

Company Profile

*Computer Ease Limited*

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## **CEL at a Glance**

|                                     |   |
|-------------------------------------|---|
| Date of commencement of business:   | 1 <sup>st</sup> October 1992  |
| Nature of business:                 | Software development, MIS related<br>Consulting   |
| Address (Registered):               | House# 10, Road# 7, Dhanmondi, Dhaka-<br>12005.   |
| <b>Address (Operating/contact):</b> | <b>1/9, Block-A, Lalmatia (1<sup>st</sup> &amp; 2<sup>nd</sup> Floor),<br/>Mohammadpur, Dhaka - 1207</b>  |
| Current manpower:                   | Fifty two (52)<br>Management: 7<br>Logistic: 5<br>Development: 30<br>Infrastructure: 1<br>Support & QA: 9 |

### **Major clients:**

#### **Offshore**

Banuyale City Council, Melbourne, Australia  
Unilever Arabia Group, Dubai  
Janata Exchange Company, Rome, Italy  
National Exchange Company, Rome, Italy  
Dhaka Janata Exchange Company, Milan, Italy  
Global Exchange Company, Rome, Italy  
WorldLink Money Transfer, Greece

#### **Local**

British American Tobacco Bangladesh  
Leading Multi-national Company (BAT) in  
Tobacco industry  
Unilever Bangladesh  
Leading Multi-National Company (Unilever)  
in toiletries and consumer products  
GrameenPhone Limited  
Largest Mobile Phone Operator in Bangladesh  
Nestle Bangladesh Limited  
Leading multi-National Company in nutrition food and  
beverage manufacturing sector

Warid Telecom Bangladesh Limited  
**A major Mobile Phone Operator**

Ericsson Bangladesh  
**A major player in Telecom Industry**

Abul Khair Tobacco Limited  
**Cigarette manufacturer and seller**

Abul Khair Consumer Limited  
**Leading player in FMCG industry**

Shah Cement Limited  
**Largest Cement Manufacturing Company**

Transcom Electronics Limited  
**Brand Marketeer of Philips and a leading manufacturer and seller of electronics products**

Transcom Beverage Limited  
**Bottlers of Pepsi Products in Bangladesh**

Bangladesh Edible Oil Limited  
**One of the Leading edible oil importer and seller**

Social Marketing Company  
**Major contraceptive and healthcare product manufacturer and seller**

RahimAfrooz Group  
**Major Local Conglomerate**

Matador Ball Pen Industries Limited  
**Manufacturer of Ball Pens**

Duncan Brothers  
**Largest Tea Planters in Bangladesh**

DHL Services Bangladesh  
**Worldwide Express Delivery Company**

CITIBANK, N. A.  
**Leading international financial services company**

Bangladesh Navy  
**State owned Defense Organ**

Orion Group of Companies  
**A major concern in Pharmaceutical, toiletries and Cosmetics manufacturing in Bangladesh**

Kohinoor Chemical Company (BD) Limited  
**One of the oldest companies in cosmetics and toiletries sector**

Reedisha Knitex Limited  
**A large composite Textile Industry (Spinning, Knitting, Dyeing and Garments Manufacturing)**

Sally Ann Bangladesh  
**An international organization involved in sales of**

**handicraft products locally and in international market**

Janata Bank Limited  
**Second largest Commercial Bank in Bangladesh**

Sonali Bank  
**Largest Commercial Bank in Bangladesh.**

Eastern Bank Limited  
**A rapidly growing Private Sector Bank**

Diamond Melamine Industries Limited  
**Manufacturers, Distributors and Sellers of Melamine products.**

Khaleque Group of Industries  
**Significant market share holder in Cosmetics, toiletries and textile industries**

Power Grid Company of Bangladesh  
**Government owned company entrusted with Power transmission network**

Areas of expertise:

**B2B and B2C** Internet/Intranet Applications  
ERP solutions for small & medium scale Industries  
**H**uman Resource Management System  
**CRM / S**ales and Distribution System  
**PDA** based systems  
**M**obile based systems  
**E**lectronic Fund Transfer System  
**D**ynamic Report Designer  
**F**inancial Accounting Package  
**B**ranch Banking Solutions  
**I**nventory Control System  
**P**rocess Automation System  
**P**roduction Control System  
**MIS** of various types  
**D**ecision Support Systems

## Vision Statement

**CEL** is a technology driven company. We believe in furnishing solutions that are viable today and open for upgrade in future. Our solutions are cost-effective and result oriented.

In next couple of years we target the market segment that is already experienced in using business solutions as well as the niche that is freshly aiming at entering IT usage arena. We have products coming up keeping both types of clients in mind. Our marketing team now comprises, apart from IT market specialists, very experienced Business Analysts, System Architects, Systems Analysts who would cater for the special needs of experienced or new clients. We resolve to add value to our clients' business irrespective of their current exposure to IT usage.

