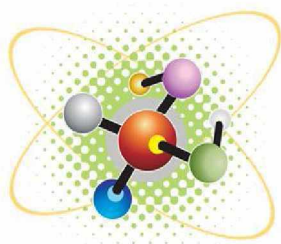


**DATABASE OF R&D MANPOWER
IN SOCIO-ECONOMIC
MINISTRIES/DEPARTMENTS
INCLUDING PUBLIC SECTOR INDUSTRIES: 2009**



Project sponsored by
NSTMIS Division
Department of Science & Technology
Government of India

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MMC conveys its sincere thanks to the all those Nodal Officers who were nominated from various Ministries/Departments/Public Sector Industries and were able to help in this project. Without their cooperation it would not have been possible to complete this task.

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Y L Nangia
Principal Investigator
Director
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ABOUT THE DATABASE

DATABASE OF R&D MANPOWER IN SOCIO-ECONOMIC MINISTRIES/DEPARTMENTS INCLUDING PUBLIC SECTOR INDUSTRIES: 2009

INTRODUCTION:

National Science Technology Management Information System (NSTMIS) division of Department of Science & Technology, Government of India sponsored the research study entitled “**Development of Database of R&D Manpower in Socio-Economic Ministries/Departments including Public Sector Industries: 2009**” to Manpower Management Centre, New Delhi. The purpose of this Database was to generate information on age structure of scientists, their qualification, field of expertise, gender and contributions made by them etc. The pertinent task of this database was to help in creating national level repository of rich experiences and skills gained by scientists employed in Scientific Departments/Public Sector Industries under the Socio-Economic Ministries/Departments so that it may serve as an important reference guide for many organizations in and outside the country.

OBJECTIVES OF THE STUDY:

1. To collect information on Personal Background, such as Name, Age, Address, Tel. No., Mobile No., E-Mail ID, Fax No. etc., of **R&D Manpower working in Socio-Economic Ministries/Departments including Public Sector Industries** under them as listed in the DST’s Directory of R&D Institutions, 2006.
2. To collect information on their Academic Background such as Educational Qualification, Area(s) of Specialisation, Membership of Professional Bodies etc.
3. To collect information on their Career Profile such as Total Job Experience in Research & Scientific fields etc., On-Job field-wise expertise, No. of Research Projects undertaken i.e. Completed & Ongoing and the name of their Funding Agencies, No. of Research Papers published in National & International Journals, National & International Awards received, National & International Patents registered/granted. Also to collect information about the No. of Special Task Committees on which served and/or now associated.

METHODOLOGY ADOPTED:

A. Target Population & Sources

It was decided that for the purpose of this Database, Manpower Management Centre will contact the **R&D Manpower** working in 339 organisations under the control of Socio-Economic Ministries/Departments including Public Sector Industries under them as listed in the DST's Directory of R&D Institutions, 2006. Their distribution is shown in the following Table:

S.No.	Department/Ministry/Agency	No. of offices under their control
1.	Ministry of Agriculture	
	Department of Agriculture & Cooperation (DA&C)	8
	Department of Animal Husbandry & Dairying (DAHD)	39
2.	Ministry of Chemicals & Fertilizers	
	Department of Chemicals & Petrochemicals (DCP)	12
	Department of Fertilizers (DOF)	4
3.	Ministry of Civil Aviation	
	Directorate General of Civil Aviation (DGCA)	1
4.	Ministry of Coal (MOC)	4
5.	Ministry of Commerce & Industry	
	Department of Commerce (DOC)	6
	Department of Industrial Policy & Promotion (DIPP)	10
6.	Ministry of Communications	
	Department of Telecommunications (DOT)	8
7.	Ministry of Consumer Affairs & Public Distribution	
	Department of Food & Public Distribution (DOFPD)*	3
	Department of Consumer Affairs (DOCA)	2
8.	Ministry of Culture	4
9.	Ministry of Defence	
	Department of Defence (DODs)	1
	Department of Defence Production & Supplies (DDPS)	8
10.	Ministry of Food Processing Industries (MFPI)	2
11.	Ministry of Health & Family Welfare (MHFW)	34
	Central Council for Research in Ayurveda & Siddha (CCRAS)	34
	Central Council for Research in Homoeopathy (CCRH)	36
13.	Ministry of Heavy Industries & Public Enterprises	
	Department of Heavy Industries (DHI)	29
14.	Ministry of Home Affairs (MHA)	5
15.	Ministry of Information & Broadcasting (MI&B)	1
16.	Ministry of Micro, Small & Medium Enterprises	10
17.	Ministry of Mines (MOM)	11
18.	Ministry of Petroleum & Natural Gas (MPNG)	15
19.	Ministry of Power (MOP)	2
20.	Ministry of Railways (MOR)	1
21.	Ministry of Rural Development (MORD)	1
22.	Ministry of Shipping, Road Transport & Highways (MOSRTH)	2
23.	Ministry of Social Justice & Empowerment (MOSJE)	8

