

**ROLE OF ELECTRONICS AND
INFORMATICS INDUSTRY IN THE ECONOMIC
DEVELOPMENT OF ASSAM WITH REFERENCE TO ASSAM
ELECTRONICS DEVELOPMENT CORPORATION LTD (AMTRON)**



Abstract

of

The research project for Doctor of Philosophy (Ph. D) under
Gauhati University (Faculty of Commerce – Department of Commerce)

Under the Guidance of

Dr. A.K. Sarma
Former Dean
Faculty of Commerce
Gauhati University
Guwahati – 781014

Submitted by

Sri Bhababhuti Sarma
Senior Lecturer & Head
Department of Management
K.C. Das Commerce College
Guwahati - 781008

INTRODUCTION

Electronics in ordinary sense bring to our mind variety of things from ‘chips’ and computers to television and transistors. Electronics, in the strictest sense, is the science and technology of the motion of charges in gas, vacuum or semiconductor.

Electronics industry is the business of creating, designing, producing, and selling devices such as radios, televisions, stereos, computers, semiconductors, transistors, and integrated circuits.

Initially, component companies came into existence as electronics industry to produce the various types of electron devices as well as passive circuit elements (resistors, capacitors, inductors, transformers etc.)

The occurring of manifold advances in the field of ‘Electronic’ in the last few decades has developed the Electronics Industries in almost all parts of the world. Several States of India have also developed Electronics Industries very inspiringly in its different sectors. Unfortunately, the Share of Assam in the growth of Electronics Industry is very insignificant in spite of having sufficient facilities.

REASONS FOR SELECTING THE STUDY

The Unprecedented growth and development of Electronics and Informatics all over the World and also in different States of India has encouraged the Researcher to analyze the progress and problems of Electronics Industry in the State initiated by AMTRON, the only public Sector Organization in the field.

In spite of having qualified and skilled manpower, the progress of Electronics and IT industry in the state is not satisfactory. AMTRON is the only organization in this sector in Assam. To analyze the activities

and performance of AMTRON and how far AMTRON is able to popularize the Electronics and IT in the state is the primary endeavor of Researcher for taking up this venture.

Quest in the regard was also felt by the fact that the researcher was an employee of AMTRON for nearly 8 years.

Academic research in this area has not yet been taken up till now; as such this work is going to be a pioneer effort.

ORGANISATIONAL STRUCTURE OF AMTRON

AMTRON is enacted under the Indian Companies ACT 1956 (NO I of 1956) as Pvt. Ltd. Company by Govt. of Assam in the name of “Assam Electronics Development Corporation Ltd.” On 4th April of the year 1984, with the authorized share capital of Rs. 20 Lakhs divided into 20000 equity share of Rs. 100/- each. The registered office of the Company is situated in the State of Assam.

CONTRIBUTION OF AMTRON IN THE DEVELOPMENT OF ELECTRONICS INDUSTRIES IN ASSAM

The Assam Electronics Development Corporation Ltd. (AMTRON) an Assam Government Undertaking made a modest beginning in 1984 with the production of consumer electronics items ranging from Voltage Stabilizers to B/W and Colour T.V. sets.

Presently, AMTRON is engaged in the service Sector and the production Sector is now initiated by “AMTRON INFORMATICS (INDIA) Ltd.”(AAIL), A wholly owned subsidiary company of AMTRON formed under companies ACT 1956 as Pvt. Ltd. Company on 27th March 2002.

AMTRON is now a nodal agency of Govt. of Assam and therefore, the all IT products required by different departments of Govt. of Assam are procured through AMTRON.

UTILITY OF THE STUDY

The findings of the proposed research study will show the role played by electronics and IT industry in the economic development of Assam. It also evaluates and appraises the performance of AMTRON with its stipulated aims and objectives. It may be helpful to AMTRON in managerial policy making, decision making and taking appropriate steps for the over all success in near future.

The study and analysis of the activities of AMTRON will also help the organization in taking proper steps and provides suggestions for the solution of financial and other problems.

The industrially backward state like ASSAM, the findings of this study will definitely give some ways to overcomes the problems and encourage new entrepreneurs in the field of Electronics industry and for overall economic development of the nation.

OBJECTIVES OF THE STUDY

The objectives are as follows:-

1. To identify the Scope of Electronics & Informatics Industry in various field of economic development in Assam
2. To Study the Role of AMTRON in popularizing Electronics & Informatics based Industries & Services in Assam
3. To appraise & evaluate the performance of AMTRON
4. To suggest measures for the future development of Electronics Industry in Assam.

