বার্ষিক প্রতিবেদন
২০১৪-১৫

রূপান্তর

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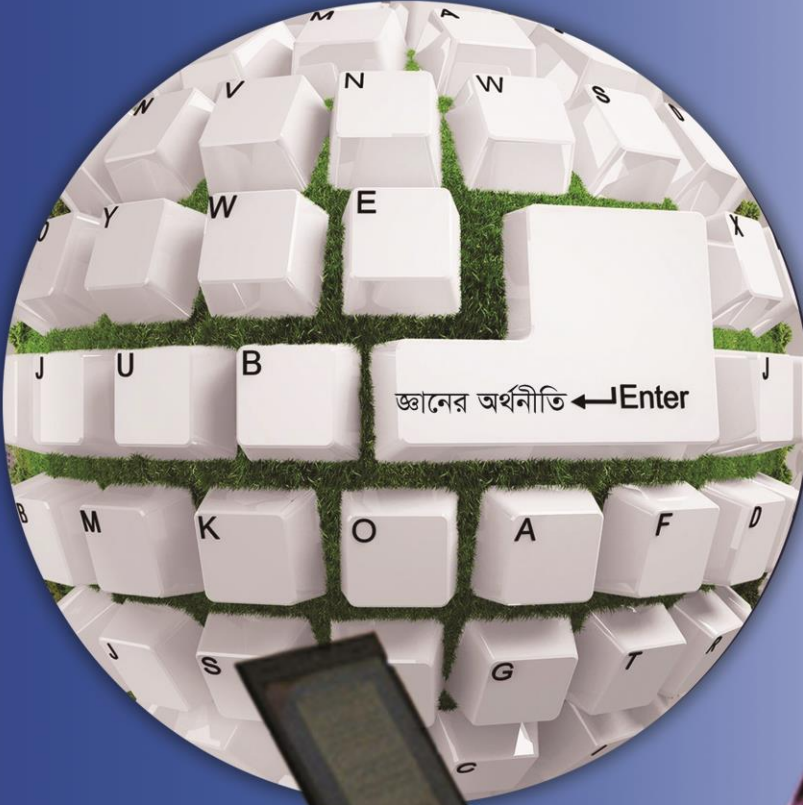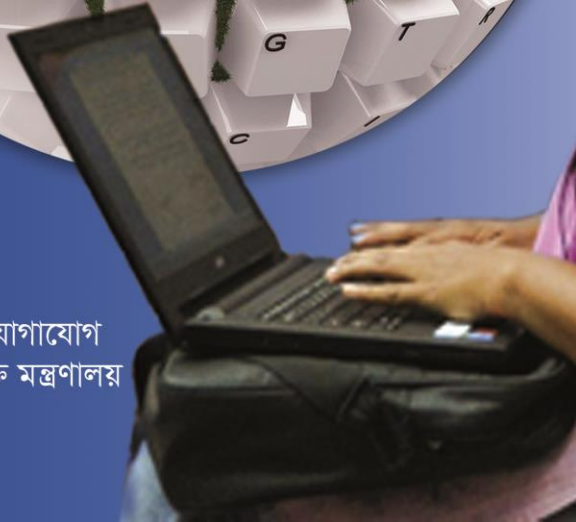
ডাক, টেলিযোগাযোগ
ও তথ্যপ্রযুক্তি মন্ত্রণালয়

The Ministry of Post, Telecommunication and Information Technology

Message

Sheikh Hasina
Prime Minister
The Government of the People's
Republic of Bangladesh

Accountability establishes democracy on the firm footing and makes the foundation of sustainable development stronger. And with this expectation the Information and Technology Division and the Post & Telecommunication Division are going to publish a booklet on every year's success and future plan, which demands appreciation. I am happy to know it.

You know that the present government has been working relentlessly to ensure proper application and use of information technology through reasonable, equal opportunity and transparency. The price of internet bandwidth has been reduced one more time on 1 September, 2015 lastly to reflect it properly. As a result, subscribers are able to buy 01 Mbps bandwidth at Tk 625 instead of Tk 1068. In this context I want to say that the price of per Mbps bandwidth was Tk 76,000 in 2007. These steps have been taken to ensure the benefits of the subscribers and the free use of internet by all. The number of internet users across the country has already crossed 10 million, which is remarkable.

Today, Bangladesh is a front ranking country in this age of free flow of the information technology. A remarkable rebellion has taken place in the development of the country's information technology over the last six and a half year because of our government's timely initiatives. The information technology sector has witnessed a massive infrastructural development because of our sincere efforts. The entire country has now come under a single network.

Today, Digital Bangladesh is no more a dream; it is an undeniable reality because of the success in reaching internet service to marginal people and development of application efficiency, ensuring the widespread use of information technology.

The long cherished dream of Father of the nation Bangabandhu Sheikh Mujibur Rahman was to establish a happy prosperous golden Bangla. The government has taken information and communication technology as a way in fulfilling this dream.

Let's come all to work together to fulfil this aim of the present government.

I wish the publication a success.

(Sheikh Hasina)

Message

Sajeeb Ahmed Wazed
Prime Minister's Information and
Communication Technology Affairs Adviser

I am happy to know that Information and Communication Technology Division and Post & Telecommunication Division are going to bring out a publication on their every year's success and future plan.

The Ministry of Post, Telecommunication and Information Technology has been making important contribution to flourishing information technology and increasing creating awareness about it. This new initiative of Information and Technology Division in building 'Digital Bangladesh' has add a new dimension to the progression of information technology in the country.

The government is committed to taking Bangladesh to a new height. The stair of fulfilling that aim is Digital Bangladesh'. The government has ensured construction of infrastructure and reaching information technology service to far-flung area. Service is now available at the union digital centre. Even information technology services developed in Bangladesh are being exported to more than 30 countries in the world. Information technology is now the source of livelihood of several lakh of people, employment-friendly of more than four crore people, a reflection of people's education, health and availability of other services.

Bangladesh has achieved a tremendous progress over the six years only. It has become possible because of joining the relentless efforts of information technology related organizations including Bangladesh Computer Council together with the government's initiatives.

I hope, the people will be able to know about the different activities taken by the government in building a prosperous Bangladesh based on the information technology through this publication. The people will also get a clear idea about the future plan.

I thank all associated with this publication.

Joy Bangla, Joy Bangabandhu

May Bangladesh long live

(Sajeeb Ahmed Wazed)

Message

Zunaid Ahmed Palak, MP
State Minister
Information and Communication Technology Division
Ministry of Post, Telecommunication and Information Technology

Information technology is now one of the main weapons for the people's empowerment and poverty alleviation. Information and Communication Technology Division and Post & Telecommunication Division are going to bring out a publication on their every year's success and future plan to inform the people about the government's relentless efforts based on this weapon and sketch a vision.

The government has been trying to establish Bangladesh as a middle income country by 2021 and a developed country by 2041 through implementing 'Digital Bangladesh'. To fulfil this target, it has been doing relentlessly everything, including policy formulation, infrastructure and skilled manpower development. The people have already started getting its benefits. Forty lakh people are now receiving services every day from more than 5000 Union Digital Centres (UDC). More people taking facilities such as e-commerce, e-payment, mobile banking, 3G service in mobile phone. The government has started turning 8500 post offices into e-post. Land zoning work is going on. Introduction of e-governance and setting up of information Technology Park and university are also going on. With the implementation of these works Bangladesh would go a long way in information technology.

Internet price has come down to Tk 625 for per mbps. As a result, use of internet in far-flung areas will also be ensured.

At present there are 12 crore 76 lakh mobile subscribers and the number of internet users is five crore 70 lakh in the country. This achievement has been possible because of the steps taken by the present government.

It is undeniable, different information technology organizations, including mobile operators, BCS, BASIS, ISPAB are the big associates for the success of thee initiatives taken by the government. My sincere thanks and gratitude are for them.

I urge to reach this publication to everyone.

I thank all those involved in the publication.

Joy Bangla, Joy Bangabandhu

(Zunaid Ahmed Palak, MP)

Foreword

Shyam Sunder Sikder
Secretary
Information and Communication Technology Division

Bangladesh is now advancing through the process of transformation. Digitization is playing key role to this transformation. The transformation is taking place in many areas. The century-old traditional system of delivering service is gradually being transformed through the digital system. Various initiatives of the government have also widened scope to go ahead from labour dependent economy to knowledge dependent economy.

