

CSIR-CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI

List of Equipment planned to be procured in next 5 Years

| Sr. No | Name |
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| 1. | Probe Station for IR-based Gas Detector Measurement System |
| 2. | Simulation and design Software's (CST, solid works, APYSYS, PICS3D, Silvaco, ADS, AutoCAD, Next Nano, COMSOL) |
| 3. | Vacuum pumps (TMP, ion pumps, sublimation pumps, rotary, diffusion) |
| 4. | VNA calibration kit |
| 5. | Gallium oxide furnace |
| 6. | Molecular beam epitaxy (MBE) reactor |
| 7. | Auger Electron microscopy (AES) |
| 8. | X-ray photoelectron Spectroscopy (XPS) |
| 9. | High voltage probe station |
| 10. | High Semiconductor parameter analyzer |
| 11. | Network analyzer (4 GHz-500 GHz) |
| 12. | Deep level transient spectroscopy (DLTS) |
| 13. | Reliability test setup (LEDs, laser diodes) |
| 14. | Chillers |
| 15. | SIMS |
| 16. | Electromagnet (One tesla) with power supply |
| 17. | Laser diode testing setup |
| 18. | Hot plates |
| 19. | Plasma enhanced atomic layer deposition (PEALD) |
| 20. | Focus Ion Beam (FIB) |
| 21. | Microwave Plasma Chemical Vapour Deposition System (MPCVD) for diamond growth |
| 22. | UV LED characterization system |
| 23. | Deep Reactive Ion Etching (DRIE) |
| 24. | Laser diode test setup |
| 25. | Laser diode controller |
| 26. | Laser diode beam analyzer |
| 27. | Rapid thermal annealing system |
| 28. | Ovens |
| 29. | Spin coaters |
| 30. | Electrochemical sensors setup and instruments |
| 31. | Electron Beam Lithography (EBL) |
| 32. | TEM with sample preparation |
| 33. | THz Camera |
| 34. | THz source |
| 35. | Galvano scan heads |
| 36. | Motorized translation stages |
| 37. | Motorized rotational stages |
| 38. | Minor Equipments |
| 39. | THz imaging software |
| 40. | Optical Spectrum Analyser (1um-12um) along with accessories |
| 41. | Electronic components such as microcontroller, ADC, OP-AMP and level shifter, Power controller etc. |
| 42. | Optical Components such as Lens, Grating, Filters |
| 43. | Electronic circuit fabrication and Mechanical circuit fabrication |
| 44. | PbS detector array |

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| 45. | NIR Source and Detectors |
| 46. | Optomechanical Components such as mount, post, optical breadboard etc |
| 47. | PC-Workstation with NVIDIA Graphics Cards, |
| 48. | UPS (3KVA.) |
| 49. | Colour Printer (1No.) |
| 50. | Real time ECG acquisition system (Holter) |
| 51. | Driving Simulator |
| 52. | Work station + UPS |
| 53. | Laptop |
| 54. | RGB Camera |
| 55. | IR Cameras |
| 56. | Optical Spectrum Analyser (1um-12um) along with accessories |
| 57. | Desktop computer system |
| 58. | Scanner |
| 59. | Color printer |
| 60. | Procurement of books |
| 61. | Switches for Networking |
| 62. | Fire Detection, Alarm and Suppression System (for whole Institute) |
| 63. | Fire Extinguisher |