



**GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE & TECHNOLOGY  
DEPARTMENT OF SCIENCE & TECHNOLOGY  
NEW DELHI-110016**

**NATIONAL SURVEY ON RESOURCES DEVOTED TO SCIENTIFIC  
AND TECHNOLOGICAL (S&T) ACTIVITIES**

**2005-06**

**QUESTIONNAIRE - I**

(For S&T Institutions under Central/State Governments and SIRO)

**Please read the instructions before filling the questionnaire**

**INSTRUCTIONS FOR FILLING UP VARIOUS QUESTIONS OF THE  
QUESTIONNAIRE - I**

- (i) The questionnaire contains total **6** pages and **4** sections marked as **A, B, C** and **D**.
- (ii) Please ensure that the number of characters/alphabets does not exceed the number of boxes given. Wherever necessary, abbreviations may be used.
- (iii) All alphabets should be filled in **BLOCK LETTERS**.
- (iv) Please fill complete information for the items applicable to your institution. **IN CASE EXACT DATA ARE NOT AVAILABLE, USE ESTIMATES**.
- (v) Please stick to the units in which figures are asked e.g. **Rs. lakhs** should be given in **Rs. lakhs** only and not in Rs. thousands or crores.
- (vi) Please ensure that in each case the numeric values are filled up-to two decimal places in proper unit (leaving aside **SECTION - C**) e.g. Rs. 20.434 lakhs should be written as: Rs 20.43
- (vii) List of Major Scientific Agencies, Central Government Ministries/Departments and State Governments with appropriate code numbers is enclosed as **ANNEXURE -A**. Please consult **ANNEXURE- A** before filling the information in the boxes against **Question III** in **Section - A**.
- (vii) **Please seek any clarification on the questionnaire from Dr. Laxman Prasad / Sh. Rakesh Chetal/ Shri Parveen Arora/ Mrs. Namita Gupta / Dr. A. N. Rai**

The completed Questionnaire should be returned to:

**Mr. Parveen Arora**  
**Scientist - F/Director**  
**NSTMIS Division**  
**Department of Science & Technology**  
**Technology Bhawan**  
**New Mehrauli Road**  
**New Delhi - 110 016**

Phone : 2651 0686, 2652 5541, 2652 3432, 2659 0371, 2659 0372  
Fax : 011-2651 0686, 2652 5541  
Email : parora@nic.in

## SECTION -A

### GENERAL INFORMATION

**Q.I** Name of R&D Institution/Laboratory : \_\_\_\_\_

Postal Address: \_\_\_\_\_

State Code :

Pin Code:

(See **ANNEXURE -A** for State Code)

Web address:

Phone number with code	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
FAX number with code	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Q.II** Month and Year of Set-up : **MONTH**   **YEAR**

**Q.III** Administrative Controlling Authority of the Institution. Fill in the boxes with appropriate code number, depending on whether the controlling authority is a **Central Ministry/Department/Agency or a State Government/UT or Scientific and Industrial Research organisation**. Code numbers are listed in the **ANNEXURE - A**.

**Q.IV** Fill in the appropriate **Code** given below , which explain best Objective of the institute's Research & Development (R&D) activities.

### OBJECTIVES AND CODE NUMBERS

Objective	Code
Defence	01
Development of Agriculture, Forestry and Fishing	02
Development of Health Services	03
Development of Transport and Telecommunications	04
Exploration and Assessment of Earth, Seas and Atmosphere	05
General Advancement of Knowledge including development of education	06
Promotion of Industrial Development	07
Production, Conservation and Distribution of Energy	08
Protection of the Environment	09
Social Development and Other Socio-Economic Services	10
Space	11
Urban and Rural Planning	12
Other Aims	13

**Q.V** Estimated Percentage of Time/Resources devoted to the following activities. For example 25% may be indicated in the Boxes as :

0	2	5
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1. Basic Research .....	<input type="text"/>	<input type="text"/>	<input type="text"/>
2. Applied Research .....	<input type="text"/>	<input type="text"/>	<input type="text"/>
3. Experimental Development .....	<input type="text"/>	<input type="text"/>	<input type="text"/>
4. Other Activities .....	<input type="text"/>	<input type="text"/>	<input type="text"/>
Total (1+2+3+4) .....	<input type="text"/>	<input type="text"/>	<input type="text"/>

**DEFINITIONS**

**1. BASIC RESEARCH**

Basic research may be defined as any experimental or theoretical work undertaken primarily to acquire new knowledge of the underlying foundations of phenomena and observable facts, without any particular or specific application or use in view.

