
NATIONAL ENERGY CONSERVATION AWARDS - 2007

Introduction

Energy efficiency is a key component of the national energy strategy to ensure adequate and equitable energy supply in the country. Energy conservation measures lead to lower energy costs for energy users, enhance competitiveness of the economy and reduce the vulnerability of the country to the volatility in the prices of imported fuels.

The 10th plan period (2002-07) marked the enactment of the Energy Conservation Act, 2001 and setting up of the Bureau of Energy Efficiency (BEE) at the national level. The EC Act has provided the mandate to BEE to implement the provisions of the Act, and spearhead the improvement in energy efficiency of the economy through various regulatory and promotional measures.

One of the voluntary innovative schemes, initiated by the Government of India, Ministry of Power, to promote energy conservation has been the Energy Conservation Awards. BEE coordinates the Energy Conservation Awards scheme of the Ministry of Power.

These annual awards recognize innovation and achievements in energy conservation by industry, buildings and zonal railways which provide specific examples of best practices which raise awareness about energy conservation potential and implementation. These examples suggest the potential for large-scale replication, and of concrete measures which can help mitigate global warming.

The Award scheme recognizes best practice in 33 sub-sectors from large and medium scale industries, 3 sub-sectors from small scale industries, 4 sub sectors from the buildings sector, and in zonal railways.

Response

The response from the industries, buildings, hotels, hospitals, shopping malls, and zonal railways to the Energy Conservation Award has been encouraging. The EC Award has become very popular among the industrial and commercial units, as is evident from increasing participation level (from 123 in 1999 to 384 in 2007).

Award Scheme

An Energy Conservation Award Committee was set up under the Chairmanship of Secretary (Power) for deciding on the award winners. The members of the Committee were drawn from the Ministry of Power, Central Electricity Authority (CEA), National Productivity Council (NPC), Confederation of Indian Industry (CII), and from the Bureau of Energy Efficiency (BEE) which also provided the administrative and technical support to the committee. The Ministry of Power (MOP) had also set up a Technical Sub-Committee to assist Award Committee in the finalization of Awards.

The Awards

The Award Committee considered and evaluated the nominations received for the year 2007 from industries, office buildings, hospitals, hotels, shopping malls, and zonal railways. The Award Committee this year has selected 2 units for Top Rank Award, 21 units for First Prize, 19 units for Second Prize and 20 units for Certificate of Merit. The awards are recognition of their demonstrated commitment to energy conservation and efficiency

