

## IV - B CENTRAL ELECTRONICS LIMITED

### 1. INTRODUCTION

(Rs. Crores)

Central Electronics Limited continues to hold top position among other Public Sector Undertakings particularly in the field of SPV. CEL focuses on the following objectives:

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

### 2. PERFORMANCE IN 2004-05

#### 2.1 Operating Results

Production, Sales and Profit/Loss achieved during the year as compared to the previous years are given in the following table.

	2003-04	2004-05
Production	65.24	85.42
Sales	63.78	93.32
Operating profit/loss	(-) 1.23	1.74
Loss carried forward to Balance Sheet	(-) 2.36	(-) 0.56

#### 2.2 Exports

During the year, total exports of the company were Rs.28 Crores as against Rs.8.32 Crores in previous year.

#### 2.3 Major achievements of CEL during 2004-05

- Developed 150 Wp modules and is ready for commercial production.
- Obtained International Standards Certification from ISPRA, Italy for entire range of modules (from 20 Wp to 75 Wp) in production
- Developed and standardized process using 330-micron thick silicon wafers for bulk solar cell production.
- Developed modules (using screw less Al channel and terminal box meeting safety specs to IP 65.) to international quality standards suitable for mass production.
- Exported SPV modules of 70 Wp worth Rs. 28 crore to West Germany, Austria and other European and Asian markets.
- Procured and commissioned large size laminators suitable for the production of modules up to 150 Wp using 72 cells and also created test facilities for the same.

- Procured and supplied orders worth Rs.10 crores for 1000 nos. of Universal Axle Counter (UAC) and 20 crores for 500 nos. of Single Entry Digital Axle Counter (SDAC).
- Procured and supplied Rs.7.0 crores order for the design, supply, installation and commissioning of SPV powered Cathodic Protection System from IOC for the protection of gas pipeline.
- Procured and supplied orders worth for Rs 9 crores for supply and field installation of Block Proving Equipment.
- Completed development of Train Actuated Warning System (TAWS) at Level Crossings of Indian Railways and obtain RDSO approval and trial orders.
- Completed the supply of 4000 nos of C – band PCMs to BEL and produced 3000 nos. of for LRDE and offer for inspection.
- Developed technology of PZT 8 material for future technologies in Sonar area and Dielectric material suitable for Patch Antenna used in Cellular/Mobile phones with an aim to expand product portfolio by adding one or two items for high volume applications.

### 3. PERFORMANCE IN 2005-06

#### 3.1 Operating Results

(Rs. Crores)

	2004-05 (31 Oct)	2005-06 (31 Oct)
Production	29.93	44.62
Sales	31.84	44.99
Operating profit/loss	(-) 2.11	(-) 2.35

### 3.2 Exports

During 2005-06, exports have been Rs.15.20 Crores (till October), as against Rs.10.54 Crores in 2004-05 (till October).

### 4. FUTURE STRATEGY

- To standardize the process for using 6” wafers (Multi Crystalline and Mono Crystalline) to produce 200/210-Watt Modules and processing of 270-micron wafers in commercial production of SPV.
- Augment production capacity for Digital Axle Counter installing Automated Test Equipment (ATE) for production testing, to cater for substantially increased demand expected in coming years.
- To initiate TPAWS jointly with other agencies for induction in Indian Railways.
- Initiate necessary action for augmentation of production capacity of PCMs to cater for large projected demand of PCMs in coming years.
- To develop and design heat fuse 551 and productionize the same to meet the demand of defence after necessary MoU between CEL and OFK.

### 5. FOREIGN EXCHANGE RECEIPTS AND OUTGO

During the year 2004-05, the company spent Rs.10.37 crores in foreign exchange. The company earned foreign exchange worth Rs.25.49 crores during the year 2004-05 and Rs.12.61 crores during April to September 2005.

## **6. ENERGY / ENVIRONMENT 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 leads in Solar Photovoltaic plant so as to make optimum use of its captive DG sets.

Poplar plants have been planted and a nursery has been set up. 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 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 Praboth, Praveen, Pragya Hindi Courses, Hindi typewriting and use of Hindi Computers. Hindi fortnight was organized from 14.09.2005 to 28.09.2005. 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. Number of employees in these categories was 190, which represent about 28% of the total strength of the company as on 31<sup>st</sup> March, 2005.