



GOVERNMENT OF INDIA



DEPARTMENT OF ATOMIC ENERGY

EXCELLENCE IN SCIENCE, ENGINEERING & TECHNOLOGY AWARDS SCHEME

# Homi Bhabha Science & Technology Award 2017

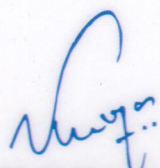
## Dr. Christ Prakash Paul

Laser Development and Industrial Applications Division,  
Laser Group  
Raja Ramanna Centre for Advanced Technology, Indore

is conferred the Homi Bhabha Science & Technology Award for the year 2017 for his contribution to "Laser based Metal Additive Manufacturing".

Dr. C. P. Paul has made important contributions to the indigenous development of laser based metal additive manufacturing technology for the fabrication of various engineering components. He has conceived, designed and developed systems for laser additive manufacture based on both direct energy deposition and powder bed fusion technologies. The systems use high power laser beam to melt the powder and build the components layer-by-layer with desired features in terms of geometrical complexity, porosity and material performance. These systems are deployed for the fabrication of difficult-to-manufacture engineering components such as innovative ID cladding nozzle for deposition of material on the inner surface of pipes of diameter 65 mm or more and a Prototype Hip Implant. His work also included the development of material-specific process parameters for the laser additive manufacture of components for BARC, IGCAR and ITER-India projects and development of analytical and numerical models for laser cladding process.

The Chairman, Atomic Energy Commission has great pleasure in presenting the "Homi Bhabha Science & Technology Award 2017" to Dr. Christ Prakash Paul in recognition of his outstanding contribution to the Departmental programme.



(K.N.Vyas)

Chairman, Atomic Energy Commission & Secretary to the Government of India