience.

I take this opportunity to express my heartiest thanks and gratitude to the in-house members of TICI, whose ceaseless effort and devotion have brought the institute to this present stage.



*(Md. Shamsul Haque Sardar)
Executive Director,
TICI*



Partial view of Academic Building-2



Rotating Machinery Shop of MED

Background of the Project

Bangladesh Chemical Industries Corporation took-up a new project in 1983 to establish "***Training Institute for Chemical Industries (TICI)***" with a view to improve efficiency & skillness level of new recruits and working personnel of our industries through well-structured training on modern industrial technology. For this project taka 8.25 crore was approved by the ECNEC in 1986. To meet funding requirement on grant, the Govt. of the Netherlands divided the project into two phases and implementation of phase-I started in 1988. On completion of phase-I, training activities started in 1990. Prior to implementation of phase-II, the project profile was enlarged to a great extent in 1991 and the revised project cost raised to taka 40.02 crore.

Later, with the initiative of the Govt. of the Netherlands, a good number of training equipment for hands-on practice on modern technology, including Environmental Pollution Monitoring Laboratory, was incorporated in phase-II and ultimate project cost raised to taka 55.34 crore. Out of this, total cost of training equipment amounts to nearly taka 40.00 crore. Phase- II was completed in 1996. At present, the facilities, installed in 37 labs & shops under 7 technical departments, for practising industrial technology, has great scope of further utilization in national level, fulfilling the initial objectives of the project.

Objectives & Scope of Activities

In order to develop technical knowledge and skill related to production, process maintenance, control engineering and quality control activities of industries, the objective and scope of activities of TICI are as follows:

- * Conduct basic training courses for apprentice, operators/technicians (H.S.C/B.Sc/Dip-in Engg.) and newly recruited officers (B.Sc. Engg./M.Sc.)
- * Conduct refreshers/up-gradation courses for service operators, technicians and officers.
- * Conduct training courses for ongoing university students having science and engineering background.
- * Tailor made courses for different organizations.
- * Conduct seminar, symposium, workshop & specially designed short courses with a view to exchange technical information & experience and enhance mutual cooperation in national & international level.
- * Extend specialized technical services to BCIC industries & other organizations and private industries.
- * Provide consulting services to different industrial establishments.

TICI at a glance

Location	: Polash, Narsingdi (60 km N-E of Dhaka)
Established in	: Phase-I 1989-90, Phase-II 1990-96
Total land	: 17.03 Acre (Including residential area)
Functional area	: Land – 7 acre Covered space - 9294.6 m ² (100009 Sq. ft.)
Project cost	: Foreign currency - Tk. 377.535 million Local currency - Tk. 175.858 million Total - Tk. 553.393 million
Training started	: 10 August, 1990
Manpower	: Trainer/Instructor - 48 Other - 60 Total - 108
Accommodation (Trainees)	: Trainee's hostel (1) - 50 Trainee's hostel (2) - 150 Trainee Lady's hostel - 50
Training capacity (Man-month/year)	: Up-gradation course - 300 Apprenticeship - 900 Special & University course - 450
Labs & Shops	: 37 nos.
Technical Departments	: - Operation & Process Technology Department (OPTD) - Instrumentation & Control Engineering Department (ICED) - Mechanical Engineering Department (MED) - Electrical & Electronic Engineering Department (EEED) - Analytical Chemistry & Environmental Science Dept. (ACESD) - Industrial Safety & Health Department (ISHD) - Computer & Information Technology Dept. (CITD)
Associate Departments	: - Administration Department - Accounts & Finance Department - Purchase & Store Department - Technical Service & Maintenance Department (TSMD)

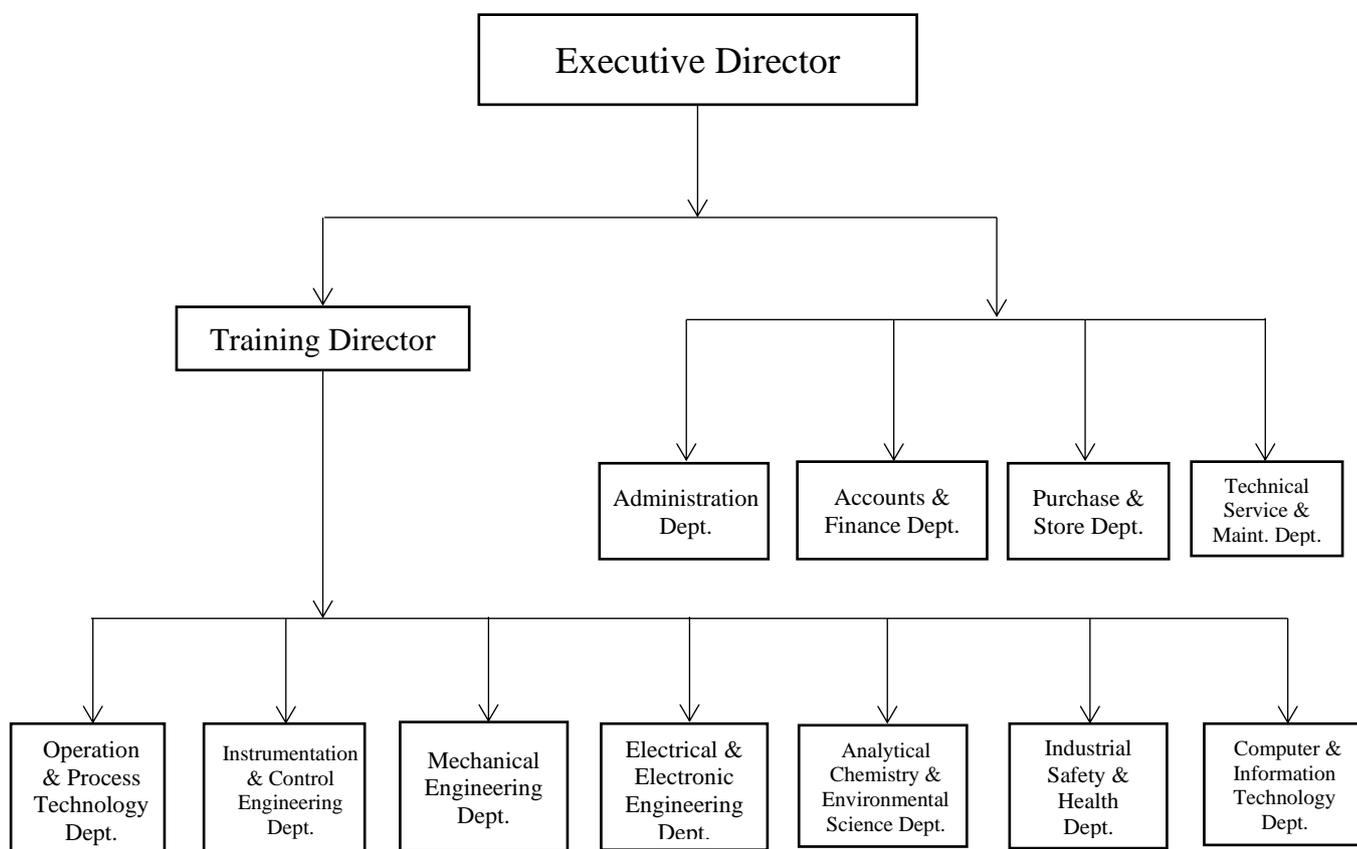


Partial view of Large Unit Operation Lab, OPTD



Partial view of Measuring & Control Lab, OPTD

Functional Organogram of TICI



TICI Governing Body

A Governing body consisting of 11 members incorporating representatives from Ministry of Industries, Bureau of manpower, employment and training; University of Dhaka, Bangladesh University of Engineering and Technology, Urea Fertilizer Factory Limited and top level officers of Bangladesh Chemical Industries Corporation is entrusted with the responsibility of advisory council.



Partial view of Basic Instrumentation Lab, ICED



Partial view of Vibration Monitoring and Analysis Lab, ICED

Present Governing Body Directors

- 1. Mr. Mohammad Iqbal** - **Chairman**
Additional Secretary, Govt. of the People's Republic of Bangladesh,
Chairman, Bangladesh Chemical Industries Corporation (BCIC),
Dhaka
- 2. Prof. Dr. Rafiqul Islam** - **Director**
Dean, Faculty of Engineering & Technology.
University of Dhaka
- 3. Prof. Dr. Ijaz Hossain** - **Director**
Department of Chemical Engineering,
Bangladesh University of Engineering & Technology (BUET),
Dhaka
- 4. Mr. Md Selim Reza** - **Director**
Director General,
Bureau of Manpower, Employment & Training (BMET),
Ministry of Expatriates, Welfare and Overseas Employment, Dhaka
- 5. Mr. Mohammad Ziaur Rahman** - **Director**
Additional Secretary, Govt. of the People's Republic of Bangladesh,
Ministry of Industries, Govt. of Bangladesh, Dhaka
- 6. Mr. Md. Altaf Uddin Sheikh** - **Director**
Director (Production & Research),
Bangladesh Chemical Industries Corporation (BCIC), Dhaka
- 7. Mr. Md. Shahin Kamal** - **Director**
Secretary,
Bangladesh Chemical Industries Corporation (BCIC), Dhaka.
- 8. Mr. Md. Shamsul Haque Sardar** - **Director**
Executive Director
Training Institute for Chemical Industries, Narsingdi
- 9. Mr. Amar Kumar Biswas** - **Director**
Managing Director,
Urea Fertilizer Factory Ltd., Narsingdi
- 10. Mrs. Momtaz Begum** - **Director**
Chief of Personnel,
Bangladesh Chemical Industries Corporation (BCIC), Dhaka
- 11. Mr. Md Delwar Hossain** - **Director**
Controller of Accounts
Bangladesh Chemical Industries Corporation (BCIC), Dhaka



Partial view of Machine Shop, MED

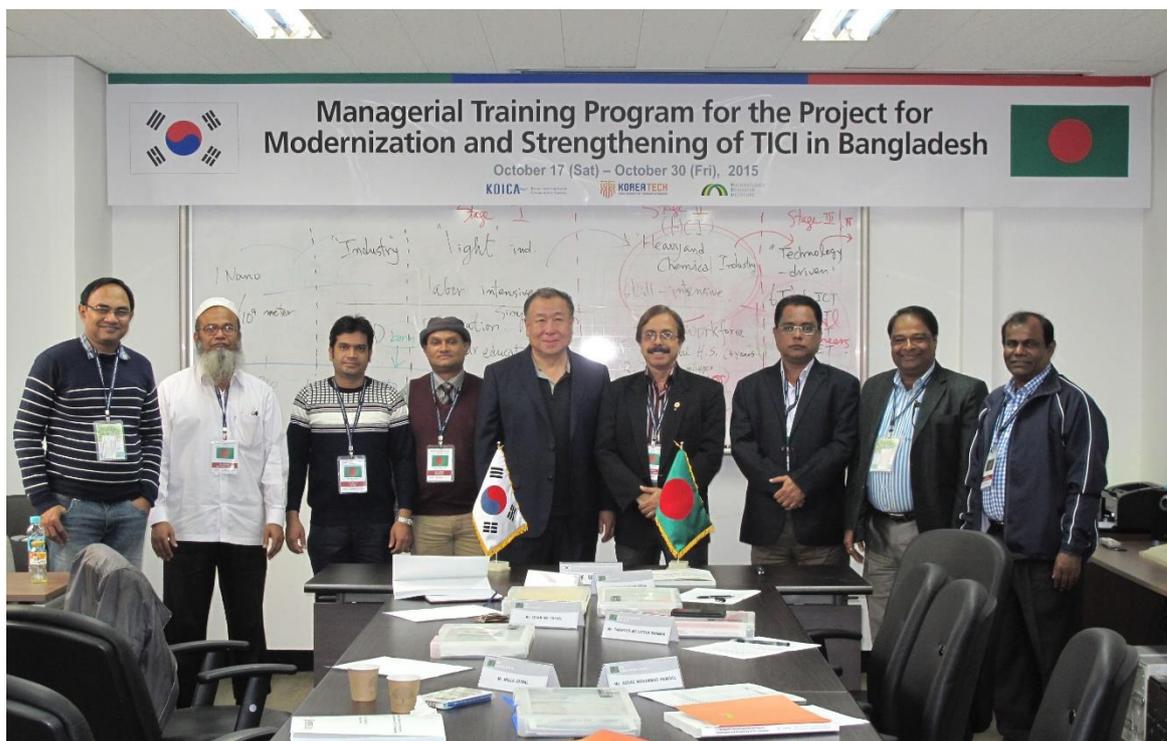


Partial view of Mechanical Workshop, MED

Academic Council

The training activities & technical assistance service offered by TICI are controlled and guided by the Academic Council consisting of senior officials (10 members) of BCIC and TICI.

