



المركز الوطني للبحوث الزراعية  
National Agricultural Research Center

(يعيا من المدير المالي)  
اسم المشروع: .....  
المعدة: .....  
قيمة المشتريات الفعلية: .....

الرقم المتسلسل لطلب الشراء: .....  
اسم المديرية: .....  
مخصصات المشروع حسب الموازنة: .....  
المصروف: .....  
الرصيد: .....

الرقم	قائمة اللوازم	المطلوب		المواصفات
		الوحدة	الكمية	
1	ITEM 1 Dual chamber system for Gluten testing in FLOUR, WHEAT, DURUM, AND SEMOLINA	جهاز	1	حسب المرفق
2	ITEM 2 : Falling Number / Alpha-amylase activity Analyzer	جهاز	1	حسب المرفق
3	ITEM3 : Grinder	جهاز	1	حسب المرفق
4				جميع الاجهزة اوريدية
5				
6				التسليم في المركز الرئيسي
7				
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9				
10				
11	المجموع			

اسم و توقيع الطالب: د نوال الحجاج  
اسم و توقيع مدير المديرية: .....  
مشروعات امين العهدة: .....  
مشروعات محاسب الالتزام للمشاريع: .....  
مشروعات المدير المالي: .....  
رأي مدير وحدة المتابعة و التقييم في توفر المخصصات و مطابقة الطلب مع وثيقة المشروع: .....

رأي المساعد لشؤون البحث: .....  
موافقة المدير العام: .....  
ملاحظات: - I. يستخدم أكثر من نموذج .  
نسخة : المتابعة و التقييم  
نسخة : امين العهدة للأستلام بموجبها  
ع ع : نموذج طلب شراء 2021

المركز الوطني للبحوث الزراعية  
بدرية، الرياض 11461  
تلفون: 011 4999999  
فاكس: 011 4999999

- Cassette stand
- Cassette for holding tubes
- Viscometer Stirrer
- 20 viscometer tubes and 2 viscometer stirrers included
- Includes: Reference sample Falling Number: Wheat Flour sample with Falling Number value specified, 100 gram.
- Must include Dispenser adjustable between 5 and 30 ml, Precision of setting is +/-0.15 ml, with a 2-litre glass bottle.

**ITEM3 :**

**Grinder**

- Validated Instrument for the following approved International standards: AACCI/No. 56-81.03, ICC/No.107/1, ISO/No. 3093
- Grounded product using a standard 0.8mm
- Sample preparation for the determination of **alpha-amylase activity in wheat and other ground cereals samples.**
- Produces samples for near-infrared analyses: **For measuring hardness and levels of protein, fat, ash and water after grinding.**
- Include: Plastic funnel, still-bristled brush, two nylon bags, power cable and 5.5mm open-end wrench.

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Tender Specifications :

ITEM 1 :

**Dual chamber system for Gluten testing in FLOUR, WHEAT, DURUM, AND SEMOLINA**, approval and official methods, should be validated & certified according to the following standards:

- International Association for Cereal Science and Technology (ICC) standard no 137 I 1, 155 and 158
- American Association of Cereal Chemists (AACC International) method no 38-12.02
- International organization for Standardization (ISO) standard ISO 21415-2, -4
- GAFTA Method 34:2

Large touch screen

Select regional settings like language, time zone, date and time format

Automatic result calculation and storage

Communication ports for Centrifuge 2010, balance and for connection with LIMS system/PC.

Comparable Results: Gluten testing results and values are included in wheat reports worldwide

The operator can select to let the instrument do the initial dispensing of the Mix solution. The operator will then only add the sample to the Wash chamber assembly and fit it to the instrument

The screen prompts and guides users through the various approved gluten test procedures.

Automated calculation

The instrument shall feed 265 +/- 15 ml of wash solution during the 5 minutes washing time. This amount can be checked in the collecting beakers after a test is finished.

Include the following :

Two cups cup 400 ml and Standard Reference Flour sample with Wet Gluten Content, Gluten Index, Dry Gluten Content and Water Binding in Gluten, specified. 100 gram.

ITEM 2 :

**Falling Number / Alpha-amylase activity Analyzer:**

Validated Instrument for the following approved International standards: AACCI/No. 56-81.03, ICC/No.107/1, ISO/No. 3093

- Isolated water bath and stirring mechanism, and reduced steam
- Viscometer tubes \*20 tubes >> certified for Falling Number Test
- Viscometer tube rack
- Plastic funnel
- 4 Rubber stoppers
- Plastic tubing for water level control drainage
- Pipette 25 ml of glass

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2023/10

