

	MAKMAL BERPUSAT UNIVERSITI MALAYSIA TERENGGANU 21030 Kuala Terengganu, Terengganu Fax : 09-668 3395	Form Num.	UMT/MB/M/2016/CD
		Sample No.	CD/
CHEMICAL DISCRETE ANALYZER ANALYSIS APPLICATION FORM (SMARTCHEM DISCRETE ANALYZER 200)			

APPLICANT'S PERSONAL PARTICULARS

Name of Applicant							
Status of Applicant	Internal		Undergraduate		Master/PhD		Collaborator
	External		Student		Government		Private
Student ID / IC No.							
Faculty/ Department							
Hand Phone No. & Email							

SUPERVISOR DETAILS

Name of Supervisor							
Research Vot. No.							
Faculty/Department							
Payment via *	Cash / Electronic Fund Transfer (EFT)			Local Order (LO) / Purchase Order (PO)			
	Direct Invoice		Vot Transfer				Cheque
Hand Phone No. & Email							
Signature & Official Stamp Date							

SAMPLE INFORMATION

Type & Number of Sample *		Fresh water			
		Drinking Water			
		Lake Water			
		Sea Water			
		Other (Please specify):			
Sample Labels & Information (Please specify the sample label/tag)	1		6		
	2		7		
	3		8		
	4		9		
	5		10		
	* Please attach additional list of samples if necessary * Samples should be filtered using 0.2 or 0.45 µm syringe filter & place in 5 ml container. * For Silica analysis, please use plastic type container for storage.				
Sample Handling Details *		Store samples in the fridge / freezer			
		Store sample in the room temperature			
		Other handling instructions or hazard information: (Please specify):			
Expected Concentration of Submitted Sample					
Expected Concentration of Standard - Calibration Curve (Min-3 points, Max-5 points)		ppm	ppm	ppm	ppm
	* Standard will be diluted automatically by Smartchem regarding to the given standard concentration above				
Method Analysis		Ammonia EPA 350.1	0.01 to 2.00 mg/L NH3 as N. Based on EPA Method 350.1 (Rev. 2.0, 1993).		
		Ammonia SM 4500 NH3 G	0.02 to 2.00 mg/L NH3 as N Based on Standard Methods 4500-NH3-G [19th ,20th, and 21st Edition] & 4500-NH3-H [18th Edition].		
		Nitrate Nitrite Cd EPA 353.2	0.02 – 2.00 and 0.05 to 20.00 mg/L nitrate-nitrite nitrogen. Based on USEPA 353.2. Revision 2.0, (1993) & Standard Methods Method 4500 NO3 F. 18th and 19th Editions.		
		Nitrate Nitrite Cd SM 4500 NO3 - E	0.01 to 1.00 mg/L nitrate-nitrite nitrogen. Based on Standard Methods Method 4500 NO3 E 18th and 19th Edition		
		Nitrite EPA 353.2	0.01 to 1.00, 0.02 to 2.00, and 0.05 to 10.0 mg/L nitrite- nitrogen. Based on USEPA 353.2. Revision 2.0, (1993) & Standard Methods Method 4500 NO3 - F, 18th and 19th Edition.		
		Nitrite EPA 354.1	0.010 to 0.500 mg/L and 0.005 to 0.250 mg/L nitrite nitrogen (NO21- – N) range. Based on US EPA354.1, (Issued 1971).		

		Nitrite SM 4500 NO2 B	0.010 to .1.00 mg/L and 0.005 to 0.180 mg/L nitrite nitrogen (NO2- – N) range. Based on Standard Methods Method 4500 NO2 - B, 18th and 19th Edition.
		Phosphorus EPA 365.1	0.01 to 1.00 mg P/L range. (EPA 355.1) and 0.0010 to 10.0 (SM 4500-P-F). Based on EPA 365.1 Rev. 2.0 (1993), & Standard methods 4500-P-F 18th, 19th Editions.
		Phosphorus EPA 365.3	0.01 to 1.00 mg P/L range Based on US EPA 365.3, (Issued 1978).
		Phosphorus SM 4500 - P - F	0.005 to 5.00 mg P/L range. Based on Standard Method 4500-P-F [18 th and 19th, Editions] .
		Phosphorus SM 4500-P E	0.005 to 0.500 mg and 0.010 to 1.000 mg PO4-3 as P/L range. Based on Standard Method 4500-P-E [18th, & 19th Editions]
		Silica USGS I-2700-85	0.05 to 60 mg/L SiO2. Based on USGS I-2700-85 & Standard Methods 4500-Si-F 18th and 19th Editions.
		Any recommended method	
Filtered Sample *	Yes.	<i>Please specify the filter size & filter type:</i>	
	No		
Dilution *	Yes.	<i>Please specify the dilution factor:</i>	
	No		
OFFICE USE			
Date of Received			
Date of Completion			
Signature & Stamp of Person In-Charge			

*Please tick

General Rules and Requirement:

- Any sample or derivation of swine/pork/lard/pig/dogs type is not accepted for analysis purposes.
- Please refer to the website (<http://makmalberpusat.umt.edu.my/>) for further details of pricing and instrument. All analysis prices are subject to change.
- All information provided should be true
- Submit the completed application form to the lab staff.
- Please refer to the details of the selected method before submit the booking form.
- Sample Condition & Preparation
 - Please be ensure the **MINIMUM SAMPLE VOLUME REQUIRED** should be **MORE THAN 5 ML PER ANALYSIS**.
 - Sample should be filtered. Any relatively high concentration of the samples will be made further dilution upon discussion between client & person in-charge.
 - Makmal Berpusat UMT has the right to cancel any analysis if the sample is suspected to have high risk on the safety of the operator or can cause damage to the instrument during the analysis.
- All inquiries regarding Smartchem instrument should be forwarded to the Science Officer (Mrs Nor 'Atiyyah Binti Mohamed/ 09-668 3360/ noratiyyah@umt.edu.my)

REMARKS				
NO	DESCRIPTION			CHECKLIST - PIC
1	Storage		Room	Location:
			4°C	
			-20°C	
			-80°C	
2	List of received Item	No	Item	Quantity
		1	Sample	
		2	Sample Cup	
		3	Reagent Container	
		4		
3	Post Analysis		Storage	
			Dispose	
4	Receiver Name	Stamp : Date:		Stamp : Date: