

कय/2025/

दिनांक

(एन.सी.आई.एम.एम. मानक अनुसार यंत्र,शस्त्र,उपकरण इत्यादि सामग्री की आपूर्ति हेतु ई-निविदा)

पं. खुशीलाल शर्मा शासकीय (स्वशासी) आयुर्वेद महाविद्यालय एवं संस्थान, एन.सी.आई.एम.एम. मानक अनुसार यंत्र,शस्त्र,उपकरण इत्यादि सामग्री की आपूर्ति इत्यादि की आपूर्ति हेतु ई-निविदा प्रक्रिया के अन्तर्गत दर अनुबंध निविदायें आमंत्रित की जाती है। जो कि <https://mptenders.gov.in/> पर निर्धारित समयावधि में उपलब्ध है। निविदा प्रस्तुत करने की नियम निर्देश एवं शर्तें महाविद्यालय की वेबसाइट <http://www.klsgaci.edu.in> पर भी प्रदर्शित होकर उपलब्ध है।

निविदा प्रपत्र डाउनलोड करने की आरंभिक तिथि:- :- 10.02.2025

निविदा प्रपत्र आनलाइन प्रस्तुत (अपलोड) करने की अंतिम तिथि :- 05.03.2025

तकनीकी निविदा दिनांक डाउनलोड किये जाने की तिथि :- 07.03.2025

प्री-विड मीटिंग दिनांक :- 13.03.2025

निविदा का अनुमानित मूल्य :- 75 लाख

नियम शर्तें निम्नानुसार है :-

- ई-निविदा दस्तावेज हस्तांतरणीय नहीं है। इच्छुक ई-निविदाकर्ता ऑनलाइन mptender.gov.in से ई-निविदा राशि रु. 5000/- का भुगतान कर ई-निविदा प्राप्त कर सकते हैं, जिसको mptender.gov.in पर तकनीकी एवं वित्तीय निविदा पृथक-पृथक आनलाइन सबमिट की जाना है
- ई.एम.डी. राशि रूपये 75,000/- (रूपये पिच्छत्तर हजार मात्र) है, जिसे ई-पेमेन्ट के माध्यम से mptender.gov.in पर tender सबमिट करते समय पेमेन्ट करना होगा। ई.एम.डी. राशि सफल निविदाकार को अनुबंध होने पर नियमानुसार वापस की जावेगी, शेष निविदाकारों की ई.एम.डी.राशि mptender.gov.in के माध्यम से वापस लौटा दी जावेगी। सफल निविदाकार को निष्पादन प्रतिभूति राशि (अनुबंध राशि 3 प्रतिशत तक) बैंक ड्राफ्ट के माध्यम से संस्थान में जमा करना होगा। निष्पादन प्रतिभूति राशि बिना ब्याज के अनुबंध समाप्त होने पर वापस लौटा दी जावेगी। सेवा उपार्जन नियम 2015 यथा संशोधित-2022 के प्रावधानों अनुसार म0प्र0के लघु उद्यम उद्योगों एवं प्रदेश के स्टार्टअप को नियमानुसार छूट रहेगी इस हेतु म0प्र0सरकार के एम. एस.एम.ई.विभाग द्वारा जारी पंजीयन प्रमाण पत्र की प्रति तकनीकी निविदा अभिलेखों के साथ अपलोड किया जाना अनिवार्य होगा।
- सफल निविदाकार से किया गया दर अनुबंध आदेश दिनांक से 03 माह हेतु मान्य होगा।
- निविदाकार फर्म के पास जीवित गुमास्ता (स्थानीय स्तर) होना आवश्यक है, जिसकी प्रति तकनीकी निविदा से साथ संलग्न करना अनिवार्य होगा।
- जी.एस.टी पंजीयन की प्रतिलिपि तकनीकी निविदा से साथ संलग्न करना अनिवार्य होगा।
- पैन नम्बर की प्रतिलिपि तकनीकी निविदा से साथ संलग्न करना अनिवार्य होगा।
- म0प्र0के सूक्ष्म एवं लघु उद्यम एवं स्टार्टअप्स को म0प्र0भण्डार कय तथा सेवा उपार्जन नियम 2015 (यथा संशोधित 2022) की कणिका 23.1 में उल्लेखित निर्धारण अनुसार एल-01 फर्म को सामग्री की