Initially it was a very challenging task to change the traditional service delivery system when the government under the dynamic leadership of honourable Prime Minister started journey towards Digital Bangladesh in January 2009. In fact, the announcement of Digital Bangladesh and its incorporation in the priority programmes of the government made it possible to begin transformation from manual to digital system. Six years have been elapsed. As the implementation of new initiatives every year has intensified the pace of building Digital Bangladesh, it is adding new dimension to the country's overall development and progress.

The first initiative of the government was to ensure people's access to information and public services digitally. The government is almost successful in achieving that target. As part of the initiative the government set up 5,275 Digital Centers including 4,547 Union Digital Centers (UDCs) to provide information and services to the doorstep of the people. Each center has been providing 50 to 200 categories of services to the people. Even the people from rural areas are connected with the global village due to expansion of Information and Communication Technology (ICT), availability of internet connectivity and increasing the number of mobile phone and internet users. The increase of number of mobile phone users to nearly 130 million and the number of internet users to over 50 million have created a window of opportunity to flourish web based economy in the country.

The contribution of web based economy can be measured taking the increase of the rate of teledensity into consideration. A recent survey revealed that the GDP of developing countries increased by 0.6 percent if the rate of connectivity or teledensity of those countries increased by 10 percent. In Bangladesh the teledensity was 30 percent in 2009

and in the first two years the teledensity increased to 47.08 percent. The government has fixed the target of increasing teledensity up to 90 percent by 2021. If the current trend of increasing the rate of teledensity continued, the ICT sector would play a vital role in the economy and then the internet based economy will be visible to all of us. The labour intensive economy will turn into knowledge based economy.

The Ministry of Post, Telecommunication and Information Technology has been playing important role to implement Digital Bangladesh, a brainchild of the Honourable Prime Minister Sheikh Hasina. The Ministry has two Divisions—Information and Communication Technology Division and Post & Telecommunication Division. Honourable Adviser to the Prime Minister Sajeeb Ahmed Wazed is putting valuable suggestions to make constructive decisions and undertake projects and programmes of the ministry. Honourable State Minister for Post and Telecommunication Division Begum Tarana Halim and State Minister for ICT Division Zunaid Ahmed Palak have been monitoring the activities of the two divisions and playing a dynamic role to make coordination of the tasks. This is for the first time the Ministry of Post, Telecommunication and Information Technology has taken steps to bring out a publication about the activities of these two divisions for 2014-15 financial year. The publication has been published in two languages - Bangla and English-in a same cover. I must thank all members of the publication committee for their tireless efforts to bring out the publication on time.

(Shyam Sunder Sikder)

The Ministry of Post, Telecommunication and Information Technology

The government took some appreciable initiatives to ensure smooth journey towards implementation of Digital Bangladesh. Establishment of a separate Ministry of Information and Technology is one of such initiatives. A separate Ministry of Information and Technology was established on December 4, 2011. Afterward, steps were taken to coordinate the activities of the Ministry of Post & Telecommunication and the Ministry of Information and Communication Technology. Because, the two ministries are closely related with each other. Many works on implementation of Digital Bangladesh are dependent on the joint decision of these two ministries. For this reason, two divisions have been created under the Ministry of Post, Telecommunication and Information Technology. One is Information and Communication Technology Division and other is Post & Telecommunication Division.

The associated and statutory organizations under the Information and Communication Technology Division are: Bangladesh Computer Council (BCC), Bangladesh Hi-tech Park Authority, Information and Communication Technology Directorate and Controller of Certifying Authority (CCA). The organizations under the Post & Telecommunication Division are: Bangladesh Post Office, Bangladesh Telecommunication Regulatory Commission (BTRC), Bangladesh Telecommunications Company Limited (BTCL), Bangladesh Submarine Cable Company Limited (BSCCL), Telephone Shilpa Sangstha Limited (TSS), Bangladesh Cable Silpha Sangstha (BCSL) and Teletalk Bangladesh.

The activities of the Post & Telecommunication Division and Information and Communication Technology Division for the 2014-15 financial year have been presented in the annual report in details. Along with it, a brief presentation has been made on the future plan. The activities of Information and Communication Technology Division have been presented here first.

Information and Communication Technology (ICT) Division

Statement of Budget and Expenditures of Information and Communication Technology Division for 2014-15 financial year.

Fiscal Year	Revenue budget (BDT in crores)	Development budget (BDT in crores)	Total allocation (BDT in crores
2014-15			

Laws and Polices formulated by ICT Division in the FY 2014-2015

Information and Communication Technology Policy, 2014
 It has become imperative to formulate an Information and Communication Technology Policy to conduct the journey of building Digital Bangladesh on the right path. In this perspective the government took initiative to formulate a people-oriented and development friendly ICT policy. The government formulated Information and Communication Technology (ICT) Policy-2009 with a view to relating the Information and Communication Technology with mainstream of the national development policy. The main characteristic of the ICT Policy-2009 is that specific action items have been determined for implementation on priority and more priority basis. It has been mentioned specifically in the policy that which ministry, division and office of the government would do which jobs. There are 103 priority action items and 38 action items are on the more priority list. As part of its continuity, the government took decision to make the ICT policy time-befitting and prepared a draft 'National Information and Communication Technology Policy' 2014' through amendment, inclusion and restructuring the ICT Policy 2009. As per the rule, the draft 'National Information and Communication Technology Policy' 2014' was sent to Cabinet Division for approval.

Information Security Policy Guideline, 2014
Information is the most valuable asset of an organization. Cyber attacks such as web-defacement, information disaster, information hacking, distributed denial of service, etc, are being launched because of lack of information security related procedures, weak and mismanaged security control system, operation of the system by semi-skilled employees and lack of specialized knowledge and skills. There is no sufficient preventive, protective, investigative and administrative security system to secure the digitized government information against these attacks. For this reason, a right security policy and implement strategy is imperative to prevent unauthorized entry into the digitized government

information hub. In this perspective, 'Information Security Policy Guideline' has been formulated. Bangla and English versions of it have been approved and gazette was published on April 6, 2014.

Publication of gazette of the amended policy relating to
IT Research Fellowship and stipend and innovative works
 The government has taken various steps for the development of ICT sector. As part of it, the government has taken initiative to introduce fellowship and stipend to encourage research and innovative works in the ICT sector. Along with it, decision was taken to give grant for innovative works. As part of it, the ICT Division formulated policy relating to Information Technology Research Fellowship & stipend and grants for innovative works (amended) Policy'2013. A gazette was published on June 15, 2014. The ICT Division awarded fellowship, stipend for carrying out research in ICT sector and grants for innovative works in 2015.

Organizations under the ICT Division

- Bangladesh Computer Council (BCC)
- Bangladesh Hi-tech Park Authority
- ICT Directorate
- Controller of Certifying Authority (CCA)

Significant activities of the associate and Statutory organizations under the ICT Division

Bangladesh Computer Council (BCC)
BCC has been playing important role in implementation of Digital Bangladesh. BCC built some infrastructures across the country in 2009 to expedite the implementation of the programmes taken by the government for building Digital Bangladesh. These infrastructures include setting up of 3,372 educational institutions (School, College, Madrassas), computer labs, lane in the offices of divisional commissioners and 64 deputy commissioners, installation of solar panels in information and service centres (it is now known as Union Digital Centre) in 13 unions having no power connection. Work on setting up computer labs in 372 educational institutions since 2013 under Virtual Desktop Computing Network Lab Installation Pilot Programme is now underway. With the completion of this work, the number of computer lab will reach to 3,544. Students, teacher and people in general are getting scope to be educated with practical computer knowledge by using the computer labs. BCC has also set up cyber centre in the country's 21 universities and university colleges to expand the use of computer at the university level.

National ICT internship is one of the programmes taken by the government for the development of human resources. The main objective of this programme is to improve the professional efficiency of computer manpower. A total of 3172 people in 13 batches have availed the internship so far. Under this programme, each internee is given Tk 8000/= allowance per month and of this amount, 60 percent is given by the government and remaining 40 percent is provided by service recipient organization. Besides, 34,000 skilled workers are being developed under Leveraging ICT for Growth, Employment and Governance (LICT) Project.