1. Chairman - Director (Production & Research), BCIC;
Director in Charge, TICI
2. Member - Executive Director
3. Member Secretary - Training Director
4. Member (Process) - Head of the Department
Operation & Process Technology
5. Member (Instrument) - Head of the Department
Instrumentation & Control Engineering
6. Member (Mechanical) - Head of the Department
Mechanical Engineering
7. Member (Electrical) - Head of the Department
Electrical & Electronic Engineering
8. Member (Chemistry) - Head of the Department
Analytical Chemistry & Environmental Science
9. Member (Safety) - Head of the Department
Industrial Safety and Health
10. Member (Computer) - Head of the Department
Computer and Information Technology



TICI personnel in managerial training in South Korea under KOICA project

Governing Body Report

Training Institute for Chemical Industries (TICI) is the central training Institute of Bangladesh Chemical Industries Corporation (BCIC). It is a multi-discipline training Institute, established with the technical and financial assistance of the *Government of The Netherlands*. The objective of this institute was to promote industrial productivity by developing technical knowledge, skill & efficiency of manpower working in industries and technical organizations.

Training Courses of TICI: At present there are 37 labs & shops, furnished with quite a lot of training equipment under seven technical departments. A number of long courses, short up-gradation courses, special courses and tailor made courses arranged for the employees of different organizations including BCIC. Numerous tailor made courses were operated as per requirements of the concern enterprise. It should be mention here that a large number of university students participates in special training courses arranged on requesting of university authority.

Faculty Members: The faculty members of TICI were carefully selected from the university graduates in engineering/general sciences, having completed minimum 16 years academic and having noticeable experience of working in heavy industries of the country. As a result the faculty members are well accustomed in their respective professional fields and having high level of experience in plant operation, chemical analysis & maintenance. This enables them to attribute effective contribution in developing technical knowledge & skill of the trainees and to extend technical assistance services to various establishments.

Training performance: The institute started functioning from the year 1990 with two training departments (namely OSPTD and ICED) completed under phase-I. Other three departments (namely MED, EEED & ACESD) also conducting training activities since 1990 but they became full fledged after the completion of phase-II in 1996. Other two new technical departments started there activities from September, 2010. Formar Purchase Cell and Technical Service Cell converted to Purchase & Store Department and Technical Service & Maintenance Department respectively from September, 2010.

Long courses conducted from 2010-2011 to 2014-2015

	<u>No. of courses</u>	<u>No. of participants</u>
Supervisory level	0	0
Operator/Thecnician	5	316

1~4 weeks up-gradation courses conducted 2010-2011 to 2014-2015

	<u>No. of courses</u>	<u>No. of participants</u>
Supervisory level	109	1198
Operator/Thecnician	71	660

The training facilities installed in TICI are organized in such a way, that the institute is capable to serve a wide range of modern industries, without being restricted to chemical industries only. A large number of diversified industries, availing the training facilities of TICI at present, as indicated under *Training Activities* substantiate the fact.

Technical assistance service: TICI maintains a technical service pool. The highly qualified personnel, having long experience of working in heavy industries render specialized and sophisticated technical assistance services to industries and other technical organizations throughout the country.

Some of the specialized technical services offered by TICI are, on-line trouble shooting of high speed rotating machines using vibration analysis technology, Dynamic mass balancing of rotor, Environmental management planning, Chemical analysis of high degree precision, Process instrumentation & control using sequential and programmable logic operation, Distributed control system, Combustion engineering & high temperature technology. TICI rendered about 126 technical assistance services to outside organizations during 2013-14 to 2014-15. These excludes services rendered to BCIC factories.

Financial Management: The yearly operating cost of TICI is around Tk. 6.00 crore which is met by collecting levy from BCIC factories. In most cases, payment of levy by BCIC factories are not spontaneous.

However, the present arrangement of creating the operational expenses by collecting levy cannot be treated as permanent financial arrangement which shall ensure sustaining operation of TICI. Effective measures to be taken to maintain its growth & development and to make instant financial viable & self-sustainable.

Along with present objectives and scope of activities of TICI, conducting a 4 years technological degree program may be considered as an effective measure to maintain its growth & development and to make the institute financially viable & self-sustainable. This will directly contribute to the technological development of the country and at the same time shall generate funds to make the institute self-sustainable.

Development programs of TICI: TICI is a high level technical training Institute and only one of its kinds in Bangladesh. Continuous efforts are being taken by TICI management for development of the institute and to incorporate additional facilities to meet the growing demand of the country. It may be mentioned here that the existing scientific instruments & machinery in different labs/shops are getting older but technologies are progressing at its fastest possible speed. Some of them are not functioning properly. TICI is trying hard to provide its best efforts to maintain the quality service all along.

In the present circumstances, it is essential to expand the existing lab/shop facilities with latest technology to increase the training capacity for fulfilling the growing demand. It may be stated here that TICI has set its target to provide training of 3000 man-months from 1700 man-months.

Although, TICI has been practicing with industrial technologies in different ways and means, it requires developing indigenous technologies for our industries. But without research work the above goal could not be achieved. Till now TICI could not incorporate

the research activities for shortage of know-how and finance. It is necessary to establish research wing in TICI with appropriate lab facilities and technological back up.

To accelerate the activities of TICI the following over all objectives have to be achieved through a modernization and expansion program. For implementing this program a proposal as DPP has put forwarded to the GOB and at the same time looking for a Technical Assistance from the development partners. Such an assistance may strengthen TICI–

- To generate more experienced technical manpower, who will contribute home and abroad for earning foreign currency
- To provide efficient backup services to the industrial entrepreneurs
- To grow local expertise in the field of industrial technology. Make easy the operation and maintenance of heavy chemical industries
- To exchange & accustom to latest and improved technologies and know-how
- To increase job opportunity and play an important role in poverty alleviation
- To enhance knowledge & skill of personnel working in process plant operation and maintenance & extend the applied education through continuous training
- To increase training capacity of the institute in a great extent
- To replace some of the old technologies and incorporate current model machinery
- To strengthen training curriculum and teaching material of the institute
- To construct a new academic building and remodeling/renovation of existing academic building and hostel
- To make easy the industrial pollution control (Baseline data compilation; IEE, EIA, EMP preparation; ETP formulation)
- To test & calibrate the industrial instruments maintaining ISO standard
- To innovate and explore Indigenous technology

The Government of the republic of Korea is one of the best development partners of Bangladesh. It is a great pleasure that *Korea International Cooperation Agency (KOICA)*, *The Republic of Korea* extends their cooperation to contribute in the '**Modernization and Strengthening of Training Institute for Chemical Industries (TICI)**'.

Source of financing for the modernization and strengthening program of TICI is as follows:

Government of Bangladesh (GOB): Tk. 1016.50 Lakh

Development Partner (KOICA): Tk. 4000.00 Lakh

The mentioned developing program started on 2014 and will be completed on 2018.



KOICA Experts with TICI personnel at TICI after presentation on curriculum development

Testing and Calibration Lab (TCL) of Analytical Chemistry & Environmental Science Department obtained accreditation on the scope of Calibration of Volumetric Glassware on 2015 from *Bangladesh Accreditation Board (BAB)*. It should mention here that TCL Lab has tried to obtain accreditation on the scopes of Calibration of Electronic Balance, Calibration of Volumetric Glassware and Measurement of Viscosity of lubricating oil; but accreditation achieved only for Calibration of Volumetric Glassware. It is due to the absence of accredited lab in Bangladesh on Calibration of Electronic Balance and Measurement of Viscosity of lubricating oil and hence ILC could not perform. Now it is very need to perform ILC for those scopes to achieve accreditation.

Accreditation is an international recognition for performing testing and calibration work. UNIDO provide technical cooperation (2012~2014) for establishing Testing and Calibration Lab in TICI under the *Better Work and Standards Programme (BEST)* in Bangladesh. UNIDO experts provide technical assistance in preparing Quality Manual, Procedure Manual and Method Manual according to ISO 17025 and also arranged necessary training for the technical executives of Testing and Calibration Lab.

There is demand to introduce research facilities in TICI for the students of different universities, such as Shahjalal University of Science and Technology (Chemistry department, FET Department), Jessore University of Science and Technology (Chemical Engineering Department).

Welfare activities: TICI management looks-after the welfare aspect of the employees. Several National Celebration is observed including Socio-cultural activities in every year, cover recreational needs in addition to elevation of moral and social values, and to disseminate sense of community among them.

The residential accommodation facility of TICI employees is very limited. This crisis is prevailing since inception. Some immediate action is necessary to increase residential accommodation for the employees. Accommodation facilities for the trainees were increased by extending hostel capacity. A ladies hostel also organized in UFFL building adjacent to TICI housing colony.

Conclusion: In TICI there are 37 labs and shops which are furnished with training equipment under seven technical departments. The depth & extent of industrial technology that can practiced with such wide variety of sophisticated instrument, undoubtedly merit a marked distinction of TICI as the only its kind in Bangladesh. These facilities can further be utilized in wider perspective at national level to enhance the development of industrial technology.

In this regard, with the existing facilities, TICI can conduct research program under different departments for the competent students of different universities. This is likely to initiate a far reaching process to patronage the National Education.

To retain speed with the fast and continued development of technology, refresher training for the faculty members of TICI is very important. Actions are required to start a routine yearly training program for TICI faculty members. This training program should include academic programs leading M.S. and Ph.D. degree in addition to short specialization training.



Electrical Machines and Installation Lab under EEED



Power Electronics & Drive Control Lab under EEED

Training Facilities of TICI

At present, there are 37 labs & shops, furnished with latest model training equipment under following seven technical departments of TICI:

1.0 Operation & Process Technology Department

- 1.1 Large Unit Operation Lab
- 1.2 Small Unit Operation Lab
- 1.3 Measuring & Control Lab
- 1.4 Corrosion Testing & Research Lab
- 1.5 Physics Lab
- 1.6 Boiler & Compressor House

2.0 Instrumentation & Control Engineering Department

- 2.1 Basic Instrumentation & Control Lab
- 2.2 Automatic Process Control Lab
- 2.3 Vibration Monitoring & Analysis Lab
- 2.4 Advanced Instrumentation (Servo-mechanism, PLC, Digital Electronics & Microprocessors) Lab
- 2.5 Distributed Control System (DCS) Pilot Plant
- 2.6 Instrument Repair & Maintenance Shop

3.0 Mechanical Engineering Department

- 3.1 Mechanical Demonstration Lab
- 3.2 Mechanical Drawing and Metrology Lab
- 3.3 Welding and Fabrication Shop
- 3.4 Rotating Machinery Shop
- 3.5 Power Transmission & Alignment Shop
- 3.6 Mechanical Process Plant
- 3.7 Material Testing Lab
- 3.8 Machine Shop
- 3.9 Metal Processing & Heat Treatment Shop
- 3.10 Valve Testing & Repair Bay

4.0 Electrical & Electronic Engineering Department

- 4.1 Electrical Demonstration Lab
- 4.2 Electrical Machines & Power System Lab
- 4.3 Power Electronics & Drive Control Lab
- 4.4 Electronics Lab
- 4.5 Electrical Measurement and Testing Lab
- 4.6 Power Generation & Distribution Lab
- 4.7 Electrical Winding & Maintenance shop

5.0 Analytical Chemistry & Environmental Science Department

- 5.1 Qualitative & Titrimetry Laboratory
- 5.2 Chromatography Laboratory
- 5.3 Spectrometry Laboratory
- 5.4 Environment Monitoring & Pollution Control Lab
- 5.5 Water & Product Quality Lab
- 5.6 Testing & Calibration Lab

6.0 Industrial Safety & Health Department

- 6.1 Safety Lab (Industrial Safety & Fire Research Lab)

7.0 Computer Science & Information Technology Department

- 7.1 Data Processing & Computation Lab

Training aids

Audio-visual facilities

- Multimedia projector
- Overhead transparency projector
- Overhead opaque projector
- Computerized LCD projector
- Public address system
- Cordless microphone system

Printing and reproduction facilities

- Computer with printers
- Computer scanner
- Photocopy machines

Training Courses of TICI

TICI conducts long courses of 1-2 years for new recruits and short up-gradation training courses of 1-4 weeks duration, for personnel working in different industries/technical organizations. Training courses in general, maintain 1:1 ratio between theory and practice.