8. आपूर्ति हेतु क्रय आदेश जारी किया जायेगा, यदि वह फर्म निर्धारित अवधि (30 दिवस)में शर्तों का पालन न करते हुए अथवा किसी अन्य कारण से आपूर्ति नहीं करती हैं, तो ऐसी स्थिति में जमा निष्पादन प्रतिभूति की राशि राजसात कर ली जावेगी, तथा संबंधित फर्म को ब्लैक लिस्टिंग की कार्यवाही की जावेगी। जिसकी समस्त जिम्मेदारी निविदाकर्ता फर्म की होगी।
9. ई-निविदा स्वीकार होने पर सफल निविदाकार को अनुबंध राशि रुपये 100.00 के नॉन ज्यूडिशियल स्टाम्प पेपर पर नोटरी कर प्रस्तुत करना अनिवार्य है। जिसका व्यय निविदाकार को वहन करना होगा।
10. निविदाकर्ता फर्म का वित्तीय वर्ष 2022-23 एवं 2023-24 का टर्न ओवर न्यूनतम 01-01 करोड़ होना आवश्यक है, जिसके साक्ष्य के रूप में वित्तीय वर्ष 2022-23 एवं 2023-24की आयकर विवरणी चाटेर्ड एकाउन्टेन्ट द्वारा प्रमाणित टर्न आवेर प्रमाण पत्र विवरणी तकनीकी निविदा के दस्तावेजों के साथ अपलोड करना आवश्यक है।
11. निविदाकर्ता फर्म का वित्तीय वर्ष 2022-23 एवं 2023-24 का टर्न ओवर न्यूनतम 1.5-1.5 करोड़ होना आवश्यक है, जिसके साक्ष्य के रूप में वित्तीय वर्ष 2022-23 एवं 2023-24 की आयकर विवरणी चाटेर्ड एकाउन्टेन्ट द्वारा प्रमाणित टर्न आवेर प्रमाण पत्र विवरणी तकनीकी निविदा के दस्तावेजों के साथ अपलोड करना आवश्यक है।
12. निविदाकर्ता द्वारा कार्यादेश का कुछ भाग या पूर्ण भाग अन्य किसी ठेकेदार/व्यक्ति को नहीं सौंपेगा। यदि किसी निविदाकर्ता द्वारा किसी अन्य फर्म/व्यक्ति को कार्य सौंपता है या कार्य कराता पाया जाता है तो उसका अनुबंध तत्काल प्रभाव से निरस्त कर निष्पादन प्रतिभूति राशि राजसात की जावेगी एवं संबंधित फर्म को Black Listed किया जायेगा।
13. निविदाकर्ता फर्म प्रदेश के किसी भी शासकीय संस्था से ब्लैक लिस्टेड नहीं होनी चाहिए। यदि जानकारी प्राप्त होती है, तो निष्पादन प्रतिभूति राशि राजसात कर संबंधित फर्म की निविदा/अनुबंध निरस्त कर दिया जावेगा। इस संदर्भ ब्लैक लिस्टेड न होने का घोषणा पत्र/शपथ पत्र राशि रुपये 100.00के नान जूडिशियल स्टाम्प पर तकनीकी निविदा के साथ अपलोड करना अनिवार्य होगा।
14. ई-निविदाओं को स्वीकृत अथवा अस्वीकृत करने का सम्पूर्ण अधिकार प्रधानाचार्य को होगा जो सभी को मान्य एवं बंधनकारी होगा।
15. किसी भी विवाद की स्थिति में प्रधानाचार्य का निर्णय अंतिम एवं सर्वमान्य होगा इसका पालन करना होगा।
16. आपूर्ति किये जाने वाले समस्त यंत्र,शस्त्र,उपकरणों पर 01 वर्ष की गारंटी एवं मरम्मत सेवा प्रदान करनी होगी। अन्य कोई शर्त आवश्यकता पड़ने पर मान्य करना होगी।
17. ई-तकनीकी निविदा का विश्लेषण करते समय केवल बांछित दस्तावेजों (चैक लिस्ट के अनुसार) को ही विचार में क्षेत्र में लिया जावेगा।
18. निविदाकर्ता फर्म को प्रदेश के किसी भी शासकीय चिकित्सा संस्थान में यंत्र,शस्त्र, उपकरण, इत्यादि सामग्री की आपूर्ति का अनुभव होना अनिवार्य है,जिसके साक्ष्य मे सुसंगत अभिलेख तकनीकी निविदा के साथ संलग्न करना होगा। साथ ही उपकरणों के निविदाकर्ता के पास संबंधित मशीन की आपूर्ति हेतु निर्माता कम्पनी का अधिकार पत्र होना आवश्यक है जिसे तकनीकी निविदा अभिलेखों के साथ संलग्न करना अनिवार्य होगा।

