

MOSEBAER INDIA LIMITED

Unit Profile:

Moser Baer India Ltd., headquartered in New Delhi, India, was established in 1983 and is the second largest manufacturer of optical media disc in the world with a 16.5% market share of the global recordable optical media market. The Company is a front Runner in developing cutting edge technologies for recordable optical media, constantly innovating and introducing new products and processes. Moser Baer India, through its wholly owned subsidiary, Moser Baer Photo Voltaic Limited, is currently in the process of establishing a state of the art unique 80 MW silicon PV manufacturing facility near New Delhi. The company currently has over 5,000 full-time employees and multiple manufacturing facilities in the suburbs of New Delhi.

Fast Facts:

- India based company with nearly two decades of experience in removable data storage.
- **WORLD'S SECOND LARGEST** Optical Media Manufacturer.
- **NUMBER ONE** in the fast-growing Indian market.
- **LOWEST COST** manufacturer of Optical media in the world.
- **R&D** –focused Company.
- Focused on **OPTICAL** and **MAGNETIC DATA** storage media & diversified into **PHOTOVOLTAIC** and other Businesses.
- **OEM** supplier to all the **12 LEADING STORAGE MEDIA BRANDS** in the world.
- **FIRST TO MARKET** on HDDVD.

Energy Consumption


Description	Unit	2004-2005	2005-2006	2006-2007
Electrical Energy	KWh/ Million	CDR- 29646 DVDR- 118821	CDR- 29646 DVDR- 118821	CDR- 28485 DVDR- 91667
Energy consumption / CDR	KWh	0.029	0.029	0.028
Energy consumption / DVDR	KWh	0.118	0.118	0.091
Energy as % of total cost of Manufacturing	%	8.01	5.23	5.15

Energy Conservation Commitment, Policy and Set up

Moser Baer is a process industry and is manufacturing Optical Media Products like CDR/RW/ROM, DVDR/RW/ROM, HDDVD, DL, BD-R and continuously upgrading the technology and process. Since Energy contribute a major part of inputs in manufacturing. Moser Baer is paying a lot of attention to conserve it and continuously improving its position in the competitive market.

Various actions has been taken and/or planned for future action in this direction. Right from the beginning the unit has been involved in various continuous improvement and Energy conservation measures. Our Energy conservation cell is headed by Sr.GM-Projects and Utility, the committee members meet periodically to review the new identified Energy conservation schemes and improvement opportunities.


Energy Policy:



Energy Policy

We are committed to the generation and utilization of Energy in a most efficient, cost effective and environmentally responsible manner. This will be achieved through:

- a) Enhancing employee awareness**
- b) Energy Management programs**
- c) Reducing Greenhouse effect**
- d) Lowest specific fuel consumption**
- e) Continually exploring new technologies and processes for Energy Management.**



Deepak Puri
(Chairman & Managing Director)

MOSER BAER INDIA LTD. 66 Udyog Vihar Greater Noida G. B. Nagar 201306 India Phone 91-120-4386000 Fax 91-120-4386999 www.moserber.in

Organization set up of Energy Conservation is as follows :