Technology wise we are currently into MS.Net framework. Our choice tools revolve around C#, ASP.Net and likes. We are also working with MS SharePoint. Oracle and SQL Server remain our trusted databases. However, we shall continue to support the systems that have been developed using Microsoft Visual Studio 6.0 and shall develop new systems using the same technology for the clients that prefer to remain conservative.

Design wise we have made improvements over the three-layer components architecture. Digging deep into the layers we go for UI components and UI Process components in the presentation layer while the business object layer is built around Services Interfaces, Business Workflows, Business Components, and Business Entities. The third layer now comprises Data Access Logic Components, Services Agents and Data Sources. All these and much more are aimed at building scalable, reusable, manageable business applications.

We also aim at making our clients' business IT-enabled, information driven. We look ahead at tangible benefits to be derived by using our software. We think in terms of a global IT village where all the participants talk the same language. We, through our clients, should lead the way.

**OUR PRESENT PLATFORMS AND TOOLS AT A GLANCE:**

| Operating Systems and Environments               | Programming Languages & tools | Databases              |
|--|-------------------------------|------------------------|
| <b>Servers:</b>                                  | <b>MS Visual Studio.NET</b>   | Microsoft SQL Server   |
| MS Windows 2000/2003/2008                        | <b>2005/2008:</b>             | 2000/2005/2008         |
| <b>Workstations:</b>                             | C#, ASP.Net, VB.Net           | ORACLE 8i./9i./10g/11g |
| MS Windows Vista/XP                              | MS Visual Basic               |                        |
| MS .Net Framework 1.1/2.0/3.5                    | Java                          |                        |
| MS SharePoint (MOSS)                             | PHP                           |                        |
| IIS  | XML                           |                        |
| Palm OS 5.2 (for PDA) & above                    | HB++                          |                        |
| MS Windows Mobile 5.0 & above                    | JavaMe                        |                        |
| Symbian, S60, S40 (for Java Mobile applications) |                               |                        |
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|  |                               |                        |

## **Software Projects**

### **Offshore Projects**

#### **Banyule City Council, Melbourne, Australia**

Banyule City Council is a local government area consisting of 20 northern suburbs of Melbourne, Australia.

The Human Resource Information System (HRIS) that we have developed for them comprises Organization Chart & Personnel Profile management and Staff Performance Review modules. The system interfaces with their corporate system Authority, which is built on Informix and is used for operating most of the council activities, for the basic data regarding organization hierarchy. It manages additional information and offers different diagrammatic views as well as data export options in multiple formats. HRIS manages comprehensive staff information and provides templates for generating pre-formatted HR letters. The system also maintains staff performance reviews with the essential facility to escalate e-mails to multiple recipients at various stages of the review process.

#### **Systems for Unilever Arabia**

We have developed HR and Payroll Management software for Unilever Arabia. The software automates the pay processing for Unilever employees in nine Middle-Eastern and Arabian countries. The software has interfaces with PeopleSoft (HR System), SAP (ERP System) and CITIBANK, N. A. system. Following is the list of countries where the software is being run:

- **Unilever Gulf Free Zone Est. (United Arab Emirates)**
- **Al Gurg Unilever LLC (United Arab Emirates)**
- **Thani Murshid Unilever LLC (United Arab Emirates)**
- **Unilever Iran (Iran)**
- **Unilever Arabia – Yemen (Yemen)**
- **Unilever Arabia – Kuwait (Kuwait)**
- **Unilever Arabia – Qatar (Qatar)**
- **Towell Unilever LLC (Sultanate of Oman)**
- **Unilever Bahrain Co. W.L.L. (Bahrain)**
- **Lever Arabia Ltd. (Kingdom of Saudi Arabia)**
- **Binzager Lever Ltd. (Kingdom of Saudi Arabia)**
- **Unilever Company Reg. Mkt & Res (Kingdom of Saudi Arabia)**
- **Unilever Co. for Ind. Dv. Ltd (Kingdom of Saudi Arabia)**
- **UBF Food Solutions – Arabia (Kingdom of Saudi Arabia)**
- **Pepsi Lipton Company (Kingdom of Saudi Arabia)**

## **Software for Exchange Companies:**

**Janata Exchange Company**, a subsidiary company of Janata Bank Limited registered in **Rome, Italy**, is engaged in receiving remittance from NRBs residing in Italy and transmitting it online to Bangladesh for speedy delivery to the beneficiaries. Entire process of remittance transmission has been computerized by our software. The software has three components. First component is the one through which remitter deposits money (supports multi-currency) with the Exchange Company and the remittance is transferred via Internet to Dhaka controlling Office. The second component is used to automate all activities in the Exchange Company pertaining to its financial accounting process. Third component is used at Dhaka Controlling Office. Through this component, remittance is received electronically, validated, sorted and Inter Branch Credit Advice generated to the payee branches of Janata Bank.

Similar software has been developed for **National Exchange Company (NEC), Rome Italy** NEC has remittance arrangements with hundreds of companies across the globe.

