Appendix 11

HUMAN RESOURCE DEVELOPMENT GROUP

The various activities of the Group are as follows:

1. Organization of Industrial Training Courses

Organisation of Training Courses on various physical parameters in the area of Metrology / Standards, as well as on other specialized topics is an important activity of the HRD Group. These courses are primarily meant for the personnel belonging to various industries, Testing & Calibration laboratories and other S&T organisations. However, the NPL staff members are also encouraged to attend these courses, where ever found fit.

The Training Courses consist of theory lectures on various scientific & technical aspects of the training course, followed by practical demonstration and hands-on training on the related instruments / apparatus / machines.

Six (06) Training Programmes on various physical parameters in the area of Metrology / Standards, as well as on other specialized topics were organised by NPL during the period from 1st April 2013 to 31st March, 2014, the details of which are as follows:


2. Training Programme on Mass Metrology, 20-22 August 2013

3. Training Programme on Force, Torque & Hardness Metrology, 4-6 September 2013


5. Workshop on Coordinate Metrology, 17-18 December 2013


This activity led to an ECF generation of ₹ 73,72,160

2. Placement, Ph.D. Registration and other Support to Research Fellows

One of the most prominent activities of the NPL is to provide help and support to Research Fellows (JRFs / SRFs), starting from the time they join NPL till the time they leave NPL. This includes their placement in a suitable Division / Group and helping them in getting Hostel accommodation, if required. This also includes their Ph.D. registration, assessment for continuance / upgradation, deputation to attend conferences, etc. Sometimes, the help to the Research Fellows starts even before they join NPL. This refers to the cases wherein they are invited and inspired to join NPL for their Ph.D. programme.

During the period from 1st April 2013 to 31st March, 2014, 41 research fellows (Project staff/JRFs/ SRFs) were inspired to join NPL, resulting in a total strength of Research Fellows in NPL to be 115, as on 31.03.2014. Most of these students are registered under AcSIR.
3. Organization of Institutional Visits to NPL

Organization of institutional visits involving students / teachers / faculty members / personnel belonging to schools / colleges / universities / technical institutes / S&T organisations is an important activity of the NPL. The basic objective is to provide the visitors a glimpse of the NPL activities and achievements, and thus enhance visibility of NPL in the society.

During the period from 1st April 2013 to 31st March 2014, Five (05) institutional visits were organized by NPL, which involved around 150 students from different schools/Colleges/Universities.

4. Organization of Students’ Training at NPL

NPL provides Training (6 months & above) to students pursuing M.Sc./M.Tech./MCA, or their equivalent degree programmes, at different educational institutions spread all across the country, in the areas of research activities being carried out at NPL. The basic objective is to provide the students a feel and importance of the various activities, as well as to motivate them towards scientific research as the career.

During the period from 1st April 2013 to 31st March 2014, 151 students were provided training oriented towards the fulfillment of their academic degree requirements in different areas of research under the guidance of senior scientists,

This activity led to an ECF generation of ₹ 5,55,000/-. 

5. Deputation of NPL Staff Members to Attend Conferences / Similar Events

NPL encourages and supports its staff members, including the students like JRFs, SRFs, PAs, RIs, RAs, SRAs, etc., to attend and present papers at national / international conferences / symposia / seminars / workshops, organised by different agencies in areas relevant to research activities being carried out at NPL. This is primarily meant to enable the staff members to put forward their views and research results before the leading national / international experts and interact with them on the latest developments in their research areas.

During the period from 1st April 2013 to 31st March 2014, 314 cases of NPL scientists and other staff members including research scholars, were nominated to participate in various conferences / similar events and different Training Courses held across the country.

6. AcSIR and M.Tech. Programme Related Activities

All activities related to M.Tech programme for Advanced Material Physics & Engineering and AcSIR Ph.D Students including Interviews, Admission Process, Classes (theory/tutorial/practical), Examinations and Evaluation are handled by the HRD Group in consultation with the AcSIR-NPL Coordinator.

During the above mentioned duration, (07) M. Tech students joined CSIR-NPL for “Advanced Material Physics & Engineering” Course under the IMP Category and 41 Students were enrolled for Ph.D. in AcSIR in current financial year.

7. Organization of National Science Day Function

The ‘National Science Day’ was celebrated at National Physical Laboratory, New Delhi on February 28, 2014 in the form of “Poster Presentation Symposium” with great enthusiasm and commitment. Prof. R. C. Budhani, Director, NPL addressed the scientists and students and introduced the chief guest for the
science day function, Dr. R. Muralidharan, Director, Solid State Physics Laboratory, New Delhi. The insightful and informative lecture by the chief guest on the topic ‘Electronic Materials and Devices – Enablers for Defense Technology’ was highly appreciated. Director, NPL honored the chief guest with a shawl and NPL memento. The lecture was followed by poster presentation by the research students to mark the quality research going on in NPL.

One hundred & fifteen (115) posters were displayed by students which were visited by the scientific fraternity, thus fostering scientific temperament among the students. The posters were also evaluated by the jury and four students were awarded “the best poster awards”.