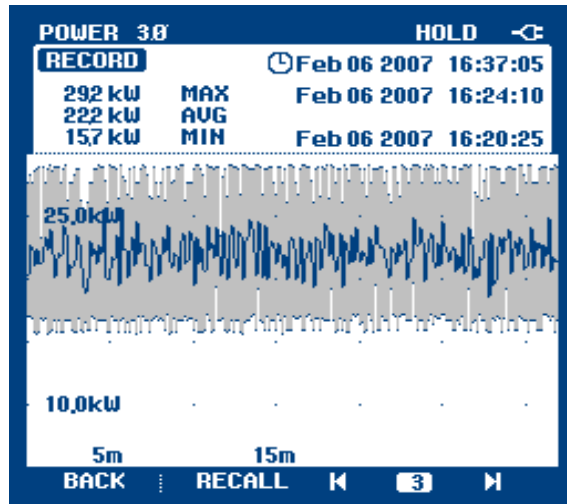
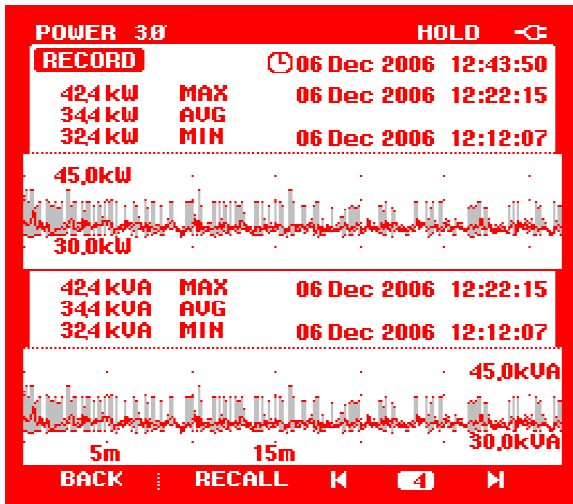
Installation of 5 nos. of Heat Exchanger unit in Lube oil separator circuit



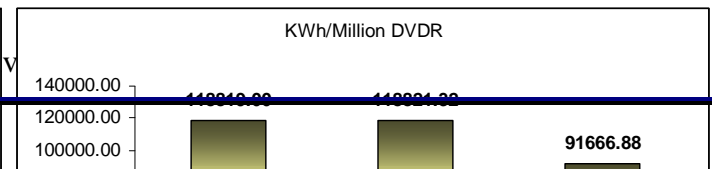
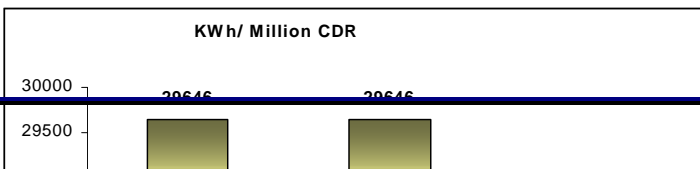
Power consumption data ---

a) Power consumption before PHE Installation

b) Power consumption after PHE Installation



Energy Consumption in KWh:



During 2005-06 Energy consumption is same as previous year due to Ramp ups and special products manufacturing.

Energy Conservation Plans and Targets

Energy conservation plan for the year 2007-08 is listed below.