Another company using a slightly different version of the same software is **Dhaka Janata Exchange Company**, Milan, Italy.

**WorldLink Money Transfer** Company in Greece uses another incarnation of this product.

**Global Exchange Company**, Rome, Italy is another client using this software.

A different incarnation of the software has been developed for **Sonali Exchange Company**, a subsidiary of the largest state owned commercial bank, **Sonali Bank**. The remitting end component of the software has been installed at five different Exchange Houses in **Kuwait** (2), **Bahrain** (2) and **Qatar** (1).

## Local Projects

### Newly Released & Current Projects

√ We have just launched our **mobile based solution** for **Retail Order capturing**. The software will run on mobile phones that are capable of downloading and running Java based applications. It will be able to communicate with the central server via internet (web service) or by simple SMS. Both the communication process will be handled by the application itself.

The order capturer (Medical Representative/Distribution Sales representative) will be able to get the list of outlets under her area and the list of products with price. Through a menu driven interface she will be able to collect order, save and send to the central server. The order data will seamlessly integrate with the mother system (A full blown sales management system) and will be displayed as an order received.

As additional features the software may have the capacity to show the order capturer the history of orders for a particular outlet, status of last order for an outlet, stock position at the warehouse etc. which would help her to collect order more efficiently.

We are also in the process of coming up with mobile applications for recording **Daily Call Report** (DCR) of the Medical Representatives of the pharmaceutical companies and a tool for capturing **field level survey information**.

√ We are currently developing a Distribution Management System for Transcom Electronics Limited. This software will have two PC based components and a PDA based component for **Windows Mobile OS based PDA phones**.

√ We are currently developing a Distribution Management System for Abul Khair Consumers Limited. This software will have two PC based components and a mobile based component for retail order capturing.

√ Development for a Route level sales information capturing system has been completed for Abul Khair Tobacco Limited. The software has a mobile based component to collect route level sales information and a back-end PC based MIS system.

√ Development for a Distributed Electronic Fund Transfer System has been completed for Janata Bank. The software will run in at least 200 branches of the second largest commercial bank of the country.

√ A Primary and Secondary Sales Management System has been developed for Bangladesh Edible Oil Limited. The software has PC based components and a component based on **mobile phone** for capturing field level data.

√ A secondary sales Management System is being developed for Shah Cement Limited. This software will also have a mobile phone based component in addition to PC based components.

√ Development of a Production Monitoring, Procurement Management and Financial Accounting System is going on for Matador Ball Pen Limited.

√ Development of a Sales Tracking System has commenced for Warid Telecom Bangladesh Limited.

### **Service Contracts**

Currently, we have service contracts of various dimensions with the following clients:

Orion Laboratories Limited

Orion Infusion Limited

Beacon Pharmaceuticals Limited

Kohinoor Chemical Company (BD) Limited

Reedisha Knitex Limited

GrammenPhone Limited

Social Marketing Company

British American Tobacco Limited

Unilever Bangladesh Limited

Nestle Bangladesh Limited.

## **Systems for British American Tobacco Bangladesh (BAT Bangladesh)**

We have been developing software for BAT Bangladesh for a number of years. These programs include tools to monitor the sales process, inventory management, quality control, equipment maintenance, asset management etc. These programs are also furnishing facilities to upload data from remote locations through dial up connectivity.

ORACLE is being used as the back end database while Visual Basic remains the development tool for most of these programs. For smaller and detached programs like DIS (Distributor Information System) MS Access is being used as the database. Given below is a brief overview of the programs developed for BAT Bangladesh.

**Galaxy:** This is a comprehensive HR and Payroll system being developed for BAT Bangladesh. The software is meant to automate Salary processing for Management, Non-Management and Workers' Wage processing. Apart from processing salary as per company rule, the software has Income Tax, Provident Fund, Leave automation features. It has comprehensive HR database and reporting features. The software has integration with **Lotus Notes** through which pay slip is sent to each Managers' Desktop.

**WINGS Shipping:** This program computerizes the following business processes:

- Product receipt from Production floor to Shipping Department**
- Product Shipment to Warehouses and Distributors**
- Marketing Plan entry for monthly shipment (daily basis)**
- Distributors' Remittance receipt**
- Automated Truck Allocation for Goods Delivery**
- Invoicing and VAT register management**

**WINGS for Warehouse** - This program is used at remote warehouses for the following purposes:

- Inventory management at Warehouse**
- Invoicing to Distributors**
- Distributors' remittance receipt**
- Measurement of Customer Services**

**DIS** This program is running at the Distributors' sites all over the country. The main features include the following:

- Distributors' Inventory management**
- Distributors' daily sales management (cash, product, route)**

**Route wise sales MIS**  
**Brand wise sales MIS**  
**Customer Type wise Sales MIS**  
**Profit and Loss by Brand**  
**Stock coverage ratio**  
**Comparison of sales and market price with competition**

