

**LIST OF TECHNICAL SERVICES  
(STANDARDIZED FEES)  
MATERIALS SCIENCE DIVISION  
2017**

No.	PARTICULARS	CLIENT RATE (P)	STUDENT RATE (P)
1.	Adhesion by Tape Test Without Optical Stereomicroscope (ASTM D3359)	620.00	496.00
2.	Cold Crushing Strength: <i>Equipment</i> 200 Ton (Universal Testing Machine) UTM <i>Type of Sample:</i> Refractory (silica, silicon carbide, alumina, graphite bricks) <i>No. of Sample:</i> 1 test per product <i>Dimension::</i> 2x4x8 inches (max.)	4,240.00	3,393.00
3.	Determination of Compressive Strength of Ordinary Bricks	686.00	549.00
4.	Determination of Modulus of Rupture for One Sample	1,620.00	1,297.00
5.	Determination of Water Absorption	1,037.00	830.00
6.	Elemental Analysis by X-ray Fluorescence/Endagy Dispersive (XRF-EDX) – one sample	2,451.00	1,962.00
7.	Fire Testing and Evaluation of Firecrete Fireproofing Materials	7,473.00	5,978.00
8.	Fourier Transform Infra Red Spectroscopy (FTIR)	4,317.00	3,453.00
9.	Immersion and Laboratory Performance Testing of Industrial Protective Coating on Steel/Concrete Test Panels (ASTM D6943-03)	9,928.00	7,942.00
10.	Optical Microscopy by Stereomicroscope (up to 3 samples)		
11.	Particle Size Analysis by Dynamic Scattering Particle Size Analyzer (one sample)	2,348.00	1,877.00
12.	Pot Milling of Mineral Powder 500g-1kg capacity (24 hrs.)	1,844.00	1,476.00
13.	Preliminary Evaluation of One Red Clay Sample (for one month)	7,615.00	6,092.00
14.	Specular Gloss Measurement (ASTM D-523) (for 1-3 samples)	536.00	428.00
15.	Surface Area Analysis by BET Sorptometer	2,901.00	2,321.00
16.	Surface Roughness Analysis and Imaging with Measurements by Atomic Force Microscope (AFM)	4,338.00	3,471.00
17.	TEM Imaging & Diffraction (4 images and 4 SAED images/sample or 4 images and 2 NBD images/sample)	16,169.00	12,936.00
18.	TEM Imaging (Bright/Dark Field) 4 images/sample	11,925.00	9,541.00
19.	TEM Imaging & EDS Analysis (4 images and 4 points analysis/sample)	16,169.00	12,936.00
20.	TEM Imaging, Diffraction and EDS (4 images and 4 SAED images/sample or 4 images and 2 NBD images/sample)	17,043.00	13,635.00
21.	Use of Compression Molding Machine	1,049.00	839.00
22.	Use of Electrospinning Apparatus	889.00	711.00
23.	Use of Grinder	610.00	488.00
24.	Use of Injection Molding Machine	874.00	698.00
25.	Use of Ion Sputter for Sample Coating	1,188.00	951.00
26.	Use of Single Screw Extruder	1,362.00	1,090.00
27.	Use of Twin Screw Extruder	4,137.00	3,310.00
28.	Use of Spray Dryer	3,335.00	2,669.00
29.	Use of Two Roll Mill & Compression Molding Machine	2,227.00	1,782.00
30.	Use of Vacuum Mixer	2,868.00	2,294.00
31.	Use of Vacuum Oven		
32.	X-Ray Diffraction Analysis	4,480.00	3,583.00