

RDI e-Newsletter

(A Quarterly Publication)

Industrial R&D Promotion Programme - IRDPP
Department of Scientific & Industrial Research (DSIR)
Ministry of Science & Technology, Govt. of India



The Department of Scientific and Industrial Research (DSIR) is one of the departments of Ministry of Science & Technology with mandate to promote industrial research for indigenous technology promotion, development, utilization and transfer. Department in its 12th Five year plan is running four schemes: BIRD-crf, PRISM, PACE and A2K.

Industrial Research and Development Promotion Programme (IRDPP) under BIRD-crf scheme is a promotional programme of DSIR that aims to strengthen R&D infrastructure in: i) Industry ii) Scientific and Industrial Research Organizations (SIROs) and iii) Public Funded Research Organizations (PFRIs). Government of India offers various Direct and Indirect fiscal Incentives to Public and Private enterprises for carrying out Research & Development in various sectors. DSIR within the framework of IRDP programme acts as nodal agency for granting recognition to Industrial R&D units and Research Institutions and implementation of Govt announced fiscal benefits in specified cases to DSIR recognized R&D units.

Incentives based on direct taxes (Income-tax Act, 1961)

- Weighted tax deduction @200% on expenditure (other than land & buildings) incurred on approved in-house R&D facilities of companies engaged in the business of bio-technology or in any business of manufacture or production of any article or thing, not being an article or thing specified in the list of the Eleventh Schedule. (Section 35(2AB) of the IT Act.)]
- Accelerated depreciation allowance for investment on plant and machinery, made on the basis of indigenous technology (Rule 5(2) of IT Rules, 1962).

Incentives based on indirect taxes to units approved by DSIR

- i) Customs duty exemption to in-house R&D units established by corporate companies, other than a Hospital for capital equipment and consumables needed for R&D. (Notification No.24/2007-customs, dated 01 March, 2007 as amended from time to time).

- ii) Central excise duty exemption to in-house R&D units established by corporate companies, other than a Hospital for capital equipment and consumables needed for R&D. (Notification No.16/2007-central excise, dated 01 March, 2007 as amended from time to time).
- iii) Central excise duty waiver for 3 years on good is designed and developed by a wholly owned Indian company and patented in any two countries out of: India, USA, Japan and any one country of European Union (Notification No.15/96-CE dated July 23, 1996, amended vide Notification No.13/99-CE dated 28 February, 1999).
- iv) Exemption from customs duty on imports made for R&D projects funded by Government in industry. (Notification No.50/96-Customs dated 23 July 1996).
- v) Goods specified in List-28 (comprising of analytical and specialty equipment) for use in pharmaceutical and biotechnology sector allowed to be imported duty free {notification No. 26/2003-Customs dated 1 March 2003 (entry substituted at S. No. 248 of the table in the said notification)} Subject to conditions mentioned in the notifications.

SWACHH BHARAT ABHIYAAN



Department participated in Swachh Bharat Abhiyaan launched by Hon'ble Prime Minister Sh. Narendra Modi on the birth anniversary of Mahatma Gandhi.

Hon'ble Dr. Jitendra Singh, MoS, Ministry of Science and Technology (Independent Charge) addressed employees of Technology Bhawan emphasizing that cleanliness at workplace, homes and surroundings is a must for healthy life. He along with officers and staff of Technology Bhawan participated in mission by sweeping roads of Technology Bhawan.

During the cleanliness drive in DSIR, old files were sent to record room, unused furniture, papers and equipments were kept aside to be discarded, floors, walls and washrooms were cleaned rigorously.



DSIR ERP initiatives received **Skoch Order-of-Merit certificate** at Indian Habitat Centre, New Delhi on 19th September 2014.

IRDPP has been successfully implemented online for efficient service delivery and offering best governance practices.

