

**GOVERNMENT OF INDIA  
SCIENCE AND TECHNOLOGY  
LOK SABHA**

STARRED QUESTION NO:420  
ANSWERED ON:12.05.2006  
EXPENDITURE ON R& D  
Chandrapan Shri C.K.

**Will the Minister of SCIENCE AND TECHNOLOGY be pleased to state:**

- (a) the amount of money spent for promoting industrial research and development through soft loans and refundable grants during each of the last three years, project-wise;
- (b) the number of projects submitted, approved and rejected, separately;
- (c) the criteria for selection of projects;
- (d) the number of projects which produced desired results and those which failed indicating the amount spent thereon, separately;
- (e) whether any critical review has been made about the evaluation of the projects undertaken; and
- (f) if so, the findings thereof?

**Answer**

MINISTER OF SCIENCE AND TECHNOLOGY AND MINISTER OF OCEAN DEVELOPMENT (KAPIL SIBAL)

(a) to (f) : A statement is laid on the table of the House.

Statement referred in reply to parts (a) to (f) of Lok Sabha Starred Question No. 420 for answer on 12.05.2006

(a) The Ministry of Science and Technology, through its departments viz. Department of Science and Technology (DST), Department of Scientific and Industrial Research (DSIR) and Department of Biotechnology (DBT) promotes industrial research and development through soft loans and refundable grants. The DST launched a "Pharmaceuticals Research and Development Support Fund" (PRDSF) in January, 2004, under which soft loan at 3% interest is made available for pharma industrial R&D projects. The DSIR operates a "Technology Development and Demonstration Programme" (TDDP) (erstwhile PATSER), under which refundable grants are made available to industry for development of new or improved process and/or product. The Council of Scientific and Industrial Research (CSIR) operates a scheme – "New Millennium Indian Technology Leadership Initiative" (NMITLI), under which grant is made available to institutional partners in public domain and soft loan at 3% interest to private sector industrial partners. The Department of Biotechnology (DBT) launched a scheme - "Small Business Innovation Research Initiative" (SBIRI), in September 2005, under which grant and soft loan carrying a maximum rate of interest of 2% is made available to Small and Medium Enterprises (SMEs) for development of projects/processes of high societal relevance in the field of bio-technology. The amount of money spent by the Ministry of Science and Technology on industrial R&D projects under the above mentioned schemes, during the last three years is given below.

Govt. Department / Amount spent on Promoting industrial R&D  
Autonomous Orgn (in Rupees Lakhs)  
2003-04 2004-05 2005-06 Total

DST	-	1440.00	5890.00	7330.00
DSIR	524.20	428.10	773.74	1726.04
CSIR	1554.23	1103.51	1408.67	4066.41
DBT#	-	-	-	-
	2078.43	2971.61	8072.41	13122.45

# amount committed by DBT on industrial R&D projects : Rs.934.05 lakh The money spent project wise is given in Annexure-I.

(b) The number of projects received, approved and rejected by DST, DSIR, CSIR and DBT, under the schemes operated by them for promoting industrial research & development are given below.

Year	No. of projects received	No. of projects approved	No. of projects rejected
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Department of Science & Technology (PRDSF)

2003-04	-	-	-
2004-05	9	5	4
2005-06	29	17	12

Department of Scientific & Industrial Research (TDDP)

2003-04	38	12	26
2004-05	17	10	7
2005-06	19	5	14

Council for Scientific & Industrial Research (NMILTI)

2003-04	189	2	187
2004-05	95	2	93
2005-06	90	4	86

Department of Bio-technology (SBIRI)

2003-04	-	-	-
2004-05	-	-	-
2005-06	-	-	-
Projects committed	71	10	61

(c) The criteria for selection of projects under the various schemes are as follows:

(i) Pharmaceuticals Research & Development Support Fund (DST) The criteria for selection of the projects is based on the merit of the R&D project submitted by the pharma industry, expertise available with industry, its financial capacity, and the relevance of the project vis-a-vis national health priority. The recognition of DSIR as in house R&D unit/SIRO is desirable. The selection of projects is based upon an evaluation by an expert in the specified field and recommendations of an expert committee.

(ii) Technology Development & Demonstration Programme (DSIR) Project proposals from well established and financially sound R&D intensive companies with an objective to develop new / improved process and / or product or for absorption of technology are considered for support under the programme. The selection of projects is based upon screening of proposals by the secretariat, consideration by a Technical Advisory Committee and final approval by Secretary / Financial Adviser.

(iii) New Millennium Indian Technology Leadership Initiative (NMITLI) Project proposals which aim at development of process technology or a product which will enable the country to assume a leadership position in the world are considered for support. Companies registered in India and having majority share holding by Indians / NRIs are eligible for support. The companies must either have its in-house R&D centre recognized by DSIR or must undertake steps to get its R&D centre recognized within 12 months of project approval. The selection of projects is based upon development of conceptual proposals into projects by a committee of experts, consideration by a high powered committee and final approval by DG, CSIR / SFC / GB.

(iv) Small Business Innovation Research Initiative (SBIRI) (DBT) Innovative, technology intensive and financially sound small and medium enterprises desirous of developing a new biotechnology process or a product are considered for support under the programme. The selection of projects is based upon short listing by technical screening committee, peer review, presentations by the companies to technical screening committee and approval by the Apex Committee of SBIRI.

(d) The number of projects which produced desired results those which failed, under the above mentioned schemes, during the last three years is given below.

Funding Scheme	No. of Projects completed during last 3 years	No. of Projects that produced desired results	No. of Projects that failed
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No.	Amount	No.	Amount
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Spent Spent  
(Rs. Lakhs) (Rs. Lakhs)

PRDSF (DST)	Nil	NA	NA	NA	NA
TDDP (DSIR)					
NMITLI (CSIR)	10	8	6570.80	2	659.16
SBIRI (DBT)	Nil	NA	NA	NA	NA

(e)&(f) No, Sir. All the above mentioned funding schemes have evaluation and monitoring mechanism for projects, duly approved by the competent authority.