Performance indicators of Award Scheme

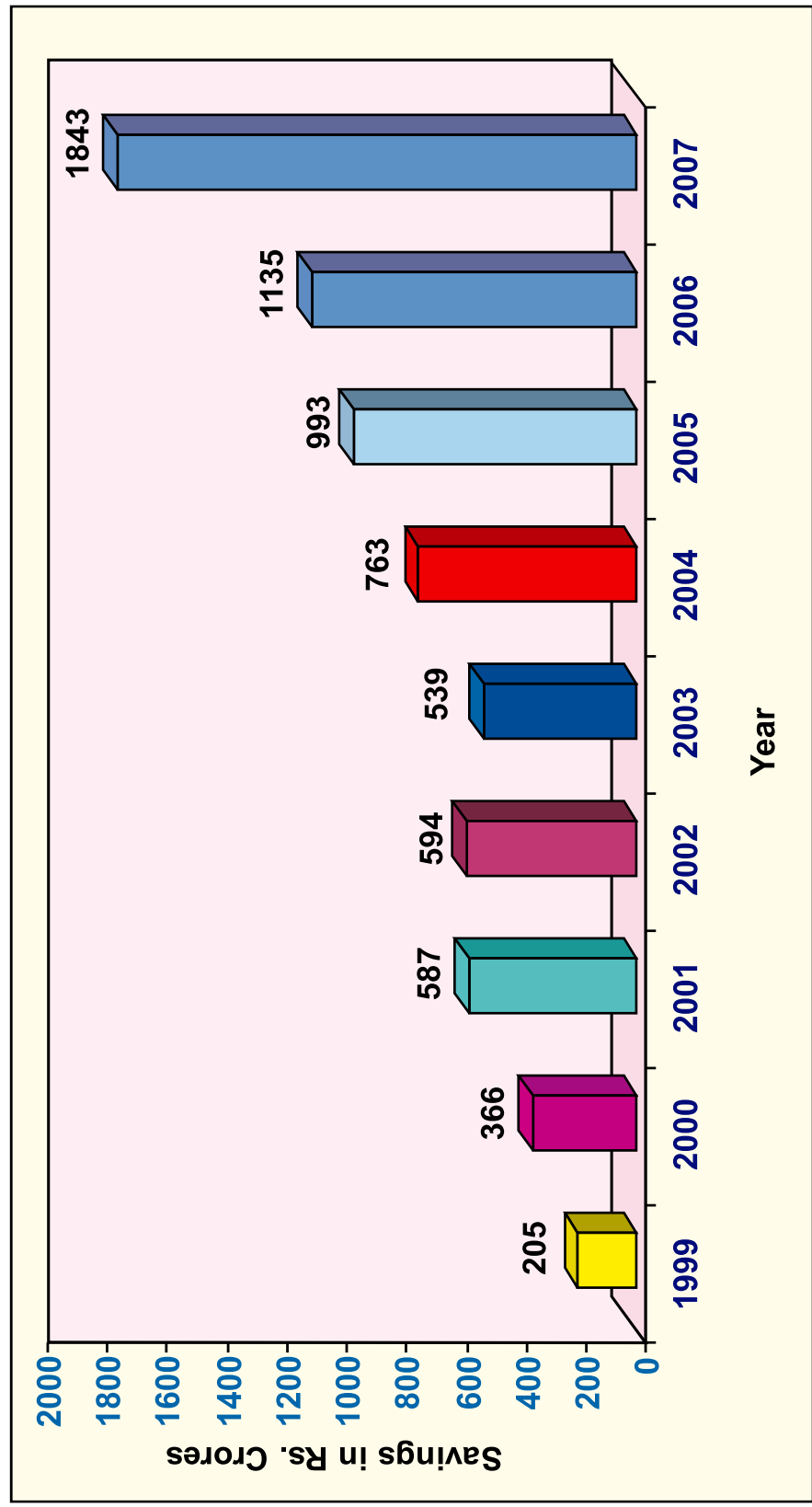
The Award Scheme has motivated the participating units to undertake serious efforts in saving energy. The participating units of 2007 Awards have collectively invested Rs. 2923 Crores in energy conservation measures, and achieved a monetary savings of Rs. 1843 Crores every year, implying a very short payback period of 19 months only; once again proving the fact that energy conservation is a least cost option. The participating units have also saved electrical energy of 1620 million kWh of electrical energy, which is equivalent to the energy generated from a 308 MW thermal power station at a PLF of 60%. In other words, these participating units have avoided the installation of power generating capacity equivalent to 308 MW thermal power station in 2006-07, which would otherwise have been required to meet the power demand of these units.

In the last 9 years of Award scheme of the period 1999-2007, the participating units have collectively saved Rs. 7025 Crores per year and the investment made on energy efficiency projects was recovered back in 18.5 months. In energy terms, 1420 MW of electrical power, 16 lakhs kilolitre of oil, 52 lakhs metric tonne of coal and 19 billion cubic metre of gas was saved, through the energy conservation measures of the participating units.

