Equipment	Gel Documentation System along with complete gel electrophoresis system		
name:			
			If compliance
			given, mention
			the page no. of
			your technical
			document where
		Complied	the details are
S.No	Technical specification	(yes or No)	provided.
	Imaging system should have Automatic capabilities with Application driven, user		•
1 5	selected or recalled by a protocol.		
2 5	Should have 100 % repeatability via recallable protocols.		
	System should have pre-calibrated focus for any zoom settings & sample height.		
3			
	Should have appropriate flat fielding correction automatically & consistently		
	applied to image data for every application		
	Versatile system to support wide range of applications like- Fluorescent dye like		
	sybr green, sybr safe, Western blotting, 2-D, 1-D, Dot Blotting, Nucleic acid		
	detection, Quantitation etc.		
	System should take maximum Sample image size 28 X 36 cm.		
	System should have precalibrated & optimized dynamic image flat fielding		
	It should universal dark hood & upgradeable to chemilumnescence.		
	Should have motorized zoom lens with auto exposure feature for imaging both		
	intense and faint bands.		
	Reproducibly position or center the sample on the image platen by using gel		
	alignment templates.		
	Should come with 1 D analysis software with following features and preferably		
	multiple licenses.		
	Single mouse click from image capture to results and reports, very fast and		
	efficient.		
	Should have comprehensive automated quantitative analysis of proteins & DNA		
	samples in seconds.		
	Intuitive and well organized (efficient) selection of workflows based on		
	applications		
	Should calculate precisely continuous focus curves that are consistently and automatically applied for every zoom position and sample height. No user		
	intervention for focusing. All calculations are done at setup, once and for all		
	image captures		
	Should carry licensed one copy of Software for imaging and analyzing 1-D		
	electrophoretic gels,dot blots, slot blots, and colony counts. Software should		
	quantitate and analyze a variety of data.		
	Should be able to image stain free gels and blots with software having stain		
	free normalization function.		
	Specifications for the Power Pack for electrophoresis Apparatus		
	Output specifications 20-5000 V, 0.01-500mA, 1-400W		
	Output range (programmable) 5-250 V, fully adjustable in 1 V increments		
	fully adjustable in 1W increments		
	Type of output Constant voltage, current, or power with automatic crossover		
	Output terminals 4 pair recessed banana jacks in parallel		
	With Pause/resume function.		
	Specifications Large Format SDS-PAGE electrophoresis Apparatus:		
I	Runs 1-2 gels of size not less than 16 x 16 cm to perform SDS-PAGE and the	· · · · · · · · · · · · · · · · · · ·	
	second dimension 2-D using IPG		
	Accommodate 11 cm IPG Strips		
	The casting stand with single screw clamp to exert even pressure along the entire		
	length of the glass plates, providing a leak-proof seal without grease or agarose		
	plugs		
	System must come with central cooling core to connect via recirculation ports to		
	ap water or a cooled recirculation bath, or filled with coolant to act as a heat sink,		
28 լ	providing smile-free patterns with as little as 1.5 L buffer		

		<u> </u>
20	System must be quoted with four sets of spacers, glass plates both inner and outer	
29	and also combs	
	Small format SDS-PAGE Electrophoresis Apparatus.	
20	System should run 2 mini gels of 8.5 x 6.7 of precast and 8.2 x7.2 of handcast	
	simultaneously in less than hour.	
31	Should be compatible with both pre-cast and hand cast gels.	
	System should come with casting stand and casting frames with clamp closer for	
	precision alignment and casting and with all hand casting accessories required.	
32		
22	System should come with glass plates with permanently bonded Spacers for leak	
33	free casting.	
	System should have sample loading guide to prevent skipped or repeated loading	
	lanes.	
35	Total Buffer volume 700 ml	
36	Glass plate 10.1 x 8.2, 10.1x7.3 cm	
27	Option of up gradation to four gel system	
5/		
	Specifications for Horizontal Gel electrophoresis for Mini Gel:	
	The apparatus should be able to resolve 30 samples.	
39	The small DNA fragments to be separated in as little at 150V.	
	The Mini cells resolve Eco RI or Hind III digests of lambda DNA in only 1.5	
40	hours at 60 V.	
41	The electrodes to be easy to remove and clean	
41	The electrodes to be color coded and labeled base guarantee correct positioning	
42	of the lid on the base.	
12	The direction of the run to be guided by the arrow mark and ensures for proper	
43	orientation of gel.	
	The cell size (W X L X H) 9.2 X 25.5 X 5.6 cm	
	The Gel tray sizes to be 7 x7 cm and 7 x 10 cm	
	The base buffer volume to be 270ml	
47	The bromophenol blue migration to be around 4.5 cm/hr at 75 V.	
	Double booster stabiliser should be supplied along with equipment	
	Computer with suitable UPS (for approx. 20 minutes back up) with following	
49	configuration should be supplied with the equipment	
50	I. Processor –Intel core i7-8 th gen or equivalent	
51	II. OS-windows 10 professional pre installed	
52	III. 16 GB RAM	
53	IV. 1 TB hard Disk	
54	V. 21inch LED monitor with HDMI port	
55	VI. Suitable NVIDIA/AMD graphic card for image processing	
56	VII. HDMI display port	
57	VIII. 1 Gig Ethernet port	
58	IX. 802.11ac 2.4/5 GHz wireless adaptor	
59	X. Warranty 2 years	
	Others:	
	Voltage and plugs adopted to meet Indian conditions	
	The manufacturer must have the management system certified by ISO9001	
62	Certificate should be provided that the instrument was calibrated at the factory	
	All standard accessories and consumables and part require to operate to be	
63	included in the offer.	
	Warranty & Service: The equipment should be supplied with 1 year warranty 2 year	
C 4	comprehensive annual maintenance contract (include spares and service visit) and 2 year	
64	Annual maintenance contract (only service visit). Immediate response upon system failure should be guaranteed. Response to	
65	service calls should happen within 48 hours.	
05	sorvice cans should happen within 40 hours.	<u> </u>

	The unit must be quoted by Original Equipment Manufacturer's with Sales and	
	service support facilities in India through their branch office / Indian Agent (or)	
	Indian agent with extensive sales (Minimum 5 years) and service support in India	
	representing foreign principals / Original Equipment manufacturers. The Indian	
	agency / dealership certificate with details of sales and service support should be	
66	enclosed with the technical bid.	
	The firm should provide necessary original documentary evidence of the features	
	of the offered model in the technical bid to facilitate proper technical evaluation.	
67		
	Purchase orders, contact details and user satisfactory reports of the quoted model	
	from Nationalized or reputed laboratories all over the India must be shared with	
68	quotation.	
	Complete installation and testing the main system and the accessories to their	
	specifications done at the site of installation free of cost. All utility requirements	
69	for installation and running the system should be mentioned in the offer.	
	Please indicate the year in which the model offered was introduced into the	
	market and confirm whether the spares for the system would be available for a	
	minimum period of 10 years and shall not be obsolete within five years of	
70	procurement.	
71	Special discount on list price for all spare parts must be given up to 10 years.	
	Availability of local service support and response time for a service call during	
72	and after warranty specified.	
	Technical specification are intended to be descriptive only and not restrictive. The	
	bidder may substitute alternative standards, brand names and/or catalogue	
	numbers in its bid, provided that it demonstrates to the purchaser's satisfaction	
	that the substitutions ensure substantial equivalence or superior to those	
73	designated in the "Technical Specifications	
	Certificate should be provided that the instrument was calibrated at the factory	
	All standard accessories and consumables and part require to operate to be	
75	included in the offer.	