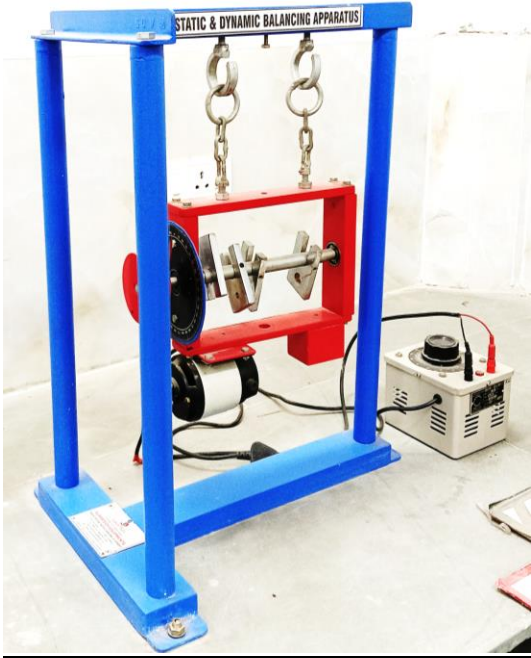


Department of Mechanical Engineering
Delhi Technological University
ADVANCED VIBRATION & ACOUSTICS LAB (LW5GF6)
List of Equipment/Machinery/ICT(computers)

Sr. No	Name of Equipment	Year of Purchase	Cost (Rs.)	Photo/Image
<u>1.</u>	Whirling of shaft apparatus	2022	Rs 42,750 + 5 % Gst	
<u>2.</u>	Universal Vibration Apparatus	2022	Rs 1,04,500 + 5 % GST	

3.	Static and Dynamic Balancing Apparatus	2022	Rs 31,000 + 5 % GST	 A blue metal frame apparatus for static and dynamic balancing. It features a central red horizontal bar with a rotating disc and a motor. Two chains hang from the top of the frame, and a power supply unit is connected to the motor.
4.	Trifiler suspension system	2022	Rs 21,000 + 5 % GST	 A blue metal frame apparatus for a trifiler suspension system. It consists of a vertical frame with a red circular platform suspended from the top by three wires. A power supply unit is connected to the system.

5.	Three Rotor System	2022	Rs 26,500 + 5 % GST	
6.	Compound Pendulum 29/03/2022	2022	Rs 10,000 + 5 % GST	

7.	Different Types of exciters with dampers 29/03/2022	2022	Rs 55,000 + 5 % GST	
8.	Mass Spring System 29/03/2022	2022	Rs 21,500 + 5 % GST	

9.	32 channel Vibration Funded by TEQIP III	2019	32,18,250/- Including GST5%	
10.	Vibration Test Rig.	2024	2,48,850/- Including GST 5%	
11.	All in One HP Desktop Computers (10 Nos.)	2022		

Department of Mechanical Engineering Delhi
Technological University
ADVANCED METAL JOINING (WS-15)
List of Equipment/ Machinery/ICT (computers)

Sr. No	Name of Equipment	Year of Purchase	Cost (Rs.)	Photo/Image
01.	Friction Stir Welding Machine	2014	Rs. 3866000/-+GST	 A large industrial Friction Stir Welding Machine (FSW) with a blue motor and a control panel. The machine is labeled "P 6 W - 4T - HYD" and "FRICITION STIR WELDING MACHINE". A blue label on the front reads "FRICITION STIR WELDING MACHINE".
02.	Ultra-Assisted Stir Casting	2018	Rs. 730000/-+GST	 A laboratory-scale Ultra-Assisted Stir Casting machine. It features a green base labeled "STIRCASTING FURNACE WITH ULTRASONIC STIRRER" and a control panel labeled "STIR CASTING" and "CONTROLLING SYSTEM".

03.	Cold Metal Transfer Machine (CMT)	2018	Rs. 2520000/-+GST	
04.	MIG/MAG Welding Machine (with flexi Track machine)	2021	Rs. 3195000/-+GST	

05.	All-in-One HP Desktop Computers (05 Nos.)	2022		
06.	Fume Extraction	2020	Rs.399000 /-+GST	

Department of Mechanical Engineering

Delhi Technological University

AUTOMOTIVE ENGG. LAB.

