

## **Seminar on Electronic Hardware/Semiconductor/Embedded**

**Topic:** GoO Policy on Electronic Hardware, Semiconductor and Embedded industry-across Odisha. Latest trends in technology and framing a Semiconductor Policy of Odisha.

**Venue:** Hotel Crown, Bhubaneswar

**Date:** 18<sup>th</sup> December 2011

**Time:** 10 AM

### **Members Present:**

1. Mr. Purna Mohanty, CEO, HP Microsystems Inc USA
2. Mr. Jagat Shah, Founder & CEO, Global Network India
3. Ms. Rasmi Das, Price Water House Coopers
4. Mr Samir Jena, Manager, Gennum Technologies
5. Mr. Debasis Sahu, Interra Systems Pvt Ltd

### **Objective**

A seminar on the Electronic Hardware/Semiconductor/Embedded was convened to focus on the opportunities in Odisha and pointing out 5 bottlenecks preventing growth in this sector to shape up the Hardware Policy. The theme of the seminar was discussing the “GoO Policy on Electronic Hardware, Semiconductor and Embedded industry- across Odisha” .Discussion on the latest trends in technology and framing a Semiconductor Policy of Odisha was also the part of the seminar. Mr. Purna Mohanty was the moderator of this event.

### **Description:**

Mr. Jagat Shah gave a presentation on vibrant Gujarat and highlighted on the features that would help the replication of this model elsewhere in the country. He also discussed about the business opportunities available in Manitoba, Canada that the entrepreneurs of Odisha can explore in terms of business tie ups.

Mr. Purna Mohanty started the interactive session by speaking on the potentiality of semiconductor in India. He said there is huge demand of Semiconductor and embedded system in India. In Odisha as the market is virgin in this sector and there is a need to start up. According to him the focus should be given on Electronic System Design and manufacturing.

Ms. Rasmi Das talked on the activities they are involved in and introduced Mr. Piyush of PWC to present an overview on the Draft Policy on Hardware Manufacturing that they are working out for IT, Department, Government of Odisha. He discussed on the focus areas to improve the hardware manufacturing in the State which they have framed in the said policy. He said there is lot of scope in Odisha as its growing in terms of infrastructures and mostly telecommunications.

Mr. Samir Jena gave a talk on “What semi/electronic/emb industry need to thrive in Bhubaneswar”. Initially he gave a brief introduction about his company Gennum Technologies. He discussed about the challenges they faced while starting up the venture. He said there is lack of strong pool of specialized talent, lack of in-depth knowledge in engineers, lack of entrepreneurs in VLSI design. He also discussed on the areas that should be given focus, they are VSR, Analog, Embedded software, Board design, etc. He also highlighted some of the plans that would provide the semiconductor sector a lift to open up the opportunities. Creation of local talent pool by providing adequate knowledge on the sector, development of R&D Business Models and infrastructures by developing incubation centres. Others things like Plug-n-Play facilities need to be provided. Financial incentives, branding and marketing of the sector need to be emphasized to promote the semiconductor business in Odisha.

Mr. Debasis Sahu talked on the topic-“Building up start up ecosystem on semi/emb/electronic in Odisha”. He initiated the talk by speaking on the possibilities and related challenges of the sector. He discussed about the evolution of semi conductor industry in India, key challenges constraining the start up growth, key activities to be undertaken and suggestion and recommendations.

He cited about the lack of quality availability and maturity of talents, absence of a startup and SME ecosystem, lack of semiconductor ecosystem. Other things like lack of adequate infrastructures, policies and implementable incentives are the prominent challenges that are to be overcome. Again he suggested that Govt. of Odisha should focus on promoting Odisha as a preferred location to start semiconductor design. The idea should be establishing incubation centres, establishing R&D labs, EDA tools labs and having uninterrupted power supply. Also there should be some tax benefits in both direct and indirect taxes. He also said there should be some kind of policy document on semiconductor that will help the start-ups to refer the and act accordingly.

The meeting ended with thanks to the Chair.