Significant activities of BCC in 2014-15

Since its inception, Bangladesh Computer Council (BCC) has taken various initiatives and implements those to make the country forward in the information and technology sector. The number of initiatives, implemented in the 2014-15, was higher than any other time in the past. Not only that the initiatives were implemented across the country so that information technology can be available to the people from all classes and groups. The activities of the BCC are expanded in the seven sectors. The activities are:

- Formulation of law, policy and regulation
- Improving capacity in the government levels
- Development of ICT infrastructure
- Training and Human Resource Development
- Development of ICT industry
- Conducting ICT related research and development activities
- Activities to develop ICT related awareness.

Project to strengthen BCC through infrastructural development
- The project will be completed in 2015
- The estimated cost of the project Tk 67.51 crore
- The extension of BCC building from Fifth floor to 11th floor has been completed
- The construction of 12th floor to 15th floor has been completed as per amended DPP.

State Minister for ICT Mr. Zunaid Ahmed Palak addressing a seminar on e-Learning at BCC auditorium
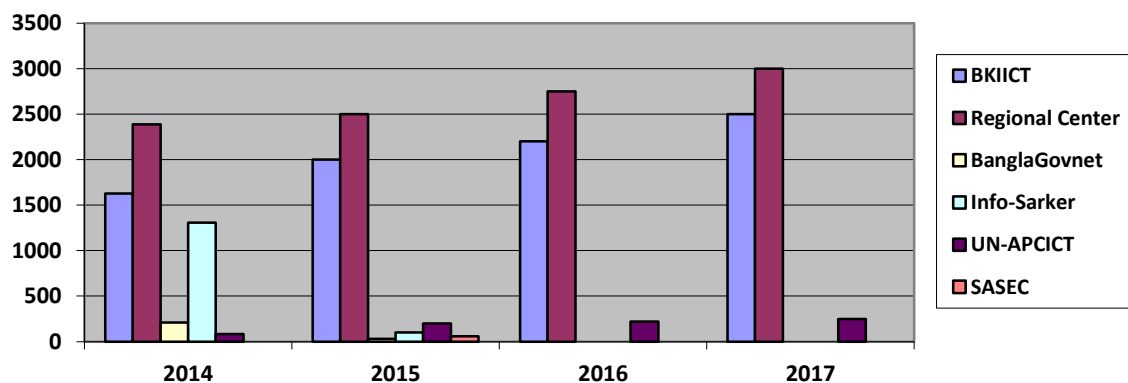
BKIICT

Bangladesh Korea Institute of ICT (BKIICT) was established in 2004 in the first floor of BCC to operate the training activities of the council. BKIICT has necessary infrastructure to conduct

training organized by BCC. The infrastructural development was carried out through the financial and technical support of the Korean government. There are six well-equipped labs, server room and other advantages are there. Each lab has 20-capacity which is equipped by modern computer. Each lab is under network and has internet facilities. Since inception, BCC Dhaka, Sylhet, Rajshahi, Khulna, Barishal, Chittagong and Faridpur centers so far gave training to 34,706 persons. Of them, 2897 persons were given training in 2014-15.

Human Resource Development (HRD) through BCC Regional Centre
Bangladesh Computer Council has set up its six centers in six divisional headquarters to expand the advantages of the ICT across the country. At first, Rajshahi center was established in 2000. Later, centers were set up in Barishal and Khulna in 2002, in Chittagong and Sylhet in 2003 and in Faridpur under Dhaka division in 2004. Each center has two computer labs and in the labs short-term training and six-month long diploma courses are being offered.

HRD Plan of BCC

So far training has been given to 1,440 people in customized course, 7,978 persons in government and non-government level. 297 disables persons, 7,890 master trainers, 112,189 students, 5,670 UISC entrepreneurs and 418 people in diploma and post graduate diploma courses. Total 2,898 people have completed internship in different ICT organisations. Moreover, 3,837 people (officials, employees and teachers of government/non-government/autonomous bodies) received Basic ICT training and 316 received master trainer training.

National Data Centre:
Bangladesh Computer Council has set up National Data Center as part of the development of the infrastructure. The data center was established in the head office of the BCC with a view to making the database technology-based one.

The commercial contract signing held between BCC and ZTE Consortium

The center is providing web-hosting, mail service and other e-service hosting to different ministries, divisions since 2011. Presently, government website, mail hosting service, Election Commission's database for National Identity Card are operated from the center. This center received status as tier-3 data center from the International Data Center certifying organization-EPI. The center was expanded in 2013-14 and its capacity of web-hosting has been increased. The present capacity of webhosting is 750 terabyte.

Bangla Language

The Bangladesh Computer Council has taken initiative to determine the standard of Bangla alphabet and sign with a view to expanding Bangla language in the computer. Already the existing code set for bangle alphabet (BDS 1520: 2000) has been updated and announced new standard BDS 1520:2011.

- The standard of mobile Bangla key pad BDS 1834:2011 has been upgraded to use Bangla in mobile phone.
- The standard will help to expand the use of Bangla language in the information technology including Bangla language based software development, mobile application development, SMS in Bangla.
- A fresh initiative has been taken to expand Bangla Language in the computer world. This include fixation of sorting order, improvement of Bangla font converter, Text to Speech and Speech to Text Conversion tools, Bangla Corpus, Bangla spell check and other tools like this.

Development of BanglagovNet Project

State Ministre for ICT Mr. Zunaid Ahmed Palak, MP addressing a seminar on BanglagovNet Project

Développent of National Infra Network for Bangladesh Government (BanglagovNet) Project is one of the important project of BCC. The major progresses of the project includes :

- The project has already been completed. The project period was from April 2010 to June 2015.
- The estimated cost of the project was Tk 307.41 crore
- All government offices brought under one network under the project. Establishment of network among 58 ministries/departments, 223 important offices in Dhaka under ministries and departments, 64 districts and at least 64 offices of upazila Nirbahi officers has been so far connected.
- Under the project one assistant programmer has been recruited in ICT centre at the office of each DC office. The assistant programmers are rendering the service in their respective districts.
- With the implementation BanglaGovNet Project, the use of ICT is enhancing efficiency, accountability and transparency in the government administration as well as the ICT use reducing wastage of resources, expediting planning and improving the service quality of the administration.

National ICT Infra Network for Bangladesh
Government Phase-II (Info-Sarkar) Project
In continuation of BanglaGovNet project, the Info-Government Phase-II Project has been taken for connecting the Upazila-level government offices with the same network.

- The estimated cost of the project is Tk 1255.92 crore. The project period is from July 2013 to December 2015.
- Under the project, the data centre in BCC has been expanded.
- Wi-Fi has been installed in BCC Bhaban and Bangladesh Secretariat.
- Equipment have been delivered to set up specialized labs in 15 public universities. In this regard, local training programmes have been completed as well.
- A total of 24,907 tablets have been distributed among the government officials. And government cloud platform was built.
- Some 18,130 connectivity to be installed in district and upazila level offices. Of them, the work for installing connectivity of 13,000 offices has already been completed.
- To set up the Container Disaster Recovery Centre and 800 Video Conferencing System inside the Jessore Software Technology Park is now underway.

Prime Minister's ICT Affairs Adviser Sajeeb Ahmed Wazed addressing a function organised at ICT Division to distribute Tab for government officials

Capacity building on IT Engineers
Examination (ITEE) Management Project
Capacity Building on IT Engineers Examination (ITEE) Management Project is now being implemented for building capacity of the IT manpower and making their efficiency to the international standard. The project began in 2012 with the financial and technical assistance of Japan International Co-operation Agency (JICA).

- Estimated cost of the project is Tk 31.90 crore. Tenure is from December 2012 to December 2015.
- 1579 examinees have so far given training and 43 persons have been trained as mater trainer.
- Seminars have been organised in the country's 29 universities.

- Information Technology Engineers Examination (ITEE) has been introduced in the country for the first time with support from Japan's government to judge the professional skills of IT professionals.
- ITEE is held in April and October every year to judge the knowledge and skills of IT professional and graduates.
- The ITEE certificate is mutually recognized in Asia's Japan, India, China, Taiwan, Korea Philippine, Thailand, Myanmar, Mongolia and Malaysia.
- As part of this success Japan's Information Technology Promotion Agency (IPA) evaluates the examinations of Bangladesh IT engineers. Bangladesh is made member of Information Technology Professional Examination Council (ITPEC) on September 1, 2014.
- ITPEC membership is achieved through IT engineers' examination. Japan's economy, trade and industry ministry introduced this examination in 1969 for the first time. The examination has been introduced to give recognition to IT professionals and graduates and meet the requirement of IT industry through judging their knowledge and skills. At present around 5-6 lakh IT professionals and graduates appear at this examination in Japan every year.

