



# All India Institute of Medical Sciences Jodhpur

Admn/Prop/40/2023-AIIMS.JDH

Dated: 08<sup>th</sup> December 2023

**Subject:** Purchase of Quidel Ortho Vitros 5600 Integrated System Dry Chemistry and Immunoassay with consumable with pre and post analytical system on Reagent Rental Basis for the department of Biochemistry at AIIMS, Jodhpur on proprietary basis - **Inviting comments thereon.**

The Institute is in the purchase of Quidel Ortho Vitros 5600 Integrated System Dry Chemistry and Immunoassay with consumable with pre and post analytical system on Reagent Rental Basis for the department of Biochemistry at AIIMS, Jodhpur from M/s Ortho Clinical Diagnostics, 100 Indigo Creek Drive, Rochester, NY 14626 on proprietary basis. The proposal submitted by M/s Ortho Clinical Diagnostics, NY and PAC certification by user are attached.

The above documents are being uploaded for open information to submit objection, comments, if any from any manufacturer regarding proprietary nature of the equipment within 21 days of issue giving reference Admn/Prop/40/2023-AIIMS.JDH. The comments should be received by office of Deputy Director (Admin), Medical College at AIIMS, Jodhpur on or before 29<sup>th</sup> December 2023 upto 03:00 PM failing which it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.

**Yours faithfully,**

**Deputy Director (Admin)**

**Enclosed: Related documents enclosed.**



**Ortho Clinical Diagnostics**

To Whom So Ever It May Concern

Date: 04 March 2022

**Proprietary Certificate**

This is to certify that the below mentioned item is proprietary item of Ortho-Clinical Diagnostics Inc., USA. Below listed product is imported by Ortho Clinical Diagnostics India Private Limited to market and supply it throughout India.

Product Code	Product Description
6802413	VITROS® 5600 Integrated System

VITROS® 5600 Integrated System offers five proprietary technologies:

- VITROS® MicroSlide Technology** offers an entire integrated test environment on a thin piece of film. Spreading, masking, scavenger, and reagent layers are discretely combined on one postage-stamp-sized slide to produce first-class precision and accuracy. When plasma, serum, urine, or cerebrospinal fluid come into contact with these dry chemical layers, a spectral reaction occurs, which can be measured by the system. This layered dry slide technology enables separate reaction domains—maximizing each step for exceptional assay performance.
- VITROS® MicroTip Technology** utilizes single-use disposable tips and closed reagent packs to eliminate the risk of sample carryover and reagent-to-reagent contamination, and to extend onboard reagent stability. It requires no drains, plumbing, fixed probes, or mixing assemblies to perform therapeutic and abused drug testing, specific proteins, and user-defined applications.
- VITROS® MicroWell Technology**, which maximizes binding capacities with a unique coating process. Enhanced Chemiluminesce Detection Technology is a component of MicroWell Technology that provides wide dynamic ranges and exceptional immunoassay precision and accuracy across multiple disease states.

Ortho Clinical Diagnostics | 100 Indigo Creek Drive, Rochester, NY 14626

*[Handwritten signatures]*



## Ortho Clinical Diagnostics

4. **VITROS® Microsensor Technology**, which utilizes the VITROS MicroSensor™ system to perform automated semi-quantitative sample quality index determinations on serum, plasma, and cerebrospinal fluid samples. The MicroSensor™ feature is intended to assist laboratory personnel in assessing the suitability of a patient sample for use on the VITROS 5600 Integrated System. The optical absorbance from 400-800 nm is automatically read and recorded for each sample. Multi-variant analysis of the spectral data provides estimates of the hemolysis, icterus, and turbidity indices in the sample.
5. **VITROS® Intellicheck® Technology**, which is Integrated Process Control, and offers unique technologies that perform, monitor, and verify diagnostic checks throughout sample processing, assay processing, and reporting results. IntelliReport™, a component of Intellicheck® Technology, reports real-time status of every result, assures the integrity of every result, and serves as an important record for result quality.

Ana Parra  
(APARRA)

Digitally signed by  
Ana Parra (APARRA)  
Reason: I am  
approving this  
document  
Date: 2022.03.04  
16:15:46 Z

Ana Parra  
Associate, International Regulatory Affairs

4-March-2022  
Date

Ortho-Clinical Diagnostics, Inc.  
100 Indigo Creek Drive  
Rochester, NY 14626

Ortho Clinical Diagnostics | 100 Indigo Creek Drive, Rochester, NY 14626



# All India Institute of Medical Sciences Jodhpur

Ortho Clinical Diagnostics  
Because Every Test Is A Life™

Date: 10 July 2023

## Proprietary Certificate

TO WHOMSOEVER IT MAY CONCERN

Ortho Clinical Diagnostics, Inc., USA is a legal manufacturer of clinical diagnostics equipment VITROS ECi/ECiQ Immunodiagnostic System/ VITROS 3600 Immunodiagnostic System/ VITROS 5600 Integrated System/ VITROS XT 7600 Integrated System & is proprietary product of Ortho-Clinical Diagnostics, Inc., USA and is exclusively marketed in India by Ortho Clinical Diagnostics India Pvt. Ltd. having its Registered office at 403, Leela Business Park, Andheri Kurla Road, Andheri East, Mumbai -400059, India.

Below products are proprietary product of Ortho Clinical Diagnostics with manufacturer Ortho Clinical Diagnostics, UK or Ortho Clinical Diagnostics, USA (indicated by \*) and can only be used on VITROS ECi/ECiQ Immunodiagnostic System/ VITROS 3600 Immunodiagnostic System/ VITROS 5600 Integrated System/ VITROS XT 7600 Integrated System & no other products can be used on these instrument systems.

Sr. No.	Product Code	Product Description	Pack Size
<b>Reagents</b>			
1	6199922	VITROS Immunodiagnostic Products Anti-SARS-CoV-2 Total Reagent Pack	100 wells
2	6199919	VITROS Immunodiagnostic Products Anti-SARS-CoV-2 IgG Reagent Pack	100 wells
3	6905558	VITROS Immunodiagnostic Products B•R•A•H•M•S PCT Reagent Pack	100 wells
4	6844436	VITROS Immunodiagnostic Products hs Troponin I Reagent Pack	100 Tests
5	1453489	VITROS Immunodiagnostic Products B12 Reagent Pack	100 wells
6	1142561	VITROS Immunodiagnostic Products B12/Folate Reagent Pack 3	200 wells
7	8356636	VITROS Immunodiagnostic Products Ferritin Reagent Pack	100 wells
8	1513266	VITROS Immunodiagnostic Products Folate Reagent Pack	100 wells
9	1896836	VITROS Immunodiagnostic Products CK-MB Reagent Pack	100 wells
10	6801042	VITROS Immunodiagnostic Products Myoglobin Reagent Pack	100 wells
11	6802301	VITROS Immunodiagnostic Products Troponin I ES Reagent Pack	100 wells
12	6801827	VITROS Immunodiagnostic Products CMV IgG Reagent Pack	100 wells
13	6801830	VITROS Immunodiagnostic Products CMV IgM Reagent Pack	100 wells

