



澳門大學  
UNIVERSIDADE DE MACAU  
UNIVERSITY OF MACAU

ADMO-PCT/F/001-R0

### 邀請報價

供應商:致各競投者	傳真號碼:	電話號碼:
採購申請編號:121716	日期:08/08/2019	頁數:2 + attachment (3 pages)
電郵地址:		

煩請 貴商號就下列貨品或服務提供報價，並請 貴商號根據以下要求於指定時間前將有關報價資料送交本大學為荷。逾時遞交報價者，本大學恕不接受。

限期：**2019年8月20日17時30分或之前**

#### 1. 貨物或服務內容：

項目	內容	數量	價目
1	Consumables for Chemistry Laboratory  * Detail please refer to the attachment (3 pages) * Or equivalent or above	1.0	
****請於報價單上簽署及蓋上有效的競投商號／公司印章。			

\* 如 貴商號為區域總代理商/總程式及軟件開發商/總維修站等，或已取得ISO9000或ISO14000認證，須提交相關證明文件或聲明書以作評選之用。

\*\* 歡迎提供相關環保產品，以供選擇。

#### 2. 送交報價單形式：

- ☒ 傳真No.：28831103／電郵方式：[TommyChan@um.edu.mo](mailto:TommyChan@um.edu.mo)；  
☒ 報價單直接送交至澳門大學，N6 行政樓，4012 室採購處。在信封面上請註明〔報價單〕字樣及〔採購申請編號〕並封口蓋上公司印章。

#### 3. 報價條件：

- ☒ 交貨日期； ☐ 遞交樣本； ☒ 保養日期； ☐ 完工日期； ☒ 付款方式；  
☒ 報價單條款及有效日期； ☐ 附同 (M1) 及 (M8) 營業稅單副本；

如蒙垂詢，請聯絡陳先生（電話：+ 853 8822 8588 及電子郵件：[TommyChan@um.edu.mo](mailto:TommyChan@um.edu.mo)）



採購處處長

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備註：

競投者在投標前有責任閱讀刊登於大學網頁的 "競投者注意事項"

([https://pct.admo.um.edu.mo/for-suppliers/attention-to-all-bidders\\_ch/](https://pct.admo.um.edu.mo/for-suppliers/attention-to-all-bidders_ch/))。倘有需要，  
競投者可聯絡大學採購負責人員索取有關資料。

澳門大學已更新「澳門大學註冊供應商登記系統」，請即登入新系統註冊/更新公司資料！

登記網站：<https://isw.um.edu.mo/epctsp>

查詢電話：8822 8487呂小姐 / 8822 8533伍小姐 / 8822 4830黎小姐

查詢電郵：[PCTSupplierMgmt@um.edu.mo](mailto:PCTSupplierMgmt@um.edu.mo)



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# Specification of PR#121716

