

Pheromones were identified for various insect pests to mass tap them in the field. Nanoparticle based carrier materials are also being developed to increase product efficacy in the field from 3-4 to 40-45 days.

The department has designed seven centres as “Referral Laboratories” in the country for standard determination and quality assurance. Intensive promotion programmes were launched for popularization and adoption of IPM and Integrated Pest and Nutrient Management (IPNM) techniques through training and extension activities.

Mass production technologies of Bio-pesticides/Biocontrol agents and Bio-fertilizers were transferred to industries. Others such as entrepreneurs, progressive farmers, unemployed agriculture and science graduates have started producing biocontrol agents. These industries and individuals/organizations have launched their products in the market.

International hub of scientific research

2788. SHRI B.S. GNANADESIKAN: Will the Minister of SCIENCE AND TECHNOLOGY be pleased to state:

(a) whether our country has emerged as international hub of scientific research over the last few decades but still faces a key challenge to convert the knowledge into inclusive growth;

(b) whether our country also contributes less than three per cent of the global research output and there is a huge difference between our country and China in terms of number of patents field;

(c) if so, the details thereof and steps taken by Government to increase research activities in science and technology; and

(d) the details thereof?

THE MINISTER OF SCIENCE AND TECHNOLOGY (SHRI KAPIL SIBAL): (a) Yes, Sir. India has emerged as international hub of scientific research during the decade largely due to the growth in number of foreign Research and Development (R&D) centers, increase in outsourced R&D, increase into R&D investment from both public and private sector, availability of scientists and engineers, rise in the scientific research publications etc. However, the interrelationship of knowledge or R&D with the other factors such as innovation, macroeconomic environment, infrastructure, health and primary education etc. needs strengthening of conversion of knowledge into inclusive growth.

(b) to (d) According to the UNESCO’s Science Report 2010, India’s share in World publications is 3.7% (2008). In terms of patents, there is relatively low share of patents field in India in comparison to those of China. According to the World Intellectual Property Indicators-2009 Report, India field 28,940 patents in 2006-07 as compared to 2,45,161 patents filed by China.

The Government have taken various steps for the promotion and growth of scientific research in the country. These measures include, setting up of new institutions for science

education and research, creation of centres of excellence and facilities in emerging and frontline areas in academic and national institutes, induction of new and attractive fellowships such as Innovation of Science Pursuit for Inspire Research (INSPIRE), strengthening infrastructure for R&D in universities, encouraging public-private R&D partnerships, fiscal incentives for R&D, national awards for outstanding R&D etc. Accordingly, the Government have enhanced Eleventh Plan allocation for Scientific Departments to Rs. 75,304.00 crores from Rs. 25,301.35 crores during Tenth Plan.

Pay anomaly cases in Central Electronics Limited

2789. SHRIMATI KUSUM RAI : Will the Minister of SCIENCE AND TECHNOLOGY be pleased to state:

- (a) the details of cases of pay anomaly pending with the Ministry, organization-wise;
- (b) the number of cases of anomalies in pay pending in Central Electronics Limited, Sahibabad;
- (c) the details of representations received in this regard till date, alongwith details of action taken/proposed to be taken, case-wise;
- (d) whether management of Central Electronics Limited was apprised of these cases number of times, but no action has so far been taken; and
- (e) if so, by when these anomalies are proposed to be rectified and the action proposed to be taken for inaction on part of Management Board?

THE MINISTER OF SCIENCE AND TECHNOLOGY (SHRI KAPIL SIBAL): (a) No cases of pay anomaly are currently pending with the Ministry of Science and Technology.

(b) No cases of anomalies in pay are currently pending in Central Electronics Limited, Sahibabad.

(c) One representation in this regard was received in Central Electronics Limited from Ms. Sangeeta Kumari, which was examined and no anomaly was found. The concerned employee has been informed accordingly.

(d) and (e) There has been no instance of inaction on part of Management of Central Electronics Limited, regarding pay anomaly cases.

Establishment of steel plant at Lassipora, Pulwama

2790. SHRI G.N. RATANPURI: Will the Minister of STEEL be pleased to state:

- (a) the reasons for the SAIL Board of Directors not approving the construction of its steel plant at Lassipora, Pulwama in Jammu and Kashmir, even three years after laying of its foundation by Government;
- (b) whether construction of this steel plant is expected to start during the current or next fiscal year; and