

***SECURING NCL's FUTURE :  
REFLECTIONS AND CHALLENGES***

***Dr. S. Sivaram  
Director  
National Chemical Laboratory  
Pune***

***Address delivered on***

***1 July 2002***

## ***DIRECTORS OF NCL***

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- **Professor Ed McBain (1949-52)**
- **Professor Robert Finch (1952-55)**
- **Professor K. Venkataraman (1955-68)**
- **Professor B.D. Tilak (1968-79)**
- **Dr. L.K. Doraiswamy (1979-89)**
- **Dr. R.A. Mashelkar (1989-95)**
- **Dr. P. Ratnasamy (1995-02)**

# ***MY MENTORS***

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- **Professor C.N.R. Rao (1965 - )**
- **Professor H.C. Brown (1967 - )**
- **Professor J.P. Kennedy (1971 - )**
- **Dr. S. Varadarajan (1974 - )**
- **Mr. Lovraj Kumar (1978 - )**
- **Dr. R.A. Mashelkar (1978 - )**

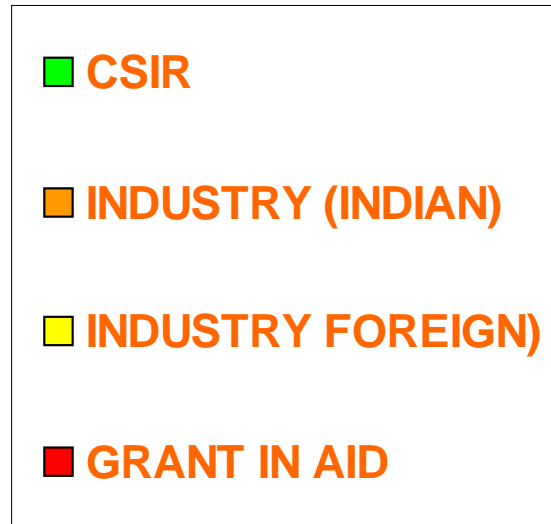
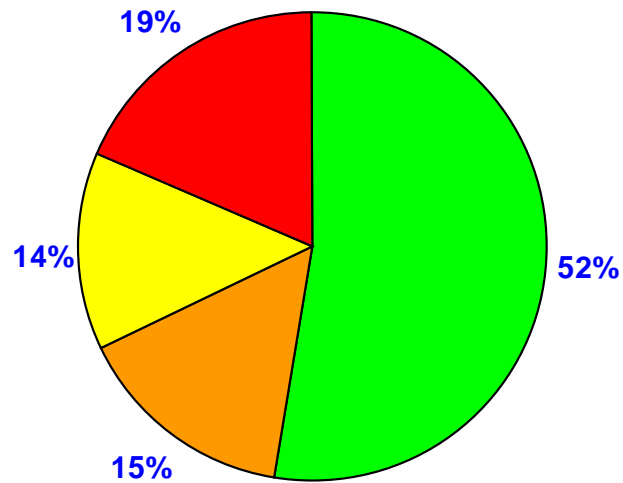
**Know the past, to know the present**  
**Reflect on the future, to change the**  
**present**