TICI also conducts special training courses to cater to specific needs of requesting organizations in addition to scheduled courses. Some common popular courses are also conducted, time to time, on nominal fees basis.

- a) **Long courses:** TICI conducts one year long courses for new recruits of 4 entry levels. Each long course is divided into 3 modules namely, Section-A, Section-B & Section-C. Section-A & Section-B of 4 and 6 months duration respectively constitute institutional training. Section-C of 2 months duration is in-plant training.

<u>Name of long courses</u>	<u>Eligibility</u>	<u>Duration</u>
– Advanced Industrial Technology	B.Sc. Engg./M.Sc.	1 Year
– Industrial Technology	B.Sc./Dip-in-Engg.	1 Year
– Basic Industrial Technology, level-II	H.S.C.(Sc.) or 2 yrs. Trade course with S.S.C	1 Year
– Basic Industrial Technology, level-I	S.S.C.(Science)	1 Year
– Integrated Industrial Technology-1	Junior & midlevel officer	16 Weeks
– Integrated Industrial Technology-2	Skilled operators/technicians	16 Weeks
– Integrated Industrial Technology-3	Junior operators/technicians	16 Weeks

These courses include industrial visit & hands-on practice and demonstration.

- b) **Upgradation courses:** Upgradation courses are conducted for operators/technicians and supervisory personnel working in industries and other technical fields. The courses are designed in the light of actual requirement of the industries.

– Upgradation courses on specific subjects	Officers, operators & Technicians	1~4 Weeks
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- c) **Special courses:** Special courses are conducted for Engineering universities, Technical universities, General universities.

– Special courses	Students of diff. universities	2~ 4 Weeks
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d) Tailor made courses: Tailor made courses are conducted on request of an enterprise for their employees not less than ten.

– Tailor made courses

Employees for an enterprise

1~ 2 Weeks

Training Activities:

The Institute started functioning from the year 1990-91. A brief account of training activities from 2010-2011 to 2014-2015 is shown below in table form.

A. Long courses of 12 months duration

During 2010-2011 to 2014-2015 five numbers of long courses were arranged for non-supervisory personnel. Number of participants attended the courses were three hundred sixteen.

Non-Supervisory level:

Period	No. of Courses	Participants			Remarks
		BCIC	Outside	Total	
2014-2015	0	0	0	0	
2013-2014	0	0	0	0	
2012-2013	0	0	0	0	
2011-2012	2	67	14	81	
2010-2011	3	227	8	235	
Total	5	294	22	316	

B. 1~4 weeks course (Up-gradation courses)

Supervisory level:

Period	No. of Courses	Participants			Remarks
		BCIC	Outside	Total	
2014-2015	24	96	98	194	
2013-2014	30	193	149	342	
2012-2013	16	66	118	184	
2011-2012	20	88	153	241	
2010-2011	19	140	97	237	
Total	109	583	615	1198	



Partial view of Qualitative & Titrimetry Lab, ACESD



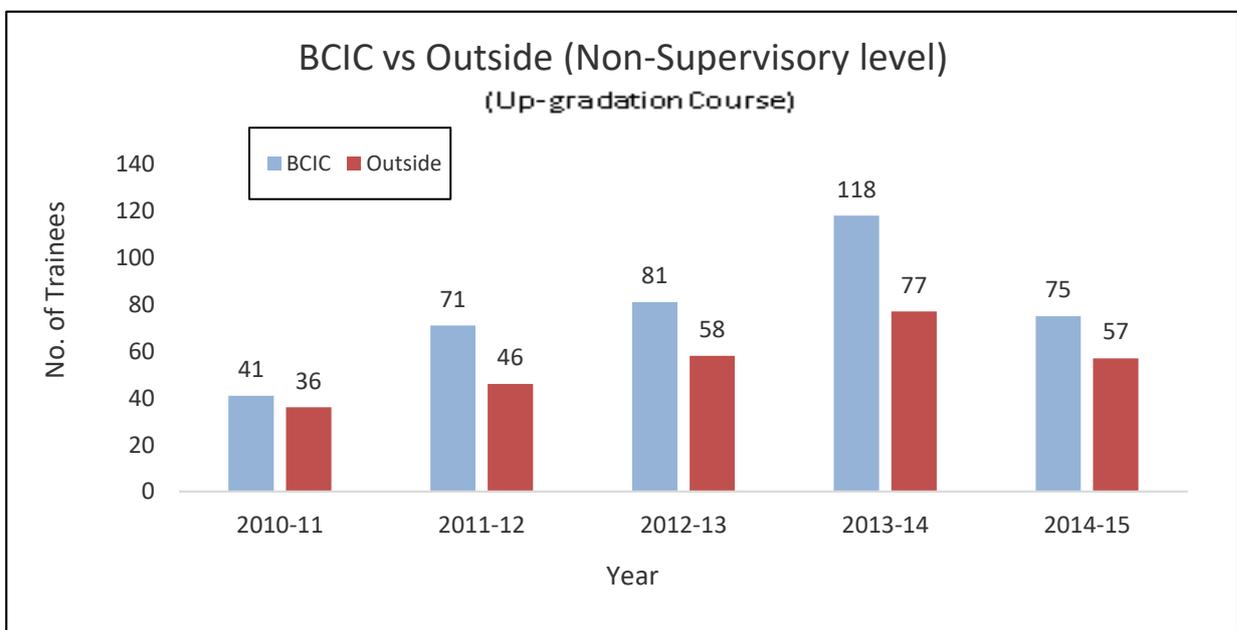
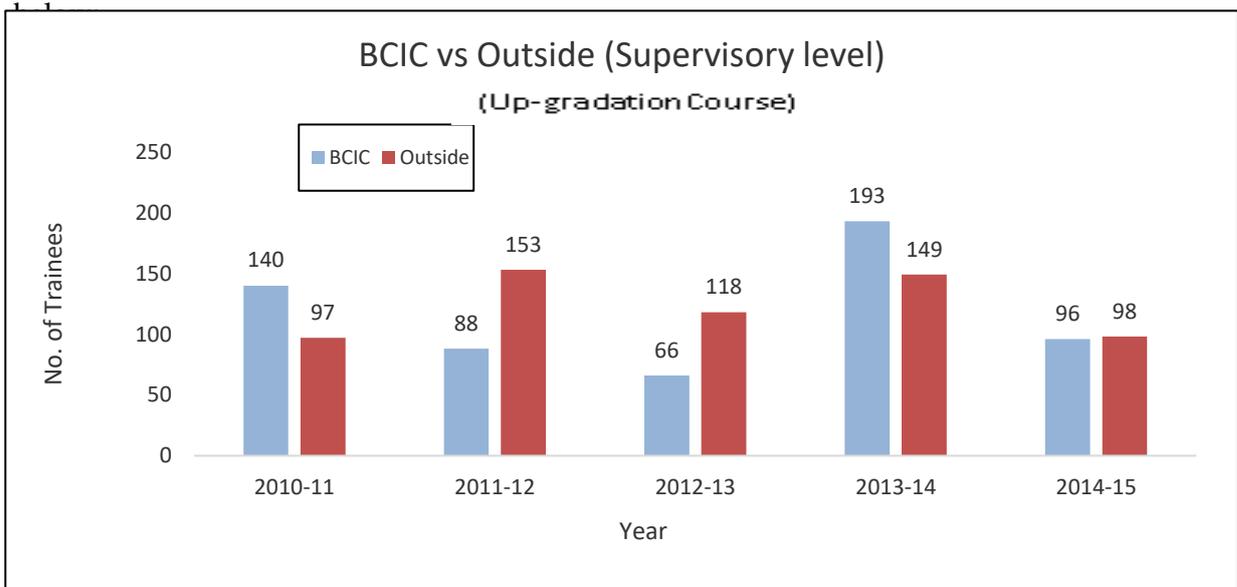
Partial view of Spectrometry Lab, ACESD

Non-Supervisory level:

Period	No. of Courses	Participants			Remarks
		BCIC	Outside	Total	
2014-2015	16	75	57	132	
2013-2014	17	118	77	195	
2012-2013	14	81	58	139	
2011-2012	13	71	46	117	
2010-2011	11	41	36	77	
Total	71	386	274	660	

Participation of BCIC and outside trainees:

The training facilities of TICI is open for outside organizations other than BCIC. Participation of BCIC and outside trainees in the training courses are shown in the Bar Graph

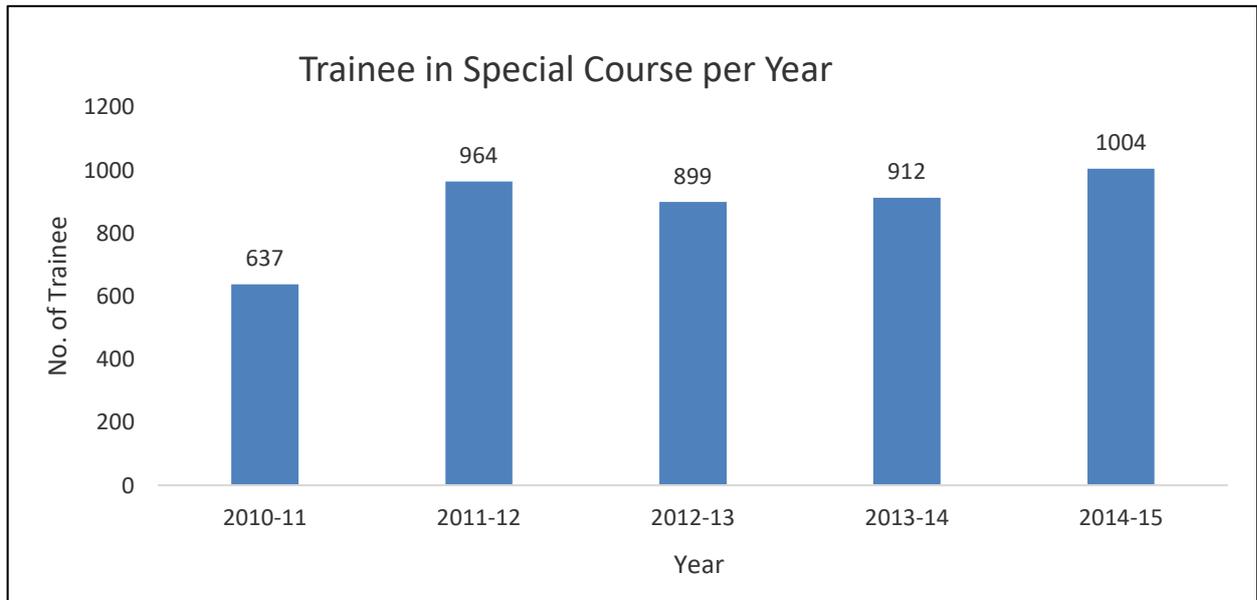


C. 1~4 months course (Special training courses)

Supervisory level:

