Call for Expression of Interest
Flexible and stretchable multi-layer PCBs

2nd October 2015
Background

Rigid

- TVs, Laptops, tablets, mobile phone and other conventional electronics gadgets

Rigid-Flex

- Night vision goggles, hearing aids, wearable devices and other applications requiring bending operations.

Flexible

- Needed for applications requiring various form factors and extreme bendability

- Flexible PCB technology needs to precede flexible electronics product

www.rpcelectronics.com

www.spectracad.com

www.multi-circuit-boards.eu

EOI-7: Flexible multi-layer PCB
PCB applications are spread across the broad value chain

EOI-7: Flexible multi-layer PCB
Market Size and Potential

Flexible and Rigid-Flex PCB market is showing higher growth rate compared to rigid only

www.compositesworld.com, TTM Technologies

EOI-7: Flexible multi-layer PCB
Challenges – India Specific

World PCB market

- Indian Flexible PCB industry has negligible global presence
- Also, Indian flexible PCB industry is not yet ready for flexible electronics market

⇒ Need for an R&D push for flexible (and stretchable) PCB industry
Proposed Solution

- **FlexE Centre** is developing a **roll-to-roll** compatible additive multi-layer flexible and stretchable PCB manufacturing technology.
Advantages of proposed solution

• Additive technology
  – Less material consumption
  – Non-vacuum processes
  ⇒ Cheaper and greener

• Roll-to-roll process ⇒ high through-put

• Validation of the flexible PCB technology on electronic devices developed by FlexE Centre
Call for Partners

- We are seeking partners across the value chain shown above.
- We are looking for partners to enable the scaling and manufacturability of the developed processes.
- Preferential terms for early partners.

EOI-7: Flexible multi-layer PCB
# Contact Information

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Also visit our webpage for more details on partnership models and other technology domains: [www.ncflexe.in](http://www.ncflexe.in)