RESEARCH QUESTION

1. Whether AMTRON has been able to achieve the task of fostering economic development in Assam.
2. Whether AMTRON has helped in providing technical knowledge and training, preparing the projects and other support to the entrepreneurs of electronics Industry
3. Whether AMTRON succeeded in augmenting the pace of Electronics & Informatics Industry in Assam.

METHODOLOGY OF THE RESEARCH PROGRAMME

As denoted by very title of the thesis the main source of information have been the annual reports and other documents prepared by AMTRON.

Universe of the study

The universe refers to any collection of specified group of human being or of non human entities. It contains finite number of individuals, members or units from which sample can be drawn for the purpose of research.

In this project the universe included all the managers and executives of the AMTRON, Aspiring professionals those who have completed the computer courses offered by AMTRON and the users of AMTRON products and services

Data Collection

Two means of data collection was in this research work as:-

1. **Primary data**: - The primary data have been collected by visiting AMTRON and its branches and contracting personally the customers.
2. **Secondary data**: - Secondary data have been collected from AMTRON reports books, related books, journals and news papers.

Sample Size

In case of AMTRON product & services the main user is the different department of Assam Government. Since, AMTRON is the nodal agency of Govt. of Assam. Hence, in this case census method is applied as the number of variables is limited. However, in case of computer education & training programmes offered by AMTRON to aspiring professionals, sampling method is applied.

Presently AMTRON conducts training under DOEACC scheme at two different centers of Assam viz, Guwahati and Jorhat. Besides, the organization has organized its own training centers at various places of Assam known as DCC (District Computer Centre). Some courses are conducted by AMTRON through some Franchisees in all over Assam. Sampling has been drawn only from some selected DCC in which AMTRON it self run the courses.

The Researcher has divided the sample size in two Zones as

- a) Lower Assam Zone.
- b) Upper Assam Zone

Sampling Method

Researcher had taken 30 respondents covering both the zones on convenience basis for analysis. For collection of data mainly the questionnaire methods is selected. A questionnaire is prepared for the aspiring professional who have completed the computer courses offered by AMTRON

Research Instrument

To carry out research, the researcher had prepared a questionnaire consisting 25 questions in which the respondents were required to give just thick mark or cross mark in all most all questions.

Area covered

The initial plan was to collect information from almost all DCC of both the Zones. But at the time of the survey Computer courses were not started in all DCC. Hence, the researcher took two DCC from each zone in which computer courses was running successfully.

Data Analysis

The data are analyzed by preparing tables and shown the figures in one bar diagram and one Pie chart.

The researcher selected the five criteria to know about the satisfaction and dissatisfaction of the aspiring professionals with regard to computer courses offered by AMTRON and shown that in the bar diagram.

Researcher has selected four criteria to know the impact or benefits of the computer courses on the respondents and shown it in the Pie chart.

LIMITATION OF THE STUDY

The study contained some unavoidable limitation.

They are:-

1. It will not be possible to cover entire aspects of AMTRON within a specified time period.
2. It is very difficult to incorporate up to date data of Electronics Industries due to frequent changing & development of Electronics & IT Industry
3. The sample size selected may not be representing the entire universe because the size of the sample is limited to 30 people.

PLAN OF WORK

The thesis divided into the following Chapters:-

Chapter I - Introduction - an overview of the Electronics & IT Industry - its present position in India and Assam- Objectives of the study- Research Questions- Methodology of the Programme- Utility of the study- Limitation of the study

Chapter II - potentialities of Electronics and IT industry in Assam – Characteristics of Electronics & IT Industry – Prospective allied industries- Scope of Electronics & IT Industry in Assam

Chapter III - Organization Profile & Role of AMTRON in Popularizing Electronics and IT Industry in Assam – Organisational structure of AMTRON – Functions and Activities of AMTRON – In the development of Electronics Industry in Assam – In the development of It Industry in Assam – Commitment & Achievement of AMTRON.

Chapter IV – Performance evaluation in respect of Products and services of AMTRON – An empirical exercise – Introduction –Contribution of AMTRON towards economic development of Assam – Functions & activities of WEBEL(West Bengal Electronics Industry Development Corporation) – Benchmarking analysis of AMTRON & WEBEL

Chapter V – Analysis of Data collected from field survey –

Introduction - An opinion survey among computer training holders of AMTRON was conducted through a questionnaire and their views towards AMTRON and its computer course are presented in the fifth chapter.