## **Systems for Unilever Bangladesh**

### **Distribution Management System (DMS+) / Durbin**

This program is meant for automating the operations of Distributors of Unilever Bangladesh all over the country. The new incarnation of the software has a module based on PDA(Personal Digital Assistant). Through the PDAs, the representatives of distributors collect Outlet wise Order and download the orders to the Back Office software DMS+. The main features include the following:

- Distributors' Inventory management**
- Distributors' daily Order and Sales management**
- Trade promotion Management**
- Field Level target Management**
- Outlet wise Sales MIS**
- Section wise Sales MIS**
- Brand/SKU wise sales MIS**
- Customer Type wise Sales MIS**
- Channel type wise Sales MIS**
- Profit and Loss by Brand/SKU**
- Cover Stock Calculation**
- Automatic Indent Raising**
- Claim Management**
- PJP (Permanent Journey Plan) Management**
- Comparison of sales and market price with competition**

*We are in the process of coming up with a version of the PDA based module on MS Windows OS based PDAs.*

### **Innovative Business Partnering (IBP) / Support Expenditure Monitoring System (SEMS)**

The program is meant for monitoring and ensuring proper on-line management control on support expenditures done for product promotion and marketing activities. The system is designed to be used on-line like an ERP system at all stages of a marketing activity brief. Use of paper documents and files has been made redundant by this software as all the personnel starting from the initiator, the approver and the authorizer all do their relevant part of the activity through this software. The financial part of each activity is taken care of by this program and it facilitates data transfer to the central MRP2 system called "MFGPro".

### **Payroll and Credit Society Management System (FREYA)**

The system is meant for pay processing of Management and Non Management employees of Unilever Bangladesh. It facilitates automatic calculation of all payables and deductibles as per the rules of the company. Calculation of payables and deductibles for Over-time, Short Leave hours, late hours, unauthorized leave is done. Income Tax deduction and return is done through this software. A full-fledged Provident Fund Management module is incorporated into the software. Electronic Pay-slip is generated for the Managers. Gratuity calculation and provisioning is also done. Allocation of outside payroll items, loan management, Salary Allocation by cost centers are done from this program.

A separate module has been introduced to manage the business of the employee cooperative society known as "Credit Society". Monthly subscription, loan installments, yearly interest calculation, investment and return all such processes are managed automatically by this module.

#### **S&OP**

This is an ambitious software project aimed at automating the decision making process of UBL. The demand and supply parameters that drive the company are taken as input from many different sources and based on these graphical what if scenarios are created on-line during Network Activity meeting, Sales Management meeting, Supply Planning process and finally in Standard Operation Plan meeting. Once completed this software is meant to be used by the top management people of the company.

## **HR System for RahimAfrooz Group**

The software is the first of its kind in Bangladesh. It comprises comprehensive HR system with work-flows in a number of areas. The software has web enabled interfaces in addition to the Desktop based modules. The back-bone of the software is the Organogram that has been defined in greaty detail with the full dynamics of real life scenarios of a business cocern with multiple strategic business units. The business areas that come under the purview of the software are as follows:

### **Personnel management**

**Manpower planning and placement**

**Recruitment Process**

**Core Payroll**

**Journal voucher to Financial Accounting**

**The Employee Attendance**

**Leave Management**

**Performance Management System & Career Mgt**

**Training and development**

**Discipline and grievance**

**Employee Events & programs (Employee Welfare)**

**HR Feedback and Surveys**

**Occupational health and safety**

**Self-service and online activity management**

## **Other Payroll & HR implementations**

### **Payroll System for DHL**

The system is meant for pay processing of Management employees of DHL. It facilitates automatic calculation of all payables and deductibles as per the rules of the company. Calculation of payables and deductibles for Over-time, Short Leave hours, late hours, unauthorized leave is done. Income Tax deduction and return is done through this software. A full-fledged Provident Fund Management module is incorporated into the software. Electronic Pay-slip is generated for the Managers. Gratuity calculation and provisioning is also done. Allocation of outside payroll items, loan management, Salary Allocation by cost centers are done from this program.

### **Payroll System for Li & Fung (Bangladesh) Limited**

A Payroll system has been implemented at Li & Fung (Bangladesh) Limited.

### **Payroll System for CITIBANK, N. A.**

A similar Payroll System has been implemented at CITIBANK, N. A.

### **Payroll & PF / GF Fund Management System for GrameenPhone**

A full blown Payroll software with Provident Fund and Gratuity Fund Management facilities has been implemented at GrameenPhone.

### **HR & Payroll System for Transcom Beverage Limited**

A HR and Payroll is currently being implemented at Transcom Beverage Limited

### **Payroll System for Ericsson Bangladesh**

A Payroll software has been implemented at Ericsson Bangladesh.

### **HR & Payroll System for Orion Group of Companies**

A comprehensive HR & Payroll system has been implemented at three concerns of Orion Group of companies.