List of Equipment/ Machinery/ ICT (Computers)

S. No.	ITEM	QTY	DATE OF PURCHASE / COST	Photo of Equipment/ Machinery/ ICT
1.	Computerised CRDI V.C.R engine test set up	01	26/03/2018 Rs.2037000	
2.	Wheel balancer	01	07/02/2019 Rs.460000	

3.	Automobile control unit diagnosis scanner	01	18/11/2019 Rs.598500	
4.	Computerised wheel aligner	01	21/02/2020 Rs.899000	

5.	Diesel smoke meter	01	11/03/2020 Rs.246750	
6.	Magnetic stirrer	01	14/12/2020 Rs.2900	

7.	Hot plate	01	14/12/2020 Rs.2500	
8.	Test lane for cars and vans	01	16/09/2021 Rs.2672250	

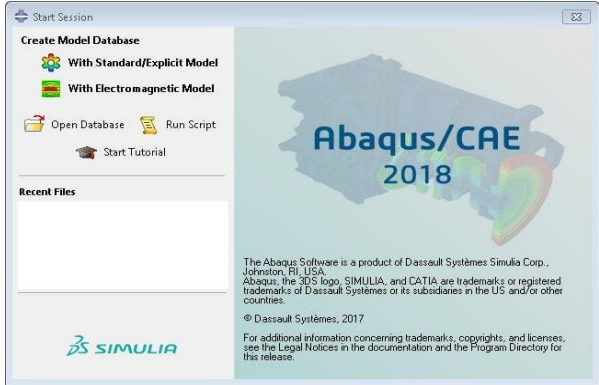
9.	Unbranded 10 ton cap jacks hydraulics	02	31/03/2022 Rs.21300	
10.	Unbranded aluminium alloy pneumatic impact wrench	01	31/03/2022 Rs.17400	

11.	Unbranded single phase 50 litres oil lubricated air compressor	01	31/03/2022 Rs.65000	
12.	H.P all in one desktop computers	05	16/11/2022	

Department of Mechanical Engineering
Delhi Technological University DESIGN CENTRE LAB (LW6-FF8)

List of Equipment/Machinery/ICT (computers)

Sr. No	Name of Equipment	Year of Purchase	Cost (Rs.)	Photo/Image
1.	Dell Desktop	2013	50000/-	
2.	Dell WorkStation	2013		

3.	Abaqus Software 2018 3 Licences	2018	14,16100/- +GST	
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4.	Ansys Software R2020 6 Licenses	2020	20,0000/- +GST	
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5.	Sim pack Software 10 Licenses	2021	1942500/- +GST	 
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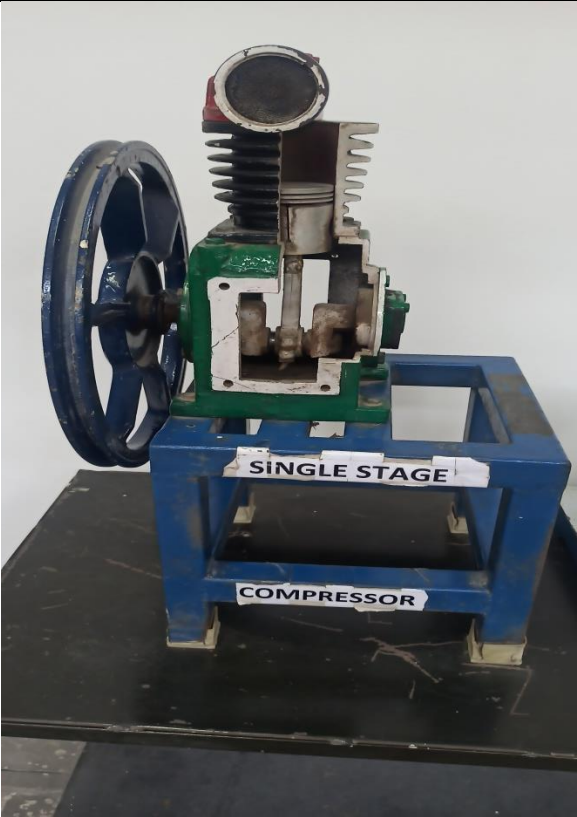
Department of Mechanical Engineering