19. सलंगन चेक लिस्ट अनुसार दस्तावेजो को तकनीकी निविदा के साथ अपलोड करना,आवश्यक है,चेक लिस्ट अनुसार अभिलेखों के आधार पर तकनीकी निविदा का परीक्षण किया जावेगा। इन्ही अभिलेखों के आधार पर तकनीकी निविदा मान्य/अमान्य की जावेगी इनके अतिरिक्त किसी अन्य अभिलेखों को विचार श्रेत्र मे नहीं लिया जावेगा।
20. निविदा प्रपत्र व अनुसार दर सूची mptender.gov.in पर उपलब्ध **boq** मे अंकित करना है।
21. जी.एस.टी.राशि का उल्लेख ततसमय प्रचलित अनुसार देयक मे प्रथक से किया जाना है।
22. किसी विवाद की स्थिति में न्याय क्षेत्र भोपाल रहेगा।

प्रधानाचार्य एवं मुख्य कार्यपालन अधिकारी
पं. खुशीलाल शर्मा शासकीय आयुर्वेद
महाविद्यालय एवं संस्थान भोपाल

पं. खुशीलाल शर्मा शासकीय(स्वशासी) आयुर्वेद महाविद्यालय एवं संस्थान भोपाल

(एन.सी.आई.एम.एम. मानक अनुसार यंत्र,शस्त्र,उपकरण इत्यादि सामग्री की आपूर्ति हेतु ई-निविदा की नियम एवं शर्तें)

(तकनीकी ई-निविदा प्रपत्र -01)

