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# The Need for preserving print copies:

- Patents are para-legal documents
- Signed copies are valuable in court proceedings / commercialization: eg. Inventorship forms, Power of attorneys, Patent office forms
- Black book- Lab records- evidence of first-to-invent – US (earlier law)

# Record Keeping Practices @ NCL

- The “INV-NCL-NF” system
- Separate filing system for :
  - Invention disclosures
  - Filed cases
  - Clubbed as NF nos.- national phase filings corresponding to parent application



## What is IPMS?

©NCL's IP Database 1942-till date

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# Need for a database:



- Easy management of 3000+ Patent records
- Consolidated info on 1 page
- Library of documents
- Reports
- Semi-automation of the process flows
- Tracking

# IPMS-V03 Intellectual Property Management System

Restricted view : Read only access

SEARCH	<ul style="list-style-type: none"> <li>Simple/Universal search</li> <li>Search by fields and create reports</li> <li>Advance/Boolean search <small>NEW</small></li> </ul>
PERFORMANCE	<ul style="list-style-type: none"> <li>Pre-defined reports</li> <li>Kelkar Committee report   Kelkar Committee report by subject</li> <li>Cause Effect Analysis</li> <li>Lead inventors statistics</li> <li>Commercialization trends report</li> <li>Revenue trends report</li> <li>Reasons for abandoning of INVs</li> <li>IPG annual review report</li> <li>Unique lead inventor statistics by age <small>NEW</small></li> <li>Types of claims wise analysis(for all claims) <small>NEW</small></li> <li>Types of claims wise analysis(for only claim1) <small>NEW</small></li> <li>Score of form B &amp; C <small>NEW</small></li> <li>Quality of ISR analysis <small>NEW</small></li> <li>Show all INV pending with IPG for action <small>NEW</small></li> <li>Show all INV cases flagged for direct complete filing or postdating <small>NEW</small></li> </ul>
PORTFOLIO	<ul style="list-style-type: none"> <li>Portfolio Analysis</li> <li>2 axis portfolio analysis</li> </ul>
ACTION	<ul style="list-style-type: none"> <li>Next action list</li> <li>Show all cases sent to IPMD yet to be filed</li> <li>Shows all CAP cases</li> <li>Show all cases waiting for PCT filing</li> <li>Show all "ACTIVE" options &amp; licenses</li> <li>Maintenance renewal recommendation report</li> </ul>
UPDATING	<ul style="list-style-type: none"> <li>Monthly Database updating for Provisional/Complete application filed case</li> <li>Annual Database updating for Granted + Inforced patent</li> <li>Cases to be updated for expiring</li> <li>Revenue database records</li> </ul>
EFFICIENCY	<ul style="list-style-type: none"> <li>Time to filing</li> <li>Administration statistics</li> <li>Conversion ratio at NCL</li> <li>Conversion ratio at IPMD</li> <li>Status &amp; grant ratio</li> <li>Form B report</li> <li>Form C report</li> </ul>

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## A. Performance Indicators

- As per Kelkar committee Report
- Lead Inventor's Statistics
- Commercialization Trends
- Revenue trends
- Reasons for Abandoning of Invention Disclosures

## B. Portfolio Analysis

- By Subjects
- By Theme Portfolios
- Along Two Axes

## C. Efficiency Indicators

- Time to Filing
- Administration Statistics
- Conversion ratio at NCL
- Conversion ratio at IPMD, Delhi
- Status & Grant Ratio
- Patentability assessment
- Attractiveness Assessment

Report generated at IPMS	: <a href="http://172.16.14.200/ipms02/">http://172.16.14.200/ipms02/</a>
Search Date	:20 February 2013
Type of Report	:Pre-defined report: Performance trend(as per Kelkar committee indicators for 10 year)
Report description	:Based on the Kelkar committee review, the report gauges the performance trends of NCL in the last 10 years. Subject wise break down of the performance indicators is a newly added highlight.