Period	No. of Courses	Participants			Remarks
		BCIC	Outside	Total	
2014-2015	25	0	1004	1004	DU, CUET, CU, RU, SUST, NSU, DIU, CVASU, UIST, JSTU, IU, IIUC, DUET, USTC, AIUB
2013-2014	21	0	912	912	
2012-2013	23	0	899	899	
2011-2012	20	0	964	964	
2010-2011	19	10	627	637	
Total	108	10	4406	4416	

Participation of trainees in special courses arranged in different year are shown below in Bar Graph below:



D. Tailor Made Courses

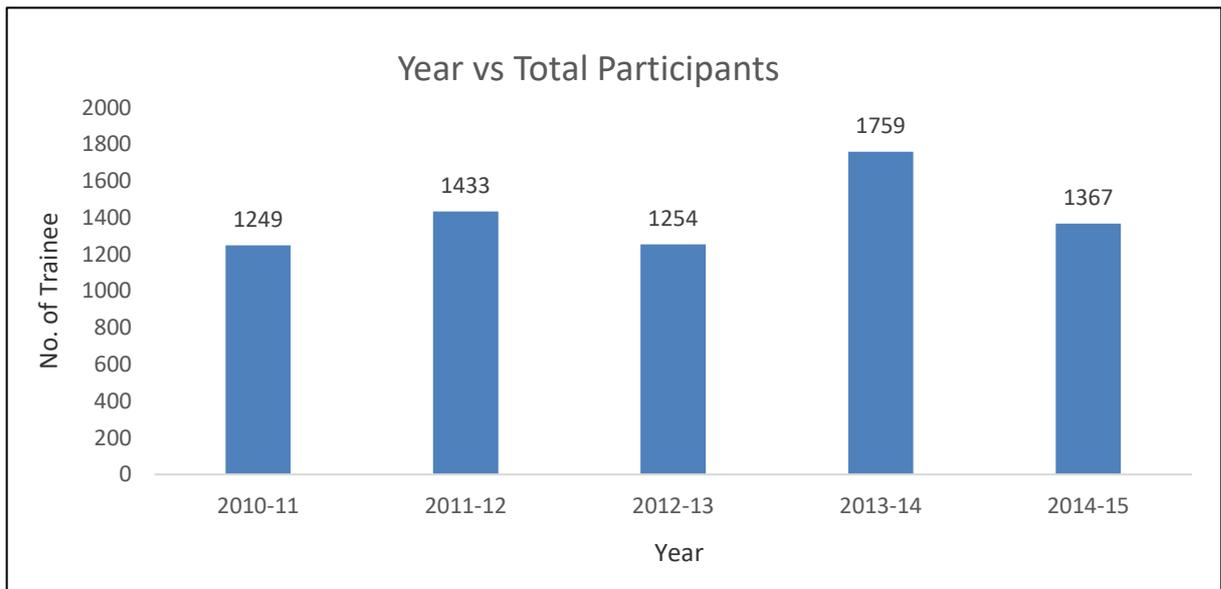
Supervisory level:

Period	No. of Courses	Participants			Remarks
		BCIC	Outside	Total	
2014-2015	3	0	37	37	BPI, Unilever (BD) Ltd., Chevron (BD) Ltd, BNACWC
2013-2014	8	292	18	310	
2012-2013	2	0	32	32	
2011-2012	3	13	17	30	
2010-2011	0	0	0	0	
Total	16	305	104	409	

Non-Supervisory level:

Period	No. of Courses	Participants			Remarks
		BCIC	Outside	Total	
2014-2015	0	0	0	0	
2013-2014	0	0	0	0	
2012-2013	0	0	0	0	
2011-2012	0	0	0	0	
2010-2011	8	52	11	63	
Total	8	52	11	63	

The total number of participants, attended in courses arranged by TICI, per year is summarized in the bar chart below:



Technical Assistance Service Facilities

TICI maintains a technical service pool consisting of highly qualified foreign trained personnel having long experience of working in heavy industries. Extents of specialized technical services offered by TICI at present are as follows:

Process Technology services

- Operational assistance of process plants & equipment
- Preparation of standard operating & shut down procedure (SOP & SSP)
- Efficiency calculation and performance evaluation of process equipment/machinery
- Determination of water quality requirement of process plants and design of water treatment plant
- Identify causes of industrial corrosion, advise for remedial measures and assist in implementation

Instrumentation & Control Engineering Services

- Automatic process control & sequential logic operation system trouble shooting and repair
- Design, installation & commissioning of closed loop automatic process control instrumentation system
- On-line monitoring system & rotating machine trouble shooting, repair and calibration
- Design, installation & commissioning of open loop measuring and indicating instrument
- Programmable logic control (PLC) programming and system operation including trouble shooting and repair
- Distributed control system (DCS) programming, system operation and trouble shooting
- Electro-mechanical servo-system trouble shooting and repair
- Calibration of instruments.

Mechanical Engineering Services

- In-situ dynamic mass balancing of rotor
- Dynamic mass balancing of rotor/impeller by shop balancing machine in TICI shop
- On-line troubleshooting of rotating machines
- Identification of cause of high vibration of machine/structure and solve high vibration problem
- Check & establish actual critical speed of a machine in-situ
- Evaluate machine performance to ensure normal operating condition of machine
- Determine fluid-dynamic stability of rotor-bearing system
- Determine compression & tensile strength of materials (MS& SS rods, concrete block etc.)
- Combustion engineering and high temperature technology related to boiler & furnaces
- Corrective action and subsequent analysis of machine performance
- Non-destructive testing of materials for identification of surface & internal flaws
- Alignment of critical machinery by LASER technology
- Calibration work.

Electrical and Electronic Engineering Services

- Electric drive control system trouble shooting & repair. Design, installation & commissioning of drive control system
- Electric power distribution switch gear trouble shooting and repair. Design, installation & commissioning of distribution switch gear system
- HT motor/generator & HT cable high voltage endurance testing, determination of leakage current and dielectric strength
- Testing of protective relays, circuit breakers and earthing system
- Electrical, magnetic and mechanical tests of transformer. Test of dielectric property of transformer oil. Trouble shooting and repair of transformer protective devices
- Power factor improvement (PFI) device design, installation and commissioning
- Electrical safety & protective devices
- Calibration work.

Analytical Chemistry and Environmental Science Services

- All types of chemical analysis & testing of industrial raw materials, intermediate products, by-products and finished products
- High precision chemical analysis using Ultraviolet, Visible, Infrared & Atomic Absorption Spectrophotometer
- High precision chemical analysis using Gas Chromatograph (GC), High Performance Liquid Chromatograph (HPLC) & Elemental Analyzer
- Determination of calorific value of solid, liquid and gaseous fuels
- Chemical cleaning of Boilers and Heat exchangers etc
- Determination of pollutants in air, water and soil
- Preparation of Initial Environmental Examination (IEE); Environmental Impact Assessment (EIA); Environmental Management Plan (EMP)
- Design/Development of Effluent Treatment Plant (ETP); Environmental Management System (EMS)
- Calibration of laboratory glassware, calibration of electronic balance and measurement of viscosity of lubricating oil according to ISO/IEC 17025
- Calibration of Laboratory instruments

Industrial Safety & Health Services

- Technical analysis and survey of fire incidence/unusual chemical of material damages etc. related to Settlement of insurance claim
- Design of fire alarm system (FAS) for industrial and commercial organizations
- Design of fire suppression (Sprinkler) system for industrial and commercial organization
- Conducting risk assesment (PHA, HAZOP, HAZAN, QRA, Safety Audit etc.)

Computer and Information Technology Services

- Computer hardware & software troubleshooting & maintenance
- Computer based process control system troubleshooting & maintenance
- Computer based instrumentation troubleshooting & maintenance
- Computer networking & troubleshooting



Partial view of Testing & Calibration Lab, ACESD



Demonstration on Industrial Safety, ISHD



Safety Laboratory, ISHD

List of Technical Assistance Services Offered by TICI

TICI extends technical assistance services to different BCIC factories and other organizations outside BCIC. A brief account of technical assistance services rendered to other organizations, outside BCIC is given below:

Technical Assistance Services (2013-2014)

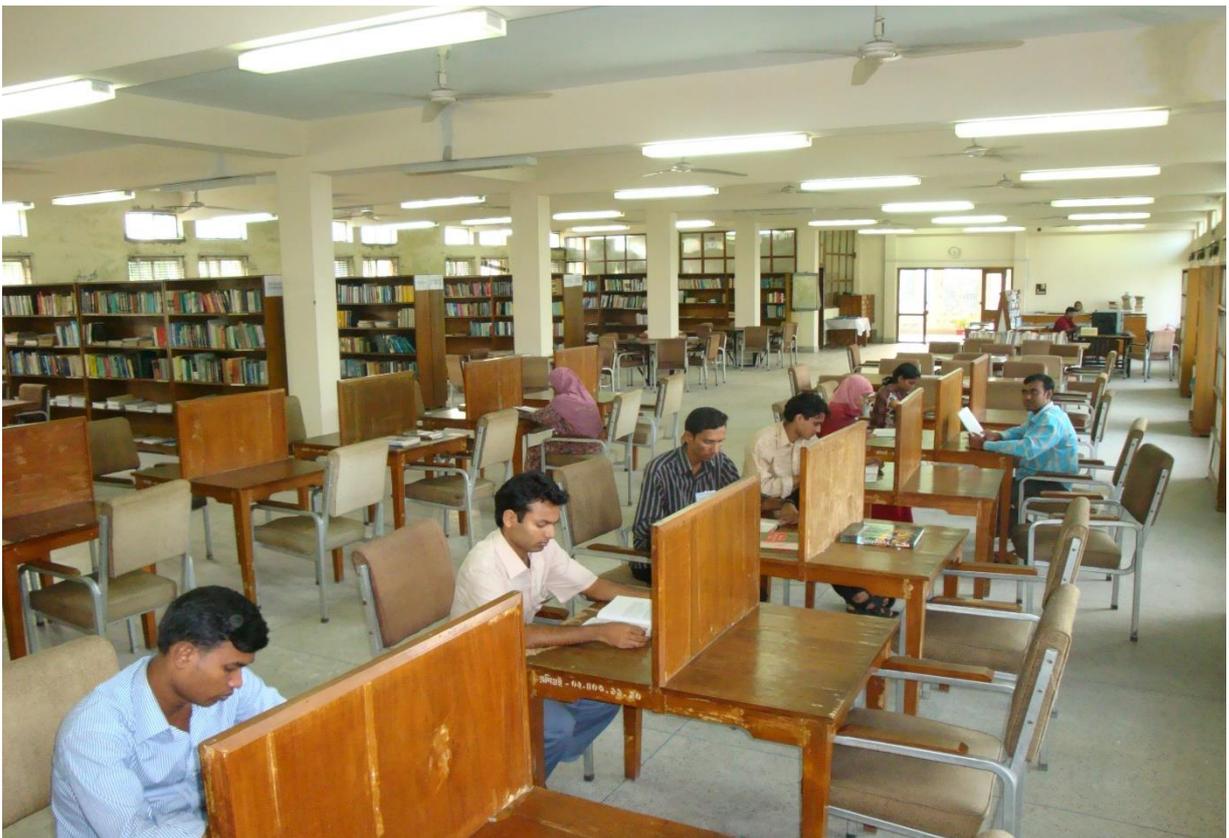
<u>S.N.</u>	<u>Name of the organization</u>	<u>Nature of services</u>
01.	Ashugonj Power Station Co. Ltd. Ashugonj, B. Baria	: Balancing of turbo generator
02.	MRS Kushtia	: Dynamic mass balancing of flaker machine
03.	Abul Momen Sugar Refinery Ltd., Sonargoan	: Dynamic mass balancing of centrifugal machine
04.	M/S Uttaron Technologies Dhaka	: Calibration of different Instruments
05.	Meghnaghat power Ltd. Narayangonj	: Vibration Analysis of gas turbine (GT-2)
06.	M/S HKD Outdoor Innovation Ltd., Chittagong	: Repairing of DC drive of pipe making machine
07.	Linde Bangladesh Ltd. Tejgaon, Dhaka	: Vibration Analysis of different Machineries
08.	Haripur Power Ltd. Narayangonj	: Repairing of motor rotor shaft
09.	M/s. Structural Engineers Dhaka	: Calibration of different Instruments
10.	Radiant Pharmaceuticals Ltd. Tongi, Gazipur	: Calibration of different Instruments
11.	M/S PEB Steel Alliance ltd. Comilla	: Calibration of different Instruments
12.	M/S Holcim Bamgladesh Ltd. Meghnaghat, Narayangonj	: Dynamic mass balancing of cooling fan
13.	BSRM Iron & Steel Co. Ltd. Nasirabad, Comilla	: Dynamic mass balancing of blower fan
14.	Linde Bangladesh Ltd. Rupgonj, Narayangonj	: Vibration Analysis of different Machines
15.	Meghnaghat power Ltd. Narayangonj	: Vibration data collection & Analysis (GT-2)
16.	Arbab Poly Pack Ltd., Siddirganj, Narayanganj	: Calibration of different Instruments
17.	Chittagong University of Engineering & Technology, Ctg.	: Calibration of different Instruments
18.	BITAC Tejgoan, Dhaka	: Dynamic mass balancing of impeller
19.	M/S SQ Hues Limited Jamirdia, Valuka, Mymensingh	: Calibration of DO meter

