

## V B. CENTRAL ELECTRONICS LIMITED

### 1. INTRODUCTION

Central Electronics Limited (CEL) holds a unique position among the family of Public Sector Enterprises in Electronics, with its emphasis on indigenous technology inducted from its in-house development and the national laboratories. Activities of CEL are focused on three areas:

- Solar Photovoltaic cells, modules and systems for a variety of rural and industrial applications.
- Selected Components and Systems in the field of Strategic Electronics.
- Selected Electronic Systems for Railway Safety & Signaling and Impressed Current Cathodic Protection of oil and gas pipelines.

### 2. PERFORMANCE IN 2003-04

#### 2.1 Operating Results

Production, Sales and Profit/Loss achieved during the year as compared to the previous year are given below.

(Rs. in crores)

	2002-03	2003-04
Production	68.10	65.24
Sales	65.59	63.78
Operating profit/ loss	(-) 1.86	(-) 1.23
Loss carried forward to Balance Sheet	(-) 2.80	(-) 2.36

#### 2.2 Exports

During the year total exports of the company was Rs. 641 lakhs as against Rs. 832 lakhs in previous year.

### 2.3 Other Highlights of 2003-04

- CEL successfully supplied, installed and commissioned 25KW SPV power plant using BIPB modules to Punjab Energy Developed Agency (PEDA).
- Process technology has been developed in house for use of 330 micron thick wafers as against 400 micron in Solar Cell Production.
- 200 Nos. of single entry Digital Axle counter worth Rs. 5 crore have been supplied to Indian Railways.
- Company has entered into MOU with M/s Eliop SA, a Spanish company for introduction of Solid State Inter Locking Systems to be used by Indian Railways.

### 3. PERFORMANCE IN 2004-05

#### 3.1 Operating Results

(Rs. in crore)

	2003-04 (30 Nov.)	2004-05 (30 Nov.)
Production	32.27	36.47
Sales	27.45	38.86
Operating Profit/ loss	(-) 2.23	(-) 1.78

#### 3.2 Exports

During 2004-05, exports have been Rs.16.46 Crores (till Nov.) as against Rs.1.98 Crores in 2003-04 (till Nov.).

### 3.3 Other Highlights of 2004-05

#### *Technology*

- Company has obtained International Standard Certification from ISPRA, ITALY for entire range of SPV modules (from 20Watt to 75 Watt) to be competitive in global market.
- Process standardization has been done for the use of 330 micron thick Silicon Wafers

for commercial production as a cost reduction measure.

- Installed one large size laminator for the production upto 150 Watt SPV modules in the production area of SPV.
- Developed and productionized screwless Al. channel terminal box meeting safety specification for export market.
- Continuous efforts to improve the process parameters for production of PCM have been introduced for better yield and quality.
- PZT 8 material has been developed for under water applications and new dielectric material for patch antenna to be used in mobile phones.

### ***Business***

- Procured export order worth Rs. 25 crores for PV modules from Germany, Austria and other European and Asian Markets.
- CEL plans to supply over 700 Nos. Universal Axle Counter worth Rs. 10 crores and 600 Nos. of single entry digital Axle counter worth Rs. 20 crores to Indian Railways.
- CEL completed supply of 4000 Nos. of C Band PCM to BEL and plan to deliver 3000 Nos. to LRDE.

### **4. FUTURE STRATEGY**

- To be a global player and a major domestic player in the area of Solar Photovoltaic Cells, Modules and Systems by upgrading the capacity from 2 MW to 10 MW and by productionization of higher wattage modules up to 150 Watt.
- To maintain leadership in the development, supply and commissioning of signalling, safety equipment to Indian Railways to meet their existing and emerging modernization needs.

- Expand capacity for the supply of strategic components such as PCM to DRDO Labs, Product portfolio in respect of PZT and Dielectric material for newer & newer applications using powder composition for Naval applications and consumer items like Mobile phones etc.

### **5. FOREIGN EXCHANGE RECEIPTS AND OUTGO**

During the year 2003-04, the company spent Rs.733 lakhs in foreign exchange.

The company earned foreign exchange worth Rs.196 lakhs during the year 2003-04 and Rs.1360 lakhs during April to November 2004.

### **6. ENERGY CONSERVATION**

The company being an electronic industry, its operations are not energy intensive. However, the company frequently evaluates its processes and plant & machinery to economise on the energy consumption. It has done redistribution of the loads in Solar Photovoltaic plant so as to make optimum use of its captive DG sets.

More than 1000 poplar plants have been planted. A nursery of poplar plants has been set up to provide saplings for further plantation next year. Thus the company is putting in efforts towards improvement of environment.

### **7. PARTICULARS OF EMPLOYEES**

In accordance with the Companies (particulars of employees) Rules 1975 read with Sub-section 2-A of Section 217 of the Companies Act 1956 as amended in 1988, none of the employees of the Company either employed throughout the year or for a part of the year under review was in receipt of remuneration more than minimum prescribed in the Rules.

**8. IMPLEMENTATION OF HINDI,  
INDUSTRIAL RELATIONS &  
HUMAN RELATIONS**

The Company had very cordial industrial relations during the year. The Management also initiated programmes for upgrading the skills of employees.

In order to ensure the use of Hindi, the employees continued to be trained in Prabodh, Praveen, Pragya Hindi Courses, Hindi typewriting and use of Hindi Computer. Hindi week was organized from 14.9.2004 to 28.9.2004. Various short time training programmes and workshops were conducted for workers and officers during the year.

Special workshops and various competitions in Hindi were organized and awards distributed to the winners

**9. WELFARE OF RESERVED  
CATEGORIES**

All Government directives relating to the reserved categories such as Scheduled Castes, Scheduled Tribes, Physically Handicapped, Ex-servicemen etc. continued to be implemented during the year. Total number of employees in these categories were 175 which represent about 25% of the total strength of the Company as on 31<sup>st</sup> March.2004.