1. निविदाकर्ता फर्म का नाम-----
2. फर्म के मालिक का नाम----- पिता का नाम-----
3. वर्तमान निवास का पता-----
4. दूरभाष/मोबाईल नम्बर-----
5. GSTIN NO.-----
6. जीवित गुमास्ता नं.....दिनांक
7. पैन कार्ड न.....
8. ई.एम.डी.राशि ई-प्रिंटेड प्रति तकनीकी निविदा के दस्तावेजों के साथ अपलोड करना होगा ।
9. निविदाकर्ता फर्म का वित्तीय वर्ष 2022-23 एवं 2023-24 का टर्न ओवर न्यूनतम 1.5-1.5 करोड होना आवश्यक है,जिसके साक्ष्य के रूप में वित्तीय वर्ष 2022-23 एवं 2023-24 की आयकर विवरणी चाटेर्ड एकाउन्टेन्ट द्वारा प्रमाणित टर्न आवेर प्रमाण पत्र विवरणी तकनीकी निविदा के दस्तावेजों के साथ अपलोड करना आवश्यक है ।
10. जीवित गुमास्ता होना अनिवार्य होगा । जिसे तकनीकी निविदा के दस्तावेजों के साथ अपलोड करना आवश्यक है ।
11. निविदाकार फर्म किसी शासकीय /अशासकीय/अर्धशासकीय संस्था द्वारा ब्लैक लिस्ट नहीं होना चाहिए इस हेतु शपथ पत्र राशि रु 100.00 एक सौ मात्र के नान ज्युडीशियल स्टांप पर नोटराइज कराकर तकनीकी निविदा के साथ संलग्न करना अनिवार्य होगा ।
12. निविदाकर्ता फर्म को प्रदेश के किसी भी शासकीय चिकित्सा संस्थान में यंत्र,शस्त्र,उपकरण इत्यादि सामग्री की आपूर्ति का अनुभव होना अनिवार्य है ,जिसके साक्ष्य मे सुसंगत अभिलेख तकनीकी निविदा के साथ संलग्न करना होगा ।
13. एम.एस.एम.ई.फर्म को म0प्र0सरकार के एम.एस.एम.ई.विभाग द्वारा जारी पंजीयन प्रमाण पत्र की प्रति तकनीकी निविदा अभिलेखों के साथ सलग्न किया जाना आवश्यक होगा ।
14. विगत 03 माह की जीएस.टी.जमा संबंधी चालान की प्रति तकनीकी निविदा के साथ संलग्न करना होगा ।
15. उपकरणों के निविदाकर्ता के पास संबंधित मशीन की आपूर्ति हेतु निर्माता कम्पनी का अधिकार पत्र होना आवश्यक है जिसे तकनीकी निविदा अभिलेखों के साथ संलग्न करना अनिवार्य होगा ।

निविदाकर्ता के हस्ताक्षर

निविदाकर्ता का नाम-----
फर्म की मुहर

पं. खुशीलाल शर्मा शासकीय(स्वशासी) आयुर्वेद महाविद्यालय एवं संस्थान भोपाल

(एन.सी.आई.एम.एम. मानक अनुसार यंत्र,शस्त्र,उपकरण इत्यादि सामग्री की आपूर्ति हेतु ई-निविदा की नियम एवं शर्तें)

चैक-लिस्ट

क्रं.	दस्तावेजों के नाम	संलग्न हों/नहीं
1	जी.एस.टी.नम्बर की प्रति	
2	पैन कार्ड की प्रति	
3	ई.एम.डी.राशि ई-प्रिंटेड प्रति तकनीकी निविदा के दस्तावेजों के साथ अपलोड करना होगा।	
4	निविदाकर्ता फर्म का वित्तीय वर्ष 2022-23 एवं 2023-24 का टर्न ओवर न्यूनतम 1.5-1.5 करोड होना आवश्यक है,जिसके साक्ष्य के रूप में वित्तीय वर्ष 2022-23 एवं 2023-24 की आयकर विवरणी चाटेर्ड एकाउन्टेन्ट द्वारा प्रमाणित टर्न आवेर प्रमाण पत्र विवरणी तकनीकी निविदा के दस्तावेजों के साथ अपलोड करना आवश्यक है।	
5	जीवित गुमास्ता होना अनिवार्य होगा। जिसे तकनीकी निविदा के दस्तावेजों के साथ अपलोड करना आवश्यक है।	
6	निविदाकार फर्म किसी शासकीय /अशासकीय/अर्धशासकीय संस्था द्वारा ब्लैक लिस्ट नहींहोना चाहिये इस हेतु शपथ पत्र राशि रु 100.00 एक सौ मात्र के नान ज्युडीशियल स्टांप पर नोटराइज कराकर तकनीकी निविदा के साथ संलग्न करना अनिवार्य होगा	
7	निविदाकर्ता फर्म को प्रदेश के किसी भी शासकीय चिकित्सा संस्थान में यंत्र,शस्त्र,उपकरण इत्यादि सामग्री की आपूर्ति का अनुभव होना अनिवार्य है जिसके साक्ष्य मे सुसंगत अभिलेख तकनीकी निविदा के साथ संलग्न करना होगा।	
8	म0प्र0सरकार के एम.एस.एम.ई.विभाग द्वारा जारी पंजीयन प्रमाण पत्र तकनीकी निविदा अभिलेखों के साथ संलग्न किया जाना आवश्यक होगा।	
09	विगत 03 माह की जीएस.टी.जमा संबधी चालान की प्रति तकनीकी निविदा के साथ संलग्न करना होगा।	
10	उपकरणों के निविदाकर्ता के पास संबधित मशीन की आपूर्ति हेतु निर्माता कम्पनी का अधिकार पत्र होना आवश्यक है। जिसे तकनीकी निविदा अभिलेखों के साथ संलग्न करना अनिवार्य होगा।	
11	ADDITIONAL SPECIFIC TERMS & CONDITIONS FOR ELIGIBILITY OF MANUFACTURER/BIDDERS FOR SUPPLY संलग्न प्रपत्र अनुसार अभिलेख तकनीकी निविदा के साथ संलग्न किया जाना अनिवार्य होगा।	

