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BIJU PATTANAİK NATIONAL STEEL INSTITUTE
(A Training and Technology Development Centre)

AIMS & OBJECTIVES

Steel technology institute will help to achieve excellent results in production of steel to enable competition with international markets. Indian steel will have to be globally competitive whether for the domestic customer or the international customer.

Indian industry must take effective steps to reduce the cost of quality i.e. the expense of doing things wrong. This is the cost of lower yields, rework arisings, customer complaints, etc. Apart from better quality, domestic consumers are also looking forward to superior grades.

Most of the international companies are investing heavily to reduce man power cost. India has lower labour cost per tonne of steel. However, material value productivity in India is low. It is also a fact that Indian steel mills consume 80 per cent more energy than the efficient mills the world over.

Technology upgradation by replacement of old technology which offer lower unit size and lower investment has to be adopted to survive in a competitive global environment, as well as to improve working methods to achieve zero defect production. High expectations in customer's service right from beginning of order booking to after sales service has to be met.

Many small steel plants may not have a training institute of their own. This institute will be able to impart induction training for their fresh employees in both the graduate and under graduate category apart from technology upgradation training for the experienced personnel.

Over 50,000 skilled personnel (estimated figure) will be required based on steel projects. To meet this man power requirement need is felt of a training institute which is completely based on the steel sector, which will help to develop the skills in production of steel and maintenance of steel plants and mining equipment.

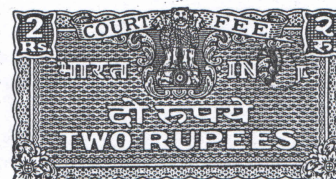
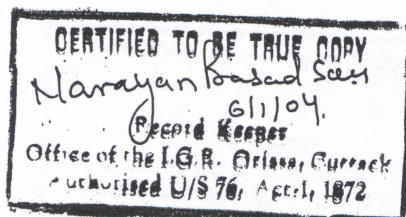
Objectives

The main objectives of the institute are:

- To develop human resource for meeting the needs of steel sector to face global competition.
- To enhance or develop skills of international standards among persons in steel sector.
- To upgrade the skills of the existing personnel in the steel sector.
- To act as a link between the industry and academic institutions.
- To be a centre for technological information for steel industries.

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- To network with other institutes of similar nature.
- To provide consultancy services for steel and allied industries.

The institute will develop competent man power by creating technology attitude linkage of

- Consciousness of better quality and products.
- Acceptance of competitive team spirit and shop floor responsibility.
- Ability for problem showing, cost reduction and utilisation of resources.
- Application of modern technology.

The institute will assist in acquiring the skills to manufacture steel products closer to the exact specification and tolerances as desired by the customers and be a center of excellence for imparting training in the state of art technology of steel production. Institute to develop skilled man power in the division of steel making, different trades, process control, automation and information technology by the name of Biju Pattnaik National Steel Institute. This Institute will further expand its activities for providing training to the professionals to acclimatize with different developments.

MODALITIES OF TRAINING

The main aim of institute is to provide sound technical base to fresh candidates, those who are seeking placement opportunities in steel plants. The institute will regularly conduct technical up-gradation programmes to engineering personnel of steel industry. The institute envisaged trained faculty in different disciplines for training fresh candidates and will also provide facilities to steel sector employees to develop multi skilled expertise for their career advancement. This institute will act as a common facility for steel plants who may not have their own training centre.

The institute will provide a training to the following candidates:

- Pre-degree level candidates
- ITI certificate holders and diploma holders
- Graduate engineers
- Executive Development program
- Consultancy services to steel industries
- Any other stream as and when required

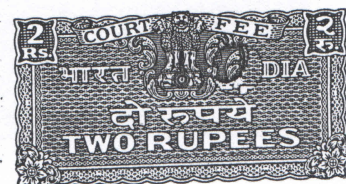
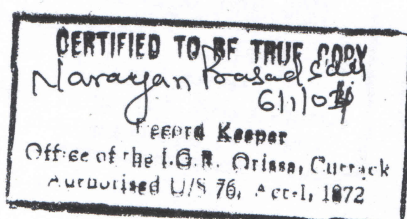
Candidates will be selected on aptitude test and merit.

The Institute will have close interaction with steel industries for guest lectures. Industrial visits, in-plant training and project work:

Faculty members of the institute will be from existing steel plants and other academic/training institutes or faculty appointed on full/part time basis. Persons having special knowledge in steel technology will be invited to the institute as faculty members.

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TRAINING PROGRAMMES

To train personnel to acquire knowledge in the above areas the following training programmes are proposed.

The training programmes are planned for different personnel like, ITI diploma and graduates and employed persons of steel industries.

The curriculum of training will be based on qualification of personnel and modified and upgraded as per latest needs from time to time. The syllabus will be designed to impart knowledge in latest technology. An expert committee including industrialists and academicians will develop detailed need based curriculum. The institute will be committed to offer quality training on production and maintenance areas in steel plant. The details of training courses proposed for different groups are as below:

Pre-Degree level: Candidates having aptitude to take up technical jobs in steel plants will be imparted training in operation of furnaces, materials handling systems, continuous casting machines, rolling mills, power plant distribution networks, utility systems and transportation equipment, maintenance and serving of steel plant and mining equipment.

ITI and Diploma Holders: These candidates will be trained in specific areas such as hydraulics, pneumatics, PLC based operations, advanced welding and joining techniques, inspection techniques. Condition monitoring, operation of CNC machines, automation, instrumentation and maintenance of steel plants and mining equipment, etc.

Graduate engineers: Engineers will be given orientation training in steel technology as required by the steel plants.

Information Technology: Since the steel industry is closely related with information technology and computer process technology, different courses on computer application and maintenance will be organised by this institute.

Refresher courses for persons coming from steel plants and other ancillaries discipline for level upgradation and technology upgradation will also be part of the curriculum.

Apart from above training all candidates will be trained in workshop technology, testing and laboratories.

Sushon Banerjee

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