### **HR & Payroll System for Kohinoor Chemical Company (BD) Limited**

A comprehensive HR & Payroll system has been implemented at KCCL.

## **Systems for Transcom Electronics Limited**

### **Retail Sales System**

We have developed a system for Transcom Electronics Limited which automates the activities of the Retail Sales Channel of the company. The software has two discrete sub-systems; the sub-system at Head Office and the sub-system at retail show rooms. The sub-systems communicate through web-service. The system also furnishes a web enabled MIS module.

### **Service Management System**

We have developed a system for Transcom Electronics Limited which automates the activities of the Service Management Process of the company. The software is process automation as well as a tracking system through which a service job can be tracked at any point in its life cycle. The system also automates the spare inventory.

### **Hire Purchase Management System**

We have developed a system to automate the hire purchase scheme of Transcom Electronics Limited. The system has the facility to cater for the automation of the entire life cycle of the Hire purchase process. Hire purchase application acceptance, evaluation, agreement, instalment and payment schedule preparation, down payment acceptance, product delivery, instalment receipt, closure of the account and all details of the afore mentioned steps are taken care of in this system. The system is integrated with the Retail Management System of the company. The system has two components; one at the HO and other at the Retails stores. Data communication between the systems is done using web service.

### **Procurement, Sales & HR System for Social Marketing Company**

We are currently in the process of implementing a comprehensive material procurement, nationwide sales and HR system for Social Marketing Company. The project is expected to be finished by last quarter of 2007.

### **Distribution Management System for Nestle Bangladesh Limited**

A distribution and sales management system has been developed for Nestle Bangladesh. The software is used at distribution sites of Nestle Bangladesh for retail level order capturing, inventory management, payment reconciliation and trade activity management. The software has a master data component based in Dhaka HO of Nestle Bangladesh while a PDA based component is being used by field level officers for capturing outlet level order data. A second PC based component at distribution sites does the bulk work of process management. The retail level data is then captured consolidated and sent to the HO system where national level sales MIS is generated.

### **NRB Software for Eastern Bank Limited**

This software is a slightly different incarnation than the software for exchange companies. This software automates the delivery-end activities of remittance sent from abroad. Eastern Bank has arrangements with different exchange companies all over the world who send remittance through electronic fund transfer mechanism. Some of these exchange houses are sending traditional Demand Drafts. The software is used by Eastern Bank to receive electronics fund transfer messages, sort these payment instructions by banks and branches, issue DD purchase request to banks with whom EBL has drawing arrangement, make over the counter payment from different EBL branches, issue TT to beneficiary accounts, manage books of accounts of different exchange companies and generate a range of MIS reports. The other major aspect of the software is that it would track the status of each single remittance and the current status of the remittance can be viewed through internet by accessing a particular site. The user is needed to input the remittance number to view the current status of the remittance ("Paid to beneficiary", "Being processed at EBL" etc.).

The software also furnishes journals for posting into Flex cube- the main banking application of EBL.

The software has been developed using MS C# and ADO.Net. The database is MS SQL Server 2000.

### **Export Sales, POS and Financial Accounting System for Sally Ann**

An export sales system and a full blown POS (Point of Sales) system has been developed for this organization which is involved in procurement and sales of handicrafts through its retail outlet in Dhaka and export the items to overseas clients. The systems have been integrated with inventory and Financial Accounting package.

The software has been developed using C# under MS .Net Framework. MS SQL Server 2000 is the RDBMS.

### **Sales Tracking System for GrameenPhone**

The System is meant for tracking a SIM Kit through the process of its creation, distribution, sales, activation, dismantling etc. The software is being used by the Central Logistics department and all the Zonal Logistic Offices involved in production and primary distribution of SIM Kit.

A second component of the software called DSTS (Distributors' SIM Kit Tracking System) is used by all the Distributors of GP to execute secondary sales of SIM Kit. Sales data from Distribution system is uploaded with the central system in batch mode and cross matched with activation data.

The software has been developed using C# under MS .Net Framework. Oracle 10g is the RDBMS.

## **Complete ERP solution for Duncan Brothers Limited**

We are currently developing a total solution for the businesses of Duncan Brothers, the largest Tea planter of the country. The software will run at fifteen gardens and five companies of the concern. The modules include:

Financial Accounting

Garden Activity Management

Procurement and Inventory Control

Fixed Asset Management

HR & Payroll

Budgeting

Sales Management

## **Systems for Bangladesh Navy**

We are the major software-developing associate of Bangladesh Navy for the last one decade. Over these years, we have developed quite a good a number of software systems, and are continuously furnishing services and upgrades for these programs. Listed below are some of these systems:

**Audit Information Management System** - Bangladesh Navy is accountable to the Government for the use of its resources and financial activities. Comptroller and Auditor General of Bangladesh carryout audit every year in the Naval Ships, Establishments and other offices involved in the financial activities. The Government Audit Department submits audit reports containing their observations, disputes and audit objections regarding financial matters. It is a continuous process of accumulating post audit information and monitoring until final settlement of all audit disputes. The Audit Information Management System is a complete database management system to monitor audit related information for Bangladesh Navy. It has the capability to handle large textual data with other data in both Bangla and English. The instructions in the interfaces for storing data and producing reports are in Bangla. Another Unique facility of the system is electronic messaging/minuting among the directorates. MS VB 6.0 is the development tool and MS SQL Server 2000 is at the back-end as RDBMS.