Pencoed, Bridgend, CF35 5PZ United Kingdom  
orthoclinicaldiagnostics.com

*[Handwritten signature]*

*[Handwritten signature]*



# All India Institute of Medical Sciences Jodhpur

Ortho Clinical Diagnostics  
Because Every Test Is A Life

Sr. No.	Product Code	Product Description	Pack Size
14	1074053	VITROS Immunodiagnostic Products Cortisol Reagent Pack	100 wells
15	1315589	VITROS Immunodiagnostic Products Free T3 Reagent Pack	100 wells
16	1387000	VITROS Immunodiagnostic Products Free T4 Reagent Pack	100 wells
17	8450124	VITROS Immunodiagnostic Products Anti-HAV IgM Reagent Pack	100 Tests
18	6801461	VITROS Immunodiagnostic Products Anti-HAV Total Reagent Pack	100 Tests
19	6802892	VITROS Immunodiagnostic Products Intact PTH Reagent Pack	100 wells
20	6802156	VITROS Immunodiagnostic Products NT-proBNP Reagent Pack	100 wells
21	6800030	VITROS Immunodiagnostic Products NTx Reagent Pack	100 wells
22	1920115	VITROS Immunodiagnostic Products CEA Reagent Pack	100 Wells
23	6800038	VITROS Immunodiagnostic Products CA 125 II Reagent Pack	100 wells
24	6800039	VITROS Immunodiagnostic Products CA 15-3 Reagent Pack	100 wells
25	6800040	VITROS Immunodiagnostic Products CA 19-9 Reagent Pack	100 Wells
26	6842845	VITROS Immunodiagnostic Products Free PSA Reagent Pack	100 wells
27	6842844	VITROS Immunodiagnostic Products Total PSA II Reagent Pack	100 wells
28	1925551	VITROS Immunodiagnostic Products AFP Reagent Pack	100 wells
29	8552630	VITROS Immunodiagnostic Products Estradiol Reagent Pack	100 wells
30	1931922	VITROS Immunodiagnostic Products FSH Reagent Pack	100 wells
31	1350198	VITROS Immunodiagnostic Products LH Reagent Pack	100 wells
32	1938570	VITROS Immunodiagnostic Products Progesterone Reagent Pack	100 wells
33	1849793	VITROS Immunodiagnostic Products Prolactin Reagent Pack	100 wells
34	1435205	VITROS Immunodiagnostic Products Testosterone Reagent Pack	100 wells
35	6802220	VITROS Immunodiagnostic Products Total $\beta$ -hCG II Reagent Pack	100 wells
36	1484427	VITROS Immunodiagnostic Products Rubella IgM Reagent Pack	100 wells

Pencosed, Bridgend, CF35 5PZ United Kingdom  
orthoclinicaldiagnostics.com

*Handwritten signatures and initials in blue ink.*



# All India Institute of Medical Sciences Jodhpur

Ortho Clinical Diagnostics  
Because Every Test Is A Life

Sr. No.	Product Code	Product Description	Pack Size
37	8536195	VITROS Immunodiagnostic Products Rubella IgG Reagent Pack	100 wells
38	6842803	VITROS Immunodiagnostic Products Syphilis TPA Reagent Pack	100 wells
39	1322528	VITROS Immunodiagnostic Products Total T3 Reagent Pack	100 wells
40	8744468	VITROS Immunodiagnostic Products Total T4 Reagent Pack	100 wells
41	1912997	VITROS Immunodiagnostic Products TSH Reagent Pack	100 wells
42	8091399	VITROS Immunodiagnostic Products Toxoplasma IgG Reagent Pack	100 wells
43	8669335	VITROS Immunodiagnostic Products Toxoplasma IgM Reagent Pack	100 wells
44	6842894	VITROS Immunodiagnostic Products 25-OH Vitamin D Reagent Pack	100 wells
45	1471481	VITROS Immunodiagnostic Products T3 Uptake Reagent Pack	100 Tests
46	1107804	VITROS Immunodiagnostic Products Red Cell Folate Pack	50 Tests
47	6844411	VITROS Immunodiagnostic Products NephroCheck Test Reagent Pack	100 Tests
48	6844425	VITROS Immunodiagnostic Products Insulin Reagent Pack	100 Tests
49	8496812	VITROS Immunodiagnostic Products Anti-HBc Reagent Pack	100 wells
50	8577413	VITROS Immunodiagnostic Products Anti-HBc IgM Reagent Pack	100 wells
51	8864860	VITROS Immunodiagnostic Products Anti-HBe Reagent Pack	100 wells
52	8211880	VITROS Immunodiagnostic Products HBeAg Reagent Pack	100 wells
53	1787753	VITROS Immunodiagnostic Products Anti-HBs Reagent Pack	100 wells
54	6802131	VITROS Immunodiagnostic Products HBsAg ES Reagent Pack	100 Tests
55	6802133	VITROS Immunodiagnostic Products HBsAg ES Confirmatory Kit	100 wells
56	1318450	VITROS Immunodiagnostic Products Anti-HCV Reagent Pack	100 wells
57	1241850	VITROS Immunodiagnostic Products Anti-HIV 1 + 2 Reagent Pack	100 Tests
58	6842779	VITROS Immunodiagnostic Products HIV Combo Reagent Pack	100 wells