20.	Modern Erection Ltd. Tejgaon, Dhaka	:	Calibration of measuring & testing equipment
21.	M/S HKD International Ltd. CEPZ, Chittagong	:	Inspection of the Whole Electrical system & safety accessories
22.	Rajshahi Sugar Mills Ltd. Rajshahi	:	Dynamic mass balancing of centrifugal machine, ID fan & FD fan
23.	North Bengal Sugar Mills Ltd. Gopalpur, Natore	:	Dynamic mass balancing of centrifugal machine
24.	PEB Steel Alliance Ltd. Comilla	:	Calibration of torque ranch
25.	Natore Sugar Mills Natore	:	Dynamic mass balancing of centrifugal machine & ID fan
26.	Mobarrakgonj Sugar Mills Ltd. Jhenaidah	:	Dynamic mass balancing of centrifugal machine, ID fan & FD fan
27.	Thakurgaon Sugar Mills Ltd. Thakurgaon	:	Dynamic mass balancing of centrifugal machine
28.	Pabna Sugar Mills Ltd. Pabna	:	Dynamic mass balancing of centrifugal machine, ID fan & FD fan
29.	Linde Bangladesh Ltd. Rupgonj, Narayangonj	:	Vibration Analysis of different Machineries
30.	Linde Bangladesh Ltd. Shitalpur, Chittagong	:	Vibration Analysis of different Machineries
31.	Linde Bangladesh Ltd. Tejgaon, Dhaka	:	Vibration Analysis of different Machineries
32.	Pearl Paper & Board Mills Dhamrai, Dhaka.	:	Dynamic mass balancing of motor pulley at TICI
33.	Partex Rotor Ltd. Bhawal, Mirjapur.	:	Dynamic mass balancing of impeller of dust collector
34.	Asian Paints Bangladesh Ltd. Gazipur	:	Calibration of different instruments
35.	Marico Bangladesh Ltd. Uttara, Dhaka	:	Calibration of different Instruments
36.	M/S HKD International Ltd. (CEPZ), Chittagong	:	Inspection of the Whole Electrical system & safety accessories
37.	Cosmopolitan Industries PVT. Ltd.	:	Calibration of testing equipment & instruments
38.	Bureau Veritas (Bangladesh) PVT Ltd.	:	Calibration of testing equipment & instruments
39.	The EPIC Group	:	Calibration of testing equipment & instruments
40.	Linde Bangladesh Ltd. Shitalpur, Chittagong	:	Vibration data collection & Analysis of RC-2
41.	Linde Bangladesh Ltd. Shitalpur, Chittagong	:	Dynamic mass balancing of motor rotor at TICI Shop
42.	Abul Momen Sugar Refinery Ltd., Sonargoan	:	Dynamic mass balancing of centrifugal machines
43.	Deshbondhu Sugar Mills Ltd., Palash, Narsingdi	:	Dynamic mass balancing of motor pulley at TICI Shop

44.	White Paper and Electronics Ltd. Dhaka	:	Dynamic mass balancing of fan at TICI Shop
45.	BITAC, Dhaka	:	Dynamic mass balancing of fan at TICI Shop
46.	Lira Industrial Enterprise Tongi	:	Calibration of measuring instruments
47.	Palmal Knitwear Factory Ltd. Tongi, Gazipur	:	Calibration of Instruments
48.	Cortz Apparels Ltd. Bagher Bazar, Gazipur	:	Calibration of Instruments
49.	Aswad Composite Mills Savar Dhaka	:	Calibration of Instruments
50.	NKK Knitwear Ltd. Fatullah, Narayangonj	:	Calibration of Instruments
51.	Marina Apparels Ltd. Fatullah Narayangonj	:	Calibration of Instruments
52.	Aysha Clothing Co. Ltd. Savar, Dhaka	:	Calibration of Instruments
53.	Russel Garments-1 Narayangonj	:	Calibration of Instruments
54.	Russel Garments-2 Delpara, Narayangonj	:	Calibration of Instruments
55.	Islam Garments Ltd. Gulshan, Dhaka	:	Calibration of Instruments
56.	Summit Power Ltd. Madhabdi, Narsingdi	:	Vibration Analysis of Gas Engine Generator
57.	Linde Bangladesh Ltd. Tejgaon, Dhaka	:	Vibration Analysis of different machines
58.	Mother Textile Ltd. Chhoto Gobibdhapur, Gazipur	:	Dynamic mass balancing of fan Impeller at TICI site
59.	Apex Holdings Ltd. Kaqliakoir, Gazipur	:	Calibration of boiler emission gas & indoor air quality analysis
60.	Radiant Pharmaceuticals Ltd. Tongi, Gazipur	:	Calibration of mass weight
61.	Seven Circle Bangladesh Ltd. Kaligonj, Gazipur	:	Analysis of natural pozzolana
62.	Linde Bangladesh Ltd. Rupgonj, Narayangonj	:	Vibration analysis of different Machineries
63.	Octagon Fibers & Chemicals Himerdighi, Tongi, Gazipur	:	Calibration of viscometer
64.	Arbab Poly Pack Ltd., Siddirganj, Narayangonj	:	Calibration of balance & weight stone



Partial view of IT Lab, CITD



Central Library of TICI

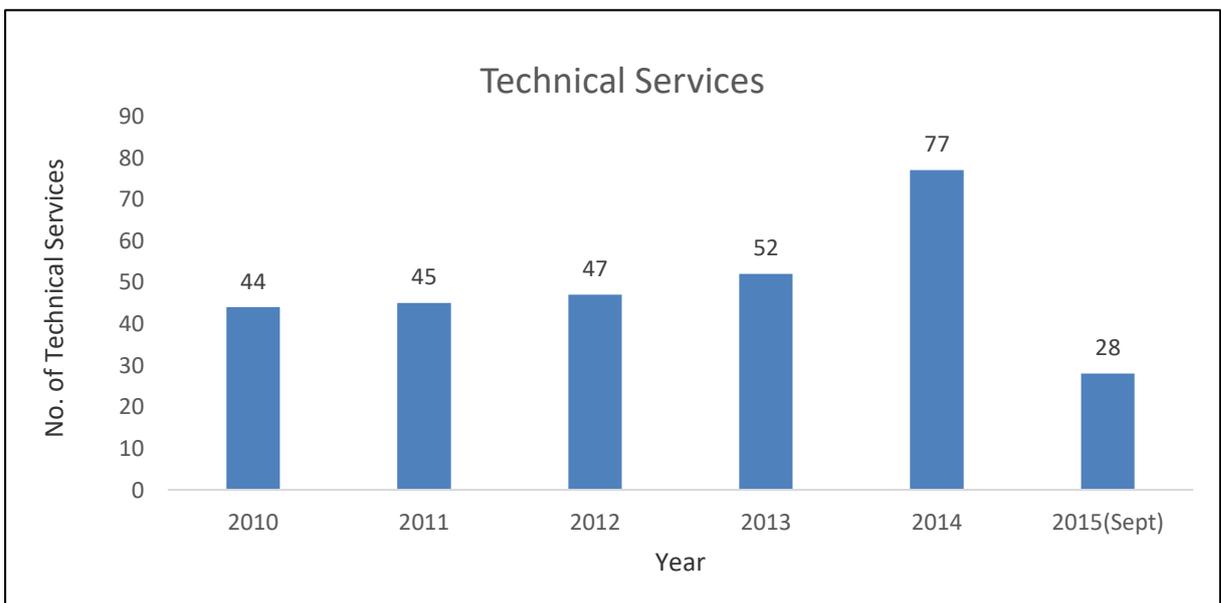
Technical Assistance Services (2014-2015)

<u>S.N.</u>	<u>Name of the organization</u>	<u>Nature of services</u>
01.	Abdul Monem Suger Refinery Ltd., Sonargoan	: Dynamic mass balancing of Fans.
02.	Durable Plastic Ltd Kaliganj, Gazipur	: Calibration of Instruments
03.	M/S Banga Building Materials Ltd. (PRAN RFL Group), Dhaka	: Calibration of Instruments
04.	Radiant Pharmaceuticals Ltd. Tongi, Gagipur	: Calibration of Different Instruments
05.	Linde Bangladesh Ltd. Rupgonj Narayangonj.	: Emission Gas analysis from Generator
06.	M/S Linde Bangladesh Ltd. Shitalpur, Chittagong	: Calibration of Portable Gas monitor
07.	M/S PRAN beverage ltd. Baghmara, Polash, Narsingdi	: Chemical analysis of water
08.	Magura Paper Mills Lt. Meghnaghat, Narayangonj	: Effluent water sample analysis
09.	M/S SIAM Superior Ltd. CEPZ, Chittagong	: Electrical Inspection & Testing
10.	Super Board Mills Ltd. & others Gagaria, Munshigonj.	: Technical Inspection & Survey of damages after fire
11.	Industrial Engineering Services Mirpur, Dhaka.	: Calibration of Electrical Instruments
12.	ZUMA Fashion Ltd. Joydebpur, Gazipur.	: Calibration of Electrical Instruments.
13.	Linde Bangladesh Ltd. Rupgonj, Narayangonj.	: Vibration analysis of different Machines
14.	Linde Bangladesh Ltd. Tejgaon, Dhaka.	: Vibration analysis of different Machines
15.	Mirpur ceramic works Ltd. Mirpur, Dhaka	: Dynamic mass balancing of rotor & pulleys at TICI
16.	Mirpur ceramic works Ltd. Mirpur, Dhaka	: Alignment & Dynamic mass balancing of Blower
17.	PEB Steel Alliance Ltd. Comilla	: Calibration of measuring Instruments
18.	Linde Bangladesh Ltd. Tejgaon, Dhaka	: Calibration of Pressure gauge
19.	HKD International ltd. CEPZ, Chittagong	: Electrical Inspection & Testing
20.	Linde Bangladesh Ltd. Rupgonj, Narayangonj	: Vibration data collection & analysis of machines
21.	North Bengal Sugar Mills Ltd. Gopalpur, Natore	: Dynamic mass balancing of Centrifugal machine & ID Fan
22.	Mobarrakgonj Sugar Mills Ltd. Jhenaidah	: Dynamic mass balancing of Centrifugal machines, ID& FD Fan