**Cadet Recruitment System** – This is application software for Cadet Recruitment Information Processing of BN. The system has interfaces to capture OMR scanned output into the database since the major portion of data entry into this system are through custom designed OMR forms.

**Central Supply & Stores Management system** – The system runs at the Naval Stores Depot (NSD) at Chittagong, which is the central supply and logistic base of Bangladesh Navy. This is a huge integrated system that automates all the activities of multiple (13) stores, and different (Nine) departments related to supply management like Issue Control, Central Receive Dept., Central Return Store, Local Procurement, Indent, Shipping, Quality Control and Financial Control etc. of Bangladesh Navy. This system was developed and implemented in the year 1996-1998. Initial RDBMS was MS SQL Server 6.5 and NOS was MS Windows NT 4.0. Recently, the RDBMS has been upgraded to MS SQL Server 2000 and NOS to MS Windows 2000 Advance Server.

**Human Resource Management System for the Sailors of Bangladesh Navy** - This is a comprehensive personnel management system that is fully customized to the regulations of Bangladesh Navy. The program is used to maintain the full record of Sailors including their detailed personal & service records. This system produces different management reports for taking decision of promotion, annual transfer plan, selection for training & courses, important

deployment, allocation of houses etc. The system also keeps the photograph of individuals, their reward & punishment history, medals and recommendations, annual assessment etc.

**Purchase Monitoring System** - The system has been developed for the total computerization of the procurement process of the Technical Stores of Bangladesh Navy at Naval Headquarters. This is one of the oldest systems of Bangladesh Navy and was developed and implemented in the year 1992. The system is running smoothly till date.

### **System Study for BN Dockyard, Chittagong**

We are currently doing the detailed system study of the processes at BN Dockyard at Chittagong. The deliverable of the assignment will be detailed scope document for the automation of the dockyard.

## **ERP solution for Pharmaceutical Companies**

### **Integrated Software for Orion Group of Industries (Orion Laboratories Limited, Orion Infusion Limited, Beacon Pharmaceutical Limited)**

An integrated software inclusive of **HR & Payroll, Sales Management, Financial Accounting, Purchase & Inventory Control with product costing, Fixed Asset Accounting and Marketing MIS (Doctors' Database, Prescription and Chemist Audit) modules** has been developed for this Group of companies involved in Pharmaceutical Sector. *Recently, a mobile interface has been implemented for Sales Order Capturing process.* Under the scheme, the field level officers will send orders through a preformatted text-SMS to the server at concerned depot (connected with a GPRS modem). This order will be automatically accepted by the Sales System and no manual input will be required at the depot.

### **Export Bill monitoring system for CITIBANK, N. A.**

The Dhaka branch of CITIBANK, N. A., in addition to its normal branch-banking operations, also acts as the intermediary between local and North American banks to process and reconcile L/C documents. The Export Bills System has been developed to oversee this operation. The essential features of the system are:

**Commission tracking.**

**Maintaining the balance of CitiDhaka's account at CitiNewYork with trail of transactions.**

**Tracking refund information.**

**Settling of payment information with missing reference.**

## **Systems for Diamond Melamine**

A comprehensive Sales Management system with built-in Finished Goods inventory and Financial Accounting System has been developed for this organization. The software caters for nationwide sales management, generates a huge number of Sales MIS and keeps the Financial Accounting updated. The software has been developed using MS .Net technology with C#. The database is Oracle 8i.

### **System for Aerovision Limited (GSA of Yemen Airlines in Bangladesh)**

A Sales and ticketing system along with Financial Accounting Package is being developed for this client. The software is being developed using c# under MS .Net Framework.

### **Systems for Charuta (Interior Decorator & Real Estate Builder)**

It is a comprehensive **Project Management System** integrated with **Inventory Control System** and **Financial Management System**. Project management system has the facility of defining any Building Blocks taking items from inventory and outside inventory to build the Job Specification Library. Any project could be defined taking different jobs from job library. Non standard job item also could be added to a project. Main features of the Project Management System are.

- ▶ Building a Project Proposal
- ▶ Material and Cost Estimation by individual job for the whole project
- ▶ Job Scheduling
- ▶ Project Progress Tracking & Monitoring
- ▶ Material and Financial Planning by Project and by Company
- ▶ On line material requisition
- ▶ User Authentication of process at different stages.
- ▶ Auto generation of financial transactions for GL Financial Accounting System
- ▶ Generation of Different MIS Reports

The software was developed using c# under MS .Net Framework.

### **Sales & Inventory Management System for Bookstores: (BoiMela)**

This is a comprehensive solution for sales and inventory management for bookstores. The facilities include Purchase of books, sales, invoicing, return, cash reconciliation, customer ledger, search of books by various categories etc. The system is being used by Ekushey Publications, Sandesh and Friends Book Corner.

## **The Branch Banking Solutions**

CEL has the expertise of developing of Branch banking solutions for a long time. In fact, the first locally developed branch banking software was designed and developed by the present Managing Director of CEL Mr. I. H. Khan in the early 1980s while he was working for Beximco Computers as a System Analyst.

At CEL we have developed our own product as an integrated branch banking solution. The software is a true three-tier object oriented program using Visual Basic 6.0 and MS SQL Server under Windows NT platform.

The software incorporates the customer transaction facilities (Deposit and Advance accounts) along with the back office transactions of a bank branch. The software is parameterized to cater for changes in Bangladeshi Banking regulations. Apart from customer balance, ledger, interest calculations, cheque book maintenance etc. it also generates the general ledger, Statement of Affairs and P/L statement for the branch. Many other customized MIS reports are available for both customer accounts and back office branch accounts. All transactions are done with proper audit trails with maximum security and flexibility.

Copyright for this product has been bought by Desktop Computer Connections, the distributor of Compaq products in Bangladesh.

## **Systems for Reedisha Knitex Limited**

We are in the process of developing and integrated ERP solution for Reedisha Knitex Limited, a new but large composite Textile industry. The modules will include Financial Accounting, Fixed Asset Accounting, L/C Management modules, Production Management, Cost Management, Personnel Management and Payroll, Inventory Management.

## **HRIS (Human Resources Information System) for NSDP (NGO Services Delivery Program)**

**NSDP (NGO Services Development Program)** is a USAID-funded consortium of eight international organizations, led by Boston-based Pathfinder International, which provides technical assistance and support to a network of Bangladeshi health care NGOs.

The **NSDP-HRIS** was developed with USAID funded health NGOs in Bangladesh. It is intended to help NGOs and related organizations **manage personnel, trainings, and skill competencies** centrally and for individual organization. The system is developed in two major versions. One is **Central System** developed for managing personnel centrally of all NGOs & Clinics under NGOs. Other is **NGO System** for managing personnel information of individual NGO & Clinics under individual NGO. Facility of necessary **Information Exchange** electronically between the central systems and NGO system is incorporated.

**Technology:** The NSDP-HRIS developed in C# under the MS .Net Framework for Windows 2000/XP. It is expected to run in conjunction with either Microsoft SQL Server or locally with MSDE.

## **Integrated Software for Kohinoor Chemical Industries Ltd.**

This system includes **Procurement Monitoring, Financial Accounting, Inventory Management, and Sales Monitoring** components. The integration is seamless which reduces the data entry effort to minimum level. The system has recently undergone platform change. Now we it has been switched to MS .Net Framework using C# as the development tool and MS SQL Server 2000 as RDBMS.

## **General Purpose Accounting Package**

### **LUCA II / Ease GL:**

We have two financial accounting packages meant for different types of organizations.

The programs can handle accounting needs for any type of concern. All the output is online and no batch mode processing is required. One can get trial balance, balance sheet, Profit & Loss Statement, cash flow analysis, schedule of accounts at any given time. There is no obligatory period closing process like monthly or yearly closing. Back-posting and reversal of vouchers with full audit trail is available. The software has the option of voucher printing. It gives a number of predefined ratio analyses. Accounts Payable and Accounts Receivable modules are attached with the main module and ageing analysis is available online.

This Financial Accounting package generates the following output.

- Day Book**
- Cash Book**
- Bank Book**
- Account Ledger**
- Trial Balance at different tiers between two specified dates**
- Schedule of accounts at different tiers on any specified date**
- Monthly Turn-over of Accounts**
- Budget and Variances Analysis of expenditure accounts**
- Balance Sheet as of any specified date**
- P/L Statement on any specified date**
- Cash Flow Statement year to date**
- Summation statement of accounts belonging to different parent heads (required for special purposes)**

### **Fixed Asset Accounting System:**

This program comes as an add-on module to Financial Accounting System. The program allows the user to categorise Fixed Asset as per one's requirement. It allows depreciation calculations on straight line or recursive method. Revaluation or write-off of assets is allowed in the system. Monthly depreciation calculation and expenditure provisioning is done automatically. Vouchers are generated by this module for posting into the Financial Accounting System.

## **Systems for Khaleque Group**

Keya Cosmetics Limited is a concern of Khaleque Group of Industries, a major industrial house of Bangladesh. The **Sales Monitoring System** for **Keya Cosmetics** is used for online sales management that includes sales invoicing, receipt of payments and other stock adjustment transactions. The software generates standard and specialized Sales MIS reports and inventory management reports. MS Visual Basic 6.0 has been used as the front-end development tool with MS SQL Server as the RDBMS.