Pencood, Bridgend, CF35 5PZ United Kingdom  
orthoclinicaldiagnostics.com

*[Handwritten signature]*

*[Handwritten signature]*

*[Handwritten signature]*



# All India Institute of Medical Sciences Jodhpur

Ortho Clinical Diagnostics  
Because Every Test Is A Life

Sr. No.	Product Code	Product Description	Pack Size
59	6844423	VITROS Immunodiagnostic Products C-peptide Reagent Pack	100 Tests
60	6844452	VITROS Immunodiagnostic Products NT-proBNP II Reagent Pack	100 Tests
61	6900446	VITROS Immunodiagnostic Products Anti-HTLV I/II Reagent Pack	100 Test
62	6199971	VITROS Immunodiagnostic Products IL 6 Reagent	100 Test
<b>Calibrator</b>			
Sr. No.	Product Code	Product Description	Pack Size
63	6199923	VITROS Immunodiagnostic Products Anti-SARS-CoV-2 Total Calibrator	2 x 1ml
64	6199920	VITROS Immunodiagnostic Products Anti-SARS-CoV-2 IgG Calibrator	2 x 1ml
65	6905559	VITROS Immunodiagnostic Products B•R•A•H•M•S PCT Calibrators	2 levels/1 ml vials
66	6844437	VITROS Immunodiagnostic Products hs Troponin I Calibrator	3 vials (1 per level)
67	1540525	VITROS Immunodiagnostic Products B12 Calibrators	3 levels/1set
68	1158864	VITROS Immunodiagnostic Products Ferritin Calibrators	3 levels/3 sets freeze dried
69	1311075	VITROS Immunodiagnostic Products Folate Calibrators	3 levels/1set Liquid
70	1286293	VITROS Immunodiagnostic Products CK-MB Calibrators	3 levels/3 sets freeze dried
71	6801043	VITROS Immunodiagnostic Products Myoglobin Calibrators	3 levels/1set
72	6802302	VITROS Immunodiagnostic Products Troponin I ES Calibrators	3levels/1set
73	619 9923	VITROS Immunodiagnostic Products Anti-SARS-CoV-2 Total Calibrator	1 Box- 2x 1 ml
74	619 9920	VITROS Immunodiagnostic Products Anti-SARS-CoV-2 IgG Calibrator	1 Box- 2x 1 ml
75	6801828	VITROS Immunodiagnostic Products CMV IgG Calibrators	2 levels, 1 vial each
76	6801831	VITROS Immunodiagnostic Products CMV IgM Calibrator	1 level
77	1681543	VITROS Immunodiagnostic Products Cortisol Calibrators	3 levels/3 sets freeze dried
78	1112820	VITROS Immunodiagnostic Products Free T3 Calibrators	3 levels/3 sets freeze dried

Pencosed, Bridgend, CF35 5PZ United Kingdom  
orthoclinicaldiagnostics.com

*[Handwritten signature]*

*[Handwritten signature]*



# All India Institute of Medical Sciences Jodhpur

Ortho Clinical Diagnostics  
Because Every Test Is A Life™

Sr. No.	Product Code	Product Description	Pack Size
79	1728872	VITROS Immunodiagnostic Products Free T4 Calibrators	3 levels/3 sets freeze dried
80	1372101	VITROS Immunodiagnostic Products Anti-HAV IgM Calibrator	1 level/1 set liquid
81	1421932	VITROS Immunodiagnostic Products HBsAg Calibrators	1 level/ 1 set
82	6801462	VITROS Immunodiagnostic Products Anti-HAV Total Calibrator	1 vial
83	6802893	VITROS Immunodiagnostic Products Intact PTH Calibrators	3 levels/1 set
84	6802157	VITROS Immunodiagnostic Products NT-proBNP Calibrators	3 levels/1 set
85	6800031	VITROS Immunodiagnostic Products NTx Calibrators	3levels/1 set Liquid
86	6800034	VITROS Immunodiagnostic Products CA 125 II Calibrators	3levels/1 set Liquid
87	6800033	VITROS Immunodiagnostic Products CA 15-3 Calibrators	3 levels/1 set Liquid
88	6800035	VITROS Immunodiagnostic Products CA 19-9 Calibrators	3 levels/1 set Liquid
89	1062306	VITROS Immunodiagnostic Products CEA Calibrators	3 levels/1 set Liquid
90	6842847	VITROS Immunodiagnostic Products Free PSA Calibrators	3 levels/1 set Liquid
91	6842849	VITROS Immunodiagnostic Products Total PSA II Calibrators	3 levels/1 set Liquid
92	1515154	VITROS Immunodiagnostic Products AFP Calibrators	3 levels/1 set liquid
93	1318930	VITROS Immunodiagnostic Products Estradiol Calibrators	3 levels/1 set freeze dried
94	1901263	VITROS Immunodiagnostic Products FSH Calibrators	2 levels/1 set liquid
95	1090133	VITROS Immunodiagnostic Products LH Calibrators	2 levels/1 set liquid
96	8254898	VITROS Immunodiagnostic Products Progesterone Calibrators	3 sets of 3 Calibrators
97	1113596	VITROS Immunodiagnostic Products Prolactin Calibrators	2 levels/3 sets freeze dried
98	1306026	VITROS Immunodiagnostic Products Testosterone Calibrators	3 levels/1set liquid
99	6802221	VITROS Immunodiagnostic Products Total $\beta$ -hCG II Calibrators	2 levels/3 sets freeze dried
100	8017600	VITROS Immunodiagnostic Products Rubella IgM Calibrator	1 level

Pencoed, Bridgend, CF35 5PZ United Kingdom  
orthoclinicaldiagnostics.com

*Asso*

*82*

*25/12/20*





# All India Institute of Medical Sciences Jodhpur

Ortho Clinical Diagnostics  
Because Every Test Is A Life

Sr. No.	Product Code	Product Description	Pack Size
101	8209074	VITROS Immunodiagnostic Products Rubella IgG Calibrators	3 levels, 1 vial each
102	6842804	VITROS Immunodiagnostic Products Syphilis TPA Calibrator	1 level/ 1 set
103	1614965	VITROS Immunodiagnostic Products Total T3 Calibrators	3 levels/1 set liquid
104	1393396	VITROS Immunodiagnostic Products Total T4 Calibrators	3 levels/1 set liquid
105	1487289	VITROS Immunodiagnostic Products TSH Calibrators	3 levels/1 set liquid
106	8254989	VITROS Immunodiagnostic Products Progesterone Calibrators	2levels/1set liquid
107	1893312	VITROS Immunodiagnostic Products Toxoplasma IgG Calibrators	2 levels, 1 vial each
107	1120492	VITROS Immunodiagnostic Products Toxoplasma IgM Calibrator	1 level
109	6842893	VITROS Immunodiagnostic Products 25-OH Vitamin D Calibrators	3 levels/1 set
110	1209733	VITROS Immunodiagnostic Products T3 Uptake Calibrators	3 sets of each of 2 vials
111	6844412	VITROS Immunodiagnostic Products NephroCheck Test Calibrator	9 vials (3 per level)
112	6844426	VITROS Immunodiagnostic Products Insulin Calibrator	3 vials (1 per level)
113	1256494	VITROS Immunodiagnostic Products Anti-HBc Calibrator	1 level/1 set liquid
114	1100387	VITROS Immunodiagnostic Products Anti-HBc IgM Calibrator	1 level/1 set liquid
115	1523984	VITROS Immunodiagnostic Products Anti-HBe Calibrator	3 levels/3 sets liquid
116	1914498	VITROS Immunodiagnostic Products HBeAg Calibrator	3 levels/3 sets liquid
117	1524693	VITROS Immunodiagnostic Products Anti-HBs Calibrators	3 vials (1 per level)
118	6802132	VITROS Immunodiagnostic Products HBsAg ES Calibrator	1 vial
119	1940667	VITROS Immunodiagnostic Products Anti-HCV Calibrator	1 level/ 1 set
120	1700863	VITROS Immunodiagnostic Products Anti-HIV 1 + 2 Calibrator	1 vial
121	6842780	VITROS Immunodiagnostic Products HIV Combo Calibrator	1 vial

Penceed, Bridgend, CF35 5PZ United Kingdom  
orthoclinicaldiagnostics.com

*Handwritten signatures and initials in blue ink.*



# All India Institute of Medical Sciences Jodhpur

Ortho Clinical Diagnostics  
Because Every Test Is A Life®

Sr. No.	Product Code	Product Description	Pack Size
122	6844424	VITROS Immunodiagnostic Products C-peptide Calibrators	9 vials (3 per level)
123	6844453	VITROS Immunodiagnostic Products NT-proBNP II Calibrators	3 vials (1 per level)
124	6900448	VITROS Immunodiagnostic Products Anti-HTLV I/II Calibrator	1 vial (1 per level)
125	6199972	VITROS Immunodiagnostic Products VITROS IL-6 Calibrator	2 levels/ 3 sets
<b>Controls</b>			
Sr. No.	Product Code	Product Description	Pack Size
126	6199924	VITROS Immunodiagnostic Products Anti-SARS-CoV-2 Total Controls	1 Box-3x2 X 2 ml
127	6199921	VITROS Immunodiagnostic Products Anti-SARS-CoV-2 IgG Controls	1 Box-3x2 X2 ml
128	6905560	VITROS Immunodiagnostic Products B•R•A•H•M•S PCT Controls	3 levels / 1 ml vials
129	6900040	VITROS Immunodiagnostic Products hs Troponin I Low Control	3 vials
130	1619360	VITROS Immunodiagnostic Products Anemia Controls	3 Sets/ Pack
131	1420025	VITROS Immunodiagnostic Products Metabolism Controls	3 Sets/ Pack
132	1315654	VITROS Immunodiagnostic Products Free Thyroid Controls	3 Sets/ Pack
133	6800835	VITROS Immunodiagnostic Products Anti-HAV IgM Controls	3 Sets/ Pack
134	6801463	VITROS Immunodiagnostic Products Anti-HAV Total Controls	3 Sets/ Pack
135	6802895	VITROS Immunodiagnostic Products Intact PTH Controls	3 Sets/ Pack
136	6800336	VITROS Immunodiagnostic Products NTx Controls	3 Sets/ Pack
137	1009406	VITROS Immunodiagnostic Products RE Controls	3 Sets/ Pack
138	6800660	VITROS Immunodiagnostic Products Testosterone Controls	3 Sets/ Pack
139	6842805	VITROS Immunodiagnostic Products Syphilis TPA Controls	3 sets of 2 vials/ Pack
140	1410646	VITROS Immunodiagnostic Products Total Thyroid Controls	3 Sets/ Pack
141	6844413	VITROS Immunodiagnostic Products NephroCheck Test Controls	3 sets of freeze-dried Controls 1, 2, and 3

Pencoed, Bridgend, CF35 5PZ United Kingdom  
orthoclinicaldiagnostics.com

*Qureshi*

*82*

*My Dear*



# All India Institute of Medical Sciences Jodhpur

Ortho Clinical Diagnostics  
Because Every Test Is A Life®

Sr. No.	Product Code	Product Description	Pack Size
142	6800836	VITROS Immunodiagnostic Products Anti-HBc Controls	3 Sets/ Pack
143	6800834	VITROS Immunodiagnostic Products Anti-HBc IgM Controls	3 Sets/ Pack
144	6800837	VITROS Immunodiagnostic Products Anti HBe Controls	3 Sets/ Pack
145	6800389	VITROS Immunodiagnostic Products Anti-HBs Controls	3 Sets/ Pack
146	6800598	VITROS Immunodiagnostic Products HBsAg Controls	2 levels/ 3 sets
147	6800731	VITROS Immunodiagnostic Products Anti-HCV Controls	2 levels/ 3 sets
148	6800586	VITROS Immunodiagnostic Products Anti-HIV 1 + 2 Controls	3 levels/ 3 sets
149	6844507	VITROS Immunodiagnostic Products NT-proBNP II Control	3 vials
150	6842905	VITROS Immunodiagnostic Products Syphilis TPA Control	2 levels
151*	91474	Liquid QC Cardiac Marker Control VS	2 X 3 X 3 ml
152*	10820	Tumor marker control	Control level 1 - 3 X 3 ml Control level 2 - 3 X 3 ml (Control Level 3 X 3 ml)
153	6900449	VITROS Immunodiagnostic Products Anti-HTLV I/II Controls	3 sets of each control
154	6199973	VITROS IL-6 Controls	2 levels/ 3 sets

*Handwritten signatures and initials in blue ink.*

Pencosed, Bridgend, CF35 5PZ United Kingdom  
orthoclinicaldiagnostics.com



# All India Institute of Medical Sciences Jodhpur

Ortho Clinical Diagnostics  
Because Every Test Is A Life™

Consumables			
155	1072693	VITROS Immunodiagnostic Products Signal Reagent	2 x 200 T
156	8389793	VITROS Immunodiagnostic Products Universal Wash Reagent	2 x 5 L
157	1831312	VITROS Immunodiagnostic Products Maintenance Pack	2 Packs
158	8430373	VITROS Immunodiagnostic Products High Sample Diluent A Reagent Pack	100 wells
159	8321200	VITROS Immunodiagnostic Products High Sample Diluent B Reagent Pack	100 wells
160	8642712	VITROS Immunodiagnostic Products High Sample Diluent A	4 bottles x 27ml
161	1435866	VITROS Immunodiagnostic Products High Sample Diluent B	4 bottles x 27ml
162	1877158	VITROS Immunodiagnostic Products System Cleaning Solution	2 x 1 litre bottles

Note: \* Manufactured by Ortho Clinical Diagnostic's contract manufacturer.

#### Authorized Signatory

Ana Parra  
(APARRA)

Digitally signed by Ana Parra (APARRA)  
Reason: I am approving this document  
Date: 2023.07.10 13:06:55 +01'00'

Ana Parra  
Sr. Associate, International Regulatory Affairs

*Handwritten signatures and initials*

Pencoed, Bridgend, CF35 5PZ United Kingdom  
orthoclinicaldiagnostics.com



# All India Institute of Medical Sciences Jodhpur

Ortho Clinical Diagnostics  
Because Every Test Is A Life™

Date: 10 July 2023

## Proprietary Certificate

### To Whom So Ever It May Concern,

Ortho Clinical Diagnostics, Inc., USA is a legal manufacturer of clinical diagnostics equipment VITROS 4600 Chemistry system, VITROS 350 Chemistry system, VITROS 5600 Integrated System/ VITROS XT 7600 Integrated System & is proprietary product of Ortho-Clinical Diagnostics, Inc., USA and is exclusively marketed in India by Ortho Clinical Diagnostics India Pvt. Ltd., having its Registered office at 403, Leela Business Park, Andheri Kurla Road, Andheri East, Mumbai -400059, India.

Below products are proprietary product of Ortho Clinical Diagnostics with manufacturer Ortho Clinical Diagnostics, UK or Ortho Clinical Diagnostics, USA and can only be used on VITROS 4600 Chemistry system, VITROS 350 Chemistry system, VITROS 5600 Integrated System/ VITROS XT 7600 Integrated System & no other products can be used on these instrument systems.

Sr. No.	Product Code	Product Description	Pack Size
1	1037274	VITROS Chemistry Products ACET Slides	90 Tests
2	1988211	VITROS Chemistry Products ALB Slides	90 Tests
3	8196057	VITROS Chemistry Products ALB Slides	250 Tests
4	8046872	VITROS Chemistry Products ALC Slides	90 Tests
5	1053180	VITROS Chemistry Products ALKP Slides	300 Tests
6	1655281	VITROS Chemistry Products ALT Slides	250 Tests
7	1721869	VITROS Chemistry Products AMON Slides	300 Tests
8	1726926	VITROS Chemistry Products AMON Slides	90 Tests
9	1202670	VITROS Chemistry Products AMYL Slides	300 Tests
10	8112724	VITROS Chemistry Products AMYL Slides	90 Tests
11	8433815	VITROS Chemistry Products AST Slides	300 Tests
12	1612365	VITROS Chemistry Products BuBc Slides	90 Tests
13	8383051	VITROS Chemistry Products BuBc Slides	300 Tests
14	8102204	VITROS Chemistry Products BUN/UREA Slides	300 Tests
15	1450261	VITROS Chemistry Products Ca Slides	300 Tests
16	1914605	VITROS Chemistry Products CHE Slides	300 Tests
17	8004707	VITROS Chemistry Products CHE Slides	90 Tests
18	1669829	VITROS Chemistry Products CHOL Slides	300 Tests
19	8478034	VITROS Chemistry Products CK Slides	90 Tests
20	8479396	VITROS Chemistry Products CK Slides	300 Tests
21	8058232	VITROS Chemistry Products CKMB Slides	300 Tests
22	8001133	VITROS Chemistry Products CKMB Slides	90 Tests

Ortho-Clinical Diagnostics

*[Handwritten signatures]*



# All India Institute of Medical Sciences Jodhpur

Ortho Clinical Diagnostics  
Because Every Test Is A Life™

Sr. No.	Product Code	Product Description	Pack Size
23	8445207	VITROS Chemistry Products Cl- Slides	250 Tests
24	8892382	VITROS Chemistry Products CRBM Slides	90 Tests
25	6802584	VITROS Chemistry Products CREA Slides	300 Tests
26	8097990	VITROS Chemistry Products CRP Slides	90 Tests
27	1926740	VITROS Chemistry Products CRP Slides	250 Tests
28	8343386	VITROS Chemistry Products DGXN (Digoxin) Slides	90 Tests
29	6801895	VITROS Chemistry Products dHDL Slides	300 Tests
30	6802469	VITROS Chemistry Products dHDL Slides	90 Tests
31	8262396	VITROS Chemistry Products ECO2 Slides	300 Tests
32	1924547	VITROS Chemistry Products Fe Slides	90 Tests
33	1515808	VITROS Chemistry Products Fe Slides	300 Tests
34	8257289	VITROS Chemistry Products GGT Slides	250 Tests
35	8157596	VITROS Chemistry Products K+ Slides	250 Tests
36	8150112	VITROS Chemistry Products LAC Slides	90 Tests
37	8433880	VITROS Chemistry Products LAC Slides	300 Tests
38	8384489	VITROS Chemistry Products LDH Slides	250 Tests
39	8318925	VITROS Chemistry Products Li Slides	300 Tests
40	1632660	VITROS Chemistry Products Li Slides	90 Tests
41	1668409	VITROS Chemistry Products LIPA Slides	300 Tests
42	8297749	VITROS Chemistry Products LIPA Slides	90 Tests
43	8255093	VITROS Chemistry Products Mg Slides	300 Tests
44	1921204	VITROS Chemistry Products Mg Slides	90 Tests
45	8379034	VITROS Chemistry Products Na+ Slides	250 Tests
46	1513209	VITROS Chemistry Products PHOS Slides	300 Tests
47	8298671	VITROS Chemistry Products PHYT Slides	90 Tests
48	8208431	VITROS Chemistry Products PROT Slides	90 Tests
49	1314343	VITROS Chemistry Products SALI Slides	90 Tests
50	8159931	VITROS Chemistry Products TBIL Slides	300 Tests
51	1307164	VITROS Chemistry Products THEO Slides	90 Tests
52	8301764	VITROS Chemistry Products THEO Slides	300 Tests
53	8392292	VITROS Chemistry Products TP Slides	250 Tests
54	1336544	VITROS Chemistry Products TRIG Slides	300 Tests

Ortho-Clinical Diagnostics

*Handwritten signatures and initials in blue ink.*



# All India Institute of Medical Sciences Jodhpur

Ortho Clinical Diagnostics  
Because Every Test is A Life™

Sr. No.	Product Code	Product Description	Pack Size
55	8329930	VITROS Chemistry Products TRIG Slides	90 Tests
56	6800120	VITROS Chemistry Products UPRO Slides	90 Tests
57	1943927	VITROS Chemistry Products URIC Slides	300 Tests
58	1707801	VITROS Chemistry Products GLU Slides	300 Tests
59	6844430	VITROS Chemistry Products LDHI Slides	250 Tests
60	6844471	VITROS Chemistry Products Cl- Slides	250 Tests
61	6844288	VITROS Chemistry Products ALTV Slides	300 Tests
62	6844294	VITROS XT Chemistry Products UREA-CREA Slides	300 Tests
63	6844292	VITROS XT Chemistry Products TRIG-CHOL Slides	300 Tests
64	6844295	VITROS XT Chemistry Products GLU-Ca Slides	300 Tests
65	6844296	VITROS XT Chemistry Products TBIL-ALKP Slides	300 Tests
66	6844291	VITROS XT Chemistry Products ALTV-AST Slides	300 Tests
67	6844293	VITROS XT Chemistry Products ALB-TP Slides	250 Tests
68	1882208	VITROS Chemistry Products Calibrator Kit 1	4sets/ Box
69	1662659	VITROS Chemistry Products Calibrator Kit 2	4sets/ Box
70	1290709	VITROS Chemistry Products Calibrator Kit 3	4sets/ Box
71	1204668	VITROS Chemistry Products Calibrator Kit 4	4sets/ Box
72	1149764	VITROS Chemistry Products Calibrator Kit 5	4sets/ Box
73	1204247	VITROS Chemistry Products Calibrator Kit 6	4sets/ Box
74	1320498	VITROS Chemistry Products Calibrator Kit 7	4sets/ Box
75	8578163	VITROS Chemistry Products Calibrator Kit 8	4sets/ Box
76	8568040	VITROS Chemistry Products Calibrator Kit 9	4sets/ Box
77	6800189	VITROS Chemistry Products Calibrator Kit 10	2sets/ Box
78	6801896	VITROS Chemistry Products Calibrator Kit 25	2sets/ Box
79	8466492	VITROS Chemistry Products Liquid Performance Verifier I	6 Bottles/ Box
80	1384007	VITROS Chemistry Products Liquid Performance Verifier II	6 Bottles/ Box
81	8067324	VITROS Chemistry Products Performance Verifier I	12 Sets/ Box
82	8231474	VITROS Chemistry Products Performance Verifier II	12 Sets/ Box
83	8721508	VITROS Chemistry Products Isoenzyme Performance Verifier I	6 Sets/ Box
84	8748220	VITROS Chemistry Products Isoenzyme Performance Verifier II	6 Sets/ Box
85	8936049	VITROS Chemistry Products CRP Performance Verifier I	6 Sets/ Box
86	8597452	VITROS Chemistry Products CRP Performance Verifier II	6 Sets/ Box

Ortho-Clinical Diagnostics

*Handwritten signature*

*Handwritten signature*

*Handwritten signature*



# All India Institute of Medical Sciences Jodhpur

Ortho Clinical Diagnostics  
Because Every Test Is A Life\*

Sr. No.	Product Code	Product Description	Pack Size
87	6800190	VITROS Chemistry Products UPRO Performance Verifier I	6 Bottles/ Box
88	6800191	VITROS Chemistry Products UPRO Performance Verifier II	6 Bottles/ Box
89	8962540	VITROS Chemistry Products TDM Performance Verifier I	6 Bottles/ Box
90	1792357	VITROS Chemistry Products TDM Performance Verifier II	6 Bottles/ Box
91	8182172	VITROS Chemistry Products TDM Performance Verifier III	6 Bottles/ Box
92	8867541	VITROS Chemistry Products TIBC Kit	50 Tests
93	6844285	ORTHO 7% BSA	12 Bottles/ Box
94	8262487	VITROS Chemistry Products 7% BSA	12 Bottles/ Box
95	8559825	VITROS Chemistry Products Specialty Diluent	6 Bottles/ Box
96	1110352	VITROS Chemistry Products Urine Electrolyte Diluent	12 Bottles/ Box
97	8057812	VITROS Chemistry Products 950/FS Reference Fluid	30 Bottles/ Box
98	1765304	VITROS Chemistry Products 250/350 Reference Fluid	30 Bottles/ Box
99	1830033	VITROS Chemistry Products Immuno-Wash Fluid	30 Bottles/ Box
100	6844463	VITROS Chemistry Products Electrolyte Reference Fluid (ERF) 800	30 Bottles/ Box
101	6844464	VITROS Chemistry Products Electrolyte Reference Fluid (ERF) 300	30 Bottles/ Box
102	6801991	VITROS Chemistry Products AMPH Reagent	300 Tests
103	6801737	VITROS Chemistry Products ApoA1 Reagent	300 Tests
104	6801738	VITROS Chemistry Products ApoB Reagent	300 Tests
105	6802218	VITROS Chemistry Products ASO Reagent	300 Tests
106	6801988	VITROS Chemistry Products BARB Reagent	300 Tests
107	6801989	VITROS Chemistry Products BENZ Reagent	300 Tests
108	6801995	VITROS Chemistry Products COCM Reagent	300 Tests
109	6801735	VITROS Chemistry Products C3 Reagent	300 Tests
110	6801736	VITROS Chemistry Products C4 Reagent	300 Tests
111	6801728	VITROS Chemistry Products dLDL Reagent	600 Tests
112	6802001	VITROS Chemistry Products dTIBC Reagent	300 Tests
113	6801711	VITROS Chemistry Products GENT Reagent	300 Tests
114	6842956	VITROS Chemistry Products HCY 2 Reagent	300 Tests
115	6801739	VITROS Chemistry Products hsCRP Reagent	300 Tests
116	6801732	VITROS Chemistry Products IgA Reagent	300 Tests
117	6801733	VITROS Chemistry Products IgG Reagent	300 Tests
118	6801734	VITROS Chemistry Products IgM Reagent	300 Tests

Ortho-Clinical Diagnostics

*Handwritten signatures and initials in blue ink.*





# All India Institute of Medical Sciences Jodhpur

Ortho Clinical Diagnostics  
Because Every Test Is A Life™

Sr. No.	Product Code	Product Description	Pack Size
119	6801740	VITROS Chemistry Products mALB Reagent	300 Tests
120	6801996	VITROS Chemistry Products METD Reagent	300 Tests
121	6801997	VITROS Chemistry Products OP Reagent	300 Tests
122	6801741	VITROS Chemistry Products PALB Reagent	300 Tests
123	6801998	VITROS Chemistry Products PCP Reagent	300 Tests
124	6801729	VITROS Chemistry Products RF Reagent	300 Tests
125	6801994	VITROS Chemistry Products THC Reagent	300 Tests
126	6801712	VITROS Chemistry Products TOBRA Reagent	300 Tests
127	6801767	VITROS Chemistry Products TRFRN Reagent	300 Tests
128	6801710	VITROS Chemistry Products VALP Reagent	300 Tests
129	6801709	VITROS Chemistry Products VANC Reagent	300 Tests
130	6801713	VITROS Chemistry Products CAFFN Reagent Kit	200 Tests
131	6842905	VITROS Chemistry Products HbA1c Reagent Kit	300 Tests
132	6801873	VITROS Chemistry Products FS Calibrator 1	12 Bottles/ Box
133	6801696	VITROS Chemistry Products Calibrator Kit 11	6 bottles/ 1 Set/ Box
134	6801697	VITROS Chemistry Products Calibrator Kit 12	6 bottles/ 1 Set/ Box
135	6801698	VITROS Chemistry Products Calibrator Kit 13	6 bottles/ 1 Set/ Box
136	6801699	VITROS Chemistry Products Calibrator Kit 14	6 bottles/ 1 Set/ Box
137	6801700	VITROS Chemistry Products Calibrator Kit 16	5 bottles/ 1 Set/ Box
138	6801701	VITROS Chemistry Products Calibrator Kit 17	5 bottles/ 5 Sets/ Box
139	6801703	VITROS Chemistry Products Calibrator Kit 19	5 bottles/ 5 Sets/ Box
140	6801704	VITROS Chemistry Products Calibrator Kit 20	5 Bottles/ Box
141	6801705	VITROS Chemistry Products Calibrator Kit 21	5 bottles/ 1 Set/ Box
142	6801706	VITROS Chemistry Products Calibrator Kit 22	5 bottles/ 1 Set/ Box
143	6801707	VITROS Chemistry Products Calibrator Kit 23	5 bottles/ 1 Set/ Box
144	6801708	VITROS Chemistry Products Calibrator Kit 24	6 bottles/ 1 Set/ Box
145	6802304	VITROS Chemistry Products Calibrator Kit 26	1 Set/ Box
146	6802342	VITROS Chemistry Products Calibrator Kit 27	3 Sets/ Box