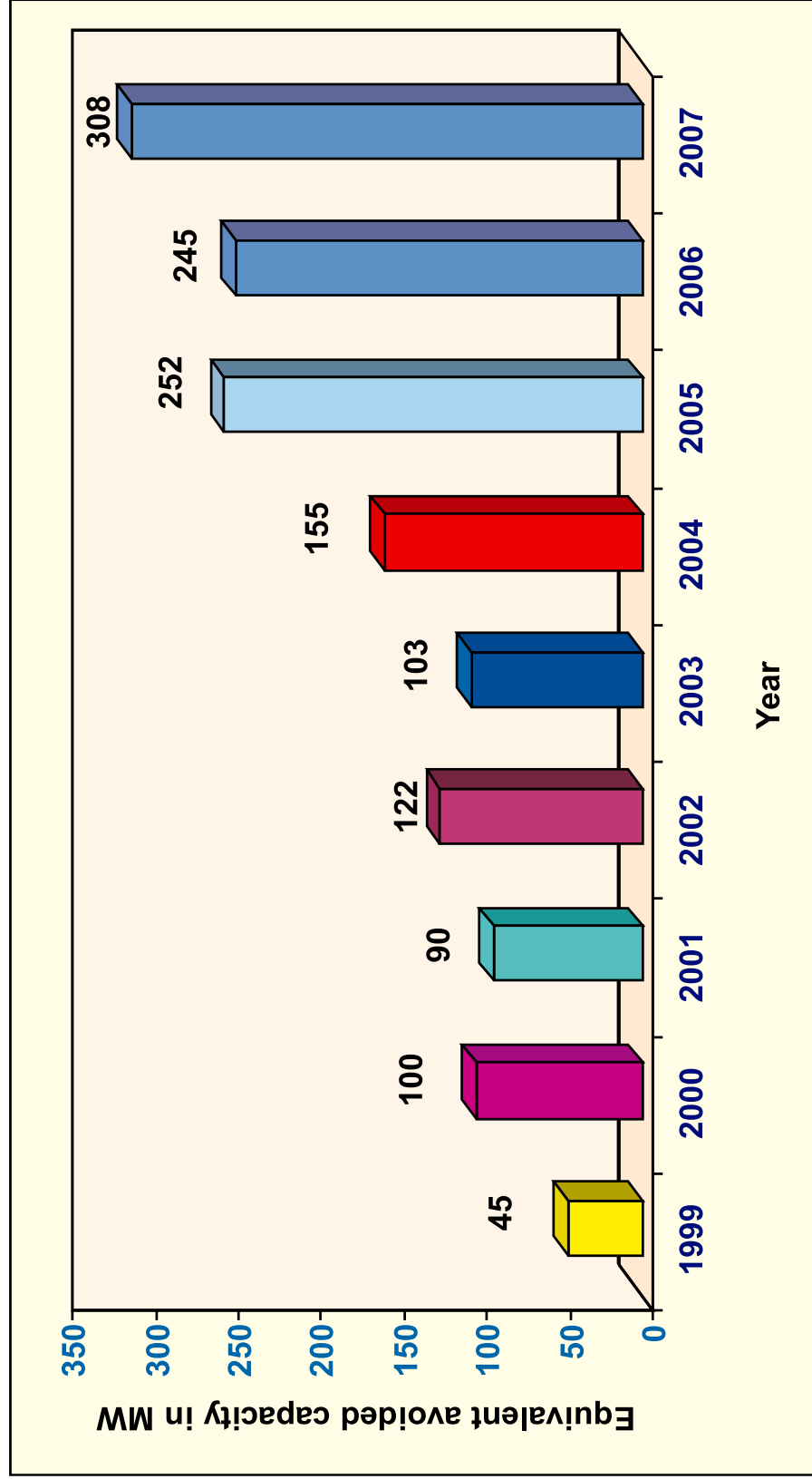
The progressive industrial units and other establishments have already realized the cost effectiveness of energy conservation measures and honouring their efforts on National Energy Conservation Day, gives a message to thousands of other industrial units and establishments who may have not yet fully utilized their cost effective potential through energy conservation.

It is hoped that National energy Conservation Award Scheme would help in motivating the other energy consumers in joining and promotion of a nation wide energy conservation movement.