News Update from Industrial R&D approved by DSIR

Wockhardt's 2 drugs receive USFDA's QIDP status

The US Food and Drug Administration (USFDA) has granted Qualified Infectious Disease Product (QIDP) status for the Mumbai-based Wockhardt Ltd's two drugs, WCK 771 and WCK 2349. WCK 771 is an intravenous (IV) drug while WCK 2349 is a solid oral tablet, under anti-infective category. The drugs were also granted five-year extension to the drug patents in the US. Both WCK 771 and WCK 2349 act against *Methicillin-resistant Staphylococcus aureus* (MRSA) which causes a range of diseases from skin infections to severe respiratory infections. In case of severe infections like Hospital Acquired pneumonia (HAP), current medical cure has a very limited reach causing a high unmet need and mortality. Both of these drugs are effective against MRSA and have shown potential in treatment of HAP," said the company in a press release.

In House R&D unit of M/s Wockhardt Pvt Ltd located at Aurangabad is recognized by DSIR. The Company has been availing Indirect Fiscal Incentives and 200% Income Tax exemption on R&D investments (capital and revenue).

Development and commercialization of Ballast Water Treatment System (BWTs) & its electrolyzer by Titanium Tantalum Products Limited, Chennai

Titanium Tantalum Products Limited, Chennai, has developed India's first 'Electrolyzer' and 'System' for treatment of ballast Water in ships. Ballast Water Treatment System is used on ships for preventing transfer of invasive species from one location to another complying with International Maritime Organization's Regulations. Electrolyzer, the core component of the system has been designed and scaled up for application in full scale BWT Systems. The electrolyzers with a capacity ranging from 0.25 kg/h to 5.0 kg/h to treat ballast water of 25m³/h to 500m³/h flow rate has been developed and commercialized during FY 2013-14. The revenue earned by the company from commercialization of the product is ₹ 259.62 lakhs.

Indian Oil R&D bags 2 innovation awards

Indian Oil R&D won two national awards for technology innovation. Its innovative "REACH Compliant Novel Internal Donors Based Ziegler-Natta Catalysts for Producing **Phthalate Free Polypropylene**" was adjudged as the winner of the 4th National Awards for Technology Innovation in Petrochemical & Downstream Plastics Processing Industry in the category of Innovation in Green Polymeric Materials & Products. IndianOil has become the first Indian Company to develop novel REACH compliant Internal Donors, based on 1,2-phenylene dioates (Indian Patent 2040/MUM/2012 and PCT published WO 2014/013401 A1).

The **Solar LED Light** designed & developed by IndianOil R&D was awarded the Runners-Up award in the category of Innovations in Polymer Product. The awards were presented in the function by the Union Minister for Chemicals & Fertilizers, Shri Ananth Kumar in the presence of Shri Nihal Chand, Minister of State for Chemicals & Fertilizers. Indian Oil R&D achieved innovation in designing the Solar LED light with respect to use of polymeric materials of construction as well as multi-purpose use of the product as a lamp, lantern, mobile charger, bulb and torch.

News Update from SIRO

“What was one are now two --- Central Council for Research in Ayurveda and Siddha (CCRAS) bifurcated”

Govt. of India recently has bifurcated Central Council for Research in Siddha (CCRS) from Central Council for Research in Ayurveda and Siddha (CCRAS) for more focussed research and development of Siddha system of Medicine. CCRS has its headquarters in Chennai and five Research Institutes/Units in three states namely, Tamil Nadu (Chennai, Mettur & Palayamkottai), Puducherry (Puducherry) and Kerala (Thiruvananthapuram). Siddha is a science of holistic health emphasizing both drug and diet for human health care. The Council has the vision of preservation and transmission of Knowledge and enhancement of the quality of research for developing drugs with quality, safety and

efficacy through well-established preclinical and clinical research facilities --- to prevent / manage /cure the diseases of varied etiology.

SIROs in cancer research

DSIR had launched a scheme of granting recognitions to non-commercial Scientific and Industrial Research Organisations (SIROs) in 1988. Organisations eligible for recognition as SIRO should be a registered society/Trust; a Company incorporated under section-25; a University undertaking scientific research in the specific disciplines. The SIROs recognised by DSIR are eligible for customs duty exemption and excise duty waiver under notification nos. 51/96-Customs dated 23.7.1996 and 10/97-Central Excise dated 1.3.1997 respectively. As on 31st March 2014, 618 SIROs undertaking research in various disciplines such as agricultural sciences, medical sciences, natural and applied sciences, social sciences and few of universities/colleges are having valid recognition by DSIR. Out of 618 SIROs recognized, 245 SIROs are recognized in the area of medical sciences.

