





S NO	LABS FACILITIES	LAB INCHARGE
1	FLUID AND SOLID OPERATIONS LABORATORY	DR.K.KUMARAGURU
2	CHEMICAL ANALYSIS LABORATORY	DR.K.ANBARASI
3	HEAT TRANSFER LABORATORY	DR.E.GOMATHI
4	PETROCHEMICAL ANALYSIS LABORATORY	DR.M.RENGASAMY
5	MASS TRANSFER LABORATORY	DR.S.VENKATESAN
6	PETROLEUM TESTING LABORATORY	DR.M.RENGASAMY
7	REACTION ENGINEERING AND PROCESS CONTROL LABORATORY	DR.N.JAYA / DR.M.ARULMOZHI
8	PETROCHEMICAL AND POLYMER ANALYSIS LABORATORY	DR.K.ANBARASI
9	PETROLEUM PRODUCT TESTING LABORATORY	DR.M.RENGASAMY


FLUID AND SOLID OPERATIONS LABORATORY

Lab Incharge	Name of the Laboratory	Name of the equipment	Laboratory
Dr.K.Kumaraguru	Fluid and Solid operations laboratory	<ol style="list-style-type: none"> 1. Centrifugal Pump 2. Venturi meter 3. Orifice meter 4. Rotameter 5. Weir 6. Pipes and fitting 7. Helical & spiral coils 8. Packed bed 9. Jaw Crusher 10. Ball mill 11. Roll Crusher 12. Drop weight crusher 13. Drag on Sphere 14. Effectiveness of screen 15. Sieve analysis 16. Leaf filter 17. Batch sedimentation 18. Cyclone separator 	  



CHEMICAL ANALYSIS LABORATORY

Lab Incharge	Name of the Laboratory	Name of the equipment	Laboratory
Dr.K.Anbarasi	Chemical Analysis Laboratory	<ol style="list-style-type: none"> 1. Pensky martens closed cup apparatus 2. Cleveland Open cup apparatus 3. Cloud / Pour point apparatus 4. Saybolt Viscometer 5. Redwood Viscometer 6. Bomb Calorimeter 7. Orsat apparatus 8. UV-Visible Spectrophotometer 9. Muffle Furnace 10. Acid / Iodine value of oil 11. Silica/ mixed oxide content of cement 12. Total fatty matter of soap 	


HEAT TRANSFER LABORATORY

Lab Incharge	Name of the Laboratory	Name of the equipment	Laboratory
Dr.E.Gomathi	Heat Transfer Laboratory	<ol style="list-style-type: none"> 1. Composite Wall 2. Shell and Tube Heat Exchanger 3. Double Pipe Heat Exchanger 4. Horizontal/ Vertical Condenser 5. Packed Bed 6. Stefan Boltzmann Apparatus 7. Natural/ forced convection set up 8. Emissivity measurement set up 9. Helical Coil 10. Bare and finned tube heat exchanger 11. Heat exchanger in open pan evaporator 12. Boiling heat transfer 13. Heat transfer in agitated vessel 14. Single/multiple effect evaporator set up 	


PETROCHEMICAL ANALYSIS LABORATORY

Lab Incharge	Name of the Laboratory	Name of the equipment	Laboratory	
Dr.M.Rengasamy	Petrochemical analysis Laboratory	<ol style="list-style-type: none"> 1. Bomb calorimeter 2. Refractometer 3. ORSAT apparatus 4. KF-Titrator 5. UV- Visible spectrophotometer. 6. Gas Chromatography 7. Total acidity determination 8. Sulphur content determination 9. Biodegradation of petrochemicals 10. Dynamic viscosity measurement 		

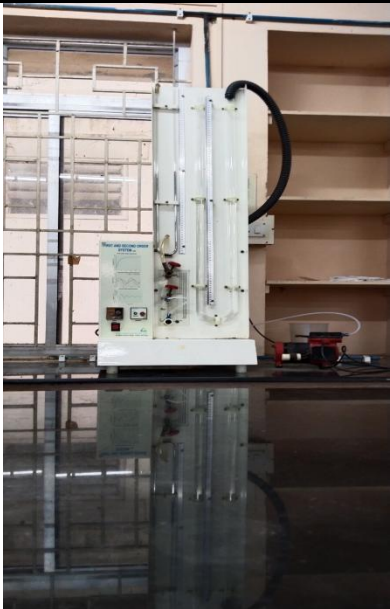

MASS TRANSFER LABORATORY

Lab Incharge	Name of the Laboratory	Name of the equipment	Laboratory
Dr.S.Venkatesan	Mass Transfer Laboratory	<ol style="list-style-type: none"> 1. Packed column 2. Steam distillation setup 3. Tray dryer 4. Simple distillation setup 5. Packed column 6. Liquid-liquid extractor 7. Surface evaporation set up 8. Adsorption column set up / Adsorption studies using conical flask 9. Leaching column set up / Leaching studies using conical flask 10. RDC 	