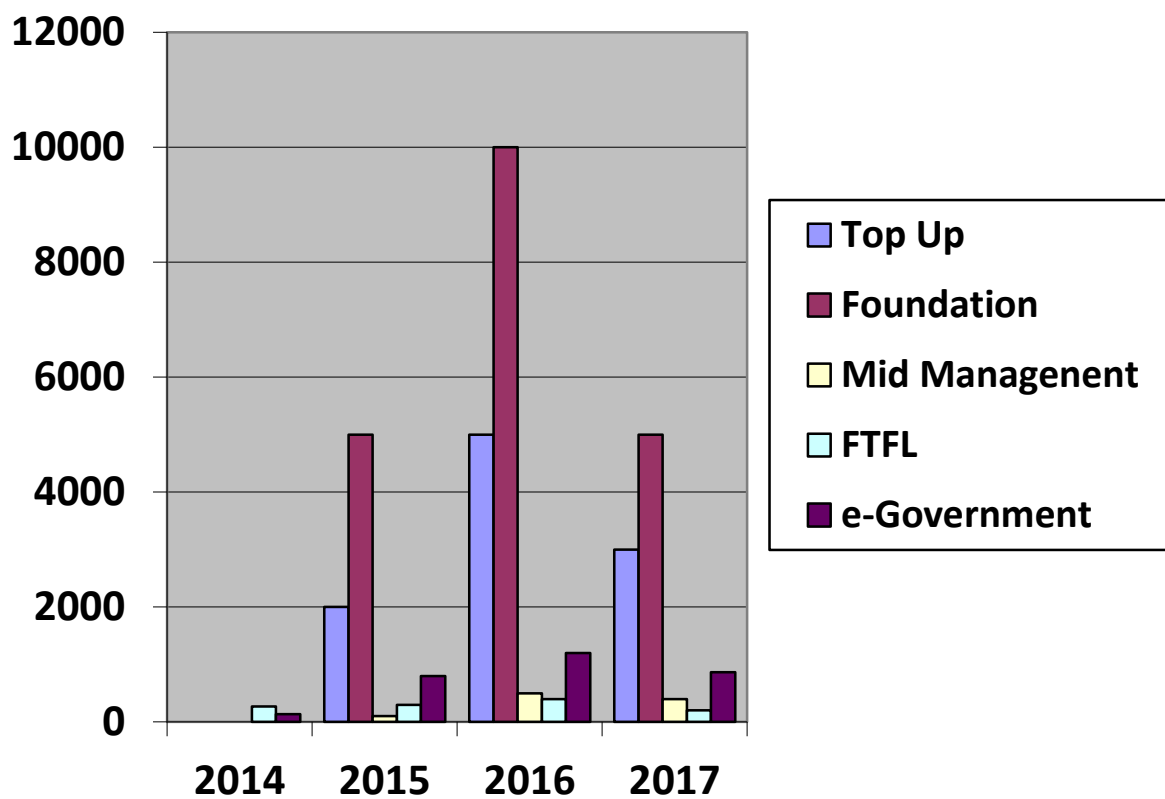## Leveraging ICT for Growth, Employment and Governance (LICT) Project

Leveraging ICT for Growth, Employment and Governance Project started its journey in 2013 with a view to developing skilled manpower, developing capacity of the government officials in e-governance and ensuring cyber security, expansion of the date centre of Bangladesh Computer Council (BCC) and implementation of some important supportive initiatives for building Digital Bangladesh. Implementation of different components of five-year project is progressing first. And some visible progresses have been over the last one year, which are expected to make significant contribution in flourishing information and communication technology. The main component of the LICT project is to develop 34,000 human resources through imparting world class training suitable to twenty first century. 34,000 human resources are being developed through FTFL training, top-up IT training and foundation skills. The World Bank is providing US$ 70 million in loan for this project which is considered as supportive for national economic growth and increasing jobs for youths. Bangladesh Computer Council (BCC) under the ministry of Information and Communication Technology has been implementing the project.

The youngsters who were selected for participating training in the third batch under FTFL Training Program posed for photographs with State Minister for ICT Mr. Zunaid Ahmed Palak, MP

HR Development trends of LICT Project FTFL Training Programme

- FTFL programme has been launched to develop the country's youths having

	Top Up
	Foundation
	Mid Managenent
	FTFL
	e-Government

(chart x-axis: 2014, 2015, 2016, 2017; y-axis: 0 to 12000)

graduate and post graduate level as IT leader through imparting them world class training as part developing them as skilled manpower.

- LICT is the first project in the country that introduces online competitive examinations with participation of a large number of graduate and post graduate level examinees. In the first batch 6,848 people completed registration online.

- Examinations were held online in the BCC's computer labs in the country's seven divisional cities on May 7, 2014. Finally 148 people were selected.

- The youths were selected for higher training generally in two types of programme. These are: software development and business process outsourcing (BPO), Post graduates in science and business studies are given priority. But candidates having proficiency in English are selected for the two programmes.

- Similarly, 120 out of 199 examinees were finally selected for the second batch. Their one month residential training in BIRD was completed from October 28 to November 27, 2014. Three-month training is now going on in Dhaka.

- 132 examinees have been selected for the third batch. Three-month training is now going on in BIRD of Comilla.

Top-up IT Training for 10000 graduates
- UK-based organization Ernst and Young has been appointed to provide top-up IT training to 10000 IT and science graduates.
- Ernst and Young meanwhile has started its training programmes. They have provided top-up training to 800 university students so far of some universities as part of giving training to 10000 Computer Science, computer Science and Engineering and science graduates.
- Earlier, a workshop was organized with the assistance of University Grants Commission (UGC) with the participation of teachers from 34 public, 26 private universities and 15 Institute of Information and Technology (IIT). Some 150 teachers participated in it held at the auditorium of the University Grants Commission. The workshop discussed in details how the teachers will give training following training curriculum and manual prepared by international consultation firm.

Foundation Skills Training for 20,000 youths
- Ernst and Young has started its activities for giving Foundation Skills Training to 20000 youths keeping the global demand into consideration.
- They have formulated a standard curriculum for training
- Master Trainer was created for training. 700 youths has been given foundation skills training so far

Training for mid-level officials of IT firm
- Training has been given to officials of IT firms who deal with management, accounting and administrative activities with a view to taking the IT industry forward as well as to strengthen Bangladesh's position in the competitive global market.
- Appointing a world-famous organization for training is under process
- To involve famous educational institutions like Institute of Business Administration (IBA) are under consideration.
-

Outreach programme for Chief Executive of IT firms and youths
LICT project will organize out-reach programme to make CEOs of IT firms familiar with the activities of foreign IT firms.

- To appoint an experienced firm in this regard through competitive tender invitation is underway.
- Through it, a connection will be created with famous IT firms, on the other, country's IT firms will get scope to flourish their respective firms being introduced with the activities of the foreign firms. It will increase export of ICT products.

IT/ITES Industry Promotion
- E-Zen was appointed to conduct baseline survey for IT/ITES industry. They completed the survey and submitted it.
- US-based Tholons and Aon Hewitt has been appointed for Strategy planning and statistics for IT and ITES.

- Tholons and Aon Hewitt and Philippine-based Team Asia have been appointed for marketing of Bangladesh's IT and ITES industry service.
- Tholons and Aon Hewitt, Team Asia and LICT project jointly organized a seminar on Branding Bangladesh on June 27, 2015. Preparation is being taken to hold road show and seminar abroad.

E-government Technology Foundation
- LICT project has taken initiative to coordinate among the online services of government organizations. Lack of inter-connectivity, inter-operability and coordination among the government agencies, same data was used using different format. Information can't be inter-operatable lack of standardization. For the reason, initiative has been taken for inter-connectivity, interoperability for the automation of the government data.

