Ref: NCB/F-191938/2019-2020 (N)   **Date: January 7, 2020**

Specification for Gel-documentation system

1. The System should be able to image fluorescent DNA, RNA and protein gels, colorimetric gels & blots and colony arrays.
2. The system should have Peltier cooled CCD camera
3. The system should have High resolution scientific grade CCD camera minimum 7 mega pixel resolution or more with minimum 1400x1024 pixel array with data acquisitions.
4. System should have light tight cabinet to provide increased sensitivity to minimize background noise.
5. System should have sample tray should extend out as a drawer, enabling the user to perform band excision.
6. The system should have different mode of operation (standard/programmed)
7. The system should have 16-bit grey scales
8. The system should have Motorized control for Zoom with numerical feedback and software acquisition preset integrated into an intuitive and easy to use interface along with gel alignment templates, aperture & Iris with broad range amber filter and suitable lens.
9. System should have different EPI light illuminations integrated in a light tight darkroom with software controlled illumination to view DNA gels using blue excitable DNA fluorescent stains such as Gel screen, SYBR safe dyes and SYBR Green
10. The system should have UV and white light source. UV illumination source should be 302 nm with minimum 25cm X 25cm Trans- illumination area.
11. The system should have GFP, SYBR Green, and Ethidium bromide filter.
12. The system should have option for automatic and manual exposure.
13. The system should have adjustable manual exposure time.
14. The system should have auto and manual focusing
15. The system should have brightness control.
16. The system should have UV safety shut off door system.
17. The system should be supplied with the analysis software.
18. The system should have option for 3D imaging.
19. The system should have LCD touch screen display.
20. The system should be supplied with suitable PC required for image analysis.
21. The system should have USB port for data logging
22. The system should be able to operate at 230 V /50 Hz
23. The system should be CE/ ISO certified
24. The system should have the warranty for 3 years.
25. The system should be supplied with all accessories required to function.
26. The system should be installed by the trained Engineer and users should be trained on Application, operation and maintenance.
27. The product should be as per CE/IEC guideline and certificate from authorized body should be submitted. No self-declaration will be accepted.

28. Compliance to each of the above points should be separately indicated and evidence presence for each of them (Product brochures should be highlighted wherever required).

29. The service team should be in Bangalore. Contact details of Engineer should be submitted with this offer.
30. The past performance/service support in NCBS/instem/ccamp should be satisfactory and the technical evaluation will be done accordingly.