## Group 1: Chemicals

No.	Chemical Name	CAS Number	Minimum Requirement	Size	Quantity	Unit	Unit price (MOP)	Total price (MOP)
1.1	1-PROPANOL(正丙醇)	71-23-8	AR	1000ml	2	Bottle		
1.2	2-PROPANOL(異丙醇)	-	AR	1000ml	2	Bottle		
1.3	ACETALDEHYDE(乙醛)	-	AR	1000ml	2	Bottle		
1.4	AMMONIA SOLUTION(阿摩尼亞)	-	AR, 25%-28%	2000ml	4	Bottle		
1.5	AMMONIUM MOLYBDATE(鉬酸銨)	13106-76-8	AR	1000g	2	Piece		
1.6	BARIUM CHLORIDE(氯化鋇)	10326-27-9	AR	1000g	2	Piece		
1.7	IRON (II) AMMONIUM SULFATE (六水合硫酸亞鐵銨)	7783-85-9	AR	1000g	2	Piece		
1.8	IRON (II) SULFATE(硫酸亞鐵)	7720-78-7	AR	1000g	2	Piece		
1.9	MALONIC ACID(丙二酸)	-	AR	1000g	10	Piece		
1.10	METHANOL(甲醇)	-	AR	5000ml	10	Bottle		
1.11	POTASSIUM BROMIDE(溴化鉀)	-	AR	1000g	2	Piece		
1.12	POTASSIUM HYDROGEN PHTHALATE (鄰苯二甲酸氫鉀)	-	AR	1000g	2	Piece		
1.13	POTASSIUM PERMANGANATE(高錳酸鉀)	-	AR	1000g	2	Piece		
1.14	SODIUM BROMIDE(溴化鈉)	-	AR	1000g	2	Piece		
1.15	SODIUM IODIDE(碘化鈉)	-	AR	1000g	4	Piece		
1.16	SODIUM SULFIDE(硫化鈉)	-	AR	1000g	2	Piece		
1.17	TARTARIC ACID(酒石酸)	-	AR	1000g	2	Piece		
1.18	TOLUENE(甲苯)	-	AR	1000ml	2	Bottle		
1.19	ZINC CHLORIDE(氯化鋅)	-	AR	1000g	2	Piece		
1.20	ZINC POWDER(鋅粉)	-	AR	1000g	2	Piece		
1.21	SODIUM HYDROXIDE(氫氧化鈉)	7440-66-6	AR, 99%	500g	1	Piece		
1.22	HYDROGEN PEROXIDE(過氧化氫)	-	AR	500g	6	Piece		
1.23	HYDROCHLORIC ACID(鹽酸)	-	AR	500ml	2	Bottle		
1.24	XYLENOL ORANGE(二甲酚橙)	-	AR	500ml	4	Bottle		
1.25	METHIONINE(L-蛋氨酸)	1611-35-4	AR	10g	10	Piece		
1.26	HCl溶液	-	BR99%	500g	1	Piece		
1.27	飽和NaOH溶液	-	AR, 6mol/L	1000ml	3	Bottle		
1.28	METHYL ORANGE SOLUTION (甲基橙溶液)	-	AR, 15-19mol/L	100g	15	Piece		
1.29	PHENOLPHTHALEIN (酚酞溶液)	-	AR, 1g/L	100	1	Piece		
1.30	POTASSIUM DIHYDROGEN PHTHALATE(鄰苯二甲酸二氫鉀)	-	AR, 2g/L乙醇溶液	500g	1	Piece		
1.31	EDIBLE WHITE VINEGAR(食用白醋)	-	AR	500g	1	Piece		
1.32	EDTA溶液	-	AR	2500ml	1	Bottle		
1.33	NH3-NH4Cl緩衝溶液	-	AR, 0.01mol/L	1000ml	12	Bottle		
1.34	CaCO3(碳酸鈣)	-	AR, pH=10	1000ml	2	Bottle		
1.35	CHROMIUM BLACK T INDICATOR(鉻黑T指示劑)	-	AR	250ml	1	Bottle		
1.36	NH4Fe(SO4)2·12H2O(硫酸鐵銨)	-	AR, 5g/L, 含25%三乙醇胺及20% Na2S	100ml	1	Bottle		
1.37	O-PHENANTHROLINE MONOHYDRATE(鄰二氮菲)	-	AR, 1.5g/L	500ml	1	Piece		
1.38	HYDROXYLAMINE, HYDROCHLORIDE(肼酸氫鹽)	-	AR, 100g/L	500ml	3	Bottle		
1.39	NaAc(醋酸鈉)	-	AR, 1mol/L	500ml	2	Piece		
1.40	FeCl3(氯化鐵)	-	AR	500ml	8	Bottle		
1.41	M-DIHYDROXYBENZENE (4 - (2 - 吡啶偶氮)間苯二酚)	-	AR	500g	1	Piece		
1.42	NH4VO3(偏鉬酸銨)	-	AR	500g	20	Piece		
1.43	AMMONIUM HYDROXIDE(氨水)	-	AR, 1.1	500g	1	Piece		
1.44	HNO3(硝酸)	-	AR	500ml	2	Piece		
1.45	NaAc·3H2O(醋酸钠晶體)	-	AR	500g	9	Piece		
1.46	HAc(乙酸)	-	AR, 6mol/L	500ml	7	Bottle		
Total amount of Group 1 (MOP)								