For the same concern we have developed **Inventory Control System and Distributors' Sales System**.

Our **Financial Accounting package Luca II** is running at five of their concerns, namely:

- Keya Cosmetics Ltd.
- Keya Detergents Ltd.
- Keya Sweaters Ltd.
- Keya Spinning Mills Ltd.
- Khaleque Knitting & Garments Industries (Pvt.) Ltd.

## **Bangladesh Leather Products**

This company is involved in making leather and rexin products. We have developed a **Product Costing system** for this company. Apart from this product this company is also using our **Financial Accounting Package Luca II** and our **Payroll System**.

## **Procurement Management system for Power Development Board**

The system has been developed using Oracle 8 as the back end RDBMS and VB 6 as the front-end tool. This is a comprehensive procurement management system that tracks the entire life cycle of procurements made by BPDB.

## **Systems for Power Grid Company of Bangladesh**

We have developed a number of programs for PGCB, a subsidiary company of Power Development Board of Government of Bangladesh. These include: **Inventory Control System, Personnel Management and Payroll System, Fixed Asset Accounting System** and **General Ledger**. These systems are semi-integrated as relevant accounting vouchers from the sub systems are automatically generated.

A separate MIS to monitor the Power Transmission network of the country has also been developed. This distributed MIS collects data from various physical locations (Grid Circles, Load Dispatch Centers) in Bangladesh via a WAN.

All the programs were developed using **Visual Basic** and **SQL Server** and will run on **Windows NT**.

### **Software for Medical Diagnostic Centers**

We have developed a comprehensive solution for Medical Diagnostic centers. The software automates the customer wise invoicing, medical test report generation (template creation for new tests), patient tracking, Doctor wise sales tracking etc. The software is being used by **APSOM Medical Services**.

### **Fuel Inventory Control System for US Embassy, Dhaka**

The System was developed in Microsoft Access Version 7.0 and Environment is **Windows NT** network. It is using as a monitoring tool for the fuel inventory of the vehicle pool of US Embassy in Dhaka.

### **Integrated Software for Shamsul Alamin Group**

An integrated **MIS** software inclusive of **Production Monitoring System, Sales Monitoring System, Accounting System, Inventory Control System, Purchase Monitoring System and Human Resource Management & Payroll System** has been developed for this Group of Industries (Spinning Mills and Composite Textile Mills and Garments industries) involved in production and marketing of Textile products. All the modules are LAN based and run under **Novell NetWare**.

**Complete Garments Manufacturing and Export Information Management System** - It is another integrated system for Shamsul Alamin Group(SAG). This system integrates manufacturing process information of different industries such as Fabric Industry, Dyeing Industry, Garments Industry of SAG linking with the export order. Tracking of production system by order, maintaining of raw material and finished product inventory by order till final shipment are the major modules of manufacturing part. The commercial part of the software is Merchandising, Order Processing, L/C Monitoring, Bills and Bank Information tracking and monitoring. Part of the system has already been implemented and other part is on the process of implementation.

This is a distributed system different modules are running at different locations and integrates different information at group head office. Environment of this system is Windows 2000 Server as NOS, MS SQL Server 2000 as RDBMS and Visual Basic 6.0 as front-end development tool.

### **Production Monitoring & Inventory Control System for Mother Textile Mills Limited**

**Production and Quality Control software** to monitor the entire production path of the multiple Spinning industries, product quality and costing. The system has been developed on NetWare environment, Database is MS SQL Server 2000 and front-end tool is MS Visual Basic 6.

**The Inventory Control System** in addition to the standard features keeps the machines history, machine wise spare list and individual machine wise consumption of spares.

**Human Resource Management and Payroll** (Salary & Wages) – It is a complete personnel management and payroll system. It is running in the corporate head office and in the Mill.

### **Tax Collection Monitoring System and Budget Information System for Land Reforms Board, Ministry of Land**

This system monitors the collection of Land Tax and other Taxes up to Thana level and generates the reports for performance analysis and graphical outputs.

### **Multi Media Setup for Beximco Pharmaceuticals Ltd.**

We have worked as consultant for Beximco Pharma Ltd. on their multi media project. We have provided our expertise for procurement of **computerized video editing setup, animation software and CD-ROM publishing technology.**

### **Share Management System for Public Limited Companies**

This software is a complete solution for Share Issue management for Public Limited Companies. It handles the total process of new share floating, lottery, certificate issue, renunciation, transfer, dividend declaration, Bonus and Right Share issue etc. The system is running in the Orion Group of Companies. The software has been developed using MS Visual Basic as development tool and MS SQL Server 7/2000 as RDBMS.

## **What We Offer**

At CEL we are offering a range of services on software development arena for your business. This includes:

**Need Analysis by expert Business system Architects**  
**Development of the Software & after sales support**  
**Offshore Collaboration for software development**  
**Consultation on Hardware needs, Communication, and Network architecture**

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