

PSG College of Technology has signed an MoU with Roots Industries Private Ltd, Coimbatore. As a part of this initiative, PSG Tech has developed a cost effective device "Automatic Positive Airway Pressure"(APAP) and has transferred the technology to Roots Industries. **The product was designed and developed by Department of Biomedical Engineering, PSGCT.** The device can function either as a Continuous Positive Airway Pressure (CPAP) device or APAP device. This APAP device is an effective treatment for obstructive sleep apnea patients. Obstructive sleep apnea is the condition, in which during the sleep, the upper airway is obstructed due to the relaxation of the throat muscles. APAP device identifies the sleep apnea event and automatically delivers the required amount of positive pressure to open the upper airway and helps the patients for normal respiration to happen. Using the developed Android mobile app, the user can select the modes of operations and view the pressure and flow values of inspiration and expiration for a period of 8 hours via Bluetooth technology. The APAP device has a touch screen display and is specifically designed for low cost and can be used for the betterment of society.



