














Index for Labs under Chemical Engineering






Sr. No.	Laboratory Name
1.	Environmental Engineering Laboratory
2.	Chemical Process Technology Laboratory
3.	Chemical Reaction Engineering Laboratory
4.	Fluid Flow Operation Laboratory
5.	Heat Transfer Operation Laboratory
6.	Mass Transfer Laboratory
7.	Solid Fluid Operation Laboratory


1. Environmental Engineering Laboratory

Sr. No.	Name of Item	Qty.	Dead Stock Number /Asset Number	Figure
1	Bench top PH meter kit	03	PDPU/SOT/CIVIL/ENV.LAB/12- 13/1	
2	Battery Operated Portable Turbidity meter	02	PDPU/SOT/CIVIL/ENV.LAB/12- 13/2	
3	Battery Operated Portable Dissolved Oxygen meter	03	PDPU/SOT/CIVIL/ENV.LAB/12- 13/3	
4	Portable Hand-Held TSS Meter	01	PDPU/SOT/CIVIL/ENV.LAB/12- 13/4	



5	UV-Visible Spector Photometer	01	PDPU/SOT/CIVIL/ENV.LAB/12-13/5	
6	Bench Top Conductivity lab kit	03	PDPU/SOT/CIVIL/ENV.LAB/12-13/6	
7	COD Reactor	01	PDPU/SOT/CIVIL/ENV.LAB/12-13/7	
8	BOD Track Apparatus	01	PDPU/SOT/CIVIL/ENV.LAB/12-13/8	





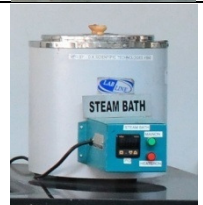
9	BOD Incubator	01	PDPU/SOT/CIVIL/ENV.LAB/12-13/9	
10	Electronic Precision Balance	01	PDPU/SOT/CIVIL/ENV.LAB/12-13/10	
11	Electronic Precision Balance up to 2000 gm Capacity	01	PDPU/SOT/CIVIL/ENV.LAB/12-13/11	
12	Muffle Furnace with Thermo-Static Control	01	PDPU/SOT/CIVIL/ENV.LAB/12-13/12	
13	Fine Particulate sampler Envirotech (Dust samplers)	01	Not installation	






14	Fully Automatic Vertical Autoclave Digital	01	Not installation	
15	Jar Test Apparatus	01	Not installation	
16	Laminar Air Flow Bench	01	Not installation	
17	Orbital Shaker	01	Not installation	
18	Sound Level Meter	01	Not installation	



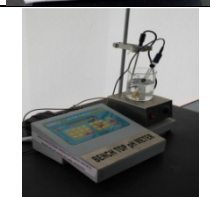


19	Over Head Stirrer	02	Not installation 01 pending	
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2. CHEMICAL PROCESS TECHNOLOGY LABORATORY




Sr. No.	Name of Item	Qty.	Dead Stock Number /Asset Number	Figure
1	weighing Balance 1mg	1	PDP/OT/CHEM ENGG/CPT/2013-14/01	
2	weighing Balance 100mg	1	PDP/OT/CHEM ENGG/CPT/2013-14/02	





3	Round Vacuum Oven with pump	1	PDPU/SOT/CHEM ENGG/CPT/2013-14/03	
4	Digital Colorimeter	1	PDPU/SOT/CHEM ENGG/CPT/2013-14/04	
5	Heating Oven	1	PDPU/SOT/CHEM ENGG/CPT/2013-14/05	
6	Muffle Furnace	1	PDPU/SOT/CHEM ENGG/CPT/2013-14/06	
7	Steam Bath Round	1	PDPU/SOT/CHEM ENGG/CPT/2013-14/07	





8	Sand Bath	1	PDPU/SOT/CHEM ENGG/CPT/2013-14/08	
9	Heating Mantle	2	PDPU/SOT/CHEM ENGG/CPT/2013-14/11	
10	Hot Water Bath	2	PDPU/SOT/CHEM ENGG/CPT/2013-14/12 a,b	
11	Mono Quartz Continuous water distillation assembly	1	PDPU/SOT/CHEM ENGG/CPT/2013-14/13	
12	Magnetic stirrer with hot plate	2	PDPU/SOT/CHEM ENGG/CPT/2013-14/15 a,b	





13	Cylindrical heating oil bath	1	PDPU/SOT/CHEM ENGG/CPT/2013-14/16	
14	Big Hot Plate	1	PDPU/SOT/CHEM ENGG/CPT/2013-14/17	
15	PH meter	1	PDPU/SOT/CHEM ENGG/CPT/2013-14/18 a	
16	Conductivity / TDS Analyzer	1	PDPU/SOT/CHEM ENGG/CPT/2013-14/19	
17	Karl Fischer Titrator	1	PDPU/SOT/CHEM ENGG/CPT/2013-14/20	