पं.खुशीलाल शर्मा, शासकीय (स्वशासी) आयुर्वेद महाविद्यालय एवं संस्थान
(एन.सी.आई.एम.एम.मानक अनुसार अनुसार यंत्र, शस्त्र, उपकरण इत्यादि की आपूर्ति हेतु ई- निविदा की नियम एवं शर्तें)

(वित्तीय ई निविदा प्रपत्र - 02)

Sn.	NAME OF ITEM	QTY
01	Weighing machine	01
02	Kjeldahl Digestion Distillation Unit	01
03	HOT AIR OVEN (For Drying Glassware)	01
04	DOUBLE DOOR (SIDE BY SIDE) REFRIGERATOR	01
05	LABORATORY GRINDING MILL	01
06	Bottle Cap Sealing Machine	01
07	Pouch Packing Machine (Four Head Weigher)	01
08	TO and FRO Electric Kharal	01
09	Digital Spirometer	01
10	Electrocardiogram machine	01
11	Weighing Scale	01
12	PYCNOMETER	01
13	Bunsen Burner	01
14	ORBITAL SHAKER	01
15	Magnetic stirrer with hot plate	01
16	Suction Machine	01
17	Clinical Thermometer	01
18		
19	Viscometer	01
20	Rapid mixer granulator	01
21	Single Side Rotary Tablet Press Machine	01
22	Pills cutting machine	01
23	Edge runner SS	01
24	Hammer Crusher/Blender (Herbal Disintegrator)	01
25	Planetary mixer for cream	01
26	Hand filling capsule machine	01
27	Nadi Tarangani	01
28	FUME HOODS	01
29	Cell/Tissue Homogenizer	01
30	High speed Refrigerated Benchtop Centrifuge Machine	01
31	Digital Polarimeter Specifications	01
32	Electrolyte Analyser with Lithium Facility	01
33	Cell counter (Hamatology) Analyzer	01
34	MUFFLE FURNACE	01
35	BP apparatus without mercury	01
36	Electronic Baby Weighing Scale	01
37	Bilirubinometer	01
38	printer	01
39	BLS Adult CPR with reflectors.	01
40	Laerdal Neonatalie NewBorn Resuscitation Simulator	01
41	Umbilical Catheterization	01
42	IV infusion & drip rate	01
43	Pediatric Injection Trainer	01
44	Advanced Ear Inspection Simulator	01
45	Advanced Ocular Inspection Simulator of Retinotherapy	01
46	Advanced Nasal Hemorrhage simulator	01