**2. APPLIED RESEARCH**

Applied Research may be defined as any original investigation undertaken in order to acquire new knowledge. It is, however, directed primarily towards a specific practical aim or objective.

**3. EXPERIMENTAL DEVELOPMENT**

Experimental development may be defined as any systematic work, drawing on existing knowledge gained from research and/or practical experience that is directed to produce new materials, products and devices, to install new processes, systems and services, and to improve substantially those already produced or installed.

**4. OTHER ACTIVITIES**

Other activities would include S&T services provided by libraries, information and documentation centres, data banks and information processing departments.

## SECTION - B

### INFORMATION ON SCIENCE AND TECHNOLOGY EXPENDITURE

**Q.I** Give information for **EXPENDITURE ON SCIENTIFIC AND TECHNOLOGICAL ACTIVITIES** in the boxes given below up-to two decimal places:

#### EXPENDITURE (RUPEES IN LAKHS)

Year →	Actual 2002-03	Actual 2003-04	Actual 2004-05	BE or RE or Actual* 2005-06
Revenue/Recurring Expenditure				
Capital/Non-Recurring Expenditure				
<b>Total Expenditure</b>				
Foreign Exchange Component in Total expenditure				

**Q.II** Please indicate the sources of funds for S&T activities in the boxes given below in **Rs Lakhs** up-to two decimal places:

#### SOURCES (RUPEES IN LAKHS)

Source	Year →	2002-03	2003-04	2004-05	2005-06
Support From the Central/ State Governments					
Support From Foreign Agencies					
Support From Other Sources					
<b>Total Source</b>					

- Note:**
- a) \* Actual expenditure is preferred. In the absence of actual, provide the revised estimate (RE) or budget estimate (BE). Indicate which one is applicable by ticking.
  - b) The **Total Expenditure**, as given in **Q-I** for each year, **should not be more than the Total Sources** of funds for S&T activities as given in **Q-II** for that corresponding year,

### DEFINITIONS

#### 1. REVENUE/RECURRING EXPENDITURE

Revenue or recurring expenditure includes the cost of wages salaries and all related labour costs, minor equipment expendable supplies expenditure on office and labour supplies, materials, books, journals, rent of buildings, travel and postal services.

#### 2. CAPITAL/NON-RECURRING EXPENDITURE

Expenditure on purchase of major installation, machinery and equipment, land for building, new buildings or large scale improvements, modifications and repair to buildings and fixed installations, land improvement work and other expenditure are included under capital/nonrecurring expenditure.

## SECTION - C

### INFORMATION ON MANPOWER EMPLOYED

**Q.I** Give number of **FULL TIME** manpower employed by type of work **as on April, 1, 2006**

<b>Gender</b>	Number of personnel engaged in R&D activities  <b>(A)</b>	Number of scientific and technical personnel engaged in auxiliary activities including skilled workers & technicians  <b>(B)</b>	Number of personnel employed on administrative and other non technical activities including Class IV unskilled staff  <b>(C)</b>
MALE			
FEMALE			
TOTAL			

**\*Note:** (a) Allocate all personnel to three categories on **functional basis** rather than on the basis of qualification.  
(b) All the staff working in **your** institution/ laboratory should be included in the appropriate categories.

### **DEFINITIONS**

#### **1. SCIENTIFIC AND TECHNICAL PERSONNEL**

Scientific and technical personnel can be defined as the total number of people participating directly in S&T activities in an institution or unit and, as a rule, paid for their services. This group should include scientists and engineers technicians and auxiliary personnel .

#### **2. R&D ACTIVITIES**

Research and Experimental Development(R&D) activities can be defined as any systematic and creative work undertaken in order to increase the stock of knowledge and the use of this knowledge to devise new applications. R&D activities include any one or more of the categories of research such as basic research, applied research and experimental development.

#### **3. AUXILIARY ACTIVITIES**

Auxiliary activities refer to those tasks such as maintenance and operation of specialised R&D (or S&T), equipment and machinery, preparing materials and equipment and carrying out experiments, tests and analyses. For example the activities carried out by medical assistants, computer programmers, surveyors, draughtsmen, Survey interviewers and investigators can be classified as auxiliary activities.

#### **4. ADMINISTRATIVE ACTIVITIES**

Administrative activities refer to those tasks which are clerical, secretarial and administrative in character. For example; personnel providing services such as security, janitorial and maintenance can be classified as administrative activities.

