

List of Equipments Purchased under SUPREM-HCMUT (As of October 2012)

Ordered by	Name of Equipment	Company/Brand	Model Number	Installed Site
B1-01 (Dr. Tran Doan Son)	Semi-automatic cashew nut shell cutting machine	Self-made		Faculty of Mechanical Engineering (B11 Bldg)
B1-02 (Dr. Nguyen Phuoc Dan)	DO Meter coupled with computer	inLab	OXI 740	Faculty of Environment (B9 Bldg)
	Wastewater Pump Fulsafeeder	Fulsatron	C Plus	
	Anammox Reactor	Order-made		
	Swim Bed Reactor	Order-made		
	Setting Tank	Order-made		
	Anaerobic Reactor	Order-made		
	Gas Sampling bag	Calibrated Instruments Inc.	Pillow 0.5 litre	
	Gas Sampling bag	Calibrated Instruments Inc.	Pillow 15 litre	
	Peristaltic pumps	Percom N-M	3001300	
	Gas sampling	Calibrated Instruments Inc.	MGS -4,6 port	
Rotameter	Order-made	23320-U		
B1-05 (Dr. Nguyen Minh Tam)	Laptop	Sony Vaio	VGN-CR590	Faculty of Civil Engineering (B6 Bldg)
	Steel Analysis Model	Order-made	3m x 1.4m x 0.3m	
	Notebook	Sony Vaio	PCG5L2L	
B1-06 (Dr. Huynh Ky Phuong Ha)	Vacuum Pump	Order-made	GHB-200	Faculty of Chemical Engineering (Rm.212, B2 Bldg)
	Vacuum Pump	MLW	DS4-1	
B1-07 (Dr. Nguyen Hoang Dung)	Freezer	Sanyo	HF-S6L(S)	Faculty of Chemical Engineering (B11 Bldg)
	Thermo-control tub	Memmert	WNB14	
	Drying box	Memmert	UBN500	
	Micropipette: - 0.5 - 10 µl - 10 - 100 µl - 20 - 200 µl - 100 - 1000 µl - 1000 - 5000 µl	BOECO	8036463 9003881 7058355 9038938 5090247	
	Column Gel	CWW		
	Small Vertical Electrophoresis	BIO-RAD	PowerPac Basic Mini PROTEAN Tetra System	
B1-08	Computer desktop set	Self-assembled		Faculty of

(Dr. Nguyen Tan Tien)	pH and EC Sensor - Easysense - Easysense - Transmitter	Mettler Toledo	pH32 Cond 77 M200 Easy	Mechanical Engineering (B11 Bldg)
B1-09 (Dr. Le Van Viet Man)	Ultrasonic Processor	Sonics Vibra cell	VC750	Faculty of Chemical Engineering (Rm.101, B2 Bldg)
	Tubular Filter	Iwaki		
B1-10 (Dr. Vo Le Phu)	Handled DO Meter	WTW	Oxi 3210	Faculty of Environment (B9 Bldg)
	Digital Camera	Canon PowerShot	A2100IS	
	Handled pH Meter	WTW	pH 3310 Set 2	
	GPSMap	Garmin	76CSx	
	Laptop	SONY VAIO	VGN-NW240/B	
	Alpha Water Sample	Wildco Instruments	3909	
B1-11 (Dr. Pham Xuan Mai)	4-cylinder Engine	Toyota	4Y	Faculty of Transportation Engineering (C3 Bldg)
	Electric Generator	Robo	STC-20	
	Electronic Speed Regulator Device	Order-made		
	Frame of Generation System	Order-made		
	Exhaust Gas Analyzer (Automotive Emission Analyzer)	HESHBON	HG-520	
	Multi Gas Detector	3M Multilog	2000	
B1-12 (Dr. Tran Tuan Anh)	Computer set	Intel	Q9550	Faculty of Civil Engineering (B6 Bldg)
	Color Printer	HP	CLJ - CP1515N	
B2-01 (Dr. Nguyen Quang Nam)	Mixed signal Oscilloscope	Rigol	DS1102D	Lam Dong Department of Science and Technology (DOST)
	Differential Probe	Hameg	HZ100	
	AC/DC Current Probe	Hameg	HZ050	
	Digital Signal Controller	Texas Instruments	F28335	
	DSP	Texas Instruments	F2812	
	Development Boards & Kits	Texas Instruments	TMDSENRGYKIT	
	Development Boards & Kits	MCB	1760UME	
	Solar Panel	Yingli	YL225P-29b	
	Battery	Phoenix	TS122000	
	Pyranometer	Apogee	MP-100	
	Precision Amplified Pyranometer	Apogee	SP-215	
	Digital Triple Output DC Power Supply	Extech	382213	
Frame for solar battery	Order-made			
B2-02 (Dr. Tran Nguyen Hoang)	Laptop	Apple	Macbook Pro	Faculty of Civil Engineering (Rm.108, B6)
	Camera	Canon EOS	500D	