Delhi Technological University

TURBO MACHINE LAB

List of Equipment/ Machinery/ ICT (Computers)

S.No	Equipment Name	Purchase Year	Cost (Rs)	Photo
1	Cut section Centrifugal blower	2014	26000/-	

2	Cut section single stage air compressor	2014	32000/-	
3	Cut section two stage air compressor	2014	49000/-	

4	Cut section rotary air compressor	2014	62300/-	
5	HP Workstation (03 nos)	2021	305072	

Department of Mechanical Engineering

Delhi Technological University

Fitting Shop, CWS

List of Equipment/ Machinery/ ICT (Computers)

Sr. No .	Equipment Name	Year of Purchase	Cost	Photo
1.	Surface Grinder	31/3/2008	4,16,000	

2.	Drilling Machine Pillar Type	14/8/2020	1,20,400	
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3.	Pedestal Grinder	26/7/1996	NA Old Campus	
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4.	Computer\ (All-in-One)	14/11/2022	NA	
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Department of Mechanical Engineering

Delhi Technological University

Foundry Shop, CWS

List of Equipment/ Machinery/ ICT (Computers)

Sr. No .	Equipment Name	Year of Purchase	Cost	Photo
1.	Shell Molding Machine	08/9/2005	1,46,000	

2.	Sand Muller	03/8/2005	1,44,000	
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3.	Inducto Melting Furnace (Capacity 5kg)	27/3/2012	27,62,880 + VAT@ 12.5%	
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4.	Melting Furnace (Capacity 10 kg)	30/10/2017	1,17,101	
5.	Computer\ (All-in-One)	14/11/2022	----	

Department of Mechanical Engineering
Delhi Technological University
HEAT TRANSFER LAB (LW6-FF1)
List of Equipment

Sr. No	Name of Equipment	Year of Purchase	Cost (Rs.)	Photo/Image
1	THERMAL CONDUCTIVITY OF INSULATING POWDER	3275,02-08-2023	41182	

2	NATURAL CONVECTION	3276 13-02- 2023	40120	
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3	HEAT TRANSFER THROUGH PIN - FIN	3276 13-02- 2023	44840	
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4	THERMAL CONDUCTIVITY OF LIQUID APPARATUS	3275 27-02-2023	46500	
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5	THERMAL CONDUCTIVITY OF METAL ROD	3275 27-02-2023	41182	
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6	HEAT TRANSFER THROUGH COMPOSITE WALL	3275 27-02- 2023	41182	 The image shows a laboratory apparatus for studying heat transfer through a composite wall. It consists of a blue metal frame supporting a white control panel and a wooden-wrapped test chamber. The control panel features two digital displays at the top, a central analog meter, and two red emergency stop buttons at the bottom. The test chamber, which is open, reveals a cylindrical assembly of concentric tubes or disks, with red electrical leads connected to it. The title 'HEAT TRANSFER THROUGH COMPOSITE WALL APPARATUS' is printed on the top of the control panel.
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7	HEAT TRANSFER IN FORCED CONVECTION	3276 13-02- 2023	49560	
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8	PARALLAL FLOW AND COUNTER FLOW HEAT EXCHANGER	3276 13-02- 2023	44840	
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Department of Mechanical Engineering

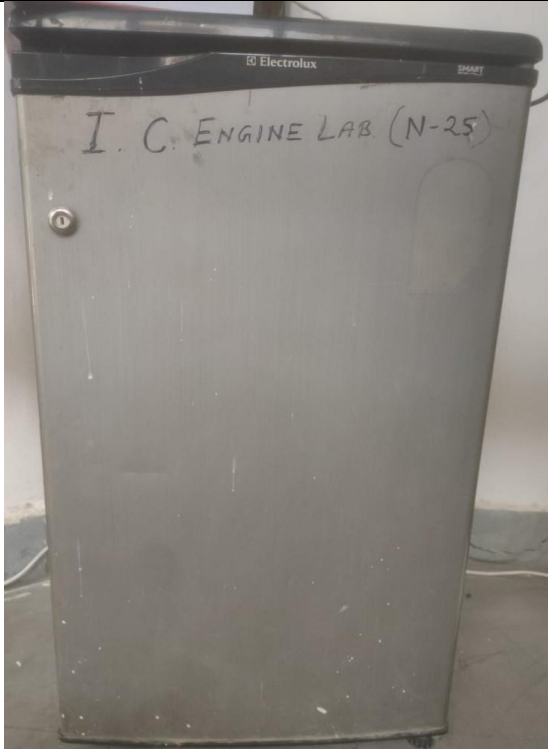
Delhi Technological University

I.C.Engines lab.

List of Equipment/ Machinery/ ICT (Computers)

S. No.	ITEM	QTY	DATE OF PURCHASE / COST	Photo of Equipment/ Machinery/ ICT
1.	Models	08	16/7/2007 Rs. 46181	
2.	Computer	05	19/6/2008	

3.	VCR	01	24/10/2008 Rs.1268400	
4.	Single tank ultrasonic oil mixer	01	24/7/2009 Rs.421875	
5.	Ultrasonic Processor 150 W	01	11/2/2011 Rs.99900	

6.	Mild steel Oil mixing tank 15 ltr cap without motor	01	24/7/2012 Rs.12800	
7.	Sample Cooling Chamber	01	24/7/2012 Rs.9900	
8.	AVL DIX 650 Modular diagnostic and emission system	01	25/3/2013 Rs.2420750	

9.	Fuel viscosity and density meter SVM 3000	01	18/10/2016 Rs.1994000	
10.	Bio Gas Analyzer	01	2/5/2019 Rs.234820	
11.	Junkers Calorimeter	01	03/01/2022 Rs.152250	

12.	All in one desktop	5	15/11/2022	
13.	Hand held Digital Infrared Thermometer	1	22/11/2022 Rs.8999	
14.	Microtek Online UPS 2.0 KVA with battery	1	22/11/2022 Rs.54996	

15.	Plasma Hydrogen Generator	1	12/09/2024 Rs.246750	
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Department of Mechanical Engineering

Delhi Technological University

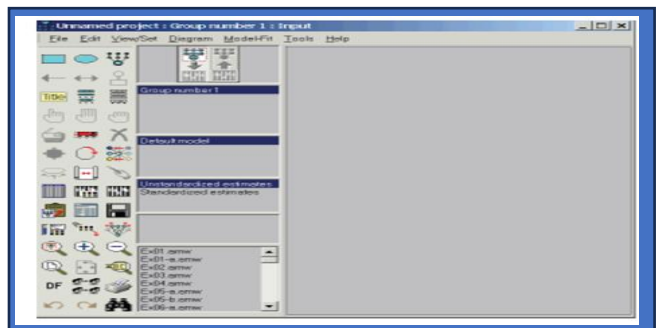
Industrial Engineering Lab

List of Equipment/ Machinery/ ICT (Computers)

1. **ARENA SOFTWARE** (01/02/2021)
(Cost: Rs. 2,43,864.60)



2. **AMOS SOFTWARE 26.0** (05/02/2020)
(Cost: Rs. 2,36,250/-)



3. **Desktop Computer** (2019)
(Cost: Store)



4. **Smart TV 55"** (2022)
(Cost: Store)



Department of Mechanical Engineering

Delhi Technological University

Machine Shop (CWS) WS22

List of Equipment/Machinery/ICT (Computers)

Sr.No.	Name of Equipment	Year of Purchase	Cost (Rs.)	Photo/Image
01	Madras Lathe 1536,1537 (02)	1976	-	
	Madras Lathe 1689,1690,1691,1693,1698,1699, 1700,1701,1702,1703,1704 (11)	1978	-	
	Madras Lathe 1550 (02)	1981	-	
02	Kirloskar Lathe Turn Master-35 (08)	1999	-	