47	Decubitus Ulcer Care Simulator	01
48	Chest Auscultation Trainer	01
49	Advanced Auscultation Trainer	01
50	Blood Sampling Trainer	01
51	Ryle's Tube & electronic trachea intubation trainer	01
52	Pleural and ascitic aspiration trainer	01
53	Enema and Assisted Defecation Training Simulator	01
54	Advanced Trauma Nursing Training Manikin	01
55	Blood Transfusion	01
56	Dressed male Catheterization Model	01
57	Dressed Female Catheterization Model	01
58	Surgical Suturing And Bandage Simulator (Note : This simulator includes Basic Wound care & Basic Bandaging as well.)	01
59	Incision & Drainage Trainer	01
60	Standard Patient for External Fixation Training Simulation in First Aid of Limb Fracture	01
61	Breast Examination Model	01
62	Advanced Rectal Touch Examination Simulator	01
63	Advanced Full Functional Neonatal Nursing & CPR Manikin	01
64	Enema and Assisted Defecation Training Simulator	01
65	Full Functional Vein Injectable Arm	01
66	Abdominal Examination Trainer	01
67	ALS Simulator with monitor & printer.	01
68	ECG Manikin (Standalone)	01
69	Stomach Wash Trainer	01
70	Gynecological Examination Simulator	01
71	IUD Training Model	01
72	LAERDAL- MamaNatalie Birthing Simulator	01
73	Episiotomy Trainer	01
74	Obstetric Examination Simulator	01
75	Digital Weight Scale With Large LCD Display	01
76	Height Measuring Scale	01
77	Fully Automatic Digital Blood pressure Monitor	01
78	Clinical Thermometer Contactless	01
79	ZEISS Humphrey Field Analyzer 3	01
80	Neonatal Weighing Scale	01
81	Bilirubinometer	01
82	Electrolyte Analyzer	01
83	Fully Automated Blood Culture System	01
84	Biosafety Cabinet Class-2 Type B1	01
85	Vital Monitor	01
86	Heating Source	01
87	Measuring Tape	01
88	ECG Machine	01
89	Cryotherapy Machine	01
90	Treadmill	01
91	Pelvic Floor Muscle Trainer- 360°	01
92	Perineometer (With Bio-feed Back)	01
93	Kegal Cones	01
94	Trampoline	01
95	Sensory Integration Tools	01
96	Field Megnife	

1. Weighing machine

Display Type LCD
 Format of displaying the measured weight Digital Format
 Battery type used for measuring and displaying the weight Lithium Battery
 Measuring Range (Kg) 0 to 120 kilograms (kg)
 Minimum Graduation/Resolution (grams) 100 gram
 Accuracy in grams (\pm) 100 gram
 Reading Time (Seconds) 5 second
 All vital parts made of rust proof material Yes
 Tare Feature Yes
 Anti-Skid Feature Yes

2. Kjeldahl Digestion Distillation Unit

Heating mantle 6
 Flask capacity 500 ml
 Structure

- Powder coated MS cabinet
- Vertical & horizontal rods
- Screws & clamps

 Temperature- Ambient+10°C to 350°C
 Heating element- Nichrome heating element
 Temperature controller Energy regulator
 Heating surface -Fiber glass net
 Power supply- 220 Volts 50Hz
 Optional-PID temperature controller

3. HOT AIR OVEN (For Drying Glassware)

Application: For drying glassware and also for conditioning of heat sensitive microbiology media and to provide an optimal, homogeneous, temperature uniformity and stability to ensure drying is complete

Specifications	Requirement
Material of construction	<ul style="list-style-type: none"> • Should have double walled construction, with high quality insulated steel. Inner walls of 304 qualities SS, Outer walls of Epoxy Powder coated GI sheets/textured SS. • Facility for adjustable shelves, 8-10 removable shelves to be provided. • With internal lighting facility, Insulated door fitted with heavy hinges, mechanical door lock.
Capacity	<ul style="list-style-type: none"> • 200-600L
Temperature range	<ul style="list-style-type: none"> • Temperature should be thermostatically controlled • It should be Ambient +5°C to 250°C with temperature setting accuracy ± 0.5 °C with forced air circulation for temperature uniformity • Separate PT 100 sensor and display for temperature(LED/TFT) • Safety alarms
Unit	<ul style="list-style-type: none"> • Air ventilators to be provided on both side • The equipment should be provided with microprocessor controlled digital display • Temperature homogeneity between top and bottom shelves should be maintained by forced circulation
	<ul style="list-style-type: none"> • Certificate from an ISO17025 accredited lab for 3 different temperature points