***A Chinese Proverb***

# ***NCL PERFORMANCE INDICATORS***

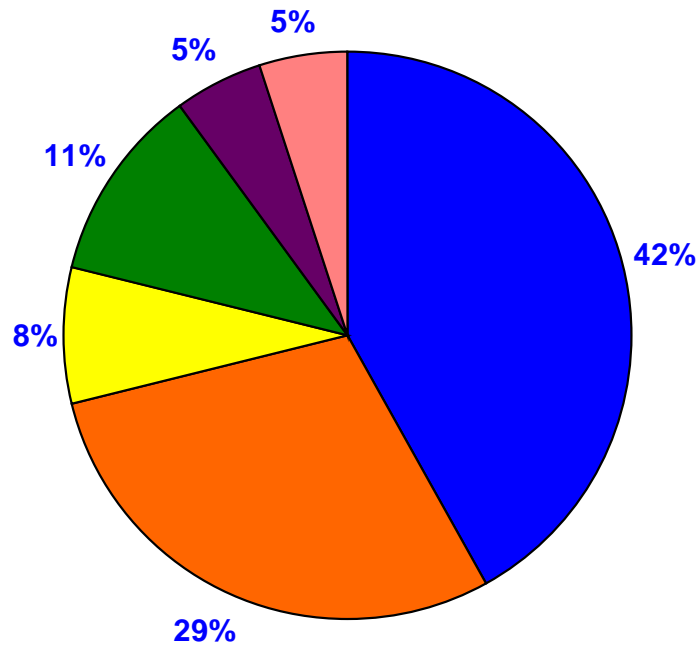
<b>Key parameters</b>	<b>1990</b>	<b>1995</b>	<b>2000</b>
<b>Scientific staff</b>	<b>383</b>	<b>336</b>	<b>321</b>
<b>Ph.D. awarded</b>	<b>30</b>	<b>28</b>	<b>33</b>
<b>Patents</b>			
<b>Indian (F)</b>	<b>52</b>	<b>43</b>	<b>65</b>
<b>Indian (G)</b>	<b>7</b>	<b>16</b>	<b>22</b>
<b>Foreign (F)</b>	<b>16</b>	<b>17</b>	<b>40</b>
<b>Foreign (G)</b>	<b>6</b>	<b>12</b>	<b>17</b>
<b>Publications</b>	<b>164</b>	<b>255</b>	<b>291</b>
<b>Extra budgetary revenue (in lakhs)</b>	<b>357</b>	<b>920</b>	<b>2747</b>
<b>Per capita publications</b>	<b>0.43</b>	<b>0.76</b>	<b>0.91</b>
<b>Per capita EBR</b>	<b>0.93</b>	<b>2.74</b>	<b>8.56</b>

**NCL INCOME(2001-2002)  
(FROM WHERE IT CAME)**



**TOTAL : Rs 60 crores**

**NCL EXPENDITURE(2001-2002)  
(WHERE IT WENT)**

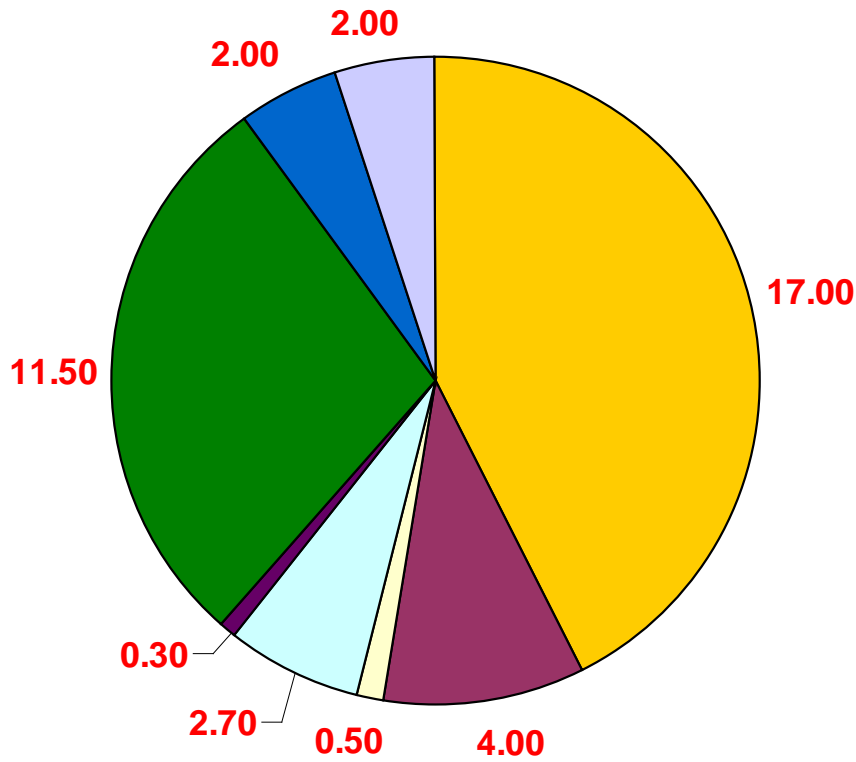


- Salary**
- Equipment**
- Chemicals & Consumables**
- Infrastructure & Modernisation**
- Works & Maintenance**
- Library & Information**

