

**GOVERNMENT OF INDIA
MINISTRY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH**

**LOK SABHA
UNSTARRED QUESTION NO. 1639
(TO BE ANSWERED ON 13.02.2019)**

INNOVATION BY RESEARCH INSTITUTES AND COMPANIES

**1639. SHRI S.R. VIJAYAKUMAR:
SHRI T. RADHAKRISHNAN:
SHRI S. RAJENDRAN:
KUNWAR HARIBANSH SINGH:
SHRI GAJANAN KIRTIKAR:
SHRI ASHOK SHANKARRAO CHAVAN:
SHRI SUDHEER GUPTA:**

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

- (a) whether the research institutions/ companies in the country are unable to provide adequate facilities and competent faculty to train young brains to undertake innovations in the field of science and technology;**
- (b) if so, the details thereof and the reasons therefor;**
- (c) whether the Council for Scientific and Industrial Research (CSIR) has granted loans to various institutions/companies on easy terms and conditions for research and development;**
- (d) if so, the details thereof and the norms adopted for granting the loan;**
- (e) the number of companies to which the loan has been provided, the period of loan and the details of the projects being undertaken by them along with the present status of loan recovery; and**
- (f) whether any company has got sick after taking loan and if so, the details thereof and the action taken thereon?**

ANSWER

**MINISTER OF SCIENCE AND TECHNOLOGY AND EARTH SCIENCES
(Dr Harsh Vardhan)**

- (a) No, Madam.**
- (b) The Public Funded Research Institutions (such as CSIR, ICAR, ICMR, BARC, ISRO, NII etc.), National Institutes (such as IITs, IIMs, IISc, AIIMS, IISERs etc.) and over 2000 companies in the private and public**

sector (whose in-house R&D Centres are recognized by DSIR) have excellent research facilities and highly competent faculty, researchers and technologists. These institutions are continuously engaged in training young scientists, engineers and entrepreneurs to undertake S&T related innovations in a number of incubators and research parks established across the country and many of these youngsters have successfully launched a number of promising start-ups.

- (c) Yes, Madam.**
- (d) CSIR has been supporting institutions and companies under its New Millennium Indian Technology Leadership Initiative (NMITLI) scheme to undertake R&D activities for developing first of its kind innovations in the country. Support to companies has been by way of granting soft loans @ 3% interest. Norms adopted for granting loan is based on selection of a project by an approved procedure involving rigorous screening and project review. The criteria for selection of the project is novelty of the proposal, potential technological benefits and the ability of industry to translate the research output into usable product/process.**
- (e) The details of companies to whom loan has been provided under the NMITLI scheme along with amount of loan given, period of loan disbursement and the status of repayment of loan is given in Annexure.**
- (f) M/s Samtel Color Limited, Ghaziabad has become sick after availing loan for implementing a NMITLI project and arbitration proceedings with the company are on.**

ANNEXURE**Details of Loan under NMITLI Scheme**

(Rs. In Lakh)

S.No.	Name of Project	Company name	Loan amount (Rs. in lakh)	Period of loan disbursement	Status of loan repayment
1	5 & 25kw decentralized power packs	Sud-Chemie India Ltd., New Delhi	50.000	2002-03 to 2004-05	Total loan repaid
2	Latent M. Tuberculosis: New Targets, Drug Delivery system, bio-enhancers and therapeutics	Lupin Ltd., Pune	1448.450	2001-02 to 2009-10	Being paid in time
3	Nano-material catalysts and associated process technology for alkylation/ acylation/nitration of well identified industrial chemicals, pre-forming of hydro-carbons and sulphur removal (<50 ppm) from petroleum fuels	Sud-Chemie India Ltd., New Delhi	95.000	2002-03 to 2003-04	Total loan repaid
4	Versatile, portable PC based software for bioinformatics; and Development of Linux cluster version of Bio-suite	Tata Consultancy Services, Hyderabad	780.000	2001-02 to 2003-04	Total loan repaid
		Tata Consultancy Services, Hyderabad	174.000	2004-05	Total loan repaid
		Jalaja Technology, Bangalore	24.000	2001-02 to 2003-04	Defaulter
		Frontier Information Technologies Ltd., Secunderabad	40.000	2001-02 to 2003-04	Defaulter
5	Development of an oral herbal formulation for treatment of psoriasis	Lupin Ltd., Pune	1644.580	2002-03 to 2009-10	Being paid in time
6	Development of novel biotech therapeutic molecule –Lysostaphin	Bharat Biotech International Limited, Hyderabad	713.991	2002-03 to 2013-14	Being paid in time
	Development of novel biotech therapeutic molecule –Lysostaphin	Bharat Biotech International Limited, Hyderabad	167.23	2016-17 to 2017-18	Being paid in time
7	Microbiological conversion of Erythromycin to Clarithromycin and other novel biologically active molecules	Alembic Ltd., Vadodara	28.500	2002-03 to 2003-04	Total loan repaid
8	Novel molecular diagnostics for eye diseases and low vision enhancement devices	Lensel Optics Pvt. Ltd., Pune	14.750	2003-04 to 2004-05	Total loan repaid
		Xcyton Diagnostics Limited, Bangalore	69.560	2005-06	Being paid in time