Government officials who participated in a training program on Cyber Security posed for a photograph

- As part of E-government Technology Foundation, Ernst and Young is working to build a National Enterprise Architecture to ensure interoperability of online-based information and data.
- Total 2500 government officials are receiving training on e-government activities. Presently, 85 officials are receiving training from National University of Singapore, ESI Training Institute of New Delhi and BCC on cyber security.
- Data centre in BCC has been expanded. The work of feasibility study for building Disaster Recovery site in Jessore Software Technology Park and Development of Information Security policies, standards, National Computer Incident Response Team is in progress.
- Norway-based Cyber Security Consultation firm NRDCS has been appointed for the protection of government information and services.

1013   Digital Centers in the off-grid area
- In November 11, 2010 some 4501 Union Information Service Centre were established with modern facility. Later it was renamed as Union Digital Centre. Presently there are 4547 centres across the country. Prime Minister Sheikh Hasina

inaugurated it in her office talking with UNDP administrator and Former Prime Minister of New Zealand Helen Clark who were at remote island of Char Kukri-Mukri in Bhola through video call. Among the centres Bangladesh Computer Council established 1013 in the areas which are not under electricity coverage.

200 hundred modern UISCs in hard-to-reach areas

- Two hundred Union Digital Centres (UDC) have been set up in hard-to-reach areas under Empowering Rural Communities-reaching the unreached: Union Information and Service Centre (UISC) Project. Saarc Development Fund (SDF) financed the project. The project has been implementing simultaneously in Bhutan, Maldives and Nepal apart from Bangladesh.

Union Digital Center (UDC) of a remote area

Progress of the project

- The project titled 'Empowering Rural Communities-reaching the unreached : Union Information and Service Center (UISC) Project started in November 2011 financed by Saarc Development Fund (SDF) with a view to setting up Union Information and Service Center (UISC) at two hundred unions which are hard-to-reach and without electricity.
- The project was completed within the stipulated time of December 2014 at a cost of 9.43 crore.
- Necessary information, 50 different types of government forms, birth registration form, results of public examinations and service related to agriculture, health and education are available online in the UISCs situated in the hard-to-reach area.
- Each UISC on average earn more than tk 10,000 a month. A big share of the income comes from computer training. The UISCs, situated in hard-to-reach area, are creating employment opportunities by providing training to the educated youths of the village area.
- Each center has two laptops, one printer, one scanner, one set furniture, two-wireless modem with tow-years bandwidth charge, one multimedia projector and solar panel for uninterrupted power supply. The UISCs create employment scope for 400 entrepreneurs.
- The project set an example by completing the project with the fixed budget within the scheduled time.
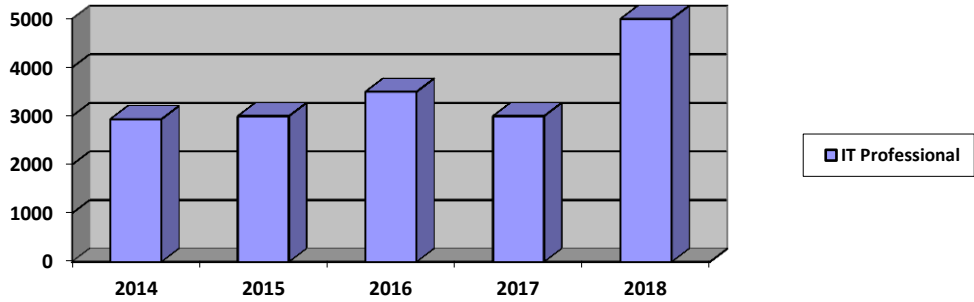
Bangladesh Hi-Tech Park Authority

Bangladesh Hi-tech Park Authority was established in 2010 under the ICT Division more than a decade after the government took decision in this regard. The main goals of the Hi-tech Park was to ensure significant contribution of the ICT sector to the national economic growth, to build the world-class environment for the industry sector and new business, to improve the indigenous technological capacity for the development of local industry and to enter in the international market exporting technology related items. The Board of Investment in its 12th board meeting in 1999, presided over by the then Prime Minister Sheikh Hasina, had decided to establish a Hi-tech park in Kaliakoir upazila under Gazipur district. But when the government has started implementing a Digital Bangladesh in 2009, it decided to set up Hi-tech and software parks and IT villages in the divisional and district towns alongside Dhaka.

State Minister for Power, Energy and Mineral Resources Minister Mr. Nasrul Hamid, MP and State Minister for ICT Mr. Zunaid Ahmed Palak, MP attended a signing ceremony between Bangladesh Hi-Tech Park Authority and Summit Technopolis for development of Block 2 and 5 of Kaliakoir Hi-Tech Park held at hotel Radisson on 28 May 2015
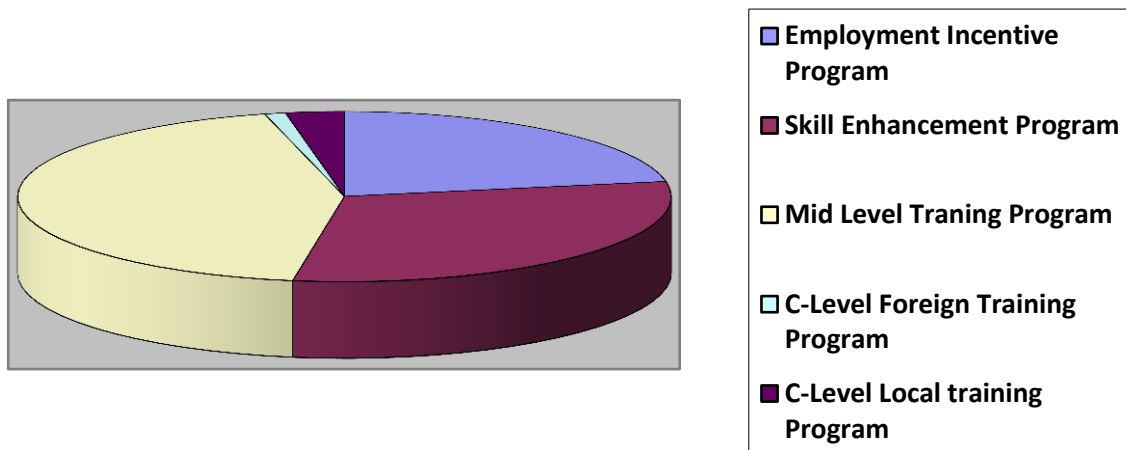
HRD Future Plan of BHTPA

Kaliakoir Hi-tech Park

Kaliakoir Hi-tech Park is the first ever state-owned Hi-tech Park in Bangladesh, set up on 232 acres of land at Kaliakoir upazilla in Gazipur district. The 232-acre of land was divided into five blocks to attract both local and foreign investment here. The Hi-tech Park Authority signed an agreement with Summit Technopolis Limited on May 28, 2015 for the infrastructural development of Block 2 and 5. The Hi-tech Park Authority inked another agreement with Fiber @home Consortium Bangladesh Technocity on August 11, 2015 for the development of the third block. Besides, the appointment of developer firms is under process to build infrastructures of the remaining blocks. Some 70,000 jobs will be created once the park is established.

Progress of implementation of Human Resources Development by BHTPA

Legend:
- Employment Incentive Program
- Skill Enhancement Program
- Mid Level Traning Program
- C-Level Foreign Training Program
- C-Level Local training Program

Support to Development of Kaliakair Hi-tech project
The estimated cost of the project is Tk 236.99 crore. The project period is January 2013 to June 2016. Construction of an internal road stretched (2225 meter) under the project has been completed. Moreover, another alternative road (2696 metres in length) has been constructed for the people living surrounding the park.

Jessore Software Technology Park
Jessore Software Technology Park is situated on 9.18 acre of land. The activities related to software development, including data recovery centre will be operated from here. The structural development specially multi-tenant building, sub-station building, approach road construction, construction of 33KVA sub-station, 33KVA line, fiber optic line, dormitory building, construction of canteen and MP theatre is going on in full swing. Some 20,000 people will be directly employed once the park will go in operation.

State Minister for ICT Mr. Zunaid Ahmed Palak, MP addressing the inaugural function marking setting up a Software Testing and Quality Assurance Lab held at the auditorium of the university

Setting up IT village/Hi-tech park/Software Technology Park in divisional level:
Initiative has been taken to set up one IT village/Hi-Tech Park in divisional level to ensure area-wise development. It was also finalized that Varendra Silicon City would be set up on 34.56 acre of land in Rajshahi, Sylhet Electronic City on 162.83 acre of land in Sylhet and Mohakhali IT village on 47 acre of land at Mohakhali in Dhaka. To this end, a programme titled 'Feasibility study to set up IT villages in divisional level' has been taken. Under the project feasibility study has been conducted in Rajshahi, Sylhet, Jessore, Mohakhali and Barishal. Besides, feasibility study in Chittagong and Rangpur is underway.