Hung)	Water Level Indicator	Yamayo	RWL50M	Bldg)
B2-04 (Dr. Le Thi Kim Phung)	Soxhlet extractor	Schott Duran		Faculty of Chemical Engineering (Rm.110, B2 Bldg)
	Reversed phase column	Agilent Technologies	ODS C18	
B2-05 (Dr. Nguyen Thi Lan Phi)	Viscometer	Brookfield	LVDV-E	Faculty of Chemical Engineering (Rm.113, B2 Bldg)
	Vortex Mixer	IKA	MS3 Basic	
	Disperser	IKA	Ultra-turax T18 Basic	
	Small sample adaptor	Brookfield Engineering Laboratories, Inc.		
	Shaking Water Bath	Memmert	WNB14	
	Column	Agilent Technologies	DB-1	
	Column	Agilent Technologies	Z-AG-125-7062	
B2-06 (Dr. Phan Ngoc Hoa)	Moisture Balance	Ohaus	MB45	Faculty of Chemical Engineering (B11 Bldg)
	Ovens	Memmert	UNB500	
	Magnetic Standard	Heidolph	MR Hei Standard	
	Refrigerator	Toshiba	GR-M32 VPD	
	Dialysis Membrane	Spectra/Por	MWCO: 12-14,000	
	Balance	Sartorius	CPA 324S	
	Reactor system	Order-made		
	Centrifuge	Labnet	Spectrafuge 24D	
	Soxhlet extractor	Isolab - Wertlab		
	pH Meter	EUTECH Instruments	pH510	
B2-07 (Dr. Mai Thanh Phong)	Digital Muffle Furnace	Humanlab Instrument Co.	DMF-05	Faculty of Chemical Engineering (B2 Bldg)
	Vacuum Filter	Rocker	MRC	
	Drying Oven	Memmert	UFB 400	
	pH Meter	HACH	SensION 378	
B2-08 (Dr. Le Van Viet Man)	pH Meter	SevenEasy	S20	Faculty of Chemical Engineering (Rm.101, B2 Bldg)
	Electronic Balance	Shimadzu	AUY-220	
	Moisture apparatus	AND	ML50	
	Brix meter	Atago	Master M	
B2-09 (Dr. Huynh Thanh Cong, Dr. Nguyen Ngoc Dung)	Electronic Weight Balancer	Jadever	JWE-15K	Faculty of Transportation Engineering (C3 Bldg)
	Biogas Check Analyzer	Geotech		
	Generator	Order-made	5KVA	
	Motorcycle	Honda	Wave S	
	Tank	Order-made	20 litres	
	Tank	Order-made	100 litres	
	Pressure stabilization tank	Order-made	20 litres	

	Biogas tank	Order-made	20 litres	
	Biogas tank	Order-made	100 litres	
	Air compressor	PUMA	8 Bar	
	Air compressor	PUMA	15 Bar	
	CO ₂ , H ₂ S Cleaning Tower	Order-made		
	Mobile Frame	Order-made		
B2-10 (Dr. Nguyen Tan Phong)	Water Quality Checker	TOA	WQC-22A	Faculty of Environment (B9 Bldg)
	Digital Camera	Canon IXUS	130IS	
B2-11 (Dr. Le Hoang Nghiem)	Visible Specphotometer	PhotoLab 6100VIS	SpectroFlex 6100	Faculty of Environment (B9 Bldg)
	Water Target Software License	KCB		
B2-12 (Dr. Bui Xuan Thanh)	Electronic Balance	Ohaus	PA2102	Faculty of Environment (B9 Bldg)
	pH Meter	EUTECH Instruments	10BNC	
	Dosing Pump	Chem-Feed	C660P	
	Dosing Pump	Chem-Feed	C645P	
	DO Meter	EUTECH Instruments	DO6+	
	Dosing Pump	CHEMTECH	X380XB	
	Filtration Module	Order-made		
	Stirred Ultrafiltration Cell	Amicon	8,400	
	Staroconnect Software	Order-made		
	Laptop	Sony Vaio	Y21 AFX	
B3-01 (Dr. Tran Nguyen Hoang Hung)	Piezometer		4500S - 350VW	Faculty of Civil Engineering
	Readout		GK403 VW	
	Datalogger		8002 - 16 - 2 LC-2	
	Datalogger		800 - 4 - 2 LC-2	
B3-02 (Dr. Phan Ngoc Hoa)	Stirring machine	IKA	RW 20	Faculty of Chemical Engineering, Food Processing Lab (B10 Bldg)
	Magnetic stirrer	IKA	C-MAG HS7	
B3-03 (Dr. Mai Thanh Phong)	Ultrasonic bath	DAIHAN LabTech	LUC-410	Faculty of Chemical Engineering
B3-04 (Dr. Nguyen Hoang Dung)	Boiler	Order-made		Faculty of Chemical Engineering, Food Processing Lab, (B10 Bldg)
	Oven	Order-made		
	Centrifuge	Order-made		
	Cutting machine	Order-made		
	Bottling machine	Order-made		
	Stirred Test cell	Sterlitech	HP4750	
	Pore	Explorer 12	size 50K (WSE1205001)	