24.	Ministry of Statistics & Programme Implementation	1
25.	Ministry of Steel (MOS)	9
26.	Ministry of Textiles (MOTx)	19
27.	Ministry of Urban Development (MUD)	3
28.	Ministry of Water Resources (MWR)*	6
	Total	339

B. Structuring the Questionnaire:

Keeping in view the objectives of the study, a questionnaire was structured on which the opinion of experts was obtained. The LPAC and the Department of Science & Technology finally approved it for the study. Manpower Management Centre got 5000 copies of this questionnaire printed for sending it to various Scientific Departments of Socio-Economic Ministries/Departments/Agencies and also directly to the R&D employees, the lists of which were obtained from various administrative resources.

C. Nomination of Nodal Officers:

NSTMIS Division of Department of Science & Technology addressed a letter to Secretaries of all the above mentioned Ministries/Departments requesting them to nominate an officer who would help in coordinating the research work related to this database such as circulating the questionnaire to their R&D Manpower, getting it completed and sending the same to Manpower Management Centre. MMC gratefully acknowledges their co-operation.

LIMITATIONS:

Despite number of reminders sent to the R&D organizations, the response is low. So, it is advisable not to generalize the conclusions on any of the parameters given in this report.

The work on this database was started in middle of December, 2007. As most of the completed questionnaires were to be received in the years 2008-2009, it was decided by LPAC that cut off for the age calculation be taken as 01.01.2009. Hence, the age shown in number of years in the Database is calculated as on 01.01.2009.

Similarly, under the **Career Profile** though the total number of years of experience has been shown yet to avoid too much description, the details of the only the latest job experience/assignments to the maximum of latest 5 years have been shown. This aspect was also approved by the LPAC.

Each individual scientist was sent the printed draft datasheet for their consent/approval. Some of them did not respond. However, as the listing of particulars of R&D manpower is based on the inputs received from the responding individuals through their completed questionnaires, it is presumed that the information furnished by them was complete.

The following Public Sector Industries sent in “NIL” report, stating that they do not have R&D employees:

1. Ministry of Chemicals & Fertilizers:
 - (a) Brahmaputra Valley Fertilizer Corporation Ltd., Namrup, Assam
 - (b) National Fertilizers Ltd., NOIDA (U.P.)
 - (c) Project & Development India Ltd., NOIDA (U.P.)

2. Department of Civil Aviation:
 - (a) Office of the Director General of Civil Aviation, New Delhi

3. Department of Heavy Industries:
 - (a) Bharat Heavy Electricals Ltd., Hyderabad
 - (b) Bharat Pumps & Compressor Ltd., Allahabad
 - (c) Engineering Projects (India) Ltd., New Delhi

4. Ministry of Home Affairs:
 - (a) Directorate of Forensic Science, Government Examiner of Questioned Documents, Shimla

5. Ministry of Micro, Small & Medium Enterprises:
 - (a) Central Institute of Hand Tools, Jalandhar
 - (b) Khadi & Village Industries Commission, Mumbai

6. Ministry of Statistics & Programme Implementation.

7. Ministry of Urban Development:
 - (a) Town & Country Planning Organisation, New Delhi

Following are the Ministries/Departments/Public Sector Industries from where there has been no response despite repeated reminders and visits:

1. Ministry of Agriculture
2. Ministry of Coal
3. Ministry of Communications
4. Ministry of Culture
5. Ministry of Defence
6. Ministry of Food Processing Industries
7. Ministry of Information & Broadcasting
8. Ministry of Petroleum & Natural Gas
9. Ministry of Railways
10. Ministry of Rural Development
11. Ministry of Shipping, Road Transport & Highways

ORGANISATION OF DATABASE:

The Database contains listing of a total of **1149 R&D employees** and it has been presented in two parts as under:

Part – 1: Title: Database of R&D Manpower in Socio-Economic Ministries/Departments including Public Sector Industries: 2009.

It contains data of the **673** R&D employees who completed questionnaires. The **Name Index** is at the end of the database. The **Content** pages in the beginning of the Database indicate the names of the Ministries/Departments/Public Sector Industries from where the R&D employees responded for this Database.

Part – II: Title: Database containing Brief Information of R&D Manpower in Socio-Economic Ministries/Departments including Public Sector Industries: 2009.

It contains data of the **476** R&D employees, the brief particulars of whom were collected from various sources such as administrative departments, reports, websites etc. Data from a few incomplete questionnaires has also been included in this Part as respondents did not respond back to queries. The **Name Index** is at the end of the database.