

ICAR-INDIAN INSTITUTE OF MAIZE RESEARCH
PAU Campus, Ludhiana - 141004

F.No.: 42-01/EFC-Equipments/P/IIMR/17-18/9260/1

Date: 16.02.18

CORRIGENDUM

Sir,

Kindly refer to tender no. 42-01/EFC-Equipments/P/IIMR/17-18 dt. 8.02.18 due for opening on 6.3.18 at 11:00 A.M. In this regard, it is intimated that some changes have been made in the specifications for **Automatic Nitrogen/Protein analyzer**. The revised specifications are being enclosed herewith. **Kindly note that tender received with the revised specifications may only be considered for further course of action.**

Yours faithfully,


Administrative Officer

Copy to:-

- In-charge ARIS cell, IIMR for uploading on IIMR website
- Notice board

Revised Technical specifications for Automatic Nitrogen/Protein analyzer

Specifications
Fully Automatic Nitrogen/Protein analyzer
Specifications for Digestion system (12 place)
IR Digestion system 12*250/300 ml capacity with electronic temperature controller, temperature range (50-550°C)
Variable heating levels and time settings in each programme.
Display for time
System should have a drip hole to protect the system from any leakage from of sample tubes
Easy handling of tubes by providing standby and cooling down mode
Complete exhaust system for all the 12 places
Specifications for COMPUTER CONTROLLED (IN BUILT/EXTERNAL) FULLY AUTOMATIC DISTILLATION SYSTEM WITH INBUILT END TO END POINT POTENTIOMETRIC TITRATION
System can be upgradable to autosampler
Cooling water consumption per min 1-4 L
Distillation time/sample (2-5 min)
Recovery rate% (> 99.5)
Reproducibility % (+ /- 1)
Detection limit N (0.1 mg)
Nominal voltage (230 VAC)
Nominal wattage (1.6-2.2kw)
Addition H ₂ BO ₂ (Automatic)
Addition H ₂ O (Automatic)
Addition NaOH (Automatic)
Programmable reaction time (Automatic)
Programmable distillation time (Automatic)
Stream generator (Automatic)
Automatic suction of sample waste (Automatic)
Automatic suction of the receiver (Automatic)
Protection Door with safety switch. Fully Transparent protective door for view of Distillation process, sample contamination, condenser and Distribution Head
Different sizes of digestion tube and kjeldahl flask can be used for large volume sample
Determination of End point will be done Potentiometrically with combined electrode using micro dosing pump of accuracy 0.2 % deviation
check of chemical reservoir (Automatic)
Stand-by-Function (Required)
error messages (Optical and acoustical)
Protection door with safety switch (Required)
Buffer solution pH 4 (200-300 ml.)
Buffer solution pH 7 (200-300 ml.)
KCl Electrolyte solution (40-60 ml.)
Titration (Automatic By Micro dosing pump)
pH-electrode additional (Required)
Result print out (Automatic)
digestion system should be acid resistant
Distribution head (Made of PP)