3. CHEMICAL REACTION ENGINEERING LABORATORY



Sr. No.	Name of Item	Qty.	Dead Stock Number /Asset Number	Figure
1	Continuously stirred tank reactor (C.S.T.R)	1	PDPU/SOT/CHEM ENGG/CRE/2013-14/01	
2	Isothermal Continuously stirred tank reactor (Isothermal C.S.T.R)	1	PDPU/SOT/CHEM ENGG/CRE/2013-14/02	
3	Cascade Continuously stirred tank reactor (Cascade C.S.T.R)	1	PDPU/SOT/CHEM ENGG/CRE/2013-14/03	

4	RTD studies in continuously stirred tank reactor	1	PDCU/SOT/CHEM ENGG/CRE/2013-14/04	
5	Combined flow reactor	1	PDCU/SOT/CHEM ENGG/CRE/2013-14/05	
6	Plug flow reactor (straight tube type)	1	PDCU/SOT/CHEM ENGG/CRE/2013-14/06	
7	Isothermal plug flow reactor (coiled tube type)	1	PDCU/SOT/CHEM ENGG/CRE/2013-14/07	



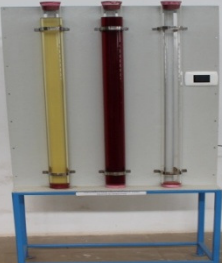
8	Packed bed reactor	1	PDCU/SOT/CHEM ENGGCRE/2013-14/08	
9	RTD of packed bed reactor	1	PDCU/SOT/CHEM ENGG/CRE/2013-14/09	
10	Isothermal batch reactor	1	PDCU/SOT/CHEM ENGG/CRE/2013-14/14	
11	Isothermal semi-batch reactor	1	PDCU/SOT/CHEM ENGG/CRE/2013-14/15	




12	Adiabatic batch reactor	1	PDCU/SOT/CHEM ENGG/CRE/2013-14/16	
13	Kinetics of dissolution of Benzoic acid	1	PDCU/SOT/CHEM ENGG/CRE/2013-14/17	
14	Air compressor	4	PDCU/SOT/CHEM ENGG/CRE/2013-14/26 a-d	
15	Air compressor	1	PDCU/SOT/CHEM ENGG/CRE/2013-14/27	




16	Lab autoclave stirred-interchangeable-glass	1	PDPU/SOT/CHEM ENGG/CRE/2013-14/29 a	
17	Malvern Particle Size analyzer	1	PDPU/SOT/CHEM ENGG/CRE/2013-14/30 a	
18	GCMS-XL EI/CI MSD/DS Turbo CI system (G3245A)	1	PDPU/SOT/CHEM ENGG/CRE/2013-14/31 a	
19	Gas cylinder Trolley	1	PDPU/SOT/CHEM ENGG/CRE/2013-14/ 33 a	




20	All Quartz Double Distilled water unit	1	<p align="center">PDPU/SOT/CHEM ENGG/CRE/2014-15/34 a</p>	
21	On-line NDIR Flue gas CO2 Analyzer	1	<p align="center">PDPU/SOT/CHEM ENGG/CRE/2014-15/35</p>	

4. FLUID FLOW OPERATION LABORATORY




Sr. No.	Name of Item	Qty.	Dead Stock Number /Asset Number	Figure
1	Frictional Pressure drop in packed Column	1	PDPU/SOT/CHEM ENGG/ FFO/2012- 13/01	
2	Frictional Pressure drop Annular / Rectangular	1	PDPU/SOT/CHEM ENGG/ FFO/2012- 13/02	
3	Viscosity by stoke's law	1	PDPU/SOT/CHEM ENGG/ FFO/2012- 13/03	




4	Frictional Pressure drop in circular pipe	1	PDP/ SOT/ CHEM ENGG/ FFO/ 2013- 14/ 04	
5	Tachometer	1	PDP/ SOT/ CHEM ENGG/ FFO/ 2013- 14/ 05	
6	Digital Vernire caliper	1	PDP/ SOT/ CHEM ENGG/ FFO/ 2013- 14/ 06	

7	Frictional Pressure drop studies in Fluidized bed/Heat transfer in Fluidized bed	1	PDPU/SOT/CHEM ENGG/ FFO/2013- 14/07	
8	Pitot Tube	1	PDPU/SPT/ESL/09- 10/006	
9	Bernoulli's Theorem apparatus	1	IPTG/ESL/SC/09- 10/1/017	

10	Flow Through pipe fittings	1	IPTG/ESL/SC/09-10/1/014			
11	Orifice, Venturi & Rotameter Test Rig	1	IPTG/ESL/SC/09-10/1/012			
12	Reynolds's Apparatus	1	IPTG/ESL/SC/09-10/1/011			