Category of benefits	Benefit	Indicator	2013**	2012	2011	2010	2009	2008	2007
Public & social goods	Generation of and dissemination of generic knowledge	No of invention disclosures	18	116	85	54	38	48	29
		No of patents filed in India	9	86	56	35	20	13	10
		No of PCT applications filed	13	30	29	16	7	5	3
		No of US applications filed	0	21	15	6	4	7	6
		No of foreign patents filed *	0	85	48	27	10	62	42
	Pride and standing amongst nations;National image	No of foreign patents granted *	2	17	13	55	49	69	57
Private goods	Licensing and technology transfer	No of patents in new licensing/assignment/ option arrangements	0	2	7	3	8	14	32
		No of unique licensing/assignment/option cases	0	1	1	1	4	4	7
Strategic goods and options	Other tactical and strategic developments	No of Indian patents granted	0	20	12	42	85	99	26
		No of foreign patents granted *	2	17	13	55	49	69	57
Intellectual assets and reputation	Quality, reputation and standing of scientific manpower	No of Indian patents granted	0	20	12	42	85	99	26
		No of foreign patents granted *	2	17	13	55	49	69	57

## A. Performance Indicators



## B. Portfolio Analysis

### • By Subjects

Query requested	Select all record with (country=IN and country=US and country=OTHER) (Document status=Provisional application filed and Document status=Complete specification filed and Document status=Granted Inforce and Document status=Administration by others)or (recommened for abandoning= No:	
Subjects	Numbers	Percentage(%)
<a href="#">Polymer Science &amp; Engineering(s1)</a>	491	34
<a href="#">Hybrid and inorganic materials(s2)</a>	101	7
<a href="#">Biological science and engineering(s3)</a>	79	5
<a href="#">Organic Chemistry(s4)</a>	297	21
<a href="#">Catalysis(s5)</a>	352	24
<a href="#">Chemical Engineering and process development(s6)</a>	116	8
<a href="#">Others(s7)</a>	5	0
<a href="#">Uncategorized</a>	0	0
Total	1441	100

CONCLUSIONS: NCL's patent portfolio is dominated by :

- Polymer Science & engineering,
- Catalysis, Organic Chemistry & Chemical Engineering.

## B. Portfolio Analysis

## • By Theme Portfolios

### Query requested

Select all record with (country=IN and country=US and country=OTHER) (Document status=Provisional application filed and Document status=Complete specification filed and Document status=Granted Inforce and Document status=Administration by others)or (reccommended for abandoning= No:

Portfolio	Numbers	Percentage (%)
(GT) <a href="#">Value addition of bioresources, renewable polymers(p1):</a>	19	1
(GT) <a href="#">Enviromentally friendly/green/clean process(p16):</a>	33	2
(GT) <a href="#">Fuel/alternate/clean energy(p5):</a>	39	3
(MT) <a href="#">Controlled delivery of active agents(p2):</a>	59	4
(MT) <a href="#">Nano-micro structured materials(p3):</a>	112	8
(MT) <a href="#">Polymer additives compunds/blends/composites(p9):</a>	28	2
(MT) <a href="#">Polymers for speciality applications(p10):</a>	131	9
(MT) <a href="#">Polymerization/Polymer catalysis(p11):</a>	227	16
(MT) <a href="#">Membranes/separations(p12):</a>	39	3
(BT) <a href="#">Agrobiotechnology/pest control(p6):</a>	32	2
(BT) <a href="#">Industrial biotechnology/enzymology(p7):</a>	54	4
(BT) <a href="#">Medical biotechnology/bioprocess engineering(p8):</a>	10	1
(CT) <a href="#">New organic/bio-organic molecules(p4):</a>	14	1
(CT) <a href="#">Fine chemical/pharma intermediate drugs/bioactives(p13):</a>	315	22
(CT) <a href="#">Modeling/software/algorithms(p14):</a>	19	1
(CT) <a href="#">Petrochemicals/industrial chemicals(p15):</a>	270	19
(CT) <a href="#">Others(p17):</a>	40	3
(UT) <a href="#">Uncategorized:</a>	0	0
<b>Total</b>	<b>1441</b>	<b>100</b>

## B. Portfolio Analysis

### • By Theme Portfolios

#### CONCLUSIONS:

The dominant themes where NCL holds active patents are

- **Fine chemical/pharma intermediate drugs/bioactives**
- **Petrochemicals/industrial chemicals**
- **Polymerization/Polymer catalysis**

In recent years, NCL is strengthening portfolios in

- **Nano-micro structured materials**
- **Clean-tech**

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## IP TRACKER

Find/View/Edit Records	<ul style="list-style-type: none"><li>• <a href="#">Browse all</a></li><li>• <a href="#">Browse all cases with no update message in the last 3 months</a></li><li>• <a href="#">Search (universal)</a></li><li>• <a href="#">Search (by fields)</a></li><li>• <a href="#">Add inventor Information</a></li></ul>
Reports	<ul style="list-style-type: none"><li>• <a href="#">IP Tracker Database Snapshot</a></li><li>• <a href="#">Activity Report</a></li><li>• <a href="#">Check again</a></li><li>• <a href="#">Deadline for action report</a></li></ul>

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