Measures to reduce power load at GN Plant

S.No.	Action Point	Saving Kwh	Responsibility	Timeline	Category
1	1.1 All lines to be operated on standby exhaust system with modified pulley for all 3 plants.	300	Sachin Goel	10/07	Energy Conservation
	1.2 Indents for modified pulley for Plant3 and also for all main blowers, to be immediately raised. Delivery within a week.		Sachin Goel/ Rajesh Gupta	17/07	Energy Conservation
2	2.1 Install Split ACs in OPS room and stop using Chilled Water in JB plant AHUs. Sachin to ensure that temp. in OPS room is maintained at 23±2 Deg.	300	JS Dhaka/ Sachin Goel	11/07	Energy Conservation
3	3.1 Stop all AHUs in JB plant (subject to 48Hrs trial by JB plant)	100	Sachin Goel	11/07	Energy Conservation
	3.2 Hire Almonard fans to improve Air Circulation in JB Plant			11/07	
4	4.1 Experiment increasing temp. in Plant1 Hall1 (Origin Hall) to a max. of 26°C.	100	Sachin Goel/ JS Bist	11/07	Energy Conservation
5	5.1 Compressed Air Header Pressure to be reduced from 6.7-6.9 to 6.4-6.6 bar.	150	Sachin Goel	10/07	Energy Conservation
	5.2 Reduce all Air Gun pressure to 2bar and reduce Air Flow to these guns by putting a reducer.		DN Shukla	13/07	Energy Conservation
6	6.1 Admin Block Airconditioning startup to be delayed to 09:00Hrs and stoppage to be pre-poned to 20:00Hrs.	15	Sachin Goel	09/07	Energy Conservation
	6.2 Temp Control of Admin Block to be increased to 27°C.				
7	7.1 Reduce Lighting Load at GN from 1.0MW by 25%.	250	Manish Tayal	15/07	Energy Conservation
8	8.1 Installation of VFDs in balance AHUs and Cooling Towers. (Capex of 85lakhs to be approved)	250	Sachin Goel	15/10	Energy Conservation
9	9.1 Transfer Heat Treatment Plant Load to a separate DG set on standalone basis (outside of GN Grid).	350	Manish Tayal	15/08	Additional DG
10	10.1 PC Recycling plant to be operated on a separate DG set on standalone basis (outside of GN Grid).	500	Manish Tayal	30/10	Additional DG
11	11.1 Outsource Cake Box production to the extent of Moulds/capacity available with vendors.	150	Arun Kapoor	10/07	Outsourcing
12	12.1 Review if we can defer MFD moulding or reduce output restricted to One IMM.	70	Arun Kapoor	10/07	Capacity Reduction
13	13.1 Dryer 2 from 36 Challenger1 lines to be removed.	80	DN Shukla	30/08	Energy Conservation
14	14.1 Climate Unit for Cooler on Origin lines to be switched-off. Cooler to be fed from Dye Coater Climate Unit.	80	DN Shukla	09/08	Energy Conservation
15	15.1 Stop PQ2 line after checking expiry date of stock of PQ2 ink.	60	Arun Kapoor	10/07	Capacity Reduction
16	16.1 DVD Video Box mould to be outsourced.	70	Arun Kapoor	20/07	Outsourcing
17	17.1 Outsource Slim Case capacity upto equivalent of 5 slim-set lines subject to viability calculations & Management approval.	450	Arun Kapoor / Rajesh Gupta	TBD	Outsourcing
18	18.1 High neck spacer to be outsourced. One more mould to be fabricated.	75	Arun Kapoor / JS Dhaka	25/07	Outsourcing
19	19.1 Hall3 Plant3 HVAC to be started only on VP(O) instructions.	50	Sachin Goel	10/07	Energy Conservation
	19.2 All Plant3 HVAC startup requirements to be pre-approved from VP(O).	-		-	Energy Conservation

3400

Environment and Safety

As our Business is growing larger day-by-day it is imperative to have focused strategic approach on Environment, Health and social issues as part of good business principle and corporate governance. We have a Corporate Social Responsibility department at Head Office centrally looking after strategic vision and objectives on health and safety. Further to that at operational units we have separate EHS (Environment, Health and Safety) departments and Occupational and Health Department acting as the key drivers. TQM department centrally working as key support function to EHS department for driving the short/long term improvement objectives

EHS Department acts as a key driver for initiating all the activities related to safety including Fire prevention and protection. Along with EHS there are ERT(Emergency Response Team) and QRT (Quick Response Team) teams for handling fire safety.

Company has a full-fledged M.I.room, which is supported by qualified Medical practitioner and four nursing Staff round the clock basis. The M.I.Room is equipped with all basic infrastructures like Ambulance, adequate number of beds, and all standard emergency medicines and equipment.

Best Practices in EHS:

- Green Partner Management System Implemented- Highest worldwide ratings for Green Partner Certification by Key global OEMs...which includes more stringent requirement compared to RoHS (Non use of banned Substances)
- Annual consents for Air & Water from Pollution Control Board.
- Sampling of Air & Water.
- Chemical spillage Audit.
- Recycle, Reuse & Reduction and Replace ---4R approach.
- Tree Plantation & Greenery.
- Sewage Treatment Plant
- Heat Treatment of Wooden Pallets.
- Management program on prioritized significant impacts.
- Noise Monitoring survey of the plant
- Drinking water testing
- Periodic Medical Examination – Statutory as well as on risk basis
- Weekly EHS Audit
- Conducting EHS Quiz (greater awareness build up)
- Following Rigid Plastic Packaging Container (RPPC)-California Integrated Waste Management Board
- Work Zone Monitoring, (IAQ, RSPM)