Ortho-Clinical Diagnostics

*My Day*

*SK*

*Aut*



# All India Institute of Medical Sciences Jodhpur

Ortho Clinical Diagnostics  
Because Every Test Is A Life™

Sr. No.	Product Code	Product Description	Pack Size
147	6802323	VITROS Chemistry Products Calibrator Kit 28	1 Set/ Box
148	6802344	VITROS Chemistry Products Calibrator Kit 29	2 Sets/ Box
149	6802562	VITROS Chemistry Products Calibrator Kit 30	1 Bottle/ Box
150	6842906	VITROS Chemistry Products Calibrator Kit 31	3 Bottles/ Box
151	6801750	VITROS Chemistry Products %A1c Performance Verifier I	3 Bottles/ Box
152	6801751	VITROS Chemistry Products %A1c Performance Verifier II	3 Bottles/ Box
153	6801769	VITROS Chemistry Products ApoA1 Performance Verifier I	6 Bottles/ Box
154	6801770	VITROS Chemistry Products ApoB Performance Verifier I	6 Bottles/ Box
155	6802411	VITROS Chemistry Products ASO/RF Performance Verifier I	5 Bottles/ Box
156	6802412	VITROS Chemistry Products ASO/RF Performance Verifier II	5 Bottles/ Box
157	6802327	VITROS Chemistry Products DAT Performance Verifier I	6 Bottles/ Box
158	6802328	VITROS Chemistry Products DAT Performance Verifier II	6 Bottles/ Box
159	6802329	VITROS Chemistry Products DAT Performance Verifier III	6 Bottles/ Box
160	6802330	VITROS Chemistry Products DAT Performance Verifier IV	6 Bottles/ Box
161	6802331	VITROS Chemistry Products DAT Performance Verifier V	6 Bottles/ Box
162	6802348	VITROS Chemistry Products dTIBC Performance Verifier I	6 Vials/ Box
163	6802349	VITROS Chemistry Products dTIBC Performance Verifier II	6 Vials/ Box
164	6842957	VITROS Chemistry Products HCY 2 Performance Verifiers I, II & III	9 Bottles/ Box
165	6801742	VITROS Chemistry Products hsCRP Performance Verifier I	6 Bottles/ Box
166	6801888	VITROS Chemistry Products hsCRP Performance Verifier II	6 Bottles/ Box
167	6802049	VITROS Chemistry Products hsCRP Performance Verifier III	6 Bottles/ Box
168	6801746	VITROS Chemistry Products mALB Performance Verifier I	6 bottles/ Box
169	6801747	VITROS Chemistry Products mALB Performance Verifier II	6 bottles/ Box
170	6801771	VITROS Chemistry Products PALB Performance Verifier I	6 bottles/ Box
171	6801772	VITROS Chemistry Products PALB Performance Verifier II	6 bottles/ Box
172	6801744	VITROS Chemistry Products Protein Performance Verifier I	6 bottles/ Box
173	6801745	VITROS Chemistry Products Protein Performance Verifier II	6 bottles/ Box
174	6801768	VITROS Chemistry Products Protein Performance Verifier III	6 bottles/ Box
175	6801874	VITROS Chemistry Products FS Reconstitution Diluent	12 Bottles/ Box
176	6801752	VITROS Chemistry Products FS Diluent Pack 1(Apo Diluent/UED)	3 Packs/ Box
177	6801753	VITROS Chemistry Products FS Diluent Pack 2 (BSA/Saline)	3 Packs/ Box

Ortho-Clinical Diagnostics

*Handwritten signature*

*Handwritten initials*

*Handwritten signature*



# All India Institute of Medical Sciences Jodhpur

Ortho Clinical Diagnostics  
Because Every Test Is A Life™

Sr. No.	Product Code	Product Description	Pack Size
178	6801754	VITROS Chemistry Products FS Diluent Pack 3(Specialty Diluent/Water)	3 Packs/ Box
179	6802326	VITROS Chemistry Products FS Diluent Pack 4(DAT Diluent/DAT Diluent 2)	6 Packs/ Box
180	6802214	VITROS Chemistry Products HPT Reagent	300 Tests
181	6802311	VITROS Chemistry Products AAT/HPT Performance Verifier I	6 bottles/ Box
182	6802216	VITROS Chemistry Products AAT Reagent	300 Tests
183	6802312	VITROS Chemistry Products AAT/HPT Performance Verifier II	6 bottles/ Box
184	6802313	VITROS Chemistry Products AAT/HPT Performance Verifier III	6 bottles/ Box
185	6802310	VITROS Chemistry Products Calibrator Kit 99	1 Set/ Box
186	6844508	VITROS Chemistry Products Calibrator Kit 32	3 Sets/ Box
187	8221384	VITROS Chemistry Products PHBR Slides	90 Test
188	6844520	VITROS Chemistry Products Alc Slides	250 Test
189	6922333	VITROS Chemistry Products wrCRP Reagent	300 Tests
190	6844521	VITROS Chemistry Products Calibrator Kit 33	4 vials each of calibrator 1, 2, and 3
191	6907789	VITROS Chemistry Products Calibrator kit 34	6 vials X 2 mL

Authorized Signatory

Ana Parra  
(APARRA)

Digitally signed by  
Ana Parra (APARRA)  
Reason: I am  
approving this  
document  
Date: 2023.07.10  
13:14:33 +01'00'

Ana Parra  
Sr. Associate, International Regulatory Affairs

Ortho-Clinical Diagnostics



# All India Institute of Medical Sciences Jodhpur

**Proposal of Track-Based Automation system for High Throughput Dry Chemistry & Immunoassay Integrated system ( Combined system )on Rental basis (PAC) Inviting Comments/ Objection thereon.**

1. The integrated track-based automation system; should be a high throughput automated sample handling system which processes, Biochemistry, Immunoassay sample tubes.
2. The track-based automation should be connected to the Laboratory Information System (LIS) of the Hospital.
3. Should provide with the sample loading module with a minimum loading capacity of 300 samples / hour
4. The Track Based Automation system should have a decapper
5. The system should simultaneously support intermixed 13x75mm and 13x 100mm sample tubes & bar-coded samples in each of the modules.
6. System should raise appropriate alarm and divert the rejected sample to predefined racks.
7. IQ, OQ & PQ of all the equipment must be provided to the laboratory at the time of installation. The PQ must be done by the vendor after every maintenance cycle or at least once in a year.
8. The supplier must perform equipment calibration as required by latest ISO 15189 and NABL 112 or as specified by NABL from time to time and the records of such calibration must be made available to the laboratory, including certificate of calibration. The cost of the calibrators / controls (external) or any other related material shall be borne by the vendor for the duration of the contract.
9. Analytical module should consist of of three Integrated analyzer. All the analyzers should be identical (Same Model )
10. All the analyzer should be connected to track and able to run independently also.
11. Offered Analyzers should have USFDA.