**TOTAL : 40 CRORES**

**SALARY : TOTAL : 40 : 60**

**RECURRING + CAPITAL EXPENDITURE( 2001-02)**  
**(Rs in Crores)**



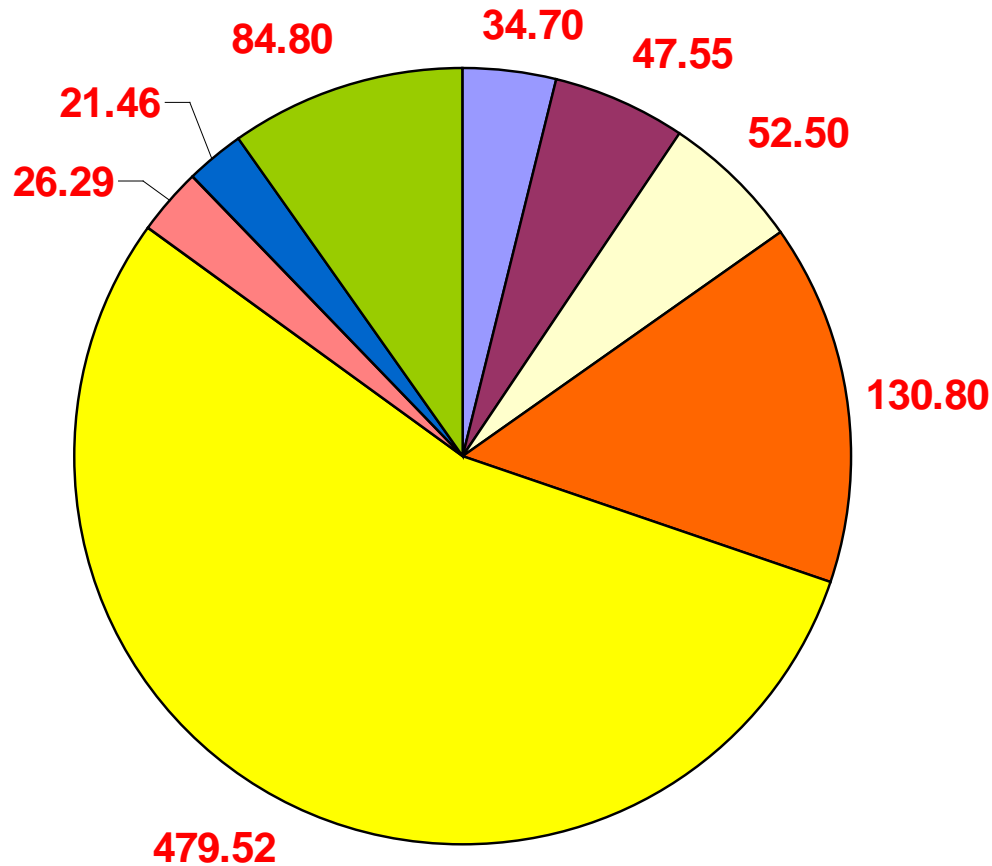
- Salary
- Infrastructure
- Maintenance
- Chemicals
- Travel
- Equipment
- Library
- Lab Modernization