Medical SIROs are conducting vast research in public health, diagnostics, genetics, pharmaceuticals, oncology and other diseases such as diabetes, cardiovascular disorders, arthritis, etc. According to the latest World Cancer Report from the World Health Organization (WHO), nearly seven lakh Indians die of cancer every year, while over 10 lakh are newly diagnosed with some form of the disease (Source:

<http://news.webindia123.com/news/articles/ndia/20140204/2334060.html>). Cancer is a disease where more than 70% of disease burden is related to life-style factors such as food & beverage practices, personal habits, infections, tobacco consumption and social customs. In addition, urbanization,

industrialization and increasing life-span are also known to influence the cancer pattern globally. Various types of cancers have been reported in Indian population including the cancers of skin, lungs, breast, rectum, stomach, prostate, liver, cervix, esophagus, bladder, blood, mouth etc. But the most prevalent include lung, breast, stomach, gall bladder, cervical and oral cancer. The R&D programmes run by private sector in anti-cancer research are mainly focused towards cancer screening, chemoprevention, chemotherapy, anti-cancer drug development, epidemiology, identifying indigenous risk factors (through base-line population based surveys) for high incidence cancers, early diagnosis and detection, cancer awareness, radiotherapy and reducing toxicity of anti-cancer agents. There is a critical need towards the understanding of the biology of cancer particularly of the predominant types viz. oral cavity and uterine cervix. Cancer awareness & detection activities also have a key role since cancer can be cured if diagnosed and treated at an early stage. Apart from various pharmaceutical and biotech industrial R&D units undertaking research in anti-cancer drug discovery and development; various non-government societies, hospitals and institutes in India are contributing significantly in the above mentioned areas.

The SIROs recognized by DSIR working in cancer research include few of the Regional Cancer Centres (RCCs) which are the cancer care hospitals and research institutes operating in India under the joint control and funding of the Government of India and the respective state governments. In addition, the various trusts and societies are run by Office Bearers and Volunteers comprising of respected leaders with experience in the medical profession, scientific research, business, legal, finance, and public administration. SIROs have clearly stated objectives of undertaking scientific research, guidance of their

Research Advisory Committee, dedicated research personnel, R&D equipment, facility, infrastructure and time-bound well defined research programmes. The average expenditure done by the DSIR-recognized SIROs on R&D activities ranges from few lakhs to few crore rupees.

A brief overview of the research projects being undertaken by different SIROs is given below:

- i. Isolation and identification of anticancer drugs from natural products including plants, marine sources, fungi, mushrooms, herbs, etc.
- ii. Herbal extracts as ayurvedic adjuvant and Homeopathy in Cancer
- iii. Arsenic induced carcinogenicity through groundwater contamination in several states
- iv. Translational Research in biomarkers identification (proteomics & genomics)
- v. Cancer Diagnostics, Chemotherapy, treatment strategy and palliative care: This may also include diagnostic & prognostic molecular tests for oncogenes.
- vi. Epidemiological Studies in Cancer: SIROs are working on epidemiological studies related to genetic profiling in ovarian, breast, pediatric colorectal and cervical cancer and validation of biomarkers.
- vii. Clinical trials: SIROs are also associated with various pharmaceutical companies for conducting clinical trials.
- viii. Cancer Awareness, Early Detection and Prevention: SIROs run breast & cervical cancer awareness screening & management programmes both in rural and urban areas. They provide a complete comprehensive cancer check up service at a very nominal cost to the needy people and creating awareness among the people about cancer and

importance of cancer detection at early stage.

ix. Cancer Registry Network: SIROs are generating data on magnitude and patterns of cancer both outside and/or as a part of National Cancer Registry Programme (NCRP) commenced by Indian Council for Medical Research (ICMR).

The main purpose of bringing out this article is to provide a reference source

various industries, Government Departments, R&D institutions and others who may like to take the opportunity of initiating interaction with the SIROs in various disciplines of cancer research. The collaborative efforts between academia, industry and hospitals is required which would generate the new era of preclinical model development as well as new clinical trial design, ultimately helping the cancer patients.