Declaration of private technology park
Accenture Communications Infrastructure Solution Ltd. Ges Augmedix BD Ltd has been declared as private software technology park under the guidelines of announcing private software technology park.

Development of Human Resources

- Mid Level Training Program, Skill Enhancement Training Program was taken under Support to Development of Kaliakair Hi-tech park project to create skilled manpower in IT and ITES sectors. The training of 2,852 have so far completed and 1,223 persons have been given job under Employment Incentive Program.

- Some 100 graduates received advanced training from Infosys Technologies of Mysore in India

Directorate of Information and Communication Technology

The government is giving special importance to the ICT sector with a view to building a Digital Bangladesh in line with the Vision-2021. In its continuation, the government has formed a separate ministry named Information and Communication Technology. The government formed the Directorate of Information and Communication Technology under the ministry on July 31 in 2013. The goal for formation of the directorate is to provide technical assistance to the massive application and use of ICT in district, upazila and union level, reach the advantages of ICT in marginal level, maintain structural security, maintenance, implementation, expansion, quality control and increase the capacity of the computer professionals.

Functions of the Directorate of Information and Communication Technology

- Ensure the use and application of ICT in all levels of the government and coordinate to this end.
- Provide assistance to develop proper ICT infrastructure in the grassroots, and to maintain and support it.
- Recruit people with professional experience and conduct their promotion, posting and transfer in all government offices.
- Transfer technical and specialized knowledge on information technology in all levels.
- Formulation and implementation of policy to ensure equality in manpower in government organisations.
- Formulation and implementation of policy to ensure equality regarding information technology manpower.
- Take endeavor to serve people through electronic system and to collect information, dissemination and conduct research in this regard.
- Ensure standard and interoperability of equipment.
- Assimilation of modern technology in all levels, conduct research and development and provide assistance
- Evaluate meritorious, experienced, competent officials/employees of the directorate, pay due respect and uphold their interest

State Minister for ICT Mr. Zunaid Ahmed Palak, MP addressing a function organised by ICT Directorate marking the Victory Day 2014

Activities of the Directorate of Information and Communication Technology in 2014-15 FY:

- Office furniture have been procured for the head office of the newly formed directorate to run official activities properly.
- Four Furniture for each 64 district offices and 488 upazilas have been procured from the Public Works Department and distributed to those offices.
- One microbus has been procured this year for the administrative purpose apart from two jeep cars and one microbus procured earlier.
- The Service Rule-2015 for gazetted and non-gazetted officials and employees under the directorate is approved by the honorable President. The rule will soon be published in gazette.
- Consent has been taken from honorable Prime Minister, the Public Administration ministry and the Finance Ministry to transfer the job of two programmers and 198 asistant programmers in the revenue sector who worked ' Basic ICT Skill Transfer upto Upazila Level' and Banglanet projects under the directorate. The manpower would be shifted to revenue sector soon.
- The activities to implement the project 'Computer and Language Training Lab in educational institutions across the country' is underway. Under the project 2,000 computer labs and 64 Language Training Labs will be established in 64 districts. If the project is implemented students of the grassroots will get scope for computer training

- 1000 teachers will be turned into language trainers through training in nine languages (English, French, Spanish, German, Japanese, Korean, Russian, Arabic and Chinese) for language labs
- Each lab will have internet facilities
- A seminar titled 'Info Government Phase-3 project-What we want' was organized and in the light of the recommendations, draft commercial agreement has been signed with the representative of Chinese government
- A workshop titled 'Role of field administration in implementing e-governance' was organized.

Directorate's Work Plan for 2015-'16 FY

- To transfer two programmers and 198 assistant programmers of the two recently concluded projects –'Basic ICT Skill Transfer up to Upazila Level' and 'BanglaGovNet' under ICT Division— in the revenue department of the Directorate of Information & Communication Technology, and to give them postings in its head office, and district and upazila-level.
- To appoint more manpower to the remaining 554 vacant posts for district and upazila offices of ICT Directorate.

- To procure seven jeep cars for the head office and district offices and 195 motor cycle for upazila offices to facilitate the administrative activities.

- The land ministry has sent letter asking to receive allocated lands for construction of building for its head office, district and upazila offices.

- To arrange seminar on different contemporary and pertinent issues, including responsibility of the field-level officials, the national integrity strategy, e-governance challenges and ways to overcome, role of ICT Directorate in disaster management, role of ICT Directorate in PPP, Asia Pacific Information Super Highway and our prospects.

- To conduct training for the programmers and assistant programmers who will get new posting. And to sign a Memorandum of Understanding in this regard.

- To arrange training on office management and such other issues related to office.

- To introduce fully e-filing system in the head office of directorate and its all upazila, district offices.

- Hopefully, the 'Establishment of Computer and Language Training Lab in Educational Institutions all over the Country' Project will successfully be completed by December 2016.

- To get the Planning Commission's endorsement for the proposed 'Development of National ICT Infra-3 Network for Bangladesh Government Phase (Info Government Phase-III)' following formulation of Development of Project Proposal (DPP).

Controller of Certifying Authorities (CCA):

The office of Controller of Certifying Authorities (CCA) has been set up as attached office under the Information & Communication Division in line with the section 18 of the ICT Act 2006 (later amended in 2013). The CCA office was established in order to introduce digital signature in the country as part of implementation of the National ICT Policy 2009 and the ICT Act.

Contract signing between Controller of Certifying Authorities (CCA) and Dohatech held on digital signature

Successes in 2014-'15 financial Year

- Six private organisations were given licenses as certifying authorities (CA). But five organisations received the CA certificates from the CCA office after completing their own technical process.

- The five CA organisations now provide digital signature certificate and render related services to different government and non-government organisations and interested people.

- The license of the remaining company was cancelled as it failed to start as CA organisation successfully. But Tk 25 lakh, collected from the company as license fee, was deposited in the government exchequer.

- Different government and non-government agencies and banks have already started the use of digital signatures in their respective websites and headquarters.

- Bangladesh Computer Council was awarded the license in January 2014 to work as CA organisation in the government level. Through the council, the digital signature were distributed among government officials of the various ministries/departments/agencies, district and upazila administrations and the officials were trained up on digital signatures under the projects taken by the ICT Division.

- A Cyber Security Cell was set up with 20 staffs in the Bangladesh Computer Council. To establish a separate cyber security agency, organogram, recruitment rules and business were formulated and sent to the higher authorities for approval. Besides, cyber security strategic guidelines and information security policy were prepared.

Work Plan for 2015-16 financial year:

- To start journey of the Cyber Security Cell and to complete recruitment in the cell. To establish the cyber forensic lab to analysing data and evidence of cybercrimes with a view to curbing the cybercrimes.

- To promote the use of digital signature in various organisations including Bangladesh Bank.

Events, ongoing projects and programmes of ICT Division

Digital World 2015

The Digital World is now the biggest event in the ICT sector of Bangladesh. The Bangladesh Computer Council (BCC) and a non-government organisation 'Bangladesh Association of Software Information and Services (BASIS)' has jointly been organising the country's largest digital exhibition 'the Digital World' since 2014. This year the four-day digital world 2015 kicked off on February 9 last at Bangabandhu International Conference Centre in the capital. Prime Minister Sheikh Hasina inaugurated the exhibition.

Hon'ble Prime Minister Sheikh Hasina visited stall at Digital World 2015

Expressing her hope that the future generation having science and technology knowledge will move the country toward further progress, Prime Minister Sheikh Hasina said Bangladesh will turn into a middle-income country by 2021 and it will become one of the developed countries in the South Asia by 2041.

The Prime Minister said the government is working to make the new generation befitting with the new technology. To achieve the goal, the ICT education has been made compulsory in the secondary level.

"Our goal is to make available the use of technology for improving the living standard of the people and build a "technology divide"-free country irrespective of the rich and the poor, the literate and illiterate," she said.

To achieve the goal, she said, her government has been working relentlessly to ensure optimum utilization of mediums like mobile phones, radio, television and internet side by side with computer.