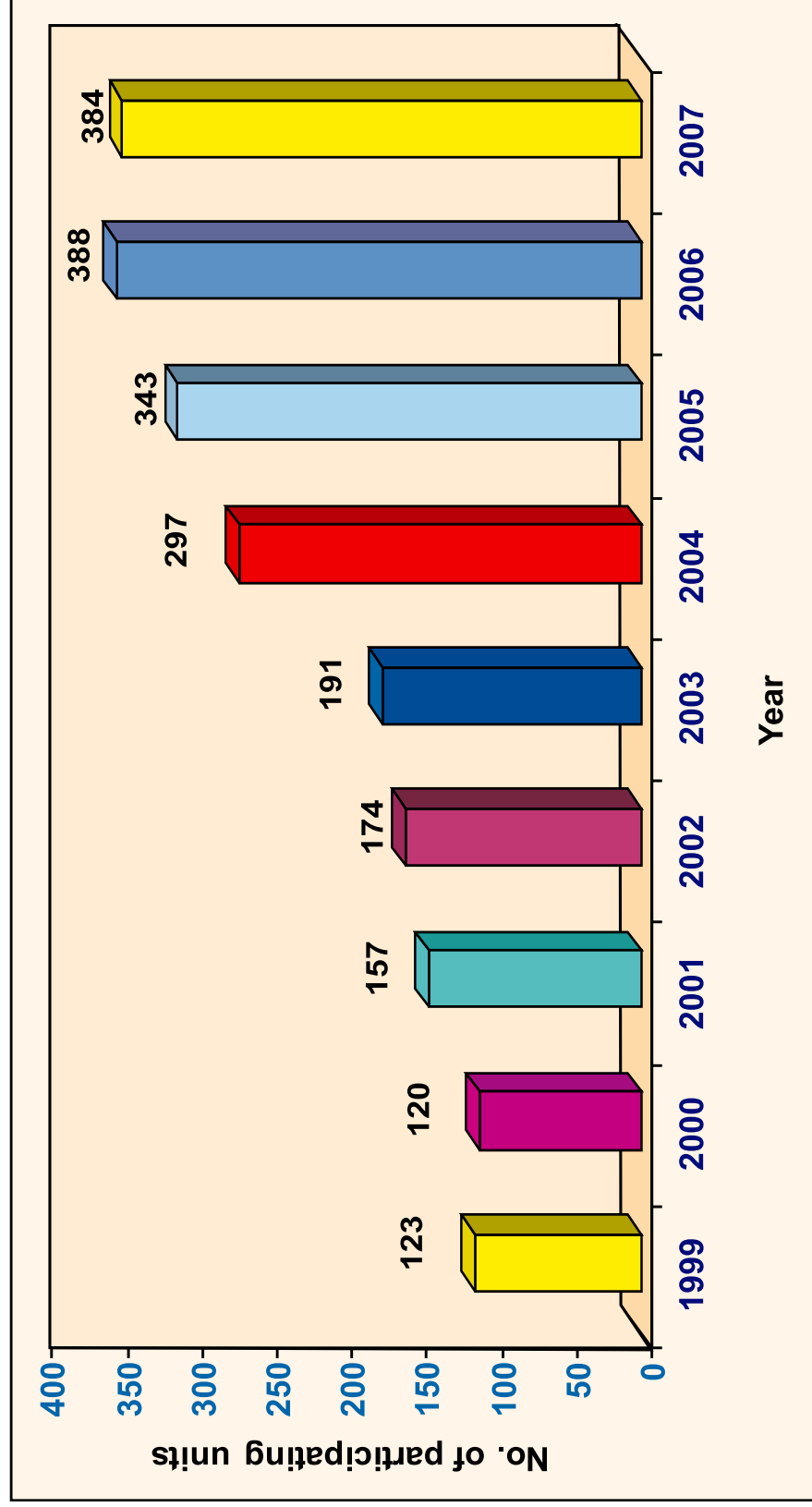
**MONEY SAVINGS ACHIEVED PER YEAR BY PARTICIPATING
UNITS IN THE NATIONAL ENERGY CONSERVATION
AWARD SCHEME (1999-2007)**



ELECTRICAL ENERGY SAVING IN TERMS OF EQUIVALENT AVOIDED CAPACITY IN (MW)



ENCOURAGING RESPONSE FROM INDIAN INDUSTRIAL AND OTHER ESTABLISHMENTS IN THE “NATIONAL ENERGY CONSERVATION AWARD SCHEME” (1999-2007)



SALIENT FEATURES OF NATIONAL ENERGY CONSERVATION AWARDS – 2007

ANNUAL ACHIEVEMENT BY AWARD PARTICIPATING UNITS FROM INDUSTRIAL SECTOR, OFFICE BUILDINGS, HOTELS, HOSPITALS, SHOPPING MALLS AND ZONAL RAILWAYS IN THE YEAR 2006-2007

1. MONETARY SAVINGS

Annual Savings	:	Rs. 1843 Crores
One time Investment	:	Rs. 2923 Crores
Average payback Period	:	19 months



2. ANNAUL ENERGY SAVINGS

Electricity	:	1620 million kWh (or Avoided Capacity Equivalent to a 308 MW Thermal Power Station)
Furnace Oil	:	1.25 lakhs Kilo Litres (KL)
Gas	:	15379 lakhs cubic metres
Coal	:	5.86 lakhs Metric Tonnes (MT)

**YEAR WISE ENERGY SAVINGS ACHIEVED BY
PARTICIPATING UNITS IN MINISTRY OF POWER'S
ENERGY CONSERVATION AWARD SCHEME
(1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006 & 2007)**