Table: Name of SIROs recognized by DSIR along with their main cancer research area, and web link

S.No	Name of the SIRO and weblink	Research Area
1.	Amala Cancer Research Centre Society (ACRCS), Kerala [www.amalaims.org]	Herbal anti-cancer drugs
2.	Cancer Foundation of India (CFI), Kolkata [www.cancerfoundationofindia.org]	Arsenic induced carcinogenicity
3.	Cancer Institute (WIA), Chennai [www.cancerinstitutewia.org]	Herbal anti-cancer drugs
4.	Chittaranjan National Cancer Institute (CNCI), Kolkata [www.cnci.org.in]	Herbal anti-cancer drugs, Arsenic induced carcinogenicity, diagnosis, chemotherapy, Cancer awareness (Granted three Indian patents on anti-cancer properties of neem leaf glycoprotein)
5.	Dharamshila Cancer Foundation and Research Centre (DCFRC), New Delhi [www.dhrc.in]	Clinical trials of anti-cancer agents
6.	Indian Cancer Society (ICS), Parel [www.indiancancersociety.org]	Cancer awareness and early detection
7.	Indian Cancer Society (ICS), Solapur [www.icssolapur.org]	Cancer awareness and early detection
8.	Indo-American Cancer Institute and Research Centre (IACIRC), Hyderabad [www.induscancer.com]	Translational research, diagnostics, cancer therapy, training and awareness
9.	Indraprastha Cancer Society and Research Centre (ICSRC), New Delhi [www.rgcirc.org]	Clinical trials of anti-cancer agents, new treatment therapy in lymphomas
10.	Kidwai Memorial Institute of Oncology (KMIO), Bangalore [www.kidwai.kar.nic.in]	Inter-digiting chemotherapy, photodynamic therapy,
11.	Mahavir Cancer Sansthan (MCS), Patna, [www.mahavircancersansthan.com]	Arsenic induced carcinogenicity, cancer awareness, clinical trials, herbal anti-cancer drugs
12.	Netaji Subhash Bose Cancer Research Institute, (NSBCRI), Kolkata [www.nscri.in]	Cancer awareness and early detection, Translational research
13.	Regional Cancer Centre (RCC), Thiruvanthapuram [www.rcctvm.org]	Cancer awareness, detection and anti-cancer therapy
14.	Saroj Gupta Cancer Centre & Research Institute (SGCCRI) (formerly known as Cancer Centre Welfare Home and Research Institute), Kolkata. [www.cancercentrecalcutta.org]	Radiotherapy, Radiodiagnosis, epidemiological studies, Clinical trials, Translational research
15.	Gujarat Cancer Society (GCS), Ahemadabad [www.gcsmc.org]	Pediatric cancer, pulmonary cancer

(For any comments on this article, write to Dr. Tripta Garg, Sc-C, DSIR; Email: tripta.garg@nic.in)

IN-HOUSE R&D UNITS RECOGNISED BY DSIR DURING JULY- SEPTEMBER

During July- September 2014, DSIR has granted fresh recognition to the in-house R&D units of the following firms:

Engineering & equipment machinery

1. M/s Shree Magnets Private Limited, Kolkata
2. M/s Nelcast Limited, Nellore
3. M/s LuK India Private Limited, Hosur
4. M/s Hawa Valves (India) Pvt. Ltd, Mumbai

Electronics and Optical Equipments

5. M/s SFO Technologies Pvt. Ltd, Ernakulam
6. M/s CoreEL Technologies (India) Private Limited, Bangalore
7. M/s Analinear Design Technologies Pvt. Ltd., Hyderabad
8. M/s Napino Auto And Electronics Limited, Gurgaon

Agriculture

9. M/s Texcity Biosciences Pvt. Ltd., Coimbatore
10. M/s Boortmal India Holdings Pvt. Ltd., New Delhi
11. M/s Jai Shankar Seeds Pvt. Ltd., Sri Ganganagar
12. M/s AgriTop Seeds Pvt. Ltd., Rajkot
13. M/s Suraj Cropsciences Private Limited, Panchmahal
14. M/s Paradeep Phosphates Ltd. , Bhubaneswar
15. M/s Kalash Seeds Pvt. Ltd , Jalna