5. HEAT TRANSFER OPERATION LABORATORY






Sr. No.	Name of Item	Qty.	Dead Stock Number /Asset Number	Figure
1	Heat Transfer in Laminar Flow	1	PDCU/SOT/CHEM ENGG/ HTO/2012-13/01	
2	Heat Transfer in Turbulent Flow	1	PDCU/SOT/CHEM ENGG/ HTO/2012-13/02	
3	Heat Transfer in Agitated Vessel	1	PDCU/SOT/CHEM ENGG/ HTO/2012-13/03	





4	Fin Tube Heat Exchanger	1	PDCU/SOT/CHEM ENGG/ HTO/2012-13/04	
5	Heat Transfer in plate Heat Exchanger	1	PDCU/SOT/CHEM ENGG/ HTO/2012-13/05	
7	Heat Transfer by Natural Convection	1	PDCU/SOT/CHEM ENGG/ HTO/2013-14/07	

8	Heat Transfer studies in Evaporator (calandira type)	1	PDPU/SOT/CHEM ENGG/ HTO/2013-14/08	
9	Emmissivity measurement apparatus	1	PDPU/SOT/ME/HMT/ 2012- 13/03	
10	Thermal conductivity of metal rod	1	PDPU/SOT/ME/HMT/ 2012- 13/05	
11	Thermal conductivity of insulating powder	1	PDPU/SOT/ME/HMT/ 2012- 13/06	
12	Double pipe Heat exchanger (parallel/counter flow)	1	PDPU/SOT/ME/HMT/ 2012- 13/03	





6. MASS TRANSFER LABORATORY

Sr. No.	Name of Item	Qty.	Dead Stock Number /Asset Number	Figure
1	Liquid-Liquid extraction in a packed tower	1	PDP/OT/CHEM ENGG/CRE/2013-14/10	
2	Absorption in sieve plate column	1	PDP/OT/CHEM ENGG/CRE/2013-14/11	
3	Absorption in packed bed	1	PDP/OT/CHEM ENGG/CRE/2013-14/12	
4	Absorption wetted wall column	1	PDP/OT/CHEM ENGG/CRE/2013-14/13	


5	Solid-liquid extraction (Bonnoto type)	1	PDPU/SOT/CHEM ENGG/CRE/2013-14/18	
6	Batch crystallizer	1	PDPU/SOT/CHEM ENGG/CRE/2013-14/19	
7	Continuous bubble cap distillation column	1	PDPU/SOT/CHEM ENGG/CRE/2013-14/20	
8	Steam distillation set-up	1	PDPU/SOT/CHEM ENGG/CRE/2013-14/22	
9	Vapour in air diffusion apparatus	1	PDPU/SOT/CHEM ENGG/CRE/2013-14/23	

10	Solid in air diffusion apparatus	1	PDPU/SOT/CHEM ENGG/CRE/2013-14/24	
11	Experimental water cooling tower	1	PDPU/SOT/CHEM ENGG/CRE/2013-14/25	
12	Vapour -liquid equilibrium set-up	1	PDPU/SOT/CHEM ENGG/CRE/2013-14/21	
13	Refractometer	1	PDPU/SOT/CHEM ENGG/CRE/2013-14/32	

7. SOLID FLUID OPERATION LABORATORY

Sr. No.	Name of Item	Unit	Qty.	Dead Stock Number /Asset Number	Figure
1	Ball Mill	No's	1	PDCU/SOT/CHEM ENGG/SFO/2013-14/01	
2	Ribbon Blender	No's	1	PDCU/SOT/CHEM ENGG/SFO/2013-14/02	
3	Jaw Crusher	No's	1	PDCU/SOT/CHEM ENGG/SFO/2013-14/03	
4	Sieve Shaker	No's	1	PDCU/SOT/CHEM ENGG/SFO/2013-14/04	

5	Cyclone Separator	No's	1	PDCU/SOT/CHEM ENGG/SFO/2013-14/05	
6	Roll Crusher	No's	1	PDCU/SOT/CHEM ENGG/SFO/2013-14/06	
7	Screw Conveyor	No's	1	PDCU/SOT/CHEM ENGG/SFO/2013-14/07	
8	Plate & Frame Filter Press	No's	1	PDCU/SOT/CHEM ENGG/SFO/2013-14/08	
9	Pulverizer	No's	1	PDCU/SOT/CHEM ENGG/SFO/2013-14/09	

10	Top Driven Centrifuge	No's	1	PDCU/SOT/CHEM ENGG/SFO/2013-14/10	
11	Weighing Balance	No's	1	PDCU/SOT/CHEM ENGG/SFO/2013-14/11	