Research Methodology

In existing experiment of import substitution will contain various steps. Hence the methods and procedure followed in conducting this research is furnished under the following heads

Research Area

Research will carried out in BOSCH LTD Nasik and UNI AUTOMATION Pune Green zone.

Nashik is a city in Maharashtra, India. Nashik is the third largest city of Maharashtra and also third most industrialised city in Maharashtra, fourth fastest growing city of India and 16th fastest growing city of the world. It is the 11th most populated district in India with growth of 22.33% in last decade. It is also the 16th estimated fastest growing city in the world for period 2006-2020 by city mayor report..

Major industries

The HAL plant is an aircraft manufacturing plant located 10 miles (16 km) from Nashik employing about 7000 people. The Currency Note Press and Indian Security Press are located in Nashik Road Indian currency and government stamp papers are printed respectively. Manufacturers who have set up plants in the Nashik MIDC area include: Bosch India - previously MICO Bosch, Mahindra and Mahindra, CEAT, Thyssen Krupp, Samsonite, Atlas Copco, Crompton Greaves, ABB, GlaxoSmithKline, Cipla, Glenmark pharmaceuticals, L&T, Schneider Electric, Jindal Steel, Garware, Gabriel India, Lear Corporation, Excello India, Kirloskar, IBP, Coca Cola, Siemens, TDK Epcos, EATON, Shalimar Paints, Hindustan National Glass Ltd, Mylan Lab Ltd. Sharda Motors, Jyoti Structures, Cable Corporation Of India, Bajaj CFLs etc. few to name. There are many more Big industries in Nashik.
Nashik is also emerging as a Business process outsourcing (BPO/IT) destination and is in list of the selected Tier II cities for BPO/IT companies. Currently there is One Private IT Park Named Vascon IT Park, and another under construction at Ambad named Anand Mahindra IT Park. ESDS Software Ltd, GloStream and Hostgator India, Application Nexus, WNS, Winjit Technologies, I-Tech System, Netwin, Cognifront, Datamatics, etc. are few of the IT Companies in Nashik. IndiaBulls is setting up a Multipurpose SEZ at Sinnar near Nasik named Neocity SEZ over an area of 2500 hectares. It is first and largest multipurpose SEZ in Maharashtra. This will also increase a large number of industries. Nashik has Two Thermal Power Plants 1. NTPC Eklahare Nashik 2. Indiabulls Power Ltd Sinnar. Also, Suzlon energy has Windmill power generation in Sinnar. Recently Mukesh Ambani’s Reliance Group is planning to step in aerospace industry with Nashik as its headquarters. Reliance is planning an investment of 1 billion dollars.

Pune is located 560 m (1,840 ft) above sea level on the western margin of the Deccan plateau. It is situated on the leeward side of the Sahyadri mountain range, which forms a barrier from the Arabian sea. It is a hilly city, with its tallest hill, Vetal Hill, rising to 800 m (2,600 ft) above sea level. Just outside the city, the Sinhagad fort is located at an altitude of 1300 m. Central Pune is located at the confluence of the Mula and Mutha rivers. The Pavana and Indrayani rivers, tributaries of the Bhima river, traverse the northwestern outskirts of metropolitan Pune. Pune in Green Environment. This plant houses best in class thick film printing facility to cater to wide range of applications from automobile, industrial, medical, textile, defence and earth moving applications. A class 10,000 clean room for printing and curing is unique in whole of Asia!
Research Design

Sample Size

We are going limited number of sample as the cost of sample is high so company has allow us to do testing of 10 samples.

Source of Data

In order to test the specific objective of investigation, present study will include primary and secondary information.

(a) Primary Information

On the experimental data following the quality guide line and tolerance limit we will conduct the experiment and note down the observation for further analysis. The experiment will conducted in 1st primary sample in UNI AUTOMATION in Pune Green. Further validation will be in BOSCH LTD Nasik and for approval of sample this cable will tested in lead plant of BOSCH in Germany.

(b) Secondary Information

Secondary Information will be compiled from following offices:

1. Supplier identification Survey near Pune and Nasik city
2. BOSCH Quality guide lines for developing supplier
3. Experience of quality of identified supplier for different product to BOSCH.
4. Acceptance criteria of sample as per BOSCH QUALITY BOOKLET.
Selection of the Study Area

Supply chain management, as defined by the world famous, Institute of Supply Management Inc., USA, is the design and management of seamless, value added process across organizational boundaries to meet the real need of the end customer. Supply Chain Management encompasses the planning and management of all activities involved in sourcing and procurement, conversion, and all logistics management activities. Importantly, it also includes coordination and collaboration with channel partners, which can be suppliers, intermediaries, third party service providers, and customers.

Import substitution refers to local production and consumption of goods and services, as opposed to importing products for local consumption from other regions. Increasing attention on sustainability indicates why import substitution should be revisited and highlighted. In contemporary capitalistic society, people have, without any doubt, valued growth. However, we now recognize that undue growth is accompanied by critical problems such as energy shortages, environmental contamination, and climate change. The answer to the questions of whether we should stop growing completely or whether we can live without production is no. Despite problems caused by growth, we cannot stop producing materials because doing so would create other problems such as unemployment.

Analysis of data

Detailed description of comparison based on Import substituted Test cable and present imported cable from Germany. Following are the step to analyzed the data

1. Define validation criteria and test bench needed after manufacturing the test cable at supplier end. Note test parameter data for each cable of 1st 10 samples.
2. Define and freeze the validation criteria at BOSCH LTD, Nasik for testing of sample of test cable after receiving from supplier. Take testing tolerance data for test cable and record it for further comparison.

3. Doing validation of test cable in BOSCH LTD, Nasik and making open point list for further improvement of test cable and ask supplier to close all open points and send sample to BOSCH LTD, Nasik for further validation. Take data for comparison and analysis with imported test cable.

4. Doing validation (Comparison between Import substituted Test cable and Imported test cable) again in BOSCH LTD, Nasik and send few sample to Lead plant of injector BOSCH LTD, Germany for further validation of test cable. Record data of BOSCH Germany before making engineering change request for supplier change from imported to Local i.e Import substitution. After approval of test cable validation from lead plant doing engineering change request for this test cable for inter validation documents.

Tentative Work Plan

(I) First Year

(A) First Six Months
   (a) Indentifying the supplier
   (b) Sample manufacturing

(B) Second Six Months
   (a) Validating sample at supplier end
   (b) Validating sample in BOSCH LTD Nasik

(II) Second year
   (a) Collection of all validation data
   (b) Sending sample to BOSCH LTD Germany
   (c) After approval making import substitution regularised
Tentative Chapter Plan

Chapter 1: Introduction
Chapter 2: Review of Literature
Chapter 3: Methodology
Chapter 4: Profile of the Study Area
Chapter 5: Results and Discussion
Chapter 6: Conclusions and Suggestions

Appendices
Bibliography
Webliography