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Group 2: Other Consumables							
No.	Name of item	Reference Brand	Minimum Requirement	Size	Quantity	Unit	Total price (MOP)
2.1	FILTER PAPER(定量濾紙)	-	AR	20 pieces per box	20	Box	
2.2	LITMUS BLUE INDICATOR PAPER (藍石蕊試紙)	-	AR	20 pieces per box	20	Box	
2.3	LITMUS RED INDICATOR PAPER (紅石蕊試紙)	-	AR	20 pieces per box	20	Box	
2.4	Wash bottle	Nalgene	-	500ml 16oz. 2 LDPE	20	Piece	
2.5	Alligator clips with electricity wire (black and red color) (鱷魚夾帶1M線)	-	-	1m	100	Pair	
2.6	"acid" type of burette, the type with a rubber and bead 50ml (A級 酸式滴定管, 橡膠管控制滴定)	-	-	50ml	20	Piece	
2.7	"basic" type of burette, the type with a rubber and bead 50ml (A級 碱式滴定管, 橡膠管控制滴定)	-	-	50ml	20	Piece	
2.8	Rubber tubing with dimension suitable for the connection to burettes, aspirators, Buchner funnels. 6mm*10mm (黃色實驗用橡膠管)	-	-	6mm*10mm	5	Meter	
2.9	Rubber tubing with dimension suitable for the connection to burettes, aspirators, Buchner funnels. 8mm*12mm (黃色實驗用橡膠管)	-	-	8mm*12mm	5	Meter	
2.10	Rubber tubing with dimension suitable for the connection to burettes, aspirators, Buchner funnels. 9mm*12mm (黃色實驗用橡膠管)	-	-	9mm*12mm	5	Meter	
2.11	Rubber tubing with dimension suitable for the connection to burettes, aspirators, Buchner funnels. 10mm*14mm (黃色實驗用橡膠管)	-	-	10mm*14mm	5	Meter	
2.12	Rubber tubing with dimension suitable for the connection to burettes, aspirators, Buchner funnels. 6mm*21mm*1.8m (白色抽真空橡膠管)	-	-	6mm*21mm*1.8m	1	Piece	
2.13	Rubber tubing with dimension suitable for the connection to burettes, aspirators, Buchner funnels. 8mm*25mm*1.8m (白色抽真空橡膠管)	-	-	8mm*25mm*1.8m	1	Piece	
2.14	Rubber tubing with dimension suitable for the connection to burettes, aspirators, Buchner funnels. 10mm*27mm*1.8m (白色抽真空橡膠管)	-	-	10mm*27mm*1.8m	1	Piece	
2.15	High temperature resistance of transparent silica gel hose 6mm*10mm (透明橡膠管耐高溫)	-	-	6mm*10mm	5	Meter	
2.16	High temperature resistance of transparent silica gel hose 7mm*11mm (透明橡膠管耐高溫)	-	-	7mm*11mm	5	Meter	
2.17	High temperature resistance of transparent silica gel hose 8mm*12mm (透明橡膠管耐高溫)	-	-	8mm*12mm	5	Meter	
2.18	High temperature resistance of transparent silica gel hose 10mm*14mm (透明橡膠管耐高溫)	-	-	10mm*14mm	5	Meter	
2.19	Test tube brushes for large, medium and small laboratories (大, 中, 小號, 實驗室試管刷)	-	-	3 units per set (Large, medium and small)	5	Set	
2.20	Triangular flask conical bottle cleaning brush (三角燒瓶錐形瓶清洗刷)	-	-	7 units per set	2	Set	
2.21	Round-bottomed flask cleaning brush(圓底燒瓶清洗刷)	-	-	9 units per set	2	Set	
2.22	Laboratory barrel brush(量筒毛刷)	-	-	6 units per set	2	Set	
2.23	Laboratory capacity bottle brush(容量瓶毛刷)	-	-	8 units per set	2	Set	
2.24	Cross Beaker Brush(燒杯毛刷)	-	-	7 units per set	2	Set	
2.25	HDPE Laboratory Distilled Water Drainage Faucet Bottle, 20L (HDPE實驗室蒸餾水放水龍頭下口瓶)	-	-	20L	1	Piece	
2.26	HDPE Laboratory Distilled Water Drainage Faucet Bottle, 25L (HDPE實驗室蒸餾水放水龍頭下口瓶)	-	-	25L	1	Piece	