23.	Natore Sugar Mills Ltd. Natore	:	Dynamic mass balancing of Centrifugal machines, ID& FD Fan
24.	Faridpur Sugar Mills Ltd. Madhukhali, Faridpur	:	Dynamic mass balancing of Centrifugal machines
25.	BITAC, Dhaka	:	Dynamic mass Balancing of Impellers at TICI shop
26.	Linde Bangladesh Ltd. Tejgaon, Dhaka	:	Vibration analysis of different machines
27.	Modern Erection Ltd.(WTP) Tejgaon I/A, Dhaka	:	Calibration of measuring & testing Equipment
28.	SQ HUES Ltd., Concord Tower Gulshan, Dhaka-1212	:	Analysis of BOD & COD
29.	M/S Stylo Fashion Garments Ltd. Bhawal Mirjapur, Gazipur.	:	Boiler emission gas & indoor air quality analysis and noise test
30.	HKD International Ltd. Chittagong	:	Inspection of Electrical system
31.	Linde Bangladesh Ltd. Shitalpur, Chittagong	:	Vibration data collection & analysis of machines
32.	Carew & Company Ltd. Chuadanga	:	Dynamic mass balancing of different machineries
33.	BITAC, Tejgaon Dhaka.	:	Dynamic mass balancing of Mastic distributor
34.	LIRA Industrial Enterprise	:	Calibration of Instruments
35.	Thakurgaon Sugar Mills Ltd. Thakurgaon	:	Dynamic mass balancing of Centrifugal machines.
36.	Linde Bangladesh Ltd. Rupgonj, Narayangonj	:	Chemical Analysis of Gaseous Emission of Generator & Welding Fumes.
37.	Modern Erection ltd. Tejgaon , Dhaka	:	Calibration of different Instruments
38.	NEPC Consortium Power Ltd. Kanchpur, Narayangonj.	:	Calibration of Sound system
39.	Linde Bangladesh Ltd. Tejgaon, Dhaka.	:	Vibration data collection & analysis of machines
40.	Rangpur metal Industries Hobigonj	:	Calibration of different Instruments
41.	Meghnaghat power Ltd. Narayangonj	:	Measurement of Hardness
42.	Marico Bangladesh Ltd. Uttara, Dhaka	:	Calibration of Instruments
43.	Asian Paints Bangladesh Ltd. Gazipur	:	Calibration of different Instruments
44.	British American Tobacco Co. Ltd. Tejgaon, Dhaka	:	Calibration of different Instruments
45.	Greenland Pharmaceuticals Ltd. Tongi, Gazipur.	:	Effluent Water Analysis
46.	Blue ocean footwear Ltd. Gulshan-1 , Dhaka-1212	:	Indoor air quality analysis & Noise level testing.

47.	Linde Bangladesh Ltd. Rupgonj, Narayangonj	:	Vibration data collection & analysis of machines of ASU- 30-TPD Plant
48.	BITAC Shagorika Road , Chittagong	:	Dynamic mass balancing of Motor rotor
49.	Ghorashal containers Ltd. Bagdi, Polash, Narsingdi	:	Calibration, Testing, Inspection & measurement Of equipment
50.	Ethical Drugs Ltd. Siddirgonj, Narayangonj	:	Calibration of measuring Equipment
51.	Modern Errection Ltd. Tejgaon, Dhaka	:	Calibration of different Instruments.
52.	IBMS Technology BD Ltd. Gulshan, Dhaka	:	Calibration of different Instruments
53.	Greenland Pharmaceuticals Ltd. Tongi, Gazipur	:	Viscosity measurement of antiseptic solution
54.	Islam Garments Ltd. 153, Gulshan Avenue, Dhaka	:	Calibration of different Equipment.
55.	Nestle Bangladesh Ltd. Gulshan Link Road, Dhaka	:	Calibration of Gas detector.
56.	Modern Erection Ltd. Tejgaon, Dhaka	:	Calibration of Instruments
57.	ARBAB Poly Pack Ltd. Simrail, Demra, Dhaka	:	Calibration of measuring Equipment
58.	Linde Bangladesh Ltd. Tejgaon, Dhaka	:	Vibration data collection & analysis of different machineries
59.	Linde Bangladesh Ltd, Rupgonj, Narayangonj	:	Vibration data collection & analysis of different machineries
60.	BITAC Tejgaon, Dhaka	:	Shop balancing of fan

The number of technical services provided by TICI to outside industries in different year is shown in bar chart below:



Welfare Activities

TICI undertakes different socio-cultural activities for the officers, staffs and workers of the institute. A brief description of such activities are given below:

- * ***Medical facilities:*** Free medical facilities for self and dependent family members of the officers, staffs and workers of the institute is extended within the prescribed rule of BCIC.
- * ***Canteen facilities:*** Subsidized canteen facility is maintained by TICI for the employees and trainees of the institute. The canteen is managed by an internal committee to ensure cleanliness, food quality and hygienic environment.
- * ***Recreation/Social activities:*** TICI extends games & sports facilities which include football, volleyball, badminton, lawn tennis and also indoor games in recreation complex. Besides, TICI organizes picnic/re-union, annual sports etc.
- * ***Religious & Ceremonial activities:*** TICI officially observes national & religious auspicious days along with trainees.
- * ***Welfare fund:*** TICI maintain a welfare fund for the employees. Loan is allowed to the members which is realizable in easy installment. Special grant is also given to the members during ailment, at the time of retirement, to the family of deceased member and also in case of marriage ceremony of daughter and to support admission expenses of the children for higher studies.
- * ***Accommodation facilities:*** TICI has a modest residential accommodation facilities for officers, staffs & workers. Hostel facilities are also available for trainees.
- * ***Educational facilities:*** TICI avails school and college facilities of UFFL up to H.S.C. for the children of the employees of the institute. Stipend/scholarship is also awarded to meritorious students as per rule.
- * ***Miscellaneous:*** Uniform and liveries including washing charges are given to the employees as per rule. Necessary consumable goods are available for sale at fair price in the institute's canteen.

Development Programs of TICI

TICI maintains continuous development activities and incorporates additional facilities to meet the growing demand of the country. Some of the current programs include:

- Two new technical departments (namely ISHD and CITD) were established to expand the training area which are supportive for the employees of BCIC and other organizations to strengthen their knowledge on industrial health & safety and computer technology.
- At present, the existing scientific instruments & machinery in different labs/shops are getting older but technologies are progressing at its fastest possible speed. Some of them are not functioning properly. TICI is trying hard to provide its best efforts to maintain

the quality service all along. For this reason, TICI took a development program namely '*Modernization and strengthening of Training Institute for Chemical Industries (TICI)*'. Hence, for implementing this program a proposal as DPP has put forwarded to the GOB and at the same time looking for a Technical Assistance from the developing partners. *Korea International Cooperation Agency (KOICA), The Republic of Korea* extends their cooperation to contribute in the '*Modernization and Strengthening of Training Institute for Chemical Industries (TICI)*'. The project now is in progress.

Source of financing for the modernization and strengthening program of TICI:

Government of Bangladesh (GOB): Tk. 1016.50 Lakh

Development Partner (KOICA): Tk. 4000.00 Lakh

The mentioned modernization program started on 2014 and will be completed on 2018.

- *Testing and Calibration Lab (TCL)* of Analytical Chemistry & Environmental Science Department obtained accreditation on the scope of Calibration of Volumetric Glassware on 2015 from *Bangladesh Accreditation Board (BAB)*.

Accreditation is an international recognition to perform specified test/calibration. It should mention here that TCL Lab has tried to obtain accreditation on the scopes Calibration of Electronic Balance, Calibration of Volumetric Glassware and Measurement of Viscosity of lubricating oil; but accreditation achieved only for volumetric glassware calibration. It is due to the absence of accredited lab in Bangladesh on Calibration of Electronic Balance and Measurement of Viscosity of lubricating oil and hence Inter Laboratory Comparison (ILC) could not perform. Now TICI trying the best to arrange ILC for that scopes to achieve accreditation.

- There is demand to introduce research facilities in TICI for the students of different universities, such as Shahjalal University of Science and Technology (Chemistry department, FET Department), Jessore University of Science and Technology (Chemical Engineering Department). This proposal was submitted before the Governing Body Meeting and the Body advised TICI to offer research proposal for the university students from TICI end and to consult with the universities about related issues.



Programmable Logic Controller (PLC) Class in Advanced Instrumentation Lab of ICED

Chronological history of the project (Contd.)

<u>Period</u>	<u>Description of Activities</u>	<u>Proposed Cost</u> <i>(in Lac Taka)</i>	<u>Results</u>
Jan'81	A provision was made for setting up of a local training center under the Rehabilitation Scheme (R.S.) of Urea Fertilizer Factory Ltd., Ghorashal, Narsingdi within the Fertilizer Industries Rehabilitation Project (FIRP) with IDA finance	104.00	Received Government approval as a project of R.S.
May '83 (CFIT)	A proposal was raised for Central Fertilizer Training Institute in view of growing demand for trained manpower in BCIC	1518.00	Govt. instruction for deleting the project from R.S. and to place a new P.P.
March '84 (CFTI)	Meanwhile an amount of Taka 103.23 lacs was spent for piling work & procurement of construction materials as a part of R.S. of UFFL Ghorasal, Narsingdi A P.P. was placed from BCIC side for establishment of an independent Central Fertilizer Training Institute	1437.56	Construction work of the Training Centre was suspended since January 1984
June'84 ZFCL (NFTI)	Concurrently a proposal was placed by ZFCL (Zia Fertilizer Company Ltd) according to the instruction of the Ministry of Industries for establishment of a National Fertilizer Training Institute (NFTI)	3024.09	An inter-ministerial committee was trusted with the responsibility of reviewing the aforesaid proposal & the proposal submitted by ZFCL
Sep'84 (NFTI)	BCIC revised the original P.P. (CFTI) produced before the Govt. altering its name as (NFTI) as per instruction of Inter-ministerial Committee	965.46	It did not to receive the instantaneous accord of the Govt. in view of its apparently high expenditure involved and the manifested ineffective services of the existing Training Institutes of the country
Jan'86 (TICI)	Project evaluation committee reviewed the proposal & reduced its estimated cost & placed to the Govt. changing its name as the Training Institute for Chemical Industries (TICI)	825.23	The Honourable President approved the project on 19.09.86
Sep'86 (TICI)	An agreement was drafted between M/S Stamicarbon BV (STAC) and BCIC in order to having it signed following the prospective approval of the Dutch Govt. for project aid and technical assistance in foreign currency	--	This agreement did not materialize
July'87	The Civil construction of TICI was resumed	--	Erection work was nearly completed
April'88	A contract was accorded by the Dutch Govt and STAC. in the light of the previously drafted agreement	--	This agreement came into being on 01.04.88

Chronological history of the project (Contd.)

