



क्रय अनुभाग
वन अनुसंधान संस्थान
देहरादून-२४८००६
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CORRIGENDUM

Revised Specification:- 2D Gel electrophoresis with compatible gel doc system.

1 Technical Specifications		Minor Deviation allowed (Yes/No)
First dimension Iso Electric focusing - Qty 1 Unit		
1.	System should include multilane isoelectric focusing with Individual Lane control for running different samples, pH Gradients and focussing protocols in a single run.	Yes only if better
2.	System should have user-friendly touch screen interface for easy creation and editing of protocols and setting up the program rapidly.	Yes only if better
3.	System should include dedicated site for online data interpretation for Graphing data, Comparing lanes and generating reports.	Yes only if better
4.	System should include USB Port to export data for storage and analysis. Should come with opaque lid	Yes only if better
5.	System should include run mode flexibility- to run IPG strips gel Side Up, Gel Side Down and with cup loading configuration.	Yes only if better
6.	System should have voltage 0–10,000 V, 1 V increments(50-10000V)	Yes only if better
7.	Current range should be 0–100 μ A per lane, 1 μ A intervals	Yes only if better
8.	Power range of 0–1 W per lane.	Yes only if better
9.	Should come with all required accessories.	No
10.	System should have peltier based cooling platform to avoid use of external chiller units	No
11.	Temperature range should be 10–25°C \pm 1.0°C @ max ambient 23°C 18–25°C \pm 1.0°C @ max ambient 31°C.	Yes only if better
12.	Focusing trays should be made of polycarbonate for contaminant free process.	Yes only if better
13.	System should accommodate IPG strip length 7, 11, 13, 17, 18, and 24 cm.	Yes only if better
14.	System should have display QVGA resolution (320 x 240) touch screen or mouse control	Yes only if better
15.	System should have ramping Step, linear, gradual, and hold voltage ramping for each focusing step. Hold mode as a final step to prevent diffusion when IEF is complete.	Yes only if better
16.	System should have 2GB capacity for storing protocols.	Yes only if better
17.	Data collection should be in .dat format	Yes only if better

18.	System should have following regulatory compliances: Safety EN 61010-1:2001, IEC 61010-1:2001 Use NRTL to test for compliance to UL61010-1:2004 and CAN/CSA C22.2 No. 61010-1-04	Yes only if better
19.	EMC EN61326 (1997 w/A1:98) Class A FCC Code of Federal Regulations, Title 47, Part 15, Subpart B, Class A	Yes only if better
<u>Image analysis 2D Software-Qty 1 Unit</u>		
20.	Automatic Spot Detection & Quantification.	No
21.	Simultaneous analysis of more than 15 gels	No
22.	Automatic matching without manual land marking	Yes only if better
23.	Ability to detect and separate merged, overlapping spots.	Yes only if better
24.	Background removal algorithm for most accurate representation of faint abundance proteins.	Yes only if better
25.	Ruby Gel Filter for noise removal.	Yes only if better
26.	Gel Normalization with total quantity in valid spots or total density in gels or local regression levels	Yes only if better
27.	Gel land marking and automatic spot matching	Yes only if better
28.	Can Export XML data and JPEG file format	Yes only if better
29.	Group consensus feature to review consensus data for individual gels classes or replicate groups	Yes only if better
30.	Unbiased standard deviation formula to calculate coefficient of variation for groups and classes	Yes only if better
31.	Different analysis tool : Spot review tool, Scatter plot tool, Student t-Test, Fold changes, Boolean analysis etc	Yes only if better
32.	Interactive review analysis tool for analysis of sets of gels – <i>Page of Graphs</i> .	Yes only if better
33.	Creates analysis sets which integrate the functioning of spot cutter.	Yes only if better
34.	Can be integrated with data from IMAGING SYSTEM , SPOTCUTTER etc	Yes only if better
35.	Should be GLP/GMP Compliant, and should have facility for future advance upgrade.	No
<u>Gel doc with Chemi Imaging System-Qty 1 Unit</u>		
36.	Should include: darkroom UV transilluminator, epi-white illumination, camera, White light conversion tray, cables, 1D image analysis software	Yes only if better
37.	Applications: Calorimetry/densitometry, chemiluminescence/western blots, Imaging and analysis of DNA/RNA bands, stain-free imaging.	Yes only if better
38.	Stain-free technology to provide total protein normalization as an alternative to normalization with single housekeeping proteins (HKPs).	Yes only if better
39.	Motorizes zoom lens	No
40.	Excitation source - Trans-UV and epi-white are standard (302 nm included)	Yes only if better
41.	Maximum Sample Size : 28 x 36 cm	Yes only if better
42.	Maximum Image Area (For standard UV-excited gels) 25x25 cm	Yes only if better
43.	Detector-Supercooled CCD	Yes only if better
44.	Pixel size (H x V) - 6.45 x 6.45 μ m	Yes only if better
45.	Image Resolution - 4 Megapixels	Yes only if better
46.	Cooling system - Peltier	No

47.	Camera cooling temperature: -30°C controlled	Yes only if better
48.	Filter selector - 3 positions (2 for filters, 1 without filter, for chemiluminescence)	Yes only if better
49.	Dynamic range - >4.0 orders of magnitude	Yes only if better
50.	Precalibrated focus for any zoom setting or sample height	Yes only if better
51.	Image flat fielding - Dynamic; precalibrated and optimized per application	Yes only if better
52.	Autoexposure - 2 user-defined modes (intense or faint bands)	Yes only if better
53.	Operating voltage - 110/115/230 V AC nominal	No
54.	Operating temperature - 10–28°C	Yes only if better
55.	System should be quoted with Stain free gel for 10-15 gel run from same manufacturer.	Yes only if better
2 Accessories, spares and consumables (if any)		
2.1	Availability of spares for next 5 years should be there	
3 Standards, Safety, Warranty and Training (if any)		
3.1	FDA, CE, ISO, UL or BIS certified:	YES
3.2	Comprehensive warranty (Years):	2
3.3	AMC after Warranty (Years):	
3.4	Training for Lab staff:	YES
4 Documentation (if any)		
4.1	Catalogue/Pamphlet/Literature	YES
5 Supply Type (Supply/Installation/Testing/Commissioning)		
5.1	Supply/Installation/Testing	Yes
6 Special Terms & Condition (if any)		

The other terms and condition will remain unchanged except the above.

Sd/-
Purchase Officer
FRI

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