9	Value added polymeric materials from renewable resources: Lactic acid and lactic acid based polymers	Godavari Sugar Mills, Mumbai	485.000	2006-07 to 2008-09	Defaulter
10	Recombinant approach to produce α -linolenic acid and docosahexanoic acid (DHA) in sunflower and yeast	Avesthgen Pvt. Ltd., Bangalore	303.500	2003-04 to 2006-07	Defaulter
11	A cost effective Simple Office Computing (Sofcomp) platform to replace PC	Encore Software Ltd., Bangalore	320.000	2003-04 to 2004-05	Defaulter
12	A PC based high-end 3D visualization platform for computational biology – 'Darshee'	Strand Life Sciences Pvt. Ltd., Bangalore	186.400	2003-04 to 2004-05	Total loan repaid
13	Improved Genome Annotation Through a Combination of Machine Learning and Experimental Methods: <i>Plasmodium falciparum</i> As a Case Study	Tata Consultancy Services, Hyderabad	291.000	2004-05 to 2007-08	Total loan repaid
14	Development of Novel Fungicides	Rallis Research Centre, Bangalore	188.290	2004-05 to 2006-07	Total loan repaid
15	Novel Expression System	Biocon, Bangalore	33.125	2004-05 to 2008-09	Being paid in time
		Shantha Biotechics, Hyderabad	56.070	2004-05 to 2008-09	Being paid in time
16	Development of Globally competitive 'Triple-Play' Broadband Technology	Divinet, Pune	938.750	2004-05 to 2006-07	Defaulter
17	Market seeding of SofComp and Mobilis to develop wide-ranging applications as well as increase awareness	Encore Software Ltd., Bangalore	537.000	2005-06 to 2006-07	Defaulter
18	Development of an integrated micro PCR system with In-situ Identification	bigtech Pvt. Ltd., Bangalore	925.100	2005-06 to 2011-12	Being paid in time
19	Development of high throughput marker assisted selection systems for improvement of drought tolerance and fibre quality related traits in Cotton	JK Agri-Genetics Ltd., Hyderabad	736.790	2006-07 to 2010-11	Being paid in time
20	Novel method for development of B-type Natriuretic peptide (BNP) for diagnosis and treatment of congestive heart failure	Virchow Biotech Pvt. Ltd., Hyderabad	414.700	2006-07 to 2008-09	Being paid in time
21	Development of Next Generation Plasma Display Technology a 50" High Definition (HD) TV Prototype	Samtel Color, Ghaziabad	2063.000	2006-07 to 2009-10	Defaulter
22	Development of sensor networks chipset based on ultra-wide band technology	Virtual wire tech, New Delhi	422.000	2006-07 to 2009-10	Defaulter