<u>Period</u>	<u>Description of Activities</u>	<u>Proposed Cost</u> <i>(in Lac Taka)</i>	<u>Results</u>
Oct'88	An agreement for grant was signed between the Dutch and Bangladesh Government for implementation of the project by STAC & BCIC on behalf of the Govts. of The Netherlands and Bangladesh respectively	--	This contract was accorded as Administrative Arrangement
Sep'89	A revised Project Proforma was placed before the Ministry after its approval by the BCIC Board, incorporating extended project profile for phase-II	4002.06	This Project Proforma was placed before the Ministry of Planning following its approval by the Ministry of Industries
Jan'90	Arrival of a two member erection team to TICI from Stamicarbon BV.	--	Installation work of TICI started and TICI officers took active part
July'90	Erection work of the First-Phase completed	--	Two departments namely. Process Operation and Instrumentation became functional
August'91	Arrival of STAC training advisors to TICI for evaluation, modification & finalization of Training programme, organized by TICI management	--	Training programme for newly recruited Apprentice Grade-I started
Jan'92	The Ministry of Foreign Affairs of Netherlands conducted a joint Mission consisting of 2 members, assigned by BCIC and 2 members, assigned by GON for evaluation of the 1st phase and for the formulation of the 2nd phase of TICI	--	The report was submitted to GON at the Hague. The report was accepted by the GON
May'93	A COMMITMENT LETTER was signed by the GOB & GON where in the GON agreed to finance the phase-II project of TICI as grant amounting to Dfl. 11,618.300	Dfl. 11.618 million	<ul style="list-style-type: none"> - Bangladesh authority shall prepare tender document - Netherlands authority shall organize tender - Bangladesh authority shall prepare contract document to be signed between supplier & Bangladesh and shall submit to GON for approval
July'93	Notice inviting tender for establishment of TICI Phase-II was published from the Ministry of Foreign Affairs at the Hague. the Netherlands	--	3 parties participated in the tender which was received by the Ministry of Foreign Affairs of the GON
Oct'93	A contract was signed between GOB representative and the successful bidder, at The Hague, which was organized by the Ministry of Foreign Affairs. the GON	Dfl. 9,288,118 (Contract price)	Gemco Industrial Dev. B V, Science park, Eindhoven 5053,5692 EB SON, the Netherlands was selected as general contractor for implementation of TICI phase-II (M/S UNICORN FAR EAST, Dhaka was local agent of Gemco)

Chronological history of the project (Contd.)

<u>Period</u>	<u>Description of Activities</u>	<u>Proposed Cost</u> <i>(in Lac Taka)</i>	<u>Results</u>
Nov'93	Gemco expert team consisting of 6 members carried out a field mission at TICI site to organize TICI Phase-II implementation activities	--	Implementation activities of TICI phase-II starts
June'96	Material supply, erection and commissioning of equipment complete (99%)	--	Investment phase of TICI phase-II declared completed. However, operational phase of TICI phase II shall continue for 5 yr. from the date of completion
Agust'97 Oct'97	The GON conducted afield mission by an expert team consisting of one expert of Bangladesh and one expert of the Netherlands for "Evaluation of the second phase of TICI and to give recommendations for possible future development of TICI"	--	The main points of Evaluation Mission's recommendation were: <ul style="list-style-type: none"> - The project is complete as per contract - Training of Teachers Program need to be continued to maintain overall standard attained by TICI - Training of Teachers Program need to be continued to maintain overall standard attained by TICI
Feb, 2010	Draft PDPP to BCIC	--	
Sept. 2010	Man power setup was updated 2 new Technical Department namely Industrial Safety & Health Department (ISHD) and Computer & Information Technology Department (CITD) were created. <ul style="list-style-type: none"> - Other 2 cells were converted as Purchase and Store Department and Technical Service and Maintenance Department. - Total Manpower was raised to 108 in which 48 nos. are technical Trainers/Teacher. 	--	
Nov. 2010	PDPP Approved by MOI & Ministry of Planning.	--	
Oct. 2011	Donner Agency Searching by ERD	--	
Mar. 2012	KOICA Feasibility Study Team Launch their work TICI is included in UNIDO Better Quality Infrastructure in Bangladesh program. Afterwards gave training & supporting technical help by its own Experts.	--	
Dec. 2013	Record of Discussion Signed with KOICA	--	

Chronological history of the project (Contd.)

<u>Period</u>	<u>Description of Activities</u>	<u>Proposed Cost (in Lac Taka)</u>	<u>Results</u>
Nov. 2014	Kick off meeting were held between MOI & KOICA.	--	
Dec. 2014	Finally TPP approved by MOP on December'14.	--	
Jan. 2015	PD appointed. Project Steering Committee (PSC) & and Project Implementation Committee (PIC) formed.	--	
	SRO published on Dec'2014 in regarding the Project.	--	
Apr. 2015	GOB fund received	--	
May, 2015	TICI Awarded Accreditation Certificate by BAB.	--	

Financial Report

Audited Balance Sheet & Financial Report

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**Training Institute for Chemical Industries,
Polash, Narsingdi-1611.**

Accounting Policies & Information

01. Basic of preparation of Accounts :

Accounts of Training Institute for Chemical Industries (TICI) have been prepared on a going concern basis under generally accepted accounting principles and historical cost convention.

02. Presentation of Accounts :

a) Accounts are presented in accordance with international accounting standards as far as practicable.

b) Full disclosure principle has been followed in the preparation and presentation of accounts.

03. Income & Expenditure recognition :

All incomes are recognized and expenditures are accounted for on accrual basis.

04. Accounting concept :

TICI, the central training institute of BCIC, is considered as a non-trading concern and is operated on 'No profit No Loss' basis.

05. Fund management :

TICI receives its operating fund from the BCIC enterprises through imposition of levy, at the rate fixed by BCIC Board, in the annual budget for both capital and revenue expenditures excluding depreciation.

06. Valuation policies :

a) Fixed Assets :

All the fixed assets of TICI have been recorded at original cost. The training materials and equipment received under the Netherlands Grant were valued at the rate of exchange prevailing on the date of transaction.

b) Inventories :

Weighted average cost method was followed for determining the value of stock of stores, spares and accessories.

07. Depreciation :

a) Depreciation is constantly charged on straight lime method on various fixed assets at the rates prescribed for individual asset.

b) Depreciation has been charged on addition of assets during the year at full rate irrespective of the date of its capitalization.

c) Depreciation is not considered as expenses for the purpose of imposing levy and as such depreciation fund account is created instead of showing it as a deduction from fixed assets.

08. Foreign Grant:

The Netherlands Grant transactions are recorded at the rate of exchange prevailing on the date of transaction. Accordingly, the training equipment under Plant & Machinery have been valued at its original cost and capitalized giving corresponding effect to Grant account.

09. Retirement Benefits :

All officers, staffs and workers enjoy retirement benefits which consists of Provident and Gratuity Funds, Monthly contribution from the incumbents @ 10% of basic salaries or wages together with 10% employer's contribution is invested in Govt. securities, Interest received from such investment is credited to the beneficiaries in proportion to their fund benefit. Gratuity benefits are provided in the accounts as on the balance sheet date for the total service length as per rule. The benefits are paid on the retirement/death/resignation from service.

10. Self-Insurance Scheme :

The policy of self-insurance scheme was introduced in place of group term insurance scheme as per policy of BCIC. Financial benefits equivalent to last paid basic salary/wages for 36 months are paid to the legal heirs or persons nominated by the deceased.

11. Title Deed of land :

The title of land TIC1 is yet to be completed. Transfer of 17.035 acre land with its proportionate value would be recorded after accomplishing the legal formalities from Urea Fertilizer Factory Ltd..

12. Physical Inventory :

Physical inventory of fixed assets and store items as on the Balance sheet date has been carried out as rule.

Assets & Capital Structure:

A. Assets :

Amount in lac Taka

Particulars	30.06.2014	30.06.2013	Increase/(Decrease)
a) Fixed Assets (at cost)	6100.65	6086.10	14.55
b) WDV of Fixed Assets	869.11	1083.48	(214.37)
c) Other Long Term Assets	5231.54	5002.61	228.93
d) Inventories	6.25	4.60	1.65
e) Other Current Assets	523.15	442.46	80.69
f) Total Assets (b+c+d+e)	6630.05	6533.15	96.90
g) Current Liabilities	320.06	237.72	82.34
h) Net Assets (f - g)	6309.99	6295.43	14.56
i) Working capital (d+e-g)	209.34	209.34	-

B. Capital Structure :

Particulars	30.06.2014	30.06.2013	Increase/(Decrease)
a) Netherland Govt. Grant	3489.79	3489.79	-
b) Govt. Grant	255.61	255.61	-
Total	3745.40	3745.40	-

Working Capital:

Amount in lac Taka

Particulars	30.06.2014	30.06.2013	Increase/(Decrease)
Current Assets :			
Spares, Accessories & Stores	6.25	4.60	1.65
Account Receivables	318.11	200.99	117.13
Advance, Deposits & prepayments	4.17	4.15	0.02
Others Receivables	-	-	-
Cash & Bank	200.87	237.32	(36.45)
Total	529.40	447.06	82.45
Current Liabilities :			
Creditors for Expenses	4.99	6.75	(1.76)
Creditors for other finance	56.28	77.25	(15.97)
BCIC current Account	8.66	5.89	2.77
Accounts payable	250.13	147.83	102.30
Total	320.06	237.72	87.34
Change in working capital	209.34	209.34	-

Fund flow for the year ended 30th June, 2014.

Sources Of Fund :	30th June, 2014.	30th June, 2013.
Opening cash & bank balance	2,37,31,998	1,62,93,518
From operation :		
Excess of expenditure over income	(2,28,93,102)	(2,68,16,021)
Depreciation	2,28,93,102	2,68,16,021
	-	-
From other sources :		
Increase in capital fund	14,56,160	43,33,495
	14,56,160	43,33,495
Total Fund Provided	2,51,88,158	2,06,27,013
Application Of Fund		
Increase in fixed assets	14,56,160	43,33,495
	14,56,160	43,33,495
Increase/(Decrease) in Working Capital		
Spares, Accessories & Stores	(1,65,170)	40,117
Receivables from enterprise	(1,17,12,830)	1,23,61,517
Advance, Deposits & prepayment	(2,258)	94,364
Creditors for Expenses	(1,75,665)	1,16,255
Creditors for other finance	(20,96,874)	(34,13,706)
BCIC current Account	2,76,754	2,76,428
Payable to enterprise	1,02,30,636	(20,36,495)
	(36,45,407.00)	74,38,480
Closing cash & bank balance	2,00,86,592	2,37,31,998
Total Fund Applied	1,78,97,345	3,55,03,973

Auditor's Report
(For the year ending 30TH June, 2014.)

We have examined the annexed Statement of Financial Position of the “**Training Institute For Chemical Industries (TICI)**”, Polash, Narsingdi as on 30 June 2014 along with the related Statement of Comprehensive Income and Cash Flow Statement for the year ended on that date. The preparation of these financial statements is the responsibilities of the management. Our responsibility is to express an independent opinion on these financial statements based on our audit.

We conducted our audit in accordance with Bangladesh Standards on Auditing (BSA). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement. An audit includes examining on test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

In our opinion, the financial statements prepared in accordance with Bangladesh Financial Reporting Standards (BFRS), give a true and fair view of the state of the Organization's affairs as on 30 June 2014.

We also report that:

- a) We have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of our audit and made due verification thereof.
- b) In our opinion, proper books of accounts as required by law have been kept by the Organization's so far as it appeared from our examination of those books.
- c) Statement of Financial Position and Statement of Comprehensive Income and Cash Flow Statements dealt with by the report are in agreement with the books of account and returns.

Balance Sheet As At 30th June, 2014.

Particulars	Amount in Taka	
	30.06.2014	30.06 2013.
<u>Property & Assets:</u>		
A. Fixed Assets at written down value :	8,69,10,710.52	10,83,47,651.17
Fixed Assets at cost	61,00,65,151.60	60,86,08,991.60
Less : Accumulated Depreciation	52,31,54,441.08	50,02,61,340.43
B. Excess of Expenditure over Income	52,31,54,441.08	50,02,61,340.43
C. Current Assets		
Spares Accessories & Stores	6,25,158.00	4,59,987.56
D. Other Current Assets :	5,23,15,125.48	4,42,45,444.24
Receivable from Enterprises	3,18,11,521.66	2,00,98,691.33
Advance, Deposits & Pre-payments	4,17,012.26	4,14,754.51
Cash & Bank Balances	2,00,86,591.56	2,37,31,998.40
Total (A+B+C+D)	66,30,05,435.08	65,33,14,423.40
<u>Capital & Liabilities:</u>		
E. Current Liabilities :	3,20,06,357.11	2,37,71,505.43
BCIC current Account	8,66,183.64	5,89,429.61
Payable to Enterprise	2,50,13,478.04	1,47,82,841.86
Creditors for Expenses	4,98,920.31	6,74,585.54
Creditors for other Finance	56,27,775.12	77,24,648.42
F. Long Term Liabilities :	6,00,000.00	6,00,000.00
Non-Development Govt. Loan (Voluntary Retirement)	6,00,000.00	6,00,000.00
G. Fund :	63,03,99,077.97	62,89,42,917.97
Grant	37,45,39,813.73	37,45,39,813.73
Capital Investment	25,58,59,264.24	25,44,03,104.24
Total Liabilities (E + F +G)	66,30,05,435.08	65,33,14,423.40

Income & Expenditure Statement For The Year Ended 30th June 2014.

