



Date: 19<sup>th</sup> June, 2017

Corrigendum  
For  
Tender for  
Fully Automated Protein Electrophoresis with  
Accessories for the Department of Biochemistry

NIT Issue Date	: 11 <sup>th</sup> May, 2017
NIT No.	: Admn/Tender/76/2017-AIIMS.JDH
Second Pre-Bid Meeting	: 29 <sup>th</sup> June, 2017 at 03:00 PM
Extended Last Date of Submission	: 24 <sup>th</sup> July, 2017 at 03:00 PM
Bid opening	: 25 <sup>th</sup> July, 2017 at 04:00 P.M

**The following revised and additional specification will be added:-**

**1. Page No. 11, In Technical Specification, Point No. 1 to 14:**

**For**

1. The gel technology has to be based on the principle of separation molecules in an agarose medium.
2. It should allow simultaneous sample analyses on one gel.
3. Sample application, migration, washing and staining are performed automatically.(fully)
4. Three types of separation should be possible according to:
  - The charge of the proteins, in a specific pH buffer
  - The isoelectric point, in a specific pH gradient
  - The molecular weight of the proteins, in a SDS- agarose gel
5. The processed gels has to be scanned by a densitometer, on-board, in order to quantify the protein fractions.
6. Protein and immunofixation, Urine and immunofixation, haemoglobin, lipoprotein, csf transferrin isoform, transferrin isoforms, isoenzymes and Hemostasis (von willebrand, multimers)
7. The IEF unit should accommodate 1-12 regular strips for 7-24 strips and is capable of running 1-12 strips simultaneously
8. IEF system may have control software option with touch screen.
9. System should come with focusing & running tray, reswelling kit (oil free), which accommodate 12 nos. of IPG strips of 7, 11, 13, 17/18, 24 cm should be included
10. Integral 10000V power supply, peltier solid state control temperature (10-25±5C)
11. Provide consumable (2 set): IEF strips with pH 3-10 and pH 4-7 (7cm, 11cm and 13cm), IEF buffer 3-10 & 4-7; clean up kit, mineral oil, fluorescence dye. Dimension (protein)
12. All parts, the application, Gel run, Gel cast, IEF system, Scanner etc. should be from the same manufacturer.
13. Softwares/licencing and library should be provided in the accessories.
14. The automated system should be of international standards /GE Certified.

**Read**

## **Automated protein Electrophoresis System:**

1. System should be compact automated walk away bench-top analyzer
2. System should have capacity for up-to 20-24 sample simultaneous application
3. System should have hydrophobic sample applicators for precise and accurate sample application allow hundred percent protein applications on gels.
4. System should have option for simultaneous run for both serum, urine and csf sample processing simultaneously.
5. System should have precise antiserum applicator for IFE ensuring complete lane coverage so as to allow full antigen and antibody interaction.
6. System should have optimized Gel Range to run various electrophoretic tests – Serum Protein, Serum Protein Split Beta, Serum Proteins High Resolution, Alkaline and Acid Hemoglobin, Lipoproteins, Cholesterols, Alkaline Phosphatase, CK, LD and Immunofixations both Serum and Urine Protein.
7. System should have option to for user defined programming for minimum 15 methods so as to have option for additional protocol (user defined).
8. System should have simple to use intuitive software
9. System should be using pre cast semi-dry buffer system as there is no need to maintain the pH of buffer as it helps to have better protein separation
10. System should have continuous gel loading so as to manage high sample management with same platform.
11. Gels should have pre casted gel technology
12. System should have for high voltage applications for parameters like Iso Electric Focusing to run Hb IEF, IgG IEF and Transferin IEF.
13. System should have optimized temperature operation.
14. System should have multiple ports for different stains, destains, wash solution and cleaning solution.
15. System should have automated cleaning protocol to attain proper daily maintenance
16. System should be working on No-carryover technology
17. System should have provide with suitable scanning unit and computer & laser printer system alongwith 2 KVA Ups with 2 hours back up time.

### **Specifications for software**

1. System should have simple to use windows based software
2. System should have single screen navigation
3. System should have Gel, sample, trace, demographics, patient history status, attached IFE's and trace analysis all visible in single window
4. System should have natural workflow from scan to report
5. System should have option to attach IFE gel image with serum protein reports for better disease diagnosis management.
6. System should have completely intuitive, customizable environment
7. System should have full color density scan in one pass
8. System should have full suite editing tools
9. System should have historical, multi-sample and control overlay capability
10. System should have automated levey-jennings analysis and standard deviations
11. System should have automated flagging of abnormal-normal samples
12. System should have capacity of fully customizable reports
13. System should come with compatible Computer system and scanner
14. Should have option for integration of different system result
15. Software should have support encrypted hardware tool for anti copying feature