



Department of Civil Engineering
New Horizon Institute of Technology and Management

(Approved by AICTE & DTE, Affiliated to University of Mumbai)

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Name of the Document: Laboratory Profile

Document No.: 01

Department: Civil Engineering

Room No: LG020

Lab No: CE-02

Name of the Laboratory: Fluid Mechanics & Applied
Hydraulics

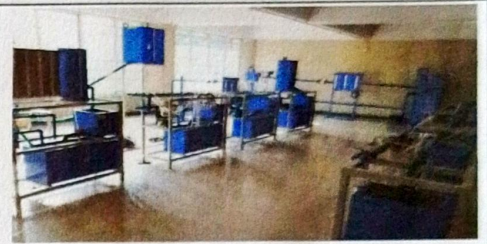
Programme : Undergraduate

Laboratory used for the Courses:CEL304,CEL405,CEL502,
MTL403, MEL602

Total Cost of the Laboratory as on today: Rs. 12,81,489/-

Faculty In-charge of the Laboratory: Ms. Pradnya Telang

Technical Supporting Staff: Mr.Pradeep Thakur



| Sr. No. | Details of Apparatus / Equipments/ in the Laboratory | Quantity | Year of Purchase | Cost (Rs) |
|---------|--|----------|------------------|-------------|
| 1 | Metacentric Height/ Archimedes Principle | 1 | July 2015 | 140,006.00 |
| 2 | Bernoulli's Apparatus | 1 | July 2015 | 26,145.00 |
| 3 | Venturimeter & Orificemeter | 1 | July 2015 | 22,410.00 |
| 4 | Nozzle Meter | 1 | July 2015 | 21,476.00 |
| 5 | Pitot Tube Apparatus | 1 | July 2015 | 22,877.00 |
| 6 | Pascal's Law Apparatus | 1 | July 2015 | 31,748.00 |
| 7 | Reynolds Experiment | 1 | July 2015 | 11,205.00 |
| 8 | Viscosity of Fluid Apparatus | 1 | July 2015 | 5,603.00 |
| 9 | Friction Loss Through Pipes | 1 | July 2015 | 23,344.00 |
| 10 | Minor Losses Through Pipe | 1 | July 2015 | 23,344.00 |
| 11 | Laminar Flow Through Pipe | 1 | July 2015 | 37,350.00 |
| 12 | Turbulent Flow and Velocity and Velocity Profile | 1 | July 2015 | 46,688.00 |
| 13 | Water Hammer | 1 | July 2015 | 48,554.00 |
| 14 | Dead Weight Pressure Gauge | 1 | July 2015 | 14,940.00 |
| 15 | Impact of Jet Apparatus | 1 | July 2015 | 24,744.00 |
| 16 | Orifice and Mouth Piece | 1 | July 2015 | 24,277.00 |
| 17 | Pelton wheel test rig | 1 | June 2016 | 1,09,698.00 |
| 18 | Centrifugal pump test rig | 1 | June 2016 | 74,286.00 |
| 19 | Franci's turbine test rig | 1 | June 2016 | 1,82,678.00 |
| 20 | Tilting Flume | 1 | June 2016 | 2,49,076.00 |
| 21 | Wind Tunnel | 1 | June 2016 | 2,67,041.00 |

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| Prepared By | Verified By | | Approved By | Certified By |
| Lab Incharge | HOD | | Vice Principal | Principal |