*[Handwritten signatures and initials]*



# All India Institute of Medical Sciences Jodhpur

## Integrated System

MULTI-CHANNEL AUTOMATIC CHEMISTRY ANALYSER WITH DIRECT ISE (and integrated Immunoassay system)	
Technical Specification	
1	<b>System</b> A discreet, integrated random access system with consolidated work area and upgradable for further expansion for clinical Chemistry and immunoassays on site. The individual module should be able to stand and run independently also. The Complete sytem should be latest on the production line US FDA approved , supplier must provide Original documentary proof of the date & place of manufacturing of equipment at the time of supply . The individual system should have minimum throughput of 800 test for chemistry and 185 test for immunoassay system
2	<b>Test Specimen</b> Serum, Plasma, Urine, CSF and other body fluids.
3	<b>Assay Mode:</b> * System should be able to use end point, kinetic, Immunoturbidimetric, Ion selective electrolytes (direct) assays with facility of therapeutic drug monitoring and measurement of substance abuse. * Immunoassays should be based on Enhanced Chemiluminescence Technology * Biochemistry Testing should be based on proprietary Micro slide ( Dry Slide ) and Micro tip technology to ensure no External Water requirement & Interference * Photometry (wavelengths ranging from 300-800 nm.) using LED . * At least 10 user defined channels must be open for specialized tests/new tests/drugs.
4	<b>Throughput:</b> Combined Test throughput of analyzers on Track with serum indices (hemolysis, turbidity and ectericity) should be Minimum 2500 test/hour
5	<b>Assay-Capacity On board:</b> Minimum 125 Assays for Clinical Chemistry on individual system Minimum 30 assays for immunoassay on individual analyzer
6	<b>Reagent :</b> On board cooling; Refrigerated reagent compartment/disk with temperature 2-8° c or better with humidity control for immuno assay system On line reagent inventory System must have facility: (i) To read reagent barcodes. (Bar code generator to be provided by the bidder) (ii) Continuous reagent loading without stopping the analyzer (iii) On board reagent stability of minimum 45 days for all immunoassay parameters

*Handwritten signatures and initials in blue ink.*



# All India Institute of Medical Sciences Jodhpur

7a	Should be Disposable Tip system for both Chemistry and Immunoassay section
7b	The Integrated system should be able to detect common interference ( Hemolysis / Turbidity & ictericity ) for both Chemistry and immunoassay for each sample without any additional cost and without impacting the throughput of the system
8	<b>Operational Part:</b> Common sample trays and single point data entry and result viewing with windows based operating system having wide touch screen monitor and continuous printing facility (with an additional printer) for the integrated machine with decapper fitted to it.
9	<b>Sample Container:</b> System should use all types of sample containers including standard primary tubes, sample cups, micro cups and cups on tube options.
10	<b>Stat facility:</b> Stat prioritization for both biochemistry and immunology should be available on the system without interrupting the routine run with at least 10 stat sample positions.
12	<b>Reaction cuvettes:</b> disposable For clinical Chemistry assays. Disposable for immunoassays.
13	<b>Assay requirement:</b> On board sample dilution upto 100 times · Clot detection, bubble detection and low sample detection facility · Sample volume less than 25µl with increment of 1 µl · System should have pre & Post-auto dilution of sample and re-run capability for out of range samples. System should have automatic re-run, automatic reflex testing and have facility for continuous loading. The Integrated system have serum indices features for both chemistry and Immuno assay section
14	<b>Quality Control:</b> QC management of connected instruments in one screen, Provision of Westgard and configurable QC based rules, Facility of auto-calibration and option of QC triggered calibration.
15	<b>Information Tech:</b> Bi-directional LIS (with provision of connecting to HIS system in future should be provided). The software should have the capacity for data management and autovalidation. · Sample Monitoring: Real time monitoring of QC violations, auto-verification and turn-around time for samples. · Sample data storage capacity: Minimum 20,000 patients results.
16	<b>Equipment should work</b> Voltage: 180-220V Frequency 47-60 Hz <b>Power back-up</b>

DYP

HS

Puri

Sharma

Chand

SR



# All India Institute of Medical Sciences Jodhpur

	Minimum 10 KV UPS with one hour battery backup suitable UPS for backup machine.
19	

#### Middleware/software:

The software supporting the track-based automation should have following features and support the following functions:

- (a) There should be a single command system to monitor all the analyzers attached on the track for sampling status, sample location, QC status, additional testing, sample storage and disposal.
- (b) STAT sample handling by priority in both pre-analytical and analytical modules without interrupting the routine run.

(C) Automatic balancing of workload & number of sample tubes, reagent and calibration status, sample programming information and dynamic instrument test menu and status etc.

- (c) Automatic handling of sample and non-sample-based errors.
- (d) Support patient demographic information.
- (e) Automatic communication of sample test status to properly handle storage or rerun of the sample.
- (f) Automatic retrieval of samples for re-run, reflex and add-on testing.
- (g) Automatic validation of test results.
- (g.1) Automatic recognition of errors in any of the modules connected and notification to the user.
- (h) Provide alerts to control station & monitoring screens.
- (i) Allow user to search sample information via Sample or Sample History
- (j) Provide password protected system setup information to prevent usage by unauthorized user.

*[Handwritten signatures and initials in blue ink]*



# All India Institute of Medical Sciences Jodhpur

- (k) Provide real time information about status of samples & turn-around time.
- (l) Manual rerun – ability to accommodate request for a sample tube previously run on the track.
- (m) Sample Processing Capabilities such as Sample identification, Aliquot creation, Test scheduling.
- (n) Automatic routing of samples for testing based on tests ordered, test menu of the available connected analyzers, load balancing across analyzers with common test menus to optimize throughput and best fit sort destinations.
- (o) Ability to accommodate user defined Reference ranges and Critical ranges for tests.
- (p) There should be automatic sample tracking including sample arrival (date/time recording), sample location while on the automation line and time of sample removal from the system.
- (q) System track should permit future upgrades to host more analyzers to cover future increase in workload.
- (r) System should be provided with all the necessary controlling devices and monitoring screens.
- (s) Integration should be based on one of the standards HL7 or ASTM depending on the software/middleware available with the hospital.

*BY*

*ATG*

*Puri*

*Sharma*

*Chauhan*

*SS*