



APPENDIX - 11

HUMAN RESOURCE DEVELOPMENT GROUP

The various activities of the Group are as follows:

1. Organisation 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.

Nine (09) Training Courses on different subjects were organised by NPL during the period from 1st April 2012 to 31st March 2013., the details of which are as follows :

S. No.	Name of Training Course	Date	No. of Participants
1	Training Course on Mass, Volume & Length Measurements	24-27 April 2012	26 (Legal Metrology)
2	Workshop on advanced Material Charecterization techniques	10-13 July 2012	8 + 13 (NPL)
3	Training Programme on Quality System	22-24 August 2012	13+10 (NPL)
4	Training Programme on Blood Pressure, Force Measuring Instruments and Clinical Thermometers	27-29 August 2012	42 (Legal Metrology)

5	Training Programme on Mass Metrology	3-5 September 2012	19 + 02 (NPL)
6	Workshop on Electrical Metrology & Low level DC Measurements	17-19 October 2012	20
7	Training Programme on IP with Special Reference to Patent Search & Drafting Specification	2nd November 2012	29 (NPL)
8	Training Programme on Temperature Standards and Metrology	6-9 November 2012	11
9	Training Programme on Pneumatic & Hydraulic Pressure Measuring Instruments & their calibration	17-18 January 2013	15

This activity of HRD Group led to an ECF generation of ₹ 30.04 lacs.

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 2012 to 31st March 2013, 26 research fellows (JRFs/SRFs) were inspired to join NPL, resulting in a total strength of Research Fellows (JRFs+SRFs) in NPL to be 97 as on 31.03.2013.



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 2012 to 31st March 2013, Six (06) institutional visits were organised by NPL, which involved around 200 persons from different institutes and colleges.

4. Organisation 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 2012 to 31st March 2013, 96 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 of HRD Group led to an ECF generation of ₹ 4 lacs.

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 2012 to 31st March 2013, 458 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 current year Nine (9) M. Tech students joined NPL for "Advanced Material Physics & Engineering" Course.

7. Organisation of National Science Day Function

National Science Day was celebrated at CSIR-National Physical Laboratory, New Delhi on 28th February 2013. On that occasion, Prof. S.D. Mahanti, University of Michigan, USA delivered the 'Science Day Lecture' at NPL auditorium. Director, NPL welcomed and introduced the chief Guest to the audience. All staff and students from NPL attended the lecture and interacted with the speaker. After the lecture, there was a poster session by NPL students (JRF, SRF, PA and RI) during 2:30-4:30 PM. More than 92 students from different R&D groups presented their results. A team of five eminent scientists acted as the Jury. The committee members visited all the posters and interacted with the students. Out of these, five posters were selected for the best poster awards.

