

Schedule of Requirements
Lab Petroleum & Gas Engineering

01. Drilling and Production Laboratory

S#	Description	Justification	Qty	Unit Price C&F	Total Price C&F
1	PH Strips; 0-14; 100/pkg, 147-53, OFITE, USA or Equivalent	To develop the essential infrastructure for imparting quality education in the field of Petroleum Engineering.	1		
2	Marsh Funnel Viscometer, 110-10, OFITE, USA or Equivalent		1		
3	Sand Content Kit Complete, 167-00-C, OFITE, USA or Equivalent	To meet the future challenges in Petroleum education.	1		
4	Water Proof Echo-Tester ph2, 147-16-1, OFITE, USA or Equivalent		1		
5	OFI 4-Scale Mud Balance, 115-00, OFITE, USA Or Equivalent	To fulfil accreditation requirement of PEC.	1		
6	Sieve Set, 167-61, 167-63, 167-65, 167-66, 167-67, 167-69, 167-84, 167-85, OFITE, USA Or Equivalent		1		
7	Resistivity Meter, 130-80, OFITE, USA Or Equivalent	Previously student demonstrates these practical in the field and Laboratories in P&G department.	1		
8	Electronic Balance		1		
9	OFI Emulsion Stability Tester, 131-50, OFITE, USA Or Equivalent	The objective to develop Drilling and Production Laboratory are;	1		
10	Retort Kit, OFI, 50ML, 165- 14-2, OFITE, USA Or Equivalent		1		
11	Viscometer, OFITE 800, 8- speed system, 130-10-C, OFITE, USA	<ul style="list-style-type: none"> To inform the student about the primary function of 	1		

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	Or Equivalent	drilling fluid.			
12	Sieve Shaker, RO-TAP, 167-87, OFITE, USA Or Equivalent	<ul style="list-style-type: none"> To introduce test procedure for the controlling the drilling fluid properties. 	1		
13	Mud Mixers	<ul style="list-style-type: none"> To introduce the common additive use to obtain desirable properties under various drilling conditions. 	1		
14	Vaccum Pump, V899, Tecnotest SRL, Italy Or Equivalent	<ul style="list-style-type: none"> To explain main factors governing the selection of drilling fluids. 	1		
15	Gas Permeability Cell, CSI-135, CSI Inc, USA Or Equivalent	<ul style="list-style-type: none"> To improve technical report writing skills. 	1		
16	PVT Cell, PVT-10K, PM-USA or Equivalent	<ul style="list-style-type: none"> With the help of drilling laboratory student easily improve their technical knowledge as well as the testing mechanism of different samples. 	1		
17	Digital Tesiometer, 16-1740, Petrotest, Germany Or Equivalent		1		
18	Manual Core Drill Press Model, MDP-405, Coretest System, Inc, USA Or Equivalent	To market the commercialization of these labs to different exploration and production companies.	1		
19	PMI Automated Liquid Permeaeter, LP-101A, PMI, USA Or Equivalent		1		
2.	RESERVOIR SIMULATION LABORATORY				

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1	IPM Software Suite	<p>The main objective to develop simulation lab are;</p> <ul style="list-style-type: none"> • To develop tool for predicating hydrocarbon reserves and its performance by using different mathematic simulation tool. • Develop a critical thinking in the graduates so that they are able to identify and solve new problem. • To enhance the technical approach of student for solving industry based issues. • To help student to write and analyse their final year dissertation project and also help both teacher and student for caring research work 	6		
2	Eclipse 2008, Blac Oil & Compositional Simulator	Through this laboratory we can carry out practical in major subject like Well Testing, Well Logging, Reservoir Engineering and Simulation	4		
3	Computer Core i7 HP / DELL or Equivalent		20		