

Statement

*State/UT-wise details of unemployment allowance paid under MGNREGS
during the financial year 2017-18*

FY: 2017-18

| Sl.No. | States | Unemployment allowance paid (in Lakh) |
|--------|------------------|---------------------------------------|
| 1. | Bihar | 0.02 |
| 2. | Gujarat | 0.16 |
| 3. | Himachal Pradesh | 0.21 |
| 4. | Jharkhand | 0.39 |
| 5. | Karnataka | 0.31 |
| 6. | Kerala | 0.09 |
| 7. | Madhya Pradesh | 0.02 |
| 8. | Maharashtra | 0.22 |
| 9. | Rajasthan | 1.31 |
| 10. | Tamil Nadu | 0.01 |
| 11. | Uttarakhand | 0.06 |
| TOTAL | | 2.8 |

Promotion of science and technology

884. SHRI NARAYAN LAL PANCHARIYA: Will the Minister of SCIENCE AND TECHNOLOGY be pleased to state:

(a) whether Government has taken any measure to promote scientific research in institutes/universities;

(b) if so, details thereof and if not, reasons therefor;

(c) whether there has been an increase in patents registered by Indian institutes and universities; and

(d) if so, details thereof and if not, reasons therefor?

THE MINISTER OF SCIENCE AND TECHNOLOGY (DR. HARSH VARDHAN):

(a) Yes Sir.

(b) The Government has taken adequate measures to promote scientific research in institutes/universities. Ministry of Science and Technology is the largest extramural R&D support agency in the country and financial support is provided to scientists

and academicians in the scientific institutions and universities based on the merit of the R&D proposals submitted by them. Besides this, the Government supports strengthening of R&D infrastructure in scientific research institutions/universities/colleges through the schemes such as Fund for Improvement of S&T Infrastructure in Universities and Higher Educational Institutions (FIST); Promotion of University Research and Scientific Excellence (PURSE); Consolidation of University Research for Innovation and Excellence (CURIE); and Sophisticated Analytical Instruments Facilities (SAIF).

FIST is a multi-level and multi-disciplinary programme which caters to all sectors of Science and Technology Departments including Agriculture, Veterinary, Pharmacy and Medicine having post-graduate teaching and research program. During the last three years, more than 60,000 researchers (including faculty/research scholars/PG students) have benefited and published ~5,500 research papers (not exclusive to FIST support). During the last 18 years, more than 2817 Departments (including 462 PG Colleges) have received FIST support at a total budget of over ₹ 2850 crore.

PURSE Program initiated by Department of Science and Technology (DST) provides substantive research grant to universities based on scientific publications. There has been significant increase in R&D outputs in PURSE supported Universities. Performance for the period of 1996-2006 and 2000-2010 for a set of 14 Universities has also been compared and publications of this group of 14 Universities have increased by nearly 34% *i.e.* from 45421 to 60773 and h-Index increased from 540 to 881 in 4 years. Similarly, the increase in publications is about 60% *i.e.* from 40036 to 63880 for the period of 1998-2008 and 2002-2012 for another set of 30 Universities and h-Index also increased from 970 to 1548 in that corresponding period of 4 years. In the last 4 years, an amount of ₹ 308 crores has been invested on 44 premier Universities under this programme.

Under CURIE programme, seven women only universities of the country have been supported to strengthen R&D infrastructure.

SAIF programme of DST has been facilitating sophisticated analytical instruments for the last two decades in different parts of the country to the researchers in general and specially to the institutions that do not have such high end instrumentation facilities to enable them to pursue R&D activities and keep pace with developments taking place globally. At present, 15 SAIFs are being supported by DST. About 20,000 research workers from all over the country utilize the facilities provided by the SAIFs annually.

Innovation in Science Pursuit for Inspired Research (INSPIRE) Faculty Scheme

of DST offers assured opportunity to doctoral students in both basic and applied sciences for pursuing 5 years independent research activities at any recognized University/academic Institution/Laboratory in the country. So far, more than 1200 INSPIRE faculty awards have been offered to pursue a career in S&T Research and Development.

Council of Scientific and Industrial Research (CSIR) pursues high quality research through its constituent laboratories. CSIR collaborates with industry so as to develop the desired technology and deploy the same for socio-economic development in the country. In doing so, it networks with academic institutions as well synergistically. Over the years, CSIR has made significant contributions in the fields of affordable healthcare, chemicals and petrochemicals, value added agriculture, minerals, metals and materials, food and food processing, construction and housing, leather, glass and ceramics etc. CSIR provides state-of-the-art facilities to pursue research and development activities.

(c) Yes Sir.

(d) There has been an increase in patents registered by Indian institutes and universities. IITs and many state and central universities have shown a rising trend in Patent applications. Details of top Indian applicants for patents from institutes and universities are given in the Statement (*See below*). CSIR files over 150 patents per year in India and about 200 patents per year abroad.

Statement

Details of top Indian applicants for patents from institutes and universities, 2013-14 to 2016-17

| | (Number) | | | |
|---|----------|---------|---------|---------|
| Name of Institutes/Universities | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
| Indian Institute of Technology (collective) | 342 | 337 | 391 | 400 |
| Amity University | 92 | 43 | 99 | 106 |
| Indian Institute of Science | 32 | 46 | 46 | 54 |
| Veltech Dr. RR and Dr. Sr Technical University | # | # | 20 | 50 |
| G.H. Raisoni College of Engineering/G.H. R.Labs and Research Centre | 24 | # | 33 | 49 |
| Bharath University | 37 | # | 65 | 45 |
| Chandigarh Group of Colleges | # | # | # | 30 |

| Name of Institutes/Universities | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
|---|---------|---------|---------|---------|
| Chitkara University | # | # | 46 | 29 |
| Hindustan Institute of Technology and Science | # | 31 | # | 28 |
| National Institute of Technology (collective) | # | # | # | 26 |
| Saveetha School of Engineering, Saveetha University | 74 | # | 33 | # |
| Shoolini University of Biotechnology and Management Sciences | # | # | 22 | # |
| Janardan Rai Nagar Rajasthan Vidyapeeth (Deemed) University | # | 53 | 22 | # |
| Siddaganga Institute of Technology an Sree Siddaganga Education Society | 24 | 19 | 17 | # |
| National Institute of Pharmaceutical Education and Research (NIPER) | # | # | 15 | # |
| Dr. M.G.R Educational and Research Institute | # | # | 15 | |
| King George's Medical University | # | # | 14 | # |
| Sandeep Foundation | # | 33 | # | # |
| Sal Institute of Technology and Research | # | 22 | # | # |
| Karpagam University | # | 18 | # | # |
| Shree Chitra | 20 | # | # | # |
| University of Calcutta | 15 | # | # | # |
| Sastra University | 13 | # | # | # |
| Rajaram Bapu Institute of Technology | 13 | # | # | # |

Note: 1. # During the period under reference these organisations did not fall among top patentees.

2. The figures are arranged in the descending order by the reference year 2016-17.

Source: Annual Reports of the Controller General of Patents, Design and Trade Marks (various issues).

Privetization of Central Electronics Limited

885. SHRI SANJAY SINGH: Will the Minister of SCIENCE AND TECHNOLOGY be pleased to state:

(a) whether Government is trying to privatize the profit-making Public Sector Undertaking, Central Electronics Limited, by inviting applications from bidders to sell off hundred per cent of its stake in CEL, if so, the details thereof;

(b) details of the rationale behind the eligibility criteria for interested bidders; and