Particulars	Code	Amount in Taka	
		30.06 2014.	30.06 2013.
A. Income :			
Management Fee (Annexure-I)	76000	3,90,98,183.45	3,18,82,288.40
Training Fee	77001	85,81,375.00	74,87,100.00
Expert Service Fee	77002	16,15,522.00	23,88,646.92
Bank Interest Income	78013	11,42,645.26	15,85,065.00
Other Income (Annexure-II)	78000	19,48,653.83	18,36,969.36
Expending over Income (Provision for Dep.)	19000	2,28,93,100.65	2,68,16,021.00
Total :		7,52,79,480.19	7,19,96,090.68
B. Revenue Expenditure :			
Salaries & Allowances (Annexure-IV)	80000	3,73,16,766.10	3,29,71,856.93
Spares & Consumable (Annexure-V)	81000	5,43,548.00	7,83,948.64
Training Allowances	82001	9,100.00	-
Training Expenses	82011	4,77,057.00	4,98,662.00
Lecture, Honorarium, Reward	82057-59	3,09,081.00	1,36,854.80
Printing & Stationery	82003	6,36,306.06	5,01,765.19
Telephone & Internet	82004	95,114.00	82,219.00
Postage, Telegram & Telephone	82005	8,668.00	9,006.00
Rates & Taxes	82040	16,65,985.00	28,985.00
Travelling & Conveyance	82008	4,32,305.00	3,71,374.00
Food & Conveyance	82009	80,600.00	65,100.00
Electricity & Lighting	82037	19,36,259.06	11,46,516.27
Publicity & Advertisement	82006	2,44,971.09	2,88,374.00
Entertainment	82010	2,75,568.00	2,73,709.00
Insurance	82041	68,093.00	75,554.00
Contract Labour	82014	30,89,446.00	25,36,584.00
Gardening Expenses	82012	37,871.00	34,445.00
Audit Fee	82052	33,000.00	32,000.00
License Fee	82063	46,563.00	10,805.00
Newspaper & Magazine	82007	61,573.00	62,413.00
Gas, Water, Power & Fuel	82038-39	4,10,987.00	4,06,955.00
Security Expenses	82016	15,34,119.84	14,30,877.16
Repairs & Maintenance (Annexure-VI)	82042-45,50	12,87,651.00	12,58,459.28
Depreciation	82047	2,28,93,102.00	2,68,16,021.00
Foreign Training	82018	2,000.00	11,007.00
Vehicles Running Expenses	82036	3,25,664.78	1,67,907.17
Social Welfare Expenses (Annexure-VII)	82020-35,56	7,55,871.70	16,35,898.00
Bank Charge	82076	4,853.00	10,931.00
Sanitation Expenses	82015	40,121.00	26,611.28
Accreditation Board Fee.	82067	75,747.00	-
Consultancy Fee (Assets Revaluation fee)	82055	84,375.00	-
Annual Report	82071	24,333.00	24,245.00
Governing Body express	82066	4,33,350.00	2,57,661.00
Miscellaneous Expenses	82017	39,430.56	42,345.96
Total :		7,52,79,480.19	7,19,96,090.68

Schedule of fixed assets as on 30.06.14

Schedule: A-1

Sl. No	Name of Assets	Code No	C O S T				Rate of Dep. %	D E P R E C I A T I O N				Written Down Value as on 30.06.14
			Opening Balance as on 30.06.13	Addition during the year	Adjus-tment during the year	Total as on 30.06.14		Opening Balance as on 30.06.13	Depre-ciation charger for this year	Adjus-tment during the year	Total as on 30.06.14	
			a	b	c	a+b-c=d	e	f	g	h	f+g-h=i	d-i=j
01.	Land & Land Development	10000	12,73,806.82	81,095.00	-	13,54,901.82	0%	-	-	-	-	13,54,901.82
02.	Buildings	11000	9,34,24,564.70	-	-	9,43,24,564.70	2.50%	4,02,01,426.00	23,35,626.00	-	4,25,37,052.00	5,08,87,512.70
03.	Other Construction	12000	1,44,63,418.77	96,895.00	-	1,45,60,313.77	7.5-10%	1,41,23,598.07	50,486.00	-	1,41,74,084.07	3,86,229.70
04.	Plant & Machinery	13000	46,87,76,218.10	3,88,057.00	48,000.00	46,91,16,275.10	5-7.50%	41,82,77,362.30	1,94,13,639.00	-	43,76,91,001.03	3,14,25,273.80
05.	Transport Vehicles	14000	50,94,429.63	-	-	50,94,429.63	20%	41,21,625.63	4,86,400.00	-	46,08,025.63	4,86,404.00
06.	Furniture & Fixture	15000	50,57,861.19	4,34,474.00	-	54,92,335.19	10%	40,91,069.55	1,83,752.00	-	42,74,821.55	12,17,513.64
07.	Office Equipments	16000	1,20,33,159.42	2,39,550.00	-	1,22,72,709.42	10-25%	1,14,67,819.42	2,45,707.00	-	1,17,13,526.42	5,59,183.00
08.	Test Equipment & Loose Tools	17000	38,17,928.47	1,29,050.00	-	39,46,978.47	12.50%	36,22,917.64	66,520.83	-	36,89,438.47	2,57,540.00
09.	Sundry Assets	18000	46,67,604.50	1,35,039.00	-	48,02,643.50	7.5-25%	43,55,520.64	1,10,971.00	-	44,66,491.64	3,36,151.86
	Total		60,86,08,991.60	15,04,160.00	48,000.00	61,00,65,151.60		50,02,61,339.25	2,28,93,101.83	-	52,31,54,441.08	8,69,10,710.52

Budget : Income & expenditure July, 2013 thru June, 2014

Description	Taka in lac	
	Total Budget for July 01, 2013 to June 30, 2014	Actual for July 01, 2013 to June 30, 2014
A. Manpower		
Officers	58	52
Staffs	16	13
Worker	05	04
Total	79	69
B. Revenue Income	137.50	132.89
C. Revenue Expenditures	858.94	752.79
Less : Depreciation	279.50	228.92
	579.44	523.87
D. Net Revenue Expenditure (C-B)	441.94	390.98
E. Capital Expenditure	57.93	15.04
Less : Adjustments	-	0.48
Net Capital Expenditure	57.93	14.56
F. Total Expenditures (D+E)	499.87	405.54
Less : Adjustment of excess levy	94.33	-
G. Levy (as per audited balance sheet)	405.54	405.54

Year-wise statement of income & expenditure

Year	Levy Received	Income from other sources	Total Income	Revenue Expenditure	Taka in lac	
					Capital Expenditure	Total Expenditure
2009-10	340.84	91.93	432.77	363.59	69.18	432.77
2010-11	393.01	110.56	503.57	427.62	75.95	503.57
2011-12	385.81	122.28	508.09	419.82	88.27	508.09
2012-13	362.15	132.98	495.13	451.80	43.33	495.13
2013-14	405.54	132.88	538.42	523.86	14.56	538.42

Cash flow statement for the year ended 30th June, 2014.

Particulars	Amount in Taka	
	30.06.2014	30.06.2013
A. Cash flows from operating activities:	-	-
Excess of Expenditure Over Income	(2,28,93,102.00)	(2,68,16,021.00)
Depreciation	2,28,93,102.00	2,68,16,021.00
B. Change in Current Assets & Current Liabilities:	(36,45,406.84)	74,38,480.63
Stock & Stores	(1,65,170.44)	40,116.98
Receivable from enterprises	(1,17,12,830.33)	1,23,61,517.36
Advance, Deposits & Pre-payments	(2,257.75)	94,364.09
Payable to enterprise	1,02,30,636.78	(20,36,495.55)
Other Current Liabilities :-		
BCIC current Account	2,76,754.03	2,76,427.97
Creditors for Expenses	(1,75,665.23)	1,16,255.29
Creditors for finance	(20,96,873.90)	(34,13,705.51)
C. Total Operating Activities (A+B)	(36,45,406.84)	74,38,480.63
D. Cash flows from investing activities :	-	-
Fixed Assets	(14,56,160.00)	(43,33,495.00)
E. Cash flows from financing activities :		
Capital Investment	14,56,160.00	43,33,495.00
F. Net cash generated : (C+D+E)	(36,45,406.84)	74,38,480.63
G. Opening Cash & Bank Balance	2,37,31,998.40	1,62,93,517.77
H. Closing Cash & Bank Balance : (F+G)	2,00,86,591.56	2,37,31,998.40

Distribution of Annual levy:

A.	Levy :	30.06.2014	30.06.2013
	01. CUFL	22%	20%
	02. JFCL	30%	31%
	03. AFCCL	32%	31%
	04. UFFL	8%	8%
	05. NGFFL	1%	2%
	06. PUFFL	4%	3%
	07. TSPCL	1%	2%
	08. DAPFCL	0.5%	1%
	09. KPM Ltd.	0.5%	1%
	10. CCCL	1%	1%
	Total	100%	100%

Arrear levy/subscription as on 30th June, 2014**Taka in Lac**

Sl. No.	Name of Enterprise	Arrear as on 01.07.13	Approved Budget for 2013-14	Total Arrear upto 30/06/14	Receipt/ Adjustment during 2013-14	Arrear upto 30.06.14
		A	B	A+B=C	D	C-D=E
01.	Chittagong Urea Fertilizer Ltd.	(2,42,190.00)	1,09,97,000.00	1,07,54,810.00	50,00,000.00	57,54,810.00
02.	Jamuna Fertilizer Co. Ltd.	11,36,447.00	1,49,96,000.00	1,61,32,447.00	1,00,00,000.00	61,32,447.00
03.	Ashugonj Fertilizer & Chemical Complex Ltd.	(1,000.00)	1,59,96,000.00	1,59,95,000.00	1,59,96,000.00	(1,000.00)
04.	Urea Fertilizer Factory Ltd.	25,89,338.00	39,99,000.00	65,88,338.00	25,01,908.00	40,86,830.00
05.	Natural Gas Fertilizer Factory Ltd.	36,48,003.50	5,00,000.00	41,48,003.50	0.00	41,48,003.50
06.	Polash Urea Fertilizer Factory Ltd.	(3,91,563.00)	19,99,000.00	16,07,437.00	12,00,000.00	4,07,437.00
07.	TSP Complex Ltd.	50,41,269.00	5,00,000.00	55,41,269.00	30,00,000.00	25,41,269.00
08.	DAP Fertilizer Co. Ltd.	18,11,988.00	5,00,000.00	23,11,988.00	5,00,000.00	18,11,988.00
09.	Karnaphuli Paper Mills Ltd.	37,52,291.00	2,50,000.00	40,02,291.00	2,50,000.00	17,52,291.00
10.	Chattak Cement Co. Ltd.	10,93,129.00	2,50,000.00	13,43,129.00	0.00	13,43,129.00
11.	Bangladesh Insulator and Sanitary ware Factory Ltd.	5,20,760.00	0.00	5,20,760.00	0.00	5,20,760.00
	Total	1,89,58,472.50	4,99,87,000.00	6,89,45,472.50	3,84,47,908.00	3,04,97,564.50