AROUND SOUTH AND AROUND SOUTH A 9011481 BBLT091402401793 Serial No सूक्त लघु एवं मध्यम उद्यम S SMALL & MEDIUM ENTERPR MSME-TOOL ROOM, BHUBANESWAR ISO-9001, ISO-14001 OHSAS-18001 ISO-29990 A Govt. of India Society (An Indo-Danish Project) Under MINISTRY OF MSME B - 36, Chandaka Industrial Area Bhubaneswar -751024 Mr. / Miss. CHINMAYA KUMAR ROUT is awarded this CERTIFICATE for having fulfilled the requirements of the institute for THE ONE YEAR POST DIPLOMA IN TOOL DESIGN & MANUFACTURING (CAD/CAM) The course comprises the following subjects 1. COMPUTER FUNDAMENTALS & MS OFFICE 9. Solid works 2. AUTO CAD

- - Auto CAD Basic Modelling
 - Auto CAD Advanced Modeling
- 3. PART PROGRAMMING
 - FANUC, HEIDENHAIN Control System
 - Mill, Lathe
- 4. MASTER CAM
 - 2D Drawings 2D Tool Path

 - Surface Modeling
- 3D Tool path
- 5. SIMULATION
 - Sinumerik
 - Fanuc
 - Lathe, Mill
- 6. CNC MACHINE PRACTICESS & CUTTING TOOLS
 - CNC Milling, CNC Lathe
 - Study of Different types of cutting Tools.
 - Tool Clamping Devices **Cutting Tool Signature**
- 7. UNIGRAPHICS
 - Sketcher
 - Part Modelling

 - Assembly Surface Modeling
 - Drafting
 - Manufacturing
 - Motion Simulation
- 8. CREO
 - Part Modeling
 - Detailing & Drawing
 - Part Assembly Sheet Metal
 - Mold Design Using CREO
 - Manufacturing

Period of Course: From: 09.07.2014 To: 30. 05. 2015

Date of-Award: 30. 05. 2015

Sr. Manager (Training)



- Part Modeling
- Assembly
- Drafting
- Sheet Metal
- Core & Cavity Extraction
- 10. CATIA
 - Part Modeling
 - Surface Modeling
 - **Drafting & Detailing**
 - Assembly
 - Sheet Metal
 - Press Tool Design using CATIA
- 11. MOULD DESIGN
 - Types of Mould
 - Plastic Material & their applications
 - Mould Material
 - Injection Molding Machines
 - Injection Mould Design
- 12. PRESS TOOL DESIGN
 - Types of Operation / Shear theory
 - Type of Tool (Progressive, Compound,
 - Combination)
 - **Press Machines**
 - Punches & their mounting
 - Die Block
 - Pilots / Strippers
 - **Bending Dies**
- 13. PROJECT WORK
 - Design and Manufacturing of Progressive Press
 - Design and Manufacturing of Single Cavity Injection Mould

Dy. General Manager