23	Design and development of cushion bonded/rigid bonded organic, cerametallic cookie & single/fuel sintered buttons (copper/iron based), ceramic cookies and annular ring clutch discs and matching cover assemblies	Clutch Auto Ltd., Faridabad	1493.350	2007-08 to 2010-11	Defaulter
24	Intellegent Viedo Surveillance System	Mind Tree Ltd., Bangalore	458.090	2008-09 to 2010-11	Being paid in time
25	Novel therapy for management of sepsis	Cadila Pharma Ltd., Ahmedabad	2084.960	2007-08 to 2017-18	Being paid in time
26	Development of DNA Macro-Chips for simultaneous detection of pathogens causing acute encephalitic syndrome (AES) Septicaemia and antibiotic resistance	Xcyton Diagnostics Limited, Bangalore	506.398	2007-08 to 2012-13	Defaulter
27	Development of Characterization of an indigenous vaccine for Johne's disease	Biovet, Bangalore	429.010	2008-09 to 2014-15	Being paid in time
28	Evaluation of RNAi-based constructs for conferring resistance on trasgenic rice against the blast fungus Magnaporthe grisea	Metahelix Life Sciences Ltd., Bangalore	83.270	2008-09 to 2010-11	Being paid in time
29	Development of caerulomycins as novel immunosuppressive agents to prevent organ rejection after transplantation and to address various autoimmune and allergic disorders	EnEm Nostrum Remedies Pvt. Ltd., Mumbai	800.000	2009-10 to 2014-15	Being paid in time
30	Novel DPP IV Inhibitors for the treatment of Diabetes	Cadila Pharma Ltd., Ahmedabad	769.500	2009-10 to 2013-14	Being paid in time
	Novel DPP IV Inhibitors for the treatment of Diabetes	Cadila Pharma Ltd., Ahmedabad	277.870	2015-16 to 2018-19 Ongoing	Repayment not due
31	Development and production of a therapeutic monoclonal antibody against eNAMPT, a novel inflammatory target	Gennova Biopharmaceuticals Ltd., Pune	1841.400	2010-11 to 2016-17	Being paid in time
32	Design, Development and demonstration of high performance parabolic trough based 300 kW Solar Thermal Power Plant	Milaman Thin Film Systems Pvt. Ltd., Pune	1103.250	2010-11 to 2015-16	Defaulter
33	Development and commercialisation of "Vennfer" – unique H.264 high definition software based multiparty, multipoint video conferencing solution on multipoint network transmission protocol	Intellisys Technologies & Reseach Ltd., Kolkata	296.000	2010-11 to 2013-14	Defaulter
34	Develoment and commercialisation of NXR-4D: A lithium-Ion battery powered 4-door next generation electirc car (4-seater capacity)	Mahindera Reva Electric Vehicles Pvt. Ltd., Bangaluru	1751.800	2011-12 to 2015-16	Being paid in time
35	Deisgn and fabrication of All-fibre supercontinuum light source with application demonstration to detect fake pills	Vinvisn Technologies Pvt. Ltd., Thiruvananthapuram	225.250	2011-12 to 2013-14	Being paid in time

36	Development and commercialization of Soleckshaw Lite - An innovative electrical Green transport platform	Kinetic Engg. Ltd., Pune	1317.170	2012-13 to 2014-15	Being paid in time
37	Sustomized adapation of nonClonable ID technology to establish authenticity of medical products	Bilcare Ltd., Pune	893.460	2011-12 to 2013-14	Defaulter
38	Development of a diagnostic system for affordable, point of need testing to manage HIV and TB	ReaMetrix India Pvt. Ltd., Bangaluru	816.800	2011-12 to 2013-14	Defaulter
39	System based computational model of skin (SoCoMOS)	Persistent Sys. Ltd., Pune	184.485	2011-12 to 2015-16	Being paid in time
40	Development of integrated technological solutions for security and operations based on UV sensor technologies	Aron Universal Ltd., Bangaluru	43.1	2013-14 to 2015-16	Being paid in time
41	Design and development of photonic crystal cladded and double called Er and Er/Yb fibers, and application demonstration of high-power optical amplifier	Vinvis Technologies Ltd., Thiruvananthapuram	133.000	2014-15 to 2016-17	Being paid in time
42	Demonstration and Validation of a LT-PEMFC system for automotive application	KPIT, Pune	119.6500	2015-16 to 2017-20 Ongoing	Repayment not due
43	Development of an antidiabetic agent based on the phytopharmaceutical drug guidelines from enicostemmalittorale blume	Viridis Biopharma, Mumbai	196.8280	2015-16 to 2017-18 Ongoing	Repayment not due
44	Kappaphycusalvarezii and red seaweed based formulations for improving productivity and health of dairy and poultry animals	Aquaagri Processing, ND	57.500	2015-16 to 2017-18 Ongoing	Repayment not due
45	Automation of Ghani operation through vacuum conveying system	Fare Labs, Gurgaon	453.1500	2015-16 to 2017-18	Being paid in time