Healthcare (Pharmaceuticals, Biologics, Medical Devices)

16. M/s. Loka Biosciences Pvt. Ltd., Hyderabad
17. M/s United States Pharmacopeia India Private Limited, Hyderabad
18. M/s Zytex Biotech Pvt. Ltd., Mumbai
19. M/s Johari Digital Healthcare Ltd., Jodhpur
20. M/s Alfa Corpuscles Pvt. Ltd., New Delhi
21. M/s Dr G Wellness Pvt. Ltd., Delhi
22. M/s Quad Lifesciences Pvt. Ltd., Mohali

23. M/s Aastrid Life Sciences Pvt. Ltd. Mumbai
24. M/s Twenty First Century Pharmaceuticals Pvt. Ltd., Chennai
25. M/s RA Chem Pharma Ltd., Hyderabad
26. M/s Datt Mediproducts Ltd., Kolkata
27. M/s Stabicon Life Sciences Pvt.Ltd.,Bangalore
28. M/s D.D. Pharmaceuticals Pvt. Ltd., Jaipur
29. M/s Jubilant Biosys Limited, Noida

Dyes & Chemicals

30. M/s Standard Greases & Specialties Pvt. Ltd., Mumbai
31. M/s Baerlocher India Additives Pvt. Ltd., Mumbai
32. M/s Oniosome Healthcare Pvt. Ltd., Chandigarh
33. M/s DSK InnoSciences Pvt. Ltd., krishnagiri

Information Technology and Software

34. M/s Ramyam Intelligence Lab Pvt Ltd., Bangalore

SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION (SIRO) approved by DSIR

Fresh recognition as SIROs was granted by DSIR to following organizations having well-defined research objectives. The recognition is valid up-to 31.03.2017.

1. Central Council for Research in Siddha (CCRS), Chennai
2. Soukya Foundation Charitable Trust, Bangalore
3. Saraswati Dental College and Hospital, Lucknow
4. Health Related Information, Dissemination Amongst Youth (HRIDAY), New Delhi
5. Madanapalle Institute of Technology & Science, Madanapalle, Andhra Pradesh
6. Raajdhani Engineering College, Bhubaneswar
7. Vel Trust, Chennai
8. Vishwanand Kendra, Pune
9. M.S. Ramaiah University of Applied Sciences, Bangalore

Electronic System Design and Optical Equipments:

Company	Location	3CM validity
M/s ESSAE Teraoka Ltd.	Bangalore	17.12.2013 to 31.03.2016
M/s Evolute Systems Pvt. Ltd.	Ulsoor, Bangalore	23.04.2013 to 31.03.2016
M/s Kritikal SecureScan Pvt. Ltd.	Noida, Gautam Buddha Nagar, U.P.	01.04.2013 to 31.03.2015
M/s Landis + Gyr Ltd.	Noida, U.P	01.04.2014 to 31.03.2017

Agriculture:

Company	Location	3CM validity
M/s Foliage Crop Solutions Pvt. Ltd.	Villupuram, Tamilnadu	01.04.2013 to 31.03.2016
M/s Namdeo Unaji Agritech (India) Pvt. Ltd.	Pune	01.04.2013 to 31.03.2015
M/s Paturu Agri Biotech Pvt. Ltd.	Jinnaram (Mandal), Medak Distt.	06.06.2013 to 31.3.2016

Dyes and Chemicals:

Company	Location	3CM validity
M/s Huntsman International (India) Pvt.	Andheri (E), Mumbai	01.04.2014 to 31.03.2015
M/s Elantas Beck India Ltd.	Pune	01.04.2014 to 31.03.2016
M/s Reliance Cellulose Products Ltd.	Medak (A.P.)	01.04.2010 to 31.03.2014
M/s Alps Chemicals Pvt. Ltd.	Valva, Ahmedabad (Gujarat)	28.01.2014 to 31.03.2015

