

S.No	Technical specification for Bioplex luminex platform (Magpix IVD)	Complied (yes or No)	If compliance given, mention the page no. of your technical document where the details are provided.
1	1. Specifications for a fluorescent based multi panel Antibody array magpix for identifies antibodies of the immunoglobulin class G (IgG), which are a crucial component of an adaptive immune response, can help in study of Phosphokinases, Protein, Chemokines, Cytokines, Multiple secreted proteins and have been invaluable for the comprehensive study of biological systems and genomics of RNA based assay. The reader should be capable of multi-antigen Ig-G Assay diagnostics test. (Bioplex luminex platform (Magpix IVD))		
2	Approximately 106 copies of DNA or single-digit picogram levels of proteins Detect \leq 700 fluorochromes phycoerythrin (PE) per micro spheroids		
3	Minimum reporter channel dynamic range: 3 decades of detection Typical Dynamic Range: \geq 3.5 decades of detection Reporter / Classification A/D resolution 16 bits Focus Lens: 5x magnification		
4	Capability with additional off plate reagent area Plate Piercing needle capability Autoadjusting probe capability. Sample uptake volume $<$ 20uL Internal/removable drive bottle and waste bottle.		
5	Sample uptake volume \pm 5%, Classification of micro spheroids $>$ 80% Misclassification of micro spheroids \leq 2% Distinguishes unique micro spheroids in a single sample Temperature control \pm 1°C of target Sample carryover \leq 4% Soluble background fluorescence emissions at 590 nm \pm 24 nm automatically subtracted from fluorescence intensity value		

6	Drive and waste bottles hold enough volume to run up to eight 96-well plates between refills Detect and distinguish surface reporter fluorescence emissions at 590 nm ± 24 nm on the surface of 1-50 unique micro spheroids sets in a single sample		
7	Latest software for self-test, batch run, instrument control, performance validation, and exporting the result in .csv or .pdf files.		
	Specifications for the accessory equipment automated magnetic bead plate washer:		
8	Capable of washing 96 and 384 well Low profile and standard height Solid and filter bottom plates.		
9	On board software of the instrument is capable of Create, edit or run multiple protocols		
10	Instrument must able to carry out biomagnetic separation and vacuum filtration of the plates		
11	Instrument will have programmable shaking function with the provision that user can fix in speed and time of the shaking.		
12	Instrument should have programmable soaking function		
13	Instrument could able to detect the clog in the wells		
14	Volume range of the washer will be 25 to 3000 µL/well		
15	Washing cycle are programmable from 1 cycle to up to 250 cycles		
16	Instrument capable of auto switching (internal) for up to 4 buffers		
17	Dispense precision of the instrument should be 3% CV: for 300 µL/well (96-well washing) and <4% CV for 80 µL/well (384-well washing).		
18	Residual volume in the washing should be ≤ 2 µL/well (96- & 384-well plates).		
20	Instrument should have optimised pre set flow rates for the cell assays		
21	Instrument should be compactable with chemical sterilisation for pathogen handling		
22	Vacuum filtration function should be Selectable and Approximate final at 30 seconds		
23	Vacuum filtration time range can be set from 5 to 999 seconds		

24	Vacuum filtration function of the instrument should have following settings Lowest:(38 mmHg), Low (113 mmHg), Medium (200 mmHg), High (390 mmHg), Highest (506 mmHg).		
25	Wash speed of the instrument should be in the following range For 96-wells plates for dispensing 300 µL/well and for 3 cycles;<30 seconds For 384-wells plates for dispensing 100 µL/well and for 3 cycles: <80 seconds. For 384-wells plates for dispensing 400 µL/well and for 1 cycle:<20 seconds.		
26	Equipment should be supplied with suitable UPS capable of providing 30 minutes backup for instrument as well as computer controlling the instrument.		
27	To maintain the dust free environment, equipment should be supplied with air purifier as well as de humidifier.		
28	One additional computer should be supplied for analysis of the data		
29	One starter kit reagents sufficient for doing 2 runs (176 samples) should be supplied along with the instruments		
30	Furniture to accommodate the instrument should be provided by the supplier		
31	Training for the instrument operation for the users should be carried out by the supplier (consumables and other required items for training should be supplied by the vendor)		
32	Warranty & Service: The main equipment and accessory instrument should be supplied with 1 year warranty, 2 year comprehensive annual maintenance contract (include spares and service visit) and 2 year Annual maintenance contract (only service visit). Immediate response upon system failure should be guaranteed. Response to service calls should happen within 48 hours.		
33	In the price bid, the total price should cover the cost of the main instrument as well as all the accessory items cost, and it has to be quoted in single currency (INR or foreign currency).		
34	Voltage and plugs adopted to meet Indian conditions		
35	The manufacturer must have the management system certified by ISO9001		
36	Certificate should be provided that the instrument was calibrated at the factory		

37	All standard accessories and consumables and part require to operate to be included in the offer.		
38	Warranty & Service: The equipment should be supplied with 1 year warranty, 2 year comprehensive annual maintenance contract (include spares and service visit) and 2 year Annual maintenance contract (only service visit). Immediate response upon system failure should be guaranteed. Response to service calls should happen within 48 hours.		
39	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 enclosed with the technical bid.		
40	The firm should provide necessary original documentary evidence of the features of the offered model in the technical bid to facilitate proper technical evaluation.		
41	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 quotation.		
42	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 for installation and running the system should be mentioned in the offer.		
43	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 procurement.		
44	Special discount on list price for all spare parts must be given up to 10 years.		
45	Availability of local service support and response time for a service call during and after warranty specified.		

46	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 designated in the "Technical Specifications		
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