

TECHNICAL INSTITUTES UNDER MINISTRY OF STEEL

The Ministry oversees the functioning of two Technical Institutes which are presently dedicated to human resource development and providing industrial services to the steel industry.

(1) NATIONAL INSTITUTE OF SECONDARY STEEL TECHNOLOGY (NISST)

NISST was incorporated as a Society on 18th August, 1987 with its registered office at Chandigarh under the Chairmanship of Development Commissioner for Iron & Steel with the following aims and objectives:

- To provide trained manpower to secondary steel sector by conducting short term and long term courses.
- To bring awareness about the State of Art Technology by holding seminars, symposia, workshops and in-house training programmes relevant to secondary steel sectors.
- To provide various industrial services and testing facilities.
- To extend consultancy services to the industry in terms of solving technological problems, improving energy efficiency and reducing pollution levels.
- To conduct Research, Development and Design work in frontier areas for providing updated technology to this sector.
- To organize for documentation and information retrieval services to the industry.
- To provide a platform for interaction between industry and educational as well as research institutions.

The following areas of the secondary sector are under the purview of the of the Institute:-

- Electric Arc and Induction Furnace units
- Ladle Refining facility

- Rolling Mills (Hot & Cold)
- Direct Reduced Iron Units.

The Institute has its own campus constructed on six acres of land located on GT Road, Mandi Gobindgarh, Punjab. The Institute also has a Hostel facility as well as staff quarters besides having a laboratory and a library. It has two regional Centres located at Nagpur and Kolkata. The headquarters of the Institute were shifted from Delhi to Mandi Gobindgarh in April 1977.

The Institute is managed by a Board of Governors consisting of members from industry, Educational Institutions, Industrial Associations & Ministry of Steel. The Joint Secretary, Ministry of Steel looking after the work of DCI &S is the Chairman of the Institute.

During 2003-04, in addition to its normal HRD and industrial service programmes, the Institute has started offering mini ERP solutions to the secondary steel sectors.

(2) **BIJU PATNAIK NATIONAL STEEL INSTITUTE, PURI ORISSA (BPNSI).**

Background:-

Biju Patnaik National Steel Institute (BPNSI) was established on January 1, 2001 by Ministry of Steel and the institute is registered under the Society Registration Act, 1860. Presently, it is situated in a 3-acre campus on the Puri sea beach road and is equipped with laboratories, classrooms and administrative office. It is housed in a building belonging to the Tourism Department of Govt. of Orissa. Currently, BPNSI is conducting 1 year full time Advanced Diploma Courses in (a) Welding Technology (b) Software Development and Computer Maintenance.

In order to make BPNSI a self financing and sustainable centre of excellence, Ministry of Steel appointed a 2-member committee in December 2002 to prepare a Project Report. The committee submitted its report in February 2003 and recommended that the institute should be an industry driven organization and should conduct courses and provide training programmes for development of trained manpower for the small and medium enterprises (SMEs) of the secondary steel

sector. Further, it should carry out research, technology development and demonstrations (RTD) in the areas of energy and environment and provide technical assistance to the secondary steel sector which does not have institutional support.

The Institute has proposed the following centers of excellence as a part of their expansion programme in the near future :-

- Advanced Welding & Stainless Steel Fabrication
- Heat Treatment & Metallurgy
- Automation & Process Control
- Centre of Energy Technology & Transfer (CETT)

The project has been approved by the Union Government in the month of February, 2004 with a capital outlay of Rs. 20.36 Crores. It has been envisaged that the above amount will be released from the JPC fund.

The major initiatives taken during last year were as follows:-

1. In order to build the campus of the institute, 22.4 acres of land has been acquired in Mauza Chaitna (Puri) which is about 13 kilometers from the Puri town and is situated on Puri – Konark marine drive road. The boundary wall around the entire land is almost complete.
2. The Kalinga Institute of Technology & Design, Bhubaneswar, an organization registered under the Society's registration Act 1860 which was primarily established by Government of Orissa to extend technology, design & R&D support to the industries of Orissa has shown keen interest to join hands with BPNSI to carry out R&D projects jointly. A space of around 2,500 sq. ft. will be made available in their existing building in Bhubaneswar for the above activities with no financial liabilities to BPNSI. A draft MOU is also under consideration.
3. M/s Macedon Indo Austrian Ventures (P) Ltd. Titlagarh (Orissa) have offered their unit, which is a mini steel plant, to BPNSI, as a demo plant to carry out R&D activities for development of new technologies related to SME's in the steel sector.

4. BPNSI organized a National Workshop on “Stainless Steel Fabrication” on April 8 – 9 April, 2004 which was attended by 150 participants from various industries all over the country. This enabled the institute to establish direct contact with various industries, which will enable it to enhance its business portfolio.
5. The Institute, at present, is conducting diploma courses as well as providing vocational training to students in the area of software development and computer applications. The institute has a meager strength of 6 faculty members with supporting staff mostly on contract basis.