

## *GTU INNOVATION COUNCIL*

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### **Bhavnagar Sankul makes significant efforts to help GTU Innovation Council set up Sectoral Innovation Council in Re-rolling mills Technology to support local MSMEs.**

The Bhavnagar Sankul has initiated the activities of Sectoral Council under the guidance of GTU Innovation Council. The preliminary meeting was held in the chamber of Principal, Government Polytechnic on 09<sup>th</sup> Feb, 2012 at 15:00 hrs to discuss various issues related to re-rolling industries of Bhavnagar district.

There are two associations of re-rolling industries viz.

1. Bhavnagar Re-rolling mill association and
2. Sihor Re-rolling mill association.

The meeting was initiated with the welcome address by Prof Dr. K.G. Mehta, Principal, Sir B.P. Institute, Bhavnagar.

Prof Dr. G.D. Acharya, Co-Chairmen (Academia) Bhavnagar Sankul discussed GTU's initiative and objectives of Re-rolling Sectoral Innovation Council. Shri Nitinbhai Kanakiya, Re-Rolling Mill Association, Bhavnagar and Shri Hareshbhai Patel, Re-Rolling Mill Association Mill, Sihor gave a briefing about the current status. Shri Vikram Shah, Technical Consultant, Rolling Mills projected various issues and challenges of Re-Rolling Mill Cluster through a brief on "CAPACITY BUILDING IN BHAVNAGAR INDUSTRIES PARTICULARLY RE-ROLLING MILLS OF BHAVNAGAR AREA" (Attached Annexure).

The following points emerged during the meeting.

#### **Re-Rolling Mill Issues and Challenges.**

- Re-Rolling Mill is a labour intensive and energy intensive industry. At present shop floor runs with unskilled labour force and this work force is fit for daily routine job for convention technology only.

- The industry is ready to adopt new innovative ideas and technology to sustain in the global competitive market but it is not possible through their existing work force, and infrastructure.
- The Association is also interested in sustainable growth.
- The current machine equipment and workforce is coming from Punjab and particularly from Mandi Govindgadh.
- Our Units have roll pass scrap (it/any) based technology which is different from technology of Punjab Rolling Mill.
- The Association is also interested to adopt automation but the current work force is unable to accept new technology because they have a fixed mind set.
- The Association is interested in capacity building in terms of
  - a) Human Resource
  - b) Energy Consumption
  - c) Pollution Control
  - d) Automation
  - e) Technological Development
- Re-Rolling Mills require multi skilled person having knowledge of Mechanical/Electrical/Fitting etc. A rolling mill is also in need of Turners/Fitters, Welders etc.
- The Association wants to move over to the Modern Technology of roll pass design.

### **Suggestion from Academia (Engineering + Management)**

Industries and Institutes should come together and work together for mutual benefit. The Institute may identify interested students and organize meetings in the institute. The institute (Engineering & Management) can help the Re-Rolling mills in the following areas:

- Need analysis survey,
- SWOT analysis of Re-Rolling mills,
- Develop awareness in the students by arranging lectures, panel discussions and personal discussions with groups of interested students,
- Arrange training programme for existing work force in the area of adaptability to new technology, attitude change, need for innovation in the global market, human resource development, motivation to adopt automation,

- Arrange short term training under skill development mission in the area of turner, fitter, welder, electrician, wiremen as per the needs of industries under the scheme of CDTP,
- The Faculty members will visit industries and identify the different skill required for the industries,
- Arrange video show for students to project the need of the rolling mill and to inform them about the need for working in a high temperature environment,
- Students will prepare presentations in consultation with industrial experts and teachers with suitable video clips,
- GTU Sectoral Council will help the association by arranging conferences and inviting experts to solve the problems of rolling mill of Bhavnagar area,
- The problem can be identified and solved by the students under the guidance of teachers and experts from industries under IDP Activity.





The following members were present in meeting.