03	Drilling m/c Cap. 20mm (01)	2004,	Rs 33545/-	
04	Tool & cutter grinder (01)	2004,	Rs.75,925/-	

05	Power hacksaw (01)	2005,	Rs. 42,417/-	
06	EDM Sparkonics35A (01)	2008,	Rs 600,000/-	

07	Universal Milling /drilling m/c (01)	2008,	Rs. 4,19,900/-
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08	Universal knee type milling m/c with vertical head (UMV) (02)	2009,	Rs. 14,80,000 /-
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09	Shaper m/c Modal-450 Shaper m/c Modal-450 (05)	1993 1995	-
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10	Horizontal milling m/c(Botliboy)	1986		

Department of Mechanical Engineering
Delhi Technological University
Metal Cutting Lab.

List of Equipment/ Machinery/ ICT (Computers)

Sr. No	Equipment Name	Date of Purchase and cost	Photo of Equipment/ Machinery/ ICT
1	CNC Machining centre	13-09-2019 Rs 40 Lacs	
2	Micro-hardness Measuring System	11-12-2017 Rs 42 Lacs	
3	Drilling Tool Dynamometre	17-04-2014 Rs 92,400/-	
4	CNC Turning Centre	25-03-2014 Rs 36 Lacs	

5	Lathe Tool Dynamometer	09-12-2013 Rs 01 Lacs	
6	Vision Inspection System	22-03-2012 Rs 33 Lacs	
7	Computer P IV	31-08-2005 Cost – N/A	
8	Radial Drilling Machine	01-06-1971 Cost – N/A	
9	Milling Machine	25-03-1963 Cost – N/A	
10	Lathe	18-03-1963 Cost – N/A	

Department of Mechanical Engineering

Delhi Technological University

Lab Name: - Metal Forming LAB (LW6 GF2)

List of Equipment/ Machinery/ ICT (Computers)

Sr. No.	Name of Equipment	Year of Purchase	Cost (Rs)	Quantity (Nos.)	Photo/ Image
1.	MICRO VICKERS HARDNESS TESTER	11/02/2020	2594618/-	01	
2.	SHEARING MACHINE	30/09/2019	504000/-	01	

3.	CMOS Scientific Microscope camera Jenoptik	22/03/2021	3,49,950/-	01	
4.	DC Regulated power supply	31/03/2021	93,456/-	01	
5.	HP All in One Desktop Display Set (Computer)	14/11/2022		05	

6.	Lead Acid Battery 12-volt 40AH	20/03/2024	56,510/-	13	
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Department of Mechanical Engineering

Delhi Technological University

Micro & Nano Scale Thermofluidics Lab

List of Equipment/ Machinery/ ICT (Computers)

S. No.	Equipment Details	Image/Photo
1.	Micro Gear pump Flow rate: 90ml/Min- 900 ml/Min Pressure: 8 bar maximum Purchase year –2023 Cost (Rs) ---141600/-	
2.	Air compressor 1HP Oil-free Pressure: 8 bar maximum Purchase year –2024 Cost (Rs) --- 47736/-	
3.	Inverted Microscope (Biological Microscope) Purchase year –2024 Cost (Rs) --- 226750/-	
4.	pH meter Purchase year –2024 Cost (Rs) --- 14899/-	

5.	Magnetic stirrer Purchase year –2024 Cost (Rs) ---14598/-	
6.	DI water system with RO and Prefiltration kit Purchase year –2024 Cost (Rs) --- 318870/-	
7.	Universal DAQ, 16 channels, Universal Input Method Purchase year –2024 Cost (Rs) --- 75520/-	
8.	Universal scanner logger 16 channels, Universal Input Method. Purchase year –2023 Cost (Rs) ---17500/-	
9.	DC Power Supply 01 Channel_30V 5A 220V, 50HZ Purchase year –2023 Cost (Rs) ---17500/-	NA