**Q.II** Give the following information on annual gross emoluments for **FULL TIME R&D personnel** given in **Column (A)** in **Q.I of Section - C**

Annual Gross Emoluments (in Rupees)	Number of Personnel		
	Male	Female	Total
Less than 2,00,000			
2,00,000 – 3,00,000			
3,00,000 – 4,00,000			
4,00,000 – 5,00,000			
5,00,000 and above			
<b>TOTAL</b>			

**Q.III** Please give the academic background of **FULL TIME** personnel employed on R&D (given in **Column (A)** of **Q.I** in **Section-C**) as per their field.

**Natural Sciences**

	Ph. D.	Post Graduate	Graduate	Diploma	Others	Total
Male						
Female						
Total						

**Agricultural Sciences**

Male						
Female						
Total						

**Engineering & Technology**

Male						
Female						
Total						

**Medical Sciences**

Male						
Female						
Total						

**Social Sciences**

Male						
Female						
Total						

## SECTION – D

### INFORMATION ON OUTPUT

**Q.1** Give information on the number of each item completed during the financial years **2003-04** and **2004-05**:

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Number

<b>Code</b>	<b>Items completed</b>	<b>2003-04</b>	<b>2004-05</b>
01	Patent filed		
02	Patent seald		
03	Copy Rights obtained		
04	New products developed		
05	New processes developed		
06	Import substitutes developed		
07	Design prototypes developed		
08	Consultancy services rendered		
09	Papers published in International Journals		
10	Papers published in National Journals		
11	Books Published		
12	Technical Reports published		
13	Non-Technical reports published		
14	Papers presented in National conferences/ Seminars/Symposia etc.		
15	Papers presented in International Conferences/seminars/symposia etc.		
16	S&T Personnel deputed for National conferences/seminars/symposia etc.		
17	S&T Personnel deputed for International conferences/seminars/symposia etc.		
18	S&T Personnel deputed for National Training Programmes		
19	S&T Personnel deputed for International Training Programmes		
20	Any other items (Please specify)		

**ANNEXURE - A**

**Agency/Ministry/Department/States and Code numbers**

<b>Name of Major Central Ministries/ Scientific Agency/Department</b>	<b>Code</b>	<b>Name of Other Central Ministry/Department</b>	<b>Code</b>
Council of Scientific and Industrial Research	101	Shipping	230
Defence Research and Development Organisation	102	SSI, Agro & Rural Industries	231
Department of Atomic Energy	103	Statistics & Program Implementation	232
Department of Biotechnology	104	Steel	233
Department of Information Technology	105	Telecommunications	234
Ministry of Non Conventional Energy Sources	106	Textile	235
Ministry of Ocean Development	107	Urban Development	236
Department of Science & Technology	108	Water Resources	238
Department of Scientific and Industrial Research	109	<b>Name of State Government/UT</b>	<b>Code</b>
Department of Space	110	Andaman & Nicobar Islands	301
Indian Council of Agricultural Research	111	Andhra Pradesh	302
Indian Council of Medical Research	112	Arunachal Pradesh	303
Ministry of Environment & Forest	113	Assam	304
University Grant Commission (UGC)	114	Bihar	305
<b>Name of Other Central Ministry/Department</b>	<b>Code</b>	Chandigarh	306
Agriculture and Co-operation	201	Chhattisgarh	307
Animal Husbandry & Dairy	202	Delhi	308
Chemicals & Petrochemicals	203	Dadra & Nagar Haveli	309
Civil Aviation	204	Daman & Diu	310
Coal	205	Goa	311
Commerce	206	Gujarat	312
Consumer affairs	207	Haryana	313
Culture	208	Himachal Pradesh	314
Defence	209	Jammu & Kashmir	315
Defence Production & Supplies	210	Jharkhand	316
Education	211	Karnataka	317
Family Welfare	212	Kerala	318
Fertilizers	213	Lakshadweep	319
Food Processing Industries	214	Madhya Pradesh	320
Food & Public Distribution	215	Maharashtra	321
Health	216	Manipur	322
Heavy Industry	217	Meghalaya	323
Home	218	Mizoram	324
AYUSH	219	Nagaland	325
Industrial Policy & Promotion	220	Orissa	326
Information & Broadcasting	221	Pondicherry	327
Labour & Employment	222	Punjab	328
Mines	223	Rajasthan	329
Petroleum & Natural Gas	224	Sikkim	330
Posts	225	Tamil Nadu	331
Power	226	Tripura	332
Railways	227	Uttar Pradesh	333
Rural Development	228	Uttaranchal	334
Road Transport & Highways	229	West Bengal	335