Year	No. of participating units	Annual Savings in Rs. Crores	One time Investment in Rs. Crores	Electrical Energy Saving		Furnace Oil Savings in Lakhs KL	Coal Savings in Lakh Metric tonnes	Gas savings in Lakh Cubic Metres
				Million kWh	Equivalent Avoided Capacity in MW			
2007	384	1843	2923	1620	308	1.25	5.86	15379
2006	388	1135	1266	1288	245	1.19	5.17	29044
2005	343	993	1319	1327	252	2.40	7.58	13122
2004	297	763	1364	814	155	2.49	5.37	18585
2003	191	539	1071	542	103	2.21	12.65	73181
2002	174	594	691	641	122	1.7	7.4	35588
2001	157	587	659	485	90	2.21	4.79	3929
2000	120	366	630	524	100	1.327	0.64	707
1999	123	205	940	205	45	1.62	2.15	2444
Total 9 years		7,025	10,863	7,446	1,420	16.397	51.61	1,91,979

NATIONAL ENERGY CONSERVATION AWARD WINNERS - 2007

ALUMINIUM

- 1st Prize* : Hindalco Industries Limited, Hirakud Smelter, Hirakud (Orissa)
2nd Prize : Hindalco Industries Limited, Renukoot, Sonebhadra (Uttar Pradesh)

AUTOMOBILE

- 1st Prize* : Mahindra & Mahindra Limited, Zaheerabad Unit, Medak (Andhra Pradesh)
2nd Prize : Mahindra & Mahindra Limited, Satpur, Nashik (Maharashtra)
Certificate of Merit : General Motors India Private Limited, Halol, Distt. Panchmahal (Gujarat)

CEMENT

- 1st Prize* : Prism Cement Limited, Manakahari, Satna (Madhya Pradesh)
2nd Prize : Shree Cement Limited, Bangur Nagar, Beawar (Rajasthan)
Certificate of Merit : Ultra Tech Cement Limited, Hirmi Cement Works, Raipur (Chhattisgarh)

CHEMICALS

- 1st Prize* : Rallis India Limited (Agrochemical-Division), Turbhe, Navi Mumbai (Maharashtra)
2nd Prize : IOL Chemicals and Pharmaceuticals Limited, Barnala (Punjab)
Certificate of Merit : 1. Manganese Ore (India) Limited, Electrolytic Manganese Di-Oxide Plant, Nagpur (Maharashtra)
2. Excel Crop Care Limited, Ruvapari Road, Bhavnagar (Gujarat)

CHLOR-ALKALI

- 1st Prize* : Grasim Industries Limited – Chemical Division, Nagda (Madhya Pradesh)
2nd Prize : Gujarat Alkalies and Chemicals Limited, Dahej, Distt. Bharuch (Gujarat)

CONSUMER GOODS

- 1st Prize* : Carrier Airconditioning & Refrigeration Limited, Kherki Daula, Gurgaon (Haryana)
Certificate of Merit : LG Electronics India Pvt. Ltd.(Pune Plant), Tal - Shirur, Pune (Maharashtra)

DAIRY

- 2nd Prize* : 1. Sumul Dairy – Surat District Co-operative Milk Producers' Union Ltd., Surat (Gujarat)
2. Hassan Dairy – A Unit of Hassan Co-operative Milk Producers' Societies' Union Ltd., Hassan (Karnataka)
Certificate of Merit : Mother Dairy – A Unit of Karnataka Milk Federation, Yelahanka, Bangalore (Karnataka)

DRUGS & PHARMACEUTICALS

- 2nd Prize* : IPCA Laboratories Limited, Sejavata, Ratlam (Madhya Pradesh)
Certificate of Merit : Orchid Chemicals & Pharmaceuticals Limited – Alathur Unit, Kanchipuram (Tamil Nadu)

EDIBLE OIL / VANASPATI

1st Prize : Ruchi Soya Industries Limited, Taluk: Uthakottai, Distt. Tiruvallur (Tamil Nadu)

FERTILIZERS

1st Prize : Indian Farmers Fertiliser Cooperative Limited, Phulpur Unit-I, Ghiyanagar, Allahabad (Uttar Pradesh)

2nd Prize : Indian Farmers Fertiliser Cooperative Limited, Phulpur Unit-II, Ghiyanagar, Allahabad (Uttar Pradesh)

Certificate of Merit : 1. Coromandel Fertilisers Limited, Visakhapatnam (Andhra Pradesh)
2. Godavari Fertilisers and Chemicals Limited, Kakinada (Andhra Pradesh)