	Pore	Explorer 12	size 100K (WSE1210001)	
B3-05 (Mr. Hoang Minh Nam)	Stainless steel fan	Order-made		Technology Business Incubator, (next to B1 Bldg)
	Heat panel	Order-made		
	Control table	Order-made		
	pH Meter	Ohaus	Starter 3000	
B3-06 (Dr. Huynh Quyen)	PLC (for vacuum distillation system)	OMRON	ZEN-20C1AR-A-V2	Installed in the Workshop in Tien Giang province
	On-off valve: Ball type		316SS - 1"	
	Pressure transmitter	Order-made		
	Vacuum pressure transmitter	Order-made		
	Differential pressure level transmitter	Order-made		Oil Refinery Center
	Overhead Stirrer	VELP	ES	
	GC/MS Column	Restek	Rtx-5MS	
	Drying Oven	Yamato	DX402	
	Inverter	Sanch	S1100	
	GC Columns	Agilent J&W	DB-1701	
B3-07 (Dr. Le Thi Kim Phung)	HPLC column with protector	Eclipse	XDB-C18 4.6x150 5u	Faculty of Chemical Engineering Process & Equipment Lab (B2 Bldg)
	Anion exchanger	Diaion	hd20	
B3-08 (Dr. Thoai Nam)	Auto Code Creating Toolkit	Order-made		Computer Science and Technology Lab
	Desktop Computer (4 sets)	Self-assembled		
	Laptop	Sony	VPC - SB38GG/B	
	Laptop	Sony	VPC - SB36FG/S	
	Server	HP	ML 150G6 E5520	
	Upgrading of Auto Code Creating Software	Order-made	Version 2012	
B3-09 (Dr. Le Van Trung)	Software	ArcView	9.2 Single use (ESRI)	Faculty of Environment (B9 Bldg)
	Satellite Image	SPOT5	(1/4 scene) year 2010 and 1/4 year 2011 (cover 30km x 30km)	
	GPS Receiver	Promark	3 (PM3) (without RTK)	
	Software	Bentley Map		
	Notebook	Sony	T13 114FX/B Ivy Bridge	
B3-10 (Dr. Tran Tien Khoi & Dr. Nguyen Phuoc Dan)	Laptop	Toshiba	R835-P56X	Rm.809, H2 Bldg, HCMUT Campus 2, VNU
	Research Reactor Model	Order-made		Environment Lab, B7 Bldg
	Air blower		HC-40S	Installed in the

	Membrane	Motimo		target province
	pH Meter		HI8424	Environment Lab, B7 Bldg
	Anammox Feeding Column	Order-made		
	Water Pump		1HP	Installed in the target province
	Water Pump		1/4HP	
	Agitator			
B3-11 (Dr. Nguyen Tan Phong)	Laptop	Sony	VPC-SB38FG/B	Faculty of Environment (B9 Bldg)
B3-12 (Dr. Nguyen Ngoc Dung)	Generator	Meiden	AC 55 kVA	Faculty of Transportation Engineering, Key Lab for ICE
	Electric load (1 set)	Order-made		
	Automatic voltage regulator system	Order-made		
	Ventury tube	Order-made		
	Orifice tube	Order-made		
	Mobile engine underframe	Order-made		
	Mobile generator underframe	Order-made		
	Generator suspension shell	Order-made		
	Laptop	Fujitsu	LH531	
	Instruments Cabinet	Jonnesway	C7DW104	