She said they have broken the monopoly in mobile phone sector. As a result the common people now get benefits from mobile phone and it was possible to reach the new technology to them at low prices.

Mentioning that the use of internet has spread even in the country's remote areas, Sheikh Hasina said farmers take suggestions from experts in case of facing problems during cultivating crops in the land. The Upazila Health Complexes are now getting suggestions from expert doctors taking advantage of internet-based communication service, she noted.

Congressman of the United States Mike Honda, known as icon of Silicon Valley, extolled Prime Minister Sheikh Hasina for her relentless efforts to build a Digital Bangladesh. In a video message sent for the Digital World 2015, Mike Honda said the entire world has made a revolution in the ICT sector. Many countries have become as economic power exploiting the ICT. Bangladesh is also moving forward equally.

Prime Minister's ICT Adviser Sajeeb Wazed Joy presented the keynote paper in the inaugural function of the Digital World 2015.

State Minister for ICT Division Zunaid Ahmed Palak, MP and ICT Division Secretary Shyam Sunder Sikder also spoke on the occasion.

Eighty-five IT experts alongside officials, policymakers, business leaders and entrepreneurs from 25 countries attended 24 seminars, nine conferences and 11 training workshop in the Digital World 2015, the country's largest ICT exposition.

Prime Minister's ICT Adviser Sajeeb Wazed Joy said the IT sector would exceed the RMG sector in terms of foreign currency earnings in the future.

Joy also said the government introduced the 3G technology and will roll out 4G technology soon. Some 18,000 people have already been given IT training in the last one year. And 50,000 more people will be given the training in the future for making them skilled on outsourcing. Now Bangladesh stands in the third position in the outsourcing sector, he said.

ICT EXPO 2015

Honourable President Abdul Hamid inaugurated the ICT EXPO 2015

Hon'ble President Mohammad Abdul Hamid inaugurated the three-day Bangladesh ICT Expo 2015, the largest showcasing of hardware technology, at Bangabandhu International Conference Center (BICC) in the capital on 15 June 2015.

Speaking on the occasion, President Abdul Hamid said BCS ICT Expo 2015 will expedite the efforts to promote IT sector in the country by exhibiting new innovations on ICT.

"The government is relentlessly working to build a middle-income country by 2021 by materializing the dream of "Digital Bangladesh."

State Minister for ICT Zunaid Ahmed Palak said "The main target of the expo is to represent the sustainable development of flourishing IT industry in the country. We design our exposition in a different way to bring new dimension in Bangladesh's ICT sector."

ICT Division and Bangladesh Computer Samity (BCS), the apex trade body of technology industry jointly organised the ICT Expo'2015.

Ten seminars on specific issues including Cloud Computing, Digital Marketing, E-Health, Hardware: Challenges and Way forward, Outsourcing, Entrepreneurship, Cyber Security were held at the event.

**Financial assistance for IT research fellowship
and scholarship and Innovations:**

The ICT Division formulated the ICT Fellowship and Donation (Amendment) Policy 2013 for assisting the research fellowship & scholarship and innovation in the ICT sector. The policy was published in a gazette on June 15, 2014. In 2015, a total of 41 persons were given the donation for their research fellowship and scholarship, and innovation works. The amount of donation is Tk 2 crore 26 lakh 31,300 —-TK 78,58,300 in 2014 and Tk 1,57,73,000 in 2015.

Incentive for Programmers:

The ICT division promotes students to learn programming at school level. An event was held at Bangladesh Computer Council auditorium on April 10, 2015 to honour talented programmers. In the event, the Bangladeshi programmers, who participated in the world final of ACM-IPC and regional competitions, were honoured and provided incentives.

All competitors and coaches were given crests as honour memorial. Each competitors of 2015 was also provided with Tk 50,000 as incentives.

State Minister for ICT distributing cheque to the talented programmers

State Minister for ICT Division Zunaid Ahmed Palak said Bangladesh needs to make its programming sector as an industry to produce the world-class programmers as well as a huge number of programmers. The process to build a Digital Bangladesh will be expedited with a large number of programmers. So, the government will extend its all sorts of

cooperation for programmers so that they can be skilled in programming. The government will continue providing incentives, donation and honorarium for programmers from now.

Emphasizing on programmer's industriousness and good command in English Language, the state minister said programming contest is a co-curriculum activity. Quick and flawless coding, capacity to solve complex problem, patience, good team-work, capacity to solve problem with cool-head are prerequisites to be successful as a programmer. Big companies like Google, facebook, Microsoft are recruiting youths having good command over programming. We have to utilize the scope. We have extended our helping hands so that you can build good career and our cooperation will be continued."

The ICT division gave five lakhs taka with necessary sponsorship to the finalist team participated in 27th International Olympiad of Informatics held from July 26 last to August 2 in Kazakhstan.

ICT division secretary Shyam Sunder Sikder presided over the programme which was addressed, among others, by Shahjalal University of Engineering and Technology Professor Dr Zafar Iqbal and BUET's Computer Science Department professor Dr Mohamamd Kaykobad.

Sasec Information Highway Project (Bangladesh's part)

ICT division under the Posts, Telecommunication and ICT Ministry successfully implemented Sasec Information Highway Project (Bangladesh Part) at cost of Tk 28.61 crore, which was financed by the Asian Development Bank (ADB) and the Government of Bangladesh. The ICT division has successfully completed the project (July 2001 to June 2014) before the expiry of period of ADB loan agreement. The aim of the project was to establish and use strong communication network under Sasec countries.

Work-done under the project

- 56-kilometre fresh optical fiber cable line of new 48 core has been installed under the project from BTCL Panchagarh exchange to Banglabandha zero point of Tentulia upazila with a view to setting up sub-regional connectivity.

- Transmission equipments have been set up in BTCL Moghbazar (Dhaka), Panchagarh, Thakurgaon, Chuadanga, Meherpur offices to make the STM-16 connection from Mogbazar BTCL office to Silliguri of India via Panchagarh and Kolkata more strengthened and effective.

- The two core of optical fiber connection from BTCL Moghbazar office to Bangladesh Computer Council, Agargaon has also been ensured. Another optical fiber from Silliguri will be connected with the optical fiber, installed under the project, at Banglabandha Zero point once Indian government completed its preparation in this regard.

- A new network will be introduced soon from Bangladesh to Sasec countries via India to make available ICT's facilities in the alternative way of submarine cable. As a result, it is will be easy to distribute internet capacity among Nepal and Bhutan and a scope will be created for Bangladesh to earn extra revenue.

- Under the project, upazila Information and Service Center (community e-center) has been set up in 30 upazilas across the country apart from ensuring sub-regional connectivity among Sasec countries.

- Three laptops, three desktops, photocopier, color and black-white printer, scanner, digital camera, Six USB modems to communicate during crisis period, mobile phone and multimedia projector and necessary furniture for training have been supplied to each center/ community e-center.

- Three-KVA powered solar system has been installed to the centers to ensure uninterrupted power connection.

- 2 mbps broadband facilities have been arranged from BTCL offices to the centers to related upazilas by installing 24 core optical fiber and related equipments.

- Information services have been extended to the doorsteps of the rural people and a scope has been created for young people, both male and female, by recruiting them as entrepreneur in every information and service center. The implementation of the both component has expedited the government's goal to build a Digital Bangladesh.

A upazila Information and Service Center

Learning and Earning Development Project

Information and Communication Technology ministry introduced an exceptional programme at the beginning of the year 2013. Learning and Earning Development Project was introduced to pave the way of employment for huge educated youths utilizing the numerous possibilities of information technology. A programe was undertaken named Learning and Earning before the project. The overall situation of the project is highlighted in the below

- Learning and Earning Development Project was undertaken with a view to create freelancers in the district and upazila level.
- Fifty Five thousands freelancers will be created. As part of making the freelancers, now a programme is going on to train up 20,000 women on IT and outsourcing.

- Meanwhile, the training programme in 64 organizations in 64 districts is going on.

- The students are receiving training on internet web design, graphic design, search engine optimization, social media marketing, theme design, programming, website management, link building, data entry typing, article or blog writing under the project.

Bari Bose Boro Lok (Becoming Rich Sitting at Home)

- Bari Bose Boro Lok is a programme undertaken by ICT division to make people self-reliant by increasing competency in IT. The government has undertaken the project to create employment opportunities by providing training to the rural educated youths.