**Chapter VI- Findings & suggestions – Findings- Suggestions -
Conclusions**

BIBLIOGRAPHY

A. BOOKS & THESIS

- 1) Cherunilam, Francis : - Industrial Economics (Indian Perspective)
1994, Himalaya Publishing House

- 2) Gulshan, Sachdeva : - Economy of North East (Policy, present Conditions & future possibilities) Konark publishers Pvt. Ltd. A-149, Main Vikash Marg, Delhi - 110092

- 3) Dhar, Dr. P.K :- The Economy of Assam (1999), Kalyani Publisher, Calcutta.

- 4) Mazumdar, A.K. : - Electronics industry in India (1980). An unpublished Ph. D Thesis, Gauhati University

- 5) Kakati, Prabhat Chandra :- ‘Rural Electrification in Assam since 1980: A study of Progress, Prospect, & Handicaps.’ An unpublished Ph. D Thesis, Gauhati University.

- 6) R.G.Desai :- ‘Information Technology

Technology in Business'
 Department of Management,
 B.H College, Howly, Assam

- 13) Weiner, C :- 'How the Transistor Emerged'
 IEEE Spectrum
- 14) Forester, T :- 'The Microelectronics Revolution'
 MIT Press, Cambridge, 1981
- 15) Wolff, M.F :- 'The Genesis of the
 Integrated Circuit' IEEE
 Spectrum

B. MAGAZINE & JOURNELS

- 1) Ashok H. Advani (Publisher) :- 'Business India', Wadia Building,
 17/19 Dalal Street Fort,
 Mumbai – 400001
- 2) Federation of Indian Chambers of Commerce & Industry : 'Business Digest', Federation House,
 Tansen Marg, New Delhi
- 3) Tony Joseph (Editor) : 'Business World', Express
 Building 3rd Floor, 9-10,
 Bahadur Shah Zafar Marg
 New Delhi – 110001

- 4) Rajiv Rastogi : 'Electronics Information & Planning' Department of Information Technology, New Delhi
Aravati Printers & Publishers (P) Ltd. W-30 Okhla –11 N.Delhi
- 5) Indian Commerce Association : 'The Indian Journal of Commerce' (Quarterly Publication), school of Management studies IGNOU, New Delhi
- 6) Centre for monitoring Indian Economy Pvt. Ltd. (CMIE) : 'Monthly Review of Indian Economy' 11 Apple Heritage, 54 – C Andhere –Kurla Road. Andhere (East), Mumbai
- 7) Living Media India Ltd. : 'Computers Today'
- 8) The Hindu : Survey of Indian Industry 2008
- 9) Bisweswar Deka : Assam Information Directory 3rd edition Published by – Techno Ed, Guwahati-3
- 10) Fiftieth Anniversary Issue :- 'Electronics' vol.53, 9th April 1980

C. PAPERS, ARTICLES & REPORTS

- 1) Ankush Bhuyan & Imtiaz Ali : ‘Electronics for North Eastern Region’ Articles submitted to press (The Assam tribune of 20th July 1975)

- 2) Dhiraj Bansal, Rajdeep Sharma & others : ‘The Indian Electronics Industry’ A Research article downloads from Internet.

- 3) Department of Economics & Statistics Govt. of Assam : ‘Economic Survey of Assam’ Statistical Hand Book

- 4) Industries & Commerce Department : Information Technology Government of Assam Policy of Assam (2000)

- 5) Industrial Techno-Economic Service Pvt. Ltd. (INTECOS) : ‘Cier’s Industrial Data Book 2000 905 Chiranjiv Tower, 43 Nehru Place, N Delhi

- 6) Information Technology Government of Assam : Annual Administrative Report 2007-08

- 8) Govt. of India, Ministry of Finance : Economic Survey 2007-08 Economics Division

D. Web sites

- | | |
|---|--|
| 1) www.amtron.in | AMTRON |
| 2) www.webel-india.com | WEBEL |
| 3) www.mit.gov.in | Ministry of Information
Technology |
| 4) www.commin.nic.in | Ministry of Commerce &
Industry |
| 5) http://commerce.nic.in | Department of Commerce |
| 6) www.indiansources.com | Electronics & Computer
Software Export Promotion
Council |
| 7) neidatabank@hub.nic.in | North Eastern Development
Finance Corporation Ltd. |

E. Radio Programe

- | | |
|----------------|--|
| 8) Big 92.7 FM | Discussion with General
Manager AMTRON
regarding activities of
AMTRON |
|----------------|--|