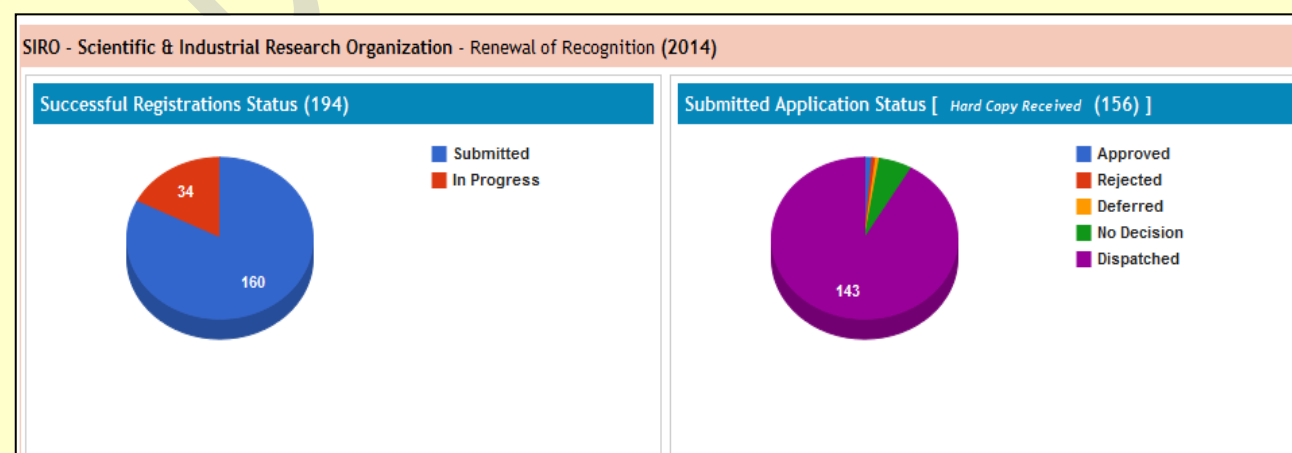
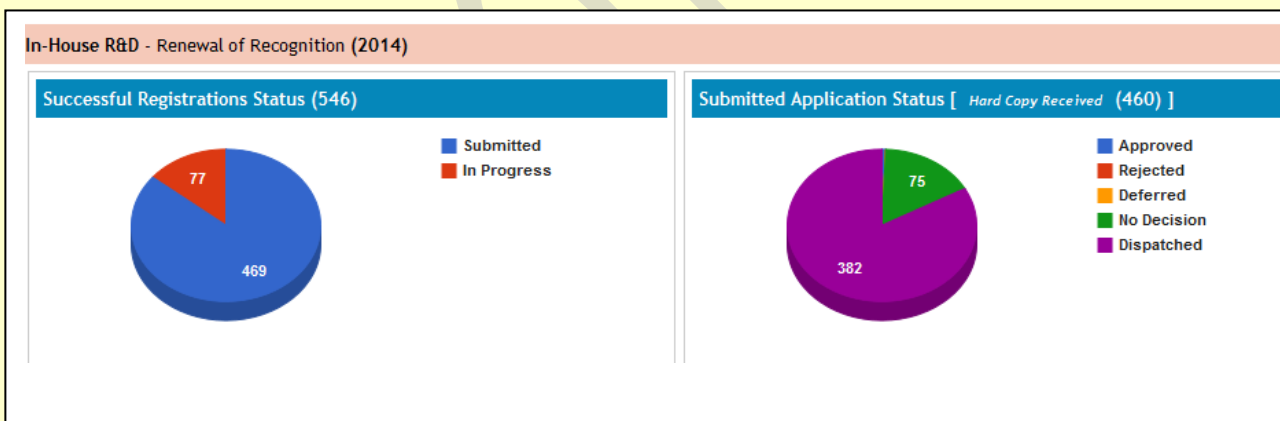
Engineering and equipment Machinery:

Company	Location	3CM validity
M/s PHA India Pvt. Ltd.	Kanchipuram, dist. Chennai	01.04.2014 to 31.3.2017
M/s Sandeep Axles Pvt. Ltd.	Palwai, Haryana	01.04.2014 to 31.03.2015
M/s Thejo Engineering Ltd.	Ponneri Taluk, Tamilnadu	04.07.2013 to 31.03.2016
M/s BMC Electroplast Pvt. Ltd.	Waluj, Aurangabad	01.04.2013 to 31.03.2015
M/S Radix Electrosystems Pvt. Ltd.	(i)Anderi (W) & (ii) Mahape, Navi Mumbai	01.04.2015 to 31.3.2016
M/s Mazda Ltd.	GIDC Naroda, Gujarat	08.10.2013 to 31.03.2016
M/s Precision Camshafts Ltd.	MIDC, Solapur	01.04.2014 to 31.03.2016
M/s General Industries Controls Pvt. Ltd.	Bhosari, Pune	28.01.2014 to 31.03.2016
M/s Plazma Technologies Pvt. Ltd.	Bhosari, Pune	25.07.2013 to 31.03.2016
M/s Tirth Agro Technology Pvt. Ltd.	Dist. Rajkot (Gujarat)	01.04.2013 to 31.03.2017
M/s Formulated Polymers Ltd.	Thirumazhisai, Chennai	01.04.2013 to 31.03.2017

Healthcare (Pharmaceuticals, Biologics, Medical Devices)

Company	Location	3CM validity
M/s S Kant Healthcare Ltd.	GIDC, Yap	30.4.2014 to 31.03.2017
M/s BioEra Life sciences Pvt. Ltd.	Tathawade, Pune	28.01.2014 to 31.03.2016
M/s Allianz Biosciences Pvt. Ltd.	Mannadipet Commune, Puducherry	01.04.2013 to 31.03.2016
M/s Marksans Pharma Ltd.	Varna, Goa	01.04.2013 to 31.03.2015
M/s Hospira Healthcare India Pvt.Ltd.	Kanch eepuram, Tamilnadu	01.04.2013 to 31.03.2016
M/s AMI Lifesciences Pvt. Ltd.	Taluk-Padra, Dist. Vadodara	01.04.2014 to 31.03.2016
M/s Bafna Pharmaceuticals Ltd.	Chennai	27.06.2013 to 31.3.2016
M/s Caplin Point Laboratories Ltd.	(i) Thiruvallur Dist. Tamilnadu & (ii) Gumidipoondi, Dist, Thiruvallur, Tamilnadu	28.01.2014 to 31.03.2016
M/s Transasia Bio-Medicals Ltd.	Andheri (E), Mumbai	01.04.2010 to 31.03.2015
M/s Bharat Parenterals Ltd.	Ta. Savli, Dist. Vadodara	01.04.2013 to 31.03.2016

Online Renewal of recognition of In house R&D units of Industry and SIROs beyond 31st March, 2014



UPDATES

- DSIR has created a portal for submission of applications for fresh and renewal of recognition and registration of in-house R&D units (RDI), Scientific and Industrial Research Organisations (SIRO) and Public Funded Research Institutions (PFRI) w.e.f. 05.11.2012.
- Users seeking new recognitions/registrations of In-House R&D (IRD), Scientific & Industrial Research Organisations (SIRO) and Public Funded Research Institutes (PFRI) may register themselves online by accessing the Respective Programs through BIRD-crf scheme.
- Companies with In house R&D units approved in form 3CM u/s35(2AB) of IT Act, 1961 needs to submit complete documents (single set) by 31st October, 2014 as per annexure IV of DSIR guidelines to facilitate submission of report in form 3CL to DGIT(E) by the Department.
- All In-house R&D Units and SIROs due for renewal of recognition in the year 2015, should submit the online application for renewal of their facility, 3 months prior to expiry of validity period.

The Department has issued revised guidelines for approval of Companies and submission of report in form 3CL under section 35(2AB) of the Income-tax Act, 1961. The new guidelines can be accessed from the following link: http://www.dsir.gov.in/forms/irdpp/352ab_guidelines_may2014.pdf

DSIR welcomes Feedback/suggestions for improvements. For any specific information on (a) Recognition of in-house R&D centres in industry, (b) Recognition of Scientific and Industrial Research Organisations, PFRI and (c) Fiscal incentives for scientific research and commercialisation of R&D, write to:

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