**TOTAL : 40 CRORES**

**RECURRING : CAPITAL : 60 : 40**



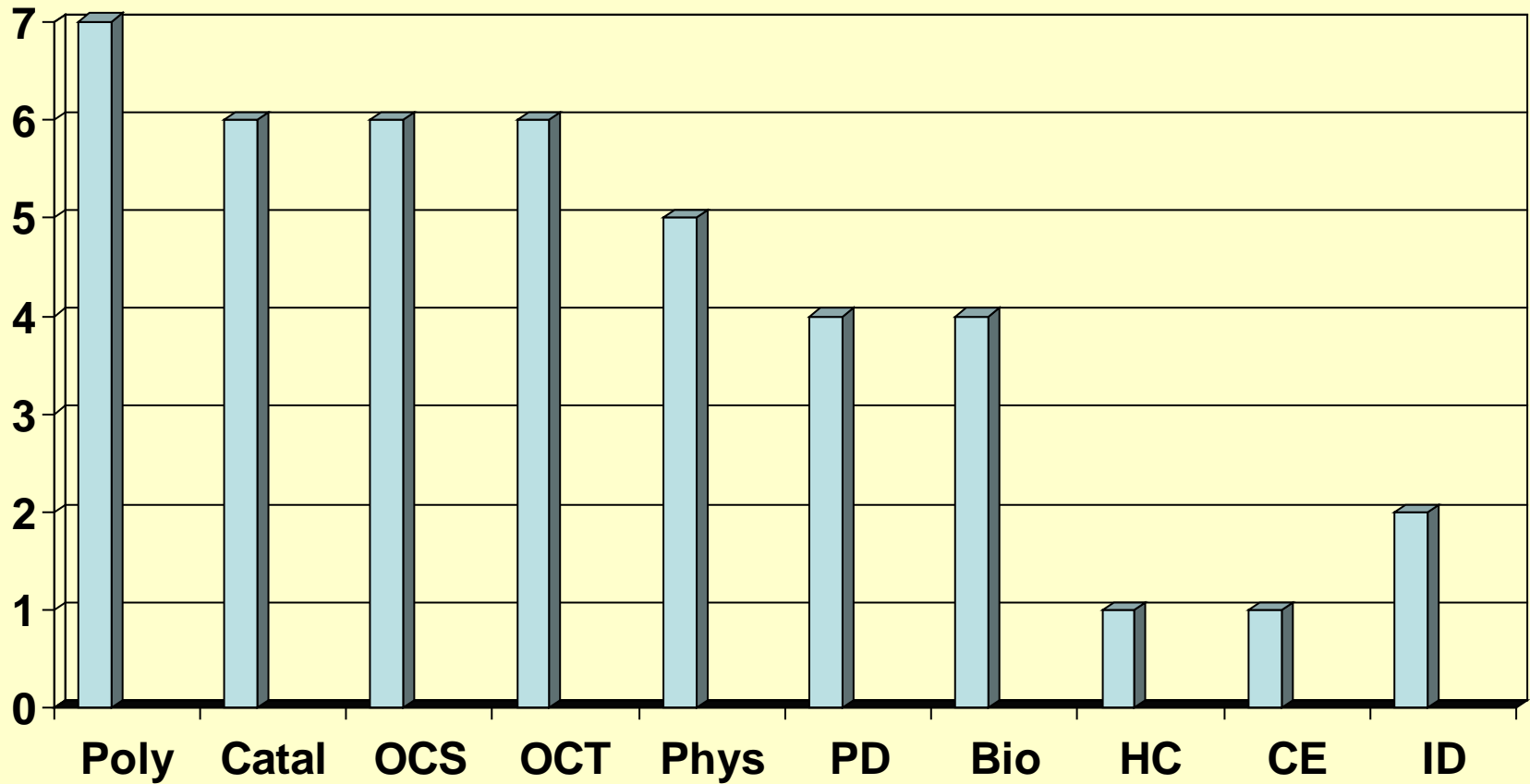
## LR EXPENDITURE (2001-02) (Rs in Lakhs)



**TOTAL : Rs 8.8 crores**

- Chemicals & Consumables
- Contingencies
- Repayment of WB Loan
- Works & Services
- Equipment + Modernisation
- Library
- Colony Expenditure
- Others

# ***NEW SCIENTIFIC STAFF ADDITION (1995 – 01)***



# NEED DRIVEN R&D