2.27	HDPE Laboratory Distilled Water Drainage Faucet Bottle,50L (HDPE實驗室蒸餾水放水龍頭下口瓶)	-	-	50L	1	Piece
2.28	PE Laboratory Distilled Water Drainage Faucet Bottle,60L Round (PE實驗室蒸餾水放水龍頭下口桶)	-	-	60L Round	1	Piece
2.29	Glass measuring cylinder 5ml(量筒)	蜀牛品牌	-	5ml	15	Piece
2.30	Glass measuring cylinder 10ml(量筒)	蜀牛品牌	-	10ml	15	Piece
2.31	Reagent bottle 500ml(試劑瓶)	蜀牛品牌	-	500ml	60	Piece
2.32	Basic burette 50ml(儲式滴定管)	-	-	50ml	60	Piece
2.33	Acid burette 50ml(酸式滴定管)	-	-	50ml	30	Piece
2.34	Conical flask 250ml(錐形瓶)	三愛思品牌	-	250ml	60	Piece
2.35	Weighing bottle(稱量瓶)	佈雷斯品牌	For weighing about 1g chemicals	扁型:40*25mm	90	Piece
2.36	Beaker 250ml(燒杯)	蜀牛品牌	-	250ml	30	Piece
2.37	Volumetric flask 250ml(透明容量瓶)	佈雷斯品牌	透明	250ml	30	Piece
2.38	Volumetric flask 250ml(棕色容量瓶)	佈雷斯品牌	棕色	250ml	30	Piece
2.39	Pipette 25ml(移液管-環標刻度吸管320mm)	天玻品牌	環標刻度吸管320mm	25ml	20	Piece
2.40	Pipette 25ml(移液管-刻度假管胖肚移液管)	天玻品牌	刻度假管胖肚移液管	25ml	20	Piece
2.41	Volumetric flask 50ml(透明容量瓶)	佈雷斯品牌	透明	50ml	240	Piece
2.42	Pipette 1ml(吸量管-環標刻度吸管320mm)	天玻品牌	環標刻度吸管320mm	1ml	30	Piece
2.43	Pipette 1ml(吸量管-刻度假管胖肚移液管)	天玻品牌	刻度假管胖肚移液管	1ml	30	Piece
2.44	Pipette 5ml(吸量管-環標刻度吸管320mm)	天玻品牌	環標刻度吸管320mm	5ml	30	Piece
2.45	Pipette 5ml(吸量管-刻度假管胖肚移液管)	天玻品牌	刻度假管胖肚移液管	5ml	30	Piece
2.46	Colorimetric dish 3.5ml(比色皿) (耐酸玻璃比色皿10mm光程譜析光學高透光1cm)	-	耐酸玻璃比色皿10mm光程譜析光學 高透光1cm	3.5ml	360	Piece
2.47	Colorimetric dish 25ml(比色管)	天玻品牌	全刻度具蓋玻璃比色管250ml A級	25ml	30	Piece
2.48	Pipette 1ml(移液管-環標刻度吸管320mm)	天玻品牌	環標刻度吸管320mm	1ml	30	Piece
2.49	Pipette 1ml(移液管-刻度假管胖肚移液管)	天玻品牌	刻度假管胖肚移液管	1ml	30	Piece
2.50	Pipette 2ml(移液管-環標刻度吸管320mm)	天玻品牌	環標刻度吸管320mm	2ml	30	Piece
2.51	Pipette 2ml(移液管-刻度假管胖肚移液管)	天玻品牌	刻度假管胖肚移液管	2ml	30	Piece
2.52	Pipette 5ml(移液管-環標刻度吸管320mm)	天玻品牌	環標刻度吸管320mm	5ml	30	Piece
2.53	Pipette 5ml(移液管-刻度假管胖肚移液管)	天玻品牌	刻度假管胖肚移液管	5ml	30	Piece
Total amount for Group 2 (MOP)						

#### Remarks

1. Due to repeatability and reproducibility of the experiment result, chemicals and consumables are recommended from the listed brand to have the best quality assurance. Other brands may be considered **ONLY IF** the supplier can provide essential proof that quality of chemical provided is equivalent to the listed brand.
2. The order should include door-to-door delivery to user specified location in University of Macau and all related shipping and handling fees.
3. Bank Charge related telegraphic transfer will be borne by awardee.
4. For **Group 1 (Item 1.1 to Item 1.46)** and **Group 2 (Item 2.1 to Item 2.53)**, each of them is an **integrated award scheme**, vendor should provide the prices for each sub-items of the integrated award scheme. The vendor fails to provide the prices for each sub-items or cannot satisfy the minimum requirement and size of the integrated schemes, **will not be considered**.
5. Or equivalent or above.