10.	Probe Sonicator 25 kHz frequency Purchase year –2024 Cost (Rs) ---155149/-	
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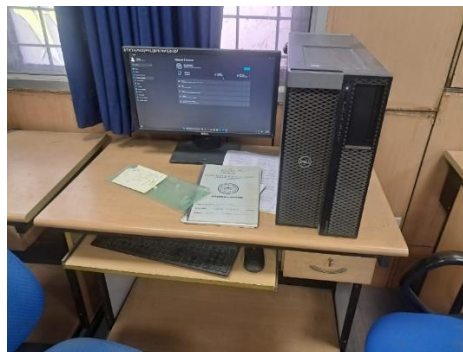
Department of Mechanical Engineering
Delhi Technological University
Fluid Mechanics and Hydraulic Machine Lab

List of Equipment/ Machinery/ ICT (Computers)

1. Hydraulic RAM (16-10-2023)
(Rs.195290/-)



2. Dell Precision T-7920 Workstation (18-03-2019)
(Rs.489900/-)



Department of Mechanical Engineering
Delhi Technological University
Production Management Lab

List of Equipment/ Machinery/ ICT (Computers)

1. Smart Board (HYUNDAI SMART BOARD 65 ") With Stayllus (02) Manual & Installation pendrive, CAMERA, CPU (2021)
(CPO Office)



2. HP All in One Desktop (2022)
(Store)



Department of Mechanical Engineering

Delhi Technological University

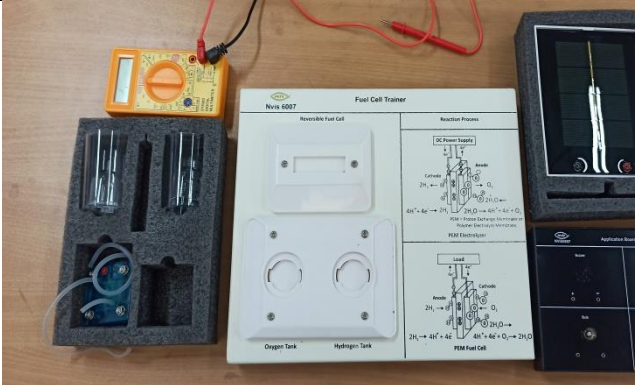
Power Plant Engg Lab

List of Equipment/ Machinery/ ICT (Computers)

S.N	EQUIPMENT NAME	YEAR OF PURCHASE	COST (Rs)	
1.	Babcock & Wilcox boiler model	2014	20000/	
2	Lanchashire boiler model	2014	20000/	
3	Benson boiler model	2014	20000/	

4	Cocharan boiler model	2014	20000/	
5	Locomotive boiler model	2014	20000/	
6	Loeffler boiler model	2014	20000/	

7	Vertical boiler model	2014	20000/	
8	Computer & Pheripheral(05 nos)	2021	297995/-	
9	Vertical & Horizontal Condenser Apparatus	2023	163666/-	

10	Basic Hybrid Wind & Solar energy Trainer	2023	41300/-	
11	Experimentation with Fuel cell Trainer	2024	38350/-	
12	Hot wire Anemometer	2024	15000/-	
13	Digital Tachometer	2024	10000/-	

14	Reciprocating Air Compressor	2024	96000/-	
15	Infrared Thermameter	2024	1804/-	

Department of Mechanical Engineering

Delhi Technological University

Precision Manufacturing Lab (WS 14)

List of Equipment/Machinery/ICT (Computers)

Name of Equipment/Machine (Temperature control Panel with Bottom Loading Furnace)

Year of Purchase 28/09/2015

Cost Rs (85000/- + 95625/- =180,625/-)



Name of Equipment/Machine (Manual Analog Controller For Thermal Abrasive Flow Machine)

Year of Purchase 28/06/2016

Cost Rs (92310/-)



Name of Equipment/Machine
Machine

(Power Supply of Spark Controller For Thermal Abrasive Flow

Year of Purchase

15/07/2016

Cost Rs (60,690/-)



Name of Equipment/Machine (Air Oil Mist Lubrication System)