SN	Name of Description	Designation	Name Of Organization
01.	Prof. K.G. Mehta.	Principal.	Sir B.P. Institute, Bhavnagar.
02.	Shri Nitinbhai Kankiya.	Triveni Rolling Mill.	Bhavnagar Re-rolling Mill Association.
03.	Shri Hareshbhai.	Patel Rolling Mill.	Sihor Rolling Mill Association.
04.	Shri Vikrambhai Shah	Consultant.	Tech. consultant.
05.	Dr. G.D.Acharya.	Co-chair (Academia)	Sir B.P. Institute, Bhavnagar.
06.	Shri A.M.Talsaniya.	Member, Re-rolling sectoral council.	Sir B.P. Institute, Bhavnagar.
07.	B.B. Makwana.	Head Electrical Engineering Dept.	Sir B.P. Institute, Bhavnagar.
08.	P.B. Pathak.	T.P.O.	Sir B.P. Institute, Bhavnagar.
09.	M.K. Shukla.	Head Mechanical Engineering Dept.	Sir B.P. Institute, Bhavnagar.
10.	Prof. C.G. Oza.	Coordinator UDISHA Club.	Sahjanand Management college.
11.	Prof. Saroj Vats.	Director Bhavnagar Sankul (MBA).	Sahjanand Management college.
12.	A.Y. Patel.	Student, Fabrication Technology.	Sir B.P. Institute, Bhavnagar.
13.	N.C. Pithwa.	Student, Fabrication Technology.	Sir B.P. Institute, Bhavnagar.
14.	J.M. Sarvaiya.	Student, Fabrication Technology.	Sir B.P. Institute, Bhavnagar.
15.	G.B. Makwana.	Student, Fabrication Technology.	Sir B.P. Institute, Bhavnagar.
16.	V.B. Patel.	Student, Mechanical.	Sir B.P. Institute, Bhavnagar.
17.	Hitesh Dhanvani.	Student MBA.	Sahjanand Management college.
18.	Jignesh Vidani.	Student MBA.	Sahjanand Management college.
19.	M F Battiwala.	Student MBA.	Sahjanand Management college.

## ANNEXURE

### CAPACITY BUILDING IN RE ROLLING MILLS OF BHAVNAGAR AREA

The development of Bhavnagar is increasing at passive rate. There are mainly two parts of the development: commercial and industrial. We shall focus on the industrial development.

In Bhavnagar the main industries cluster consist of diamond cutting & polishing, plastic monofilament for fresh and recycled raw material, ginning and pressing of cotton, salt manufacturing and ship recycling and related industries like oxygen manufacturing, induction furnace and steel rerolling mill.

For development of an industrial cluster, the main requirements are easily available finance, infrastructure, raw material and skilled labour. Though the Bhavnagar area is situated in a corner with negligible railway facility, the infrastructure is not a problem. Raw material for all type of industries mentioned above, are available in plenty. The last factor is skilled labour.

The diamond industries have created one of the best mechanisms to create skilled labour from nearby villages. Training by experienced workers creates a steady flow of semiskilled workers who get jobs in small sized diamond cutting and polishing factories. Due to semi atomization, skilled labour is not very much required in the plastic industries. Other industries are labour based.

The main requirement of skilled labour is in steel re rolling mills and induction furnaces. The re rolling requires a number of skilled person and mills always have scarcity of supervisory staff even though in Bhavnagar technical institute like SS Eng. College, Government Eng. Collage, BPTI and ITI are situated.

As this is a directly production related job, the factory condition is somewhat tough and most of the small scale units are not in a position to pay the contemporary pay scale to graduate engineers, it is not feasible to train fresh engineers for this industries. So our focus should be on Diploma holders of mechanical and electrical engineers and trained workers of ITI related branches.

There is always a gap in the requirement of industries and knowledge available with the fresh diploma holders coming out from various institutes.

The first step should be to identify the group of students who would like to work in re rolling mills of Bhavnagar. The next factor is home town. If the selected person's permanent residence is Bhavnagar area, it is likely that he will remain in the job permanently. Another factor is practical training during education and after that in re rolling mill. With the help of industries association this can be managed with a stipend during education and trainee status after the formal education is over. With the efforts put up by respective employers in training a particular person, a bond system for at least 3 years should be chalked out with payment terms at par with the best in Bhavnagar industries. The training period should be one year where he can learn the working, mechanical systems of the mill and maintenance of mechanical and electric systems, so that he can independently take charge of the same after completion of the training.

At the same time ITI trained skilled labour should be employed who can complete their training in six months and work as a team member under supervision of the selected diploma holder supervisors.

To initiate the process lectures can be arranged in the college itself by experts in mill technology with help from concerned association. The whole exercise can get help from NGO or funding agency for capacity building in the industry.

In this way can build a bridge between industry and institute and create a workforce which can be easily absorbed in the local industry so that migration cost can be eliminated and local employment is created.

Vikram Shah, Ace Consultancy, Bhavnagar.

For Bhavnagar and Sihor Re rolling Mills Associations

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