

Optical Fibre Bragg Grating (FBG) based sensors for smart infrastructure and industrial process monitoring

IPR STATUS
Patented

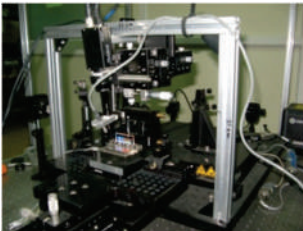
APPLICATION/USES
Structural health monitoring and industrial process control

- SALIENT FEATURES**
- Optical fibre based sensing devices.
 - Free from electromagnetic interference.
 - Operable in harsh environments where conventional sensors are unusable
 - Can be used in distributed form i.e. over hundreds of sensors in a single optical fibre

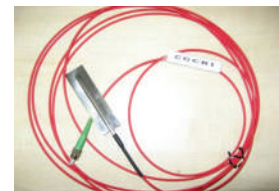
- Tiny sensors so easily embeddable in structures during fabrication of structures leading to development of intelligent infrastructure

LEVEL/SCALE OF DEVELOPMENT
Prototypes of FBG based strain, temperature, pressure and vibration sensors developed and deployed.

LINE MINISTRY MAPPING/USER SECTOR
Ministry of Telecommunications/
Ministry of Railways/ Ministry of Urban Development



FBG sensor fabrication system



Packaged FBG strain and temperature sensors