FOOD PROCESSING

1st Prize : GlaxoSmithKline Consumer Healthcare Limited, Sonapat (Haryana)

INTEGRATED STEEL PLANTS

1st Prize : Jindal Steel and Power Limited, Raigarh (Chhattisgarh)

Certificate of Merit : Rourkela Steel Plant-Steel Authority of India Limited, Rourkela (Orissa)

MINING

1st Prize : Manganese Ore (India) Limited- Chikla Mine , P.O.Chikla, Distt. Bhandara (Maharashtra)

2nd Prize : West Bokaro Division, Tata Steel Limited, Hazaribag (Jharkhand)

PETROCHEMICALS

1st Prize : Reliance Industries Limited – Hazira Manufacturing Division, Surat (Gujarat)

2nd Prize : 1. Reliance Industries Limited – Vadodara Manufacturing Division, Vadodara (Gujarat)
2. IndoRama Synthetics (India) Limited, Butibori, Nagpur (Maharashtra)

PULP & PAPER

1st Prize : ITC Limited – Paperboards and Specialty Papers Division, Unit: Tribeni, Hooghly (West Bengal)

Certificate of Merit : 1. Ballarpur Industries Limited, Unit-Bhigwan, Distt. Pune (Maharashtra)
2. Ballarpur Industries Limited, Unit-Ashti, Distt. Gadchiroli (Maharashtra)
3. JK Paper Mills (A Unit of JK Paper Ltd.), Jaykaypur, Rayagada (Orissa)

REFINERY

1st Prize : Hindustan Petroleum Corporation Limited - Visakh Refinery, Malkapuram Post, Visakhapatnam (Andhra Pradesh)

2nd Prize : Numaligarh Refinery Limited, Golaghat, Guwahati (Assam)

Certificate of Merit : Guwahati Refinery- Indian Oil Corporation Limited, Guwahati (Assam)

STEEL RE-ROLLING

1st Prize : Jindal Stainless Limited (Cold Rolling Division), Hissar (Haryana)

SUGAR

1st Prize : KCP Sugar and Industries Corporation Limited, Vuyyuru, Distt. Krishna (Andhra Pradesh)

TEXTILE

Top Rank Award : Indian Rayon (A unit of Aditya Birla Nuvo Limited), Rayon Division, Veraval (Gujarat)

1st Prize : Maral Overseas Limited (Sarovar Plant), Khalbujurg, Khargone (Madhya Pradesh)

2nd Prize : Nahar Industrial Enterprises Limited, Unit: Nahar Fabrics, Lalru, Mohali (Punjab)

Certificate of Merit : Jaya Shree Textiles (A Unit of Aditya Birla Nuvo Limited), Rishra, Hooghly (West Bengal)

TYRE

Top Rank Award : TVS Srichakra Limited, Vellaripatti, Madurai (Tamil Nadu)

GENERAL CATEGORY

1st Prize : Kennametal India Limited, Tumkur, Bangalore (Karnataka)

2nd Prize : ITI Limited, Mankapur, Gonda (Uttar Pradesh)

Certificate of Merit : 1. Godrej & Boyce Mfg. Co.Limited, Vikhroli, Mumbai (Maharashtra)
2. Kirloskar Brothers Limited, Kirloskarvadi, Distt. Sangli (Maharashtra)

OFFICE BUILDINGS

1st Prize : Department of Telecommunications, Sanchar Bhawan, New Delhi

2nd Prize : Bharat Sanchar Nigam Limited, Telephone Exchange, Bangalore East, Bangalore (Karnataka)

Certificate of Merit : Divisional Railway Manager's Office, North Western Railway, Jaipur (Rajasthan)

HOTELS

2nd Prize : ITC The Maurya, New Delhi

HOSPITALS

1st Prize : Batra Hospital and Medical Research Centre, New Delhi

2nd Prize : Divisional Railway Hospital, Ajmer (Rajasthan)

ZONAL RAILWAYS

1st Prize : Western Railway, Churchgate, Mumbai (Maharashtra)

2nd Prize : North Eastern Railway, Gorakhpur (Uttar Pradesh)

Certificate of Merit : 1. North Western Railway, Hasanpura Road, Jaipur (Rajasthan)
2. South Central Railway, Rail Nilayam, Secunderabad (Andhra Pradesh)

INDUSTRIAL SECTOR

