

LIST OF ANALYTICAL INSTRUMENT & SERVICE CHARGES 2018

No	Instrument	PIC	NANOCAT	Internal (UM)	Outsider (Gov)	Industry Price	Remark
1	Density Meter	Fariza	25	29/S	75	150	Liquid
2	EDX	Nuramera	30	50	70	200	Solid & powder
3	Differential Scanning Calorimetry (DSC)	Farhana	80	49/S	200	250	Powder
4	Differential Scanning Calorimetry (In situ-DSC)	Durga	130	79/S	250	300	
5	Elemental Analyzer (CHNOS)	Fatimah	75	89/S	300	500	Powder, organic
6	Fourier Transform Infra Red (Ex situ-FTIR)	Safuan	50	49	100	250	Solid
			50	75	100	200	Liquid
7	Fourier Transform Infra Red (In situ-FTIR)	TBA	100	139	200	300	
8	Freeze Dryer	Fariza	50 per 4hours	49/4hours	100 per 4hours	150 per 4hours	Slurry
9	Gas Chromatography (TCD-FID)	Radziah	75	69/S	350	400	Liquid
10	Gas Chromatography (GC-MS)	Radziah	50	45/S, 339/H	330	450	Liquid/solid
11	Gel Permeation Chromatography (GPC)	Farhana	150	199/S	330	450	Liquid
12	Hall Effect	Safuan	150	199/S	500	700	Solid, thin film
13	HPLC	Radziah	75	69/S	165	225	Liquid, solid, powder
14	Ion Chromatography (IC)	Radziah	25	39/S	100	150	Solid, liquid
15	Karl Fischer Coulometer (KF)	Fariza	19/S	19/S	75	150	Liquid
16	Particle Size Distribution (PSD)	Nuramera	25	49	100	150	Liquid
17	Raman Spectroscopy (RAMAN)	Farhana	50	109/S, 189/H	150	250	Per sample/per raw data, powder & thin film
			25	50	75	125	Additional scan/peak for the same sample
18	Rotating Pressure Vessel Oxidation Test (RPVOT)	Wafi	199/S	249/S	600	800	Liquid
19	Surface Tension	TBA	25	49/S	110	150	Slurry
20	Scanning Electron Microscopy (FESEM)	Nuramera	100	169/S, 189/H	250	400	Solid & powder
21	TPDRO	Norlia	99/S	149/S	330	450	Powder
22	Thermogravimetry Analysis (TGA)	Farhana	80	89/S	200	250	heating range < 600, Solid /powder
			160	200	250	400	heating range > 600
23	Thermogravimetry-Mass Spectroscopy (TG-MS)	Farhana	130	109/S	250	300	heating range < 600 Solid/powder
			200	250	300	450	heating range > 600
24	UV Vis Spectroscopy (UV-VIS)	Safuan	50	19/S, 139/H	50	100	NANOCAT/UM per slot, Outsider per sample, Liquid/powder
			10	20	50	100	Time per slot (1 slot=1 hour)
25	Vibration Sample Magnometer (VSM)	Safuan	99/S	119/S	170	200	Solid, liquid & film
26	X-Ray Diffraction (In situ-XRD)	Durga	300	199/S	450	500	Powder
			30	30	30	30	Additional per scan charge
			400	500	550	600	with MS result
27	X-Ray Diffraction (Ex-situ-XRD)	Durga	100	99/S	300	400	Solid, Powder & thin film
28	X-Ray Fluorescence (XRF)	Durga	100	89/S	200	300	Powder & liquid
29	Zeta Potential (ZP)	Nuramera	19/S	19/S	n/a	n/a	Bring own cuvette, Liquid
			150	119/S	230	250	without own cuvette

**All prices are subject to change * For result within 3 days consider as urgent and double price will be charge *Testing result depends on number of samples, instrument availability * Highlighted rows are for current functioning instrument.- If you are interested in using our service kindly contact: ts_nanocat@um.edu.my, Tel: 03-7967 6273*