- The project is creating opportunity for the educated but unemployed people through receiving training, on the other, paving way for the youth to be self-reliant.

- The idea of outsourcing is conveying door to door in the grassroots.

- Competency in English Language as well as skill to communicate with foreigners is being developed.

- The path is being widened to create skilled manpower in IT in every union.

- The characteristics of the programme is 70 percent of the trained manpower will be women. The project work was started in January 2012. Total project cost 669.78 crore was estimated. Total 26,000 freelancers will be created.

Freelancer to Entrepreneur Development Programme

- Freelancer to Entrepreneur Development Programme is introduced on February 1 in 2014 to develop freelancers as entrepreneur aiming to create employment in the ICT sector as well as to make people self-reliant.

- The total cost of the project is 6.27 crore. A freelancer is receiving training on software development, web design, development of search engine optimization and online marketing with a view to building him as complete entrepreneur so that they can contribute to make new freelancers apart from working as open professional.

- These ICT entrepreneurs are developed by providing training to the trained freelancers so that they can work with other freelancers comprising a team.

- Idea is given on how a freelancer will turn into entrepreneur through the Freelancer to Entrepreneur Development Programme.

Mobile apps development programme

Mobile apps are being made to reach the government's service in the hands of the people. As per a statistics in 2012, some 1.2 billion people across the world are using mobile apps and increasing every year with a 29.8 percent growth. ICT experts think the country's ICT industry is flourishing. Mobile application is such a component that can make the industry sector to make the indstry forward. It is matter of hope that the domination of google android phone is increasing and there is possibility of having a huge market of mobile application. The project started its journey in 2012. The overall situation of implementing the project is as below -

1. Freelancer to entrepreneur programme was introduced to make 500 android-based bangle language mobile apps which are appropriate in the context of Bangladesh. Among the apps, 300 ones are on government's ministries and agencies information and services and rest are on creative ideas received through competition.

2. 500 students of university level from seven divisions were given three-month detailed training on the mobile apps development. The selected candidates is receiving training from the trainers who are experienced in design development and testing.

3. In the training, people who received training from the programme to enhance awareness and competency in developing mobile application in national level implemented by the ministry are getting priority.

4. 25 mobile apps are inaugurated so far on different information and service.

5. 500 mobile apps have already been launched.

Innovation programme for Green Building Programme

1. Innovation programme for Green Building Programme was introduced in January, 2014 with a view to preventing minimum 30 percent wastage of electricity, gas and water in the household

2. Green Building is a system of which various household items-electric fan, TV, fridge, cooker, heater, CD player, Home Theater, oven, Gas, Air-conditioned, supply-water, CCTV camera, can be controlled from inside house or far from it.

3. We pass busy time to keep pace with the age of Information Technology. For the reason, we forget to switch off the house-hold appliances. Through the Green Building System we can switch on/off the appliances in time though wire or wireless (network, Bluetooth, wi-fi, internet). As a result, the security of a house would be more secured which is very important in the present context. Moreover, the system can be used to know about an unknown place.

4. The present world is becoming depending on information technology. Without the use of information technology, the development of the standard can't be achieved.

Programme for Conversion of Primary Education
Contents into Interactive Multi-Media Digital Version

1. The main goal of the programme is to make interactive multimedia digital content from class-I to class-V on mathematics, science and environment/Bangladesh and contemporary world in the light of NCTB textbooks.
2. The programme has been being implemented since 2014.
3. Textbooks contents will be presented to the students in an easy and attractive way in the context of Bangladesh by adding various pictures, chart, diagram, audio, video and multimedia materials.
4. Compilation of Digital Education Content: There will be an open website/cloud from where people can download education content. The content to be prepared under the project will be mobile enabled one. Moreover, 20,000 primary schools across the country will get the content through DVD at free of cost through concerned ministry and directorate.
5. This digital content will be prepared with the direct participation and consultation of subject-wise teachers of different primary schools, pedagogy specialists, education sector specialists, child psychologists, color and animation specialists. As a result-

- Classrooms teaching and learning will be participatory, attractive and enjoyable by using the content.
- Turn the classrooms into a student-centric one by using the contents.
- Make lecture more attentive and attracted one to the students
- Make clear and developed subject-wise concept
- Increase teacher's perception on topics
- Arrange self-learning for both teacher and student
- Introduce teachers and students of remote area with the computer technology

Programme of setting up IT business incubator in Chittagong University of Engineering and Technology (CUET)

1. ICT infrastructure including 23,400 square feet incubator house, 17,200 square feet dormitory, 100 kw-powered generator and fiber optic connection is being set up under the project.

2. The aim of the ongoing project is to generate skilled manpower in IT sector and to build university IT graduates as entrepreneurs.

3. Create opportunity for IT professionals too

4. Tender was invited to build incubator house cum dormitory which is now under consideration of technical evaluation committee.

5. A technical sub-committee has been formed to scrutiny the design of the bidder with BQU. The evaluation of the bid is going on.

List of prgrammes sent to Finance Division

The ICT division approved some programmes for quick flourishment in the sector and then sent to the finance division for fund allocation for the fiscal year 2014-15. The projects are as follows
   1. Mobile Game development programme at national level
      - The project is taken to build skilled new generation by providing Mobile VAS development training as well as to create opportunity for Bangladesh in the world market.
      - The training programme will make youth skillful and through massive employment of the youths, the programme will be helpful to build a Digital Bangladesh.
      - The PPNB of the programme has been sent to the Finance Division
   2. Information Window Programme in the grassroots

- To spread good and learning examples and experience of the grassroots existing communication media through citizen journalists to strengthen mutual learning and connect the grassroots with the mainstream of overall development.
- The programme will be implemented in three years
- The programme is awaiting approval

3. E-shop programme

- Root out extreme poverty and hunger. E-commerce creates employment opportunity in rural market through e-commerce. The programme will create employment opportunity and extend the country's merit-based labor market abroad.
- Under the proposed programme many people as well as family will be benefitted financially.
- The proposed programme not only would play role in economic prosperity of the country but also would play supportive role in alleviating poverty. As a result the life standard of the people would improve. The programme proposal has been sent to the Finance Division for approval.

4. People's Call Centre

- The People's Call Center will ensure people's easy access to information
- There will be a number to get information services round- the- clock
- If any person from remote area dial this number to get information he/she will get response promptly.

List of future Projects

1. Upgrading PKI (Public Key Infrastructure) System Capacity Building of CCA Office
2. Tier-4 Data Center
3. Establishment of Mahakhali IT Village
4. Basic Infrastructure for Electronic City, Sylhet
5. Establishment of Barendra Silicon City, Rajshahi
6. Empowering Women and Creating Self-employment through Enhancing ICT Skills
7. Establishment of Innovation Development Excellence Academy, R&D Center and 1000 Startup Innovation
8. Digitization of Judicial Management
9. Establishment of Software Certification Center
10. Establishment of Micro Electronic Lab
11. Establishment of Cyber Security Center and Digital Forensic Lab
12. Establishment of Helpdesk for all Section of People
13. She Power Project
14. Skill Development for Mobile Application and Gaming Industry
15. Strengthening ICT Division through Modernization and Enhancing Skills

Future Programme

1. Liberation War in mobile platform
2. Learning and Earning : Journalists Professional Programme
3. Electronic Library Information Service for Health (Hilsha) programme
4. Programming Training for Teachers in Rajshahi Division programme
5. Programming Training for Teachers in Khulna Division programme
6. Programming Training for Secondary School Teachers in Rangpur programme
7. Programming Training for Teachers in Barisal Division programme
8. Programming Training for Teachers in Sylhet programme
9. UISC master trainer programme
10. Digital Tablet devices programme
11. Bari Bose Boro Lok phase-2 training programme
12. Training Programme for Creativity Programme
13. Innovation for Tele-health programme
14. Mobile online and offline application portraying life and achievement of Father of the Nation Bangabandhu Sheikh Mujibur Rahman.
15. ITESBPO entrepreneur programme
16. Programme to increase capacity of ICT directorate
17. Increase capacity of DC offices on ICT
18. Setting up freelancer institute in Natore programme
19. Online registration for collecting information of students at primary level, preservation and its re-use
20. All offer BD programme

Ends