PETROLEUM TESTING LABORATORY

Lab Incharge	Name of the Laboratory	Name of the equipment	Laboratory
Dr.M.Rengasamy	Petroleum Testing Laboratory	<ol style="list-style-type: none"> 1. Conradson apparatus 2. KF apparatus 3. API gravity apparatus 4. Aniline point apparatus 5. Corrosion testing apparatus 6. ASTM distillation apparatus 7. Flash / fire point apparatus 8. Calorific value measurement 9. Smoke point determination 10. Cloud/Pour point apparatus 11. Penetration index 12. Softening point 13. Ductility determination 	

REACTION ENGINEERING AND PROCESS CONTROL LABORATORY

Lab Incharge	Name of the Laboratory	Name of the equipment	Laboratory
Dr.M.Arulmozhi & Dr.N.Jaya	Reaction Engineering and Process Control Laboratory	<ol style="list-style-type: none"> 1. Batch Reactor 2. Plug flow reactor 3. CSTR 4. Packed bed reactor 5. Combined flow reactor (PFR - CSTR) 6. Non-isothermal CSTR 7. Sonochemical reactor 8. Photochemical reactor 9. Level control system 10. Flow control system 11. Temperature control system 12. control valves 13. Interacting and non-interacting systems 14. Cascade control trainer 15. I & II order system 	 


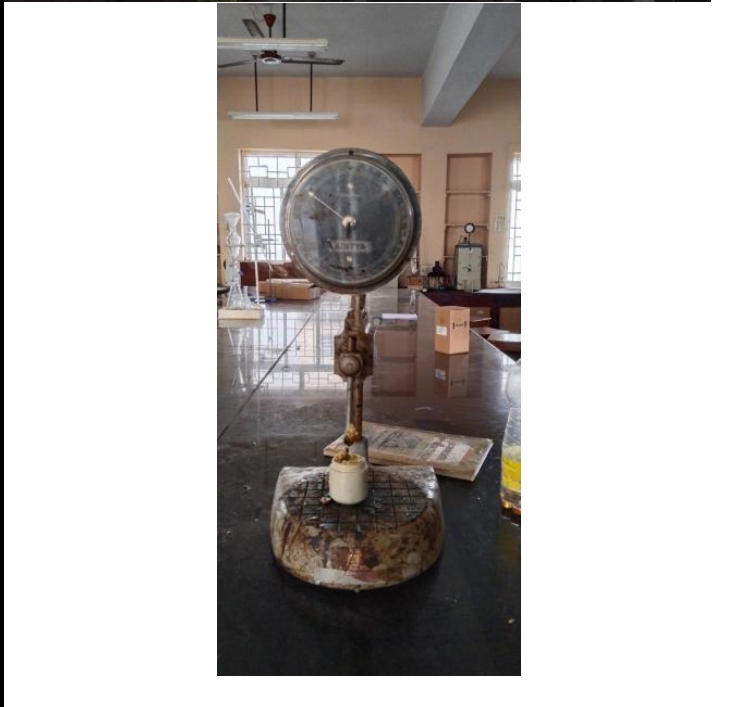
PETROCHEMICAL AND POLYMER ANALYSIS LABORATORY

Lab Incharge	Name of the Laboratory	Name of the equipment	Laboratory
Dr.K.Anbarasi	Petrochemical and Polymer Analysis Laboratory	<ol style="list-style-type: none"> 1. Refractive index of petrochemicals 2. Flash and Fire point determination using Cleveland Open cup method 3. Flash and Fire point determination using Pensky Martien Closed cup 4. Kinematic viscosity determination using Redwood 5. Kinematic viscosity determination using Saybolt 6. Determination of moisture content – KF titrator 7. Total acidity determination 8. Solvent Recovery from petrochemical feed stock 9. Elemental analysis of petrochemicals using GC / NMR 10. Functional group analysis of petrochemicals using UV / FTIR 11. Flue gas Analysis – Orsat Apparatus/Digital flue gas analyzer. 12. Determination of Density, Apparent Density of Polymer 13. Identification of Polymers : Plastics and Rubber – PE/PP/PS/PVC/PET/ NR/SBR/IR 14. Determination of hardness of Polymers 15. Determination of Glass Transition Temperature (Tg) / 	  

		Melting Point, (T _m) of Polymers	
--	--	--	--

		16. Determination of molecular weight by end group analysis (COOH group) / viscosity method.	
--	--	--	--

PETROLEUM PRODUCT TESTING LABORATORY

Lab Incharge	Name of the Laboratory	Name of the equipment	Laboratory
Dr.M.rengasamy	Petroleum Product Testing Laboratory	<ol style="list-style-type: none"> 1. Specific gravity determination using API gravity / Specific gravity bottle method 2. Carbon residue determination Canrodson / Rams bottom method 3. Dynamic viscosity measerment / Kinematic viscosity by U-Tube viscometer 4. Moisture content determination using Dean & Stark / Centrifuge method 5. ASTM Distillation to identify petroleum fractions and find out boiling range 6. Aniline point determination 7. Copper strip corrosion testing of petroleum products 8. Cloud and Pour point determination 9. Smoke point determination 10. Reid-Vapor pressure determination of gasoline 11. BS&W separation using Centrifuge method 12. Drop point determination for industrial grease 13. Softening point determination 	 

		14. Ductility of bitumen - Determination 15. Penetration index determination 16. Calorific value of petrochemical product	
--	--	---	--