Year of Purchase 19/11/2016

Cost Rs (62,875/-)



Name of Equipment/Machine (Crompton Make AC Drive 1H.P 1PH)

Year of Purchase 02/06/2017

Cost Rs (10,125/-)



Name of Equipment/Machine (Ultrasonic Transducer Booster With Generator Box 20 KHZ)

Year of Purchase 17/08/2017

Cost Rs (191,160/-)



Name of Equipment/Machine (High Temperature Rotary Tribometer)

Year of Purchase 15/05/2018

Cost Rs (28,71,750/-)



Name of Equipment/Machine (Lab Ball Mill)

Year of Purchase 11/07/2018

Cost Rs (Transferred from Metrology Lab)



Name of Equipment/Machine (Portable X Ray Residuel Measurement System)

Year of Purchase 30/06/2017

Cost Rs (4957650/-)



Name of Equipment/Machine **(HVOF Thermal Spray Coating Machine)**

Year of Purchase **29/03/2019**

Cost Rs **(2878020/-)**



Name of Equipment/Machine **(Desktop 01)**

Year of Purchase **03/12/2019**

Cost Rs **(52050/-)**



Name of Equipment/Machine (Abrasive Flow Machine)

Year of Purchase

Cost Rs



Department of Mechanical Engineering

Delhi Technological University

Sand Testing Lab

List of Equipment/ Machine/ICT

S.L No	Year of Purchase	Name of Equipment	Qty		Cost	Photo/ Image
1.	7-8-73/317	Shatter Index Tester	01			
2.	27-5-77/324	Versatile Base lock	01		120	
3.	4-3-2005/7510	Permeability Meter	01		22000/-	

						
4.	4-03-2005	Green Hardness Tester	01		6500/-	
5.	4-3-2005/7510	Oven Box	01		10,000/-	

6.	4-3-2005/7510	AFS Sieve Analysis	01		27700/-	
7.	4-3-2005/7510	Stirrer for Agitating	01		13000/-	
8.	4-3-2005/7510	Balance Digital	01		22,000	

9.	4-3-2005/7510	Moisture Teller	01		14500	
10.	18-10-2012/7521	Furnace 1600 °C	01		333200/-	
11.	18-10-2012/7521	Ball Mill	01		37240/-	

12.	18-10-2012/7521	Hydraulic Press 10T	01		35280/-	
13.	26-12-2012/7524	Chiller	01			
14.	26-12-2012/7524	Mesh Stirrer	01			

Department of Mechanical Engineering

Delhi Technological University

Sheet Metal Shop, CWS

List of Equipment/ Machinery/ ICT (Computers)

Sr. No .	Equipment Name	Year of Purchase	Cost	Photo
1.	Threadle Guillotine Shearing Machine	13/3/2006	74,000	

2.	Folding Machine	13/3/2006	73,200	
3.	Notching Machine	14/3/2006	32,000	

4.	Sheet Cutter (Bench Shearing Machine)	02/9/2016	10,800	
5.	Drilling Machine	14/2/2022	1,50,000	

6.	Sheet Cutter Hand Operated upto 6 mm	16/3/2022	31,000	
7.	Computer\ (All-in-One)	14/11/2022	----	

Department of Mechanical Engineering
Delhi Technological University

Welding Shop (WS-19)

List of Equipment/ Machinery/ ICT (Computers)

S.No	Year of Purchase	Name of the Equipment	Cost	Photo/Image
1	17987/17-03-1969 4723/04-03-1970	Arc welding no 300 ST		
2	5327/17-07-2003	Spot Welding Machine		
3	5328/13-11-2006	Mig Welding (50- 400 AMP)		

4	5328/13-11-2006	Tig Welding (10-400 AMP)		
5	5323/30-11-2006	Drill Machine		
6	5329/30-11-2006	Bench Grinder (HP)		
7	5327/17-07-2003	Seam Welding	1,46,300	

8	19903/07-03-2012	Fume extractor (Qty.3)	6,79,000	
9	5324/18-03-1999	Hydraulic Power Hexa (300 M.M.)	46,900	