

## NO. OF SPONSORED RESEARCH PROJECTS

Name of the Department:- Production Engineering and Workshop

Year :- 2002 – 03

| Sr. No | Title of the research project | Name of Sponsor | Duration with date of completion | Amount |
|--------|-------------------------------|-----------------|----------------------------------|--------|
| 1.     | ---                           | ---             | ---                              | ---    |

Year :- 2003 – 04

| Sr. No | Title of the research project   | Name of Sponsor   | Duration with date of completion | Amount   |
|--------|---|---|----------------------------------|----------|
| 1.     | Performance Evaluation and Characterization of Micro Electro Discharge Machining (MEDM) on some unconventional materials. | Department of Science and Technology (DST), Govt. of India. | 5 Years<br>December 25, 2008.    | 10 Lakhs |

Year :- 2004 – 05

| Sr. No | Title of the research project | Name of Sponsor | Duration with date of completion | Amount |
|--------|-------------------------------|-----------------|----------------------------------|--------|
| 1.     | ---                           | ---             | ---                              | ---    |

Year :- 2005 – 06

| Sr. No | Title of the research project | Name of Sponsor | Duration with date of completion | Amount |
|--------|-------------------------------|-----------------|----------------------------------|--------|
| 1.     | ---                           | ---             | ---                              | ---    |

Year :- 2006 – 07

| Sr. No | Title of the research project | Name of Sponsor | Duration with date of completion | Amount |
|--------|-------------------------------|-----------------|----------------------------------|--------|
| 1.     | ---                           | ---             | ---                              | ---    |

Year :- 2007 – 08

| Sr. No | Title of the research project | Name of Sponsor | Duration with date of completion | Amount |
|--------|-------------------------------|-----------------|----------------------------------|--------|
|--------|-------------------------------|-----------------|----------------------------------|--------|

|    |   |       |           |            |
|----|---|-------|-----------|------------|
| 1. | “Stability and Reliability based design of Machine Tool Spindle by Quasi static and Dynamic Analysis” | AICTE | 2006-2008 | 9.65 Lakhs |
|----|---|-------|-----------|------------|

**Year :- 2009 – 10**

| Sr. No | Title of the research project                             | Name of Sponsor | Duration with date of completion | Amount |
|--------|---|-----------------|----------------------------------|--------|
| 1.     | Measurement and Analysis of Advance Ergonomics Attributes | AICTE           | 2009-11                          | 10     |

**Year :- 2010 – 11**

| Sr. No | Title of the research project | Name of Sponsor | Duration with date of completion | Amount |
|--------|-------------------------------|-----------------|----------------------------------|--------|
|        | ---                           | ---             | ---                              | ---    |

**Year :- 2011 – 12**

| Sr. No | Title of the research project         | Name of Sponsor | Duration with date of completion | Amount      |
|--------|---------------------------------------|-----------------|----------------------------------|-------------|
| 1      | Modernization of Mechatronics Lab     | AICTE-MODROB    | ---                              | 15.00 lakhs |
| 2      | Excellence in Maintenance Engineering | AICTE-SDP       | 12-24 Dec 2011                   | 1.90253     |

**Year :- 2012 – 13**

| Sr. No | Title of the research project  | Name of Sponsor | Duration with date of completion | Amount      |
|--------|--|-----------------|----------------------------------|-------------|
| 1      | Measurement of Surface Roughness using Light Sectioning Microscope and Vision system (AVM)                 | AICTE-RPS       | ---                              | 12.00 lakhs |
| 2      | Uses of Hydrostatically Loaded Blank Holder for Deep Drawn Shell with Uniform thickness Strain and Wrinkle | AICTE-RPS       | ---                              | 15.00 lakhs |

|   |  |           |     |             |
|---|--|-----------|-----|-------------|
|   | free Surface (BUS)   |           |     |             |
| 3 | Fabrication of Electro Discharge Machining Electrodes by Rapid Tooling with Application of FDM Rapid Prototyping Process (SSA) | AICTE-RPS | --- | 21.50 lakhs |

**Year :- 2013 – 14**

| <b>Sr. No</b> | <b>Title of the research project</b>                      | <b>Name of Sponsor</b>   | <b>Duration with date of completion</b> | <b>Amount (Lakhs)</b> |
|---------------|---|--|---|-----------------------|
| 1             | Ultrasonic Turning  | Bharat Forge   | Ongoing                                 |                       |
| 2             | Vibration Assisted Drilling                               | Bharat Forge   | Ongoing                                 |                       |
| 3             | Cryogenic Machining                                       | Bharat Forge   | Ongoing                                 |                       |
| 4             | Effect of Heat Treatment on Machinability                 | Bharat Forge   | Ongoing                                 |                       |
| 5             | 3D Printing   | Bharat Forge   | Completed                               | 0.375                 |
| 6             | "Biomedical Engineering and Technology Incubation Center" | Rajiv Gandhi Science & Technology Commission, Govt. of Maharashtra | Ongoing                                 | 250 (3939)            |
| 7             | 3D Make Lab by Geometric Ltd. Mumbai                      | Geometric Ltd. Mumbai  | Ongoing                                 | 120                   |

**Year :- 2014 – 15**

| <b>Sr. No</b> | <b>Title of the research project</b>  | <b>Name of Sponsor</b> | <b>Duration with date of completion</b> | <b>Amount (Lakhs)</b> |
|---------------|---|------------------------|---|-----------------------|
| 1             | A Condition Based Maintenance through Ferrographic and Vibration Signature Analysis (MDJ) | AICTE-RPS              | Ongoing                                 | 21.17647              |
| 2             | Investigation in Electrical Discharge Machining of various metal matrix composites        | AICTE-RPS              | Ongoing                                 | 11.17647              |

**Year :- 2015 – 16**

| <b>Sr. No</b> | <b>Title of the research project</b> | <b>Name of Sponsor</b> | <b>Duration with date of completion</b> | <b>Amount (Lakhs)</b> |
|---------------|--------------------------------------|------------------------|---|-----------------------|
| 1             |                                      |                        |   |                       |

**Year :- 2016 – 17**

| <b>Sr. No</b> | <b>Title of the research project</b>   | <b>Name of Sponsor</b>  | <b>Duration with date of completion</b> | <b>Amount (Lakhs)</b> |
|---------------|--|---|---|-----------------------|
| 1             | SMART Foundry 2020(Sustainable Metal casting using Advanced Research and Technology) | DST<br>L.No.<br>DST/TSG/2015/3<br>32 dt 19/10/2016                                    | ongoing                                 | 52.46                 |
| 2             | DIC Project  | IIT Bombay<br>F.No.<br>Accts/P&C/Bank/<br>14MHRD001/309<br>/2017 dated 8<br>June 2017 | ongoing                                 | 47.50                 |

**Year :- 2017 – 18**

| <b>Sr. No</b> | <b>Title of the research project</b> | <b>Name of Sponsor</b> | <b>Duration with date of completion</b> | <b>Amount (Lakhs)</b> |
|---------------|--------------------------------------|------------------------|---|-----------------------|
| 1             | Modernization of Metrology Lab       | AICTE-<br>MODROB       | 2017-18                                 | 11.00<br>lakhs        |