



**INDIAN INSTITUTE OF SCIENCE EDUCATION AND
RESEARCH THIRUVANANTHAPURAM [IISERTVM]**

PH.-0471 2778019,
EMAIL: purchasestores@iisertvm.ac.in

MARUTHAMALA.P.O VITHURA. P.O
THIRUVANANTHAPURAM 695551,
KERALA, INDIA
GST No.32AAAJI0299R1ZS

Date: 23 Dec 2024

CORRIGENDUM-TO TENDER NO

No.: IISER/PUR/1161/KV-P/SB/24-25

Sub: Supply and Installation of Chemiluminescent/ Fluorescent Imaging Gel Documentation System and Electroporator: reg

Ref: CPPP Tender ID 2024_IISRT_838691_1

1. The revised technical specifications are placed at annexure 1 to this tender. The due dates are extended as follows:-

Due Date: 09 Jan 2025 1500 Hrs

Date of opening : 10 Jan 2025 1530 Hrs

3. All other Terms and Conditions remain the same. Bidders may quote accordingly.

Thanking You,

Yours Faithfully

Anwar Sadath
23/12/24

Assistant Registrar (P&S)



Annexure 1

SL No	Specifications	Amended Technical specification
1	The System should be able to image and analyze chemiluminescent western blots, fluorescent western blots, multiplex, western blots, colorimetric western blots, nucleic acid gels, colorimetric protein gets etc	
2	The system should have a smart exposure technology or equivalent feature which rapidly determines optimal exposure time.	
3	It should have high dynamic range (HDR) technology or equivalent feature can help maximize the linear dynamic range of chemiluminescent western blot images when sameple protein have widely varying expression levels.	
4	Onboard acquisition software should have signal accumulation mode to determine the optimal exposure time especially for chemilluminescence blots, single click membrane overlay for chemilluminescence mode to see any visible pre-stained marker on the blot.	
5	It should have a light tight darkroom and motorised sample platform	It should have a light tight darkroom and motorised /Fixed sample platform
6	The system should have a highly sensitive Peltier cooled 16 bit CCD camera with a resolution of 9 MP or above. The lens should be motorised with 0.95 or better. Dynamic range should be 2 - 4 orders of magnitude. Camera should be sensitive enough to detect signals from low intesnity bands and should allow pixel binning from 1 x 1 to 8 x 8.	The system should have a highly sensitive Peltier cooled 16 bit CCD camera with a resolution of 6 MP or above. The lens should be motorised with 0.95 or better. Dynamic range should be 2 - 4 orders of magnitude. Camera should be sensitive enough to detect signals from low intesnity bands and should allow pixel binning from 2x 2 to 8 x 8.
7	Should a standlone system with a large intuitive touch screen (≥12in) interface end internal storage capacity ≥ 250 GB	Should a standlone system with a large intuitive touch screen (≥12in) interface end internal storage capacity ≥ 100 GB
8	It should have a large field of view (≥ 22 x 18cm) to image upto four blots/gels simultaneously.	It should have a large field of view (≥ 21 x 16cm) to image upto four blots/gels simultaneously.
9	The system should be able to perform auto-focus, auto-zoom, auto-alignment of the	The system should be able to perform auto-focus, auto-zoom of



Amrith Sadath
23/11/25

	sample blots / gels.	the sample blots / gels.
10	imaging system should utilize an environment friendly non - UV transilluminator (viz. green LED of 490-520 nm/ for visulazation of nucleic acid gels, white light converter plate to be included.	imaging system should utilize an transilluminator with UV/green LED for visulazation of nucleic acid gels, white light converter plate/Tray to be included.
11	Should have long - life epi-white, epi-LED illumination sources for RGB and near - IR fluorescence.	
12	Should have five or more excitation and emission filter sets housled in a motorzed filter wheel compatible with dyes / stains - EtBr, SYBR Green, SYBR Safe, SYPRO Orange, Coomassie brilliant blue etc. visible fluorophores - Alex Fluor 488 (AF488), AF546, AF633, DyLight488, DyLight633 etc. Near - IR fluorophones - AF647, AF680, AF790, Dyligt 680etc.	Should have five or more excitation and emission filter sets housled in a motorzed filter wheel or individual Multiplex LED'S of Epi-Blue (460-490 nm), Epi-Green (520-545 nm), Epi-Red (625-650 nm), Epi-far red (650-675 nm), Epi-near IR (755-777 nm) to accomodate following dyes stains -EtBr, SYBR Green, SYBR Safe, SYPRO Orange, Coomassie brilliant blue etc. visible fluorophores - Alex Fluor 488 (AF488), AF546, AF633, DyLight488, DyLight633 etc. Near - IR fluorophones - AF647, AF680, AF790, Dyligt 680etc.
13	Should be able to image multiplex western blots upto four fluorophores and also capable of imaging RGB and NIR fluorophores multiplexed onto the same blot.	Should be able to image multiplex western blots upto 3 or more fluorophores and also capable of imaging RGB,NIR blots.
14	system hould have onboard image acquisitio and analysis software.It should be able to capture and save images in TIFF/JPEG/PNG/G2I formats.	system hould have onboard image acquisitio and analysis software. It should be able to capture and save images in TIFF/JPEG/PNG formats.
15	Shoud have user friends anaysis software shuld be able to perform image adjustment, lane and band analysis, molecular weight market overlay, 1D densitometry analysis, relative and absolute quantitation, m=normalization with houts keeping proteins and total lane pretain ets.	
16	The analysis software must have multi-user accessibility or licensing with no additional cost.	
17	System should be able to connect to a WIFI network and could enabled for data transfer	



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	and storage.	
18	Should be a CE certified model.	
19	Add this point	Qualified vendors should provide the onsite demonstration of the quoted model with multiplexing capability including IR applications

Anwar Sadeeq
23/12/25