Power supply	<ul style="list-style-type: none"> All electrical peripherals required for smooth functioning e.g. voltage stabilizers should be provided.
Accessories	<ul style="list-style-type: none"> Should have all the accessories required for the functioning of the equipment.
Certificates Performance and safety standards (specific to the device type); Local and/or international	Should be compliant with the requirements of FDA/CE/BIS Electrical safety conforms to the standards for electrical safety IEC 60601- General requirements(or equivalent BIS Standard) Certified to be compliant with IEC 61010-1, IEC 61010-2-40 for safety
Supplier/ Manufacturer	Must be ISO certified for quality
Service Support Contact details (Hierarchy Wise; including a toll free/landline number)	Contact details of manufacturer, supplier and local service agent to be provided; Any Contract (AMC/CMC/adhoc) to be declared by the manufacturer;
Recommendations or warnings	Any warning signs would be adequately displayed

4. DOUBLE DOOR (SIDE BY SIDE) REFRIGERATOR

Application: A refrigerator is used for storing reference cultures, media, homogenized samples, reagents etc

Specifications	Requirement
Material	Stainless steel
Capacity	Approx. 500 L and above
Adjustable Shelves	Tempered glass shelves 05 No.
Doors	Two Stainless steel doors side by side Refrigerator and freezer must be side by side
Temperature Range	Independent Digital display and temperature controls for refrigerator and freezer Refrigerator +2° to +8°C Freezer -15 to -20 °C
Audio alarm	Alarm if door is ajar for long
Inner body	Rust Free Material
Refrigerant	CFC / HCFC Free
Frost Free	In built Voltage Stabilizer Warranty 2years and Life time on motor
Door Lock & Interior light	High/Low cut with timer delay
Temperature Control	Same Temperature: Top to Bottom Microprocessor based Temperature Controller with Digital Display
Compliance statement	The quote should also include a compliance statement vis-à-vis specifications in a “tabular form” clearly stating the compliance and giving justification, if any supported by technical literature. This statement must be signed, with the company seal, for its authenticity and acceptance that any incorrect or ambiguous information found submitted will result in disqualification.
Warranty	2 years after successful installation and 10 years for the compressor
Payment	Payment only after installation, validation and performance demonstration
Warranty	<ul style="list-style-type: none"> Warranty for 3 years after satisfactory working excluding consumable parts and accessories.
Service contract clauses, including prices	<ul style="list-style-type: none"> List of all spares and accessories (including minor) with part numbers and price, required for maintenance and repairs in future after guarantee/warranty period should be attached;

Operating manuals, service manuals, other manuals	Should provide 2 sets(hardcopy and soft-copy) of:- <ul style="list-style-type: none"> • User, technical and maintenance manuals to be supplied in English language along with machine diagrams; • Service and operation manuals (original and copy) to be provided; • Advanced maintenance tasks documentation;
Supplier/ Manufacturer	Must be ISO 8655 certified for quality
Service Support Contact details (Hierarchy Wise; including a toll free/landline number)	Contact details of manufacturer, supplier and local service agent to be provided; Any Contract (AMC/CMC/adhoc) to be declared by the manufacturer;
Compliance statement	The quote should also include a compliance statement vis-à-vis specifications in a “tabular form” clearly stating the compliance and giving justification, if any supported by technical literature. This statement must be signed, with the company seal, for its authenticity and acceptance that any incorrect or ambiguous information found submitted will result in disqualification.
Payment	Payment only after installation, validation and performance demonstration

5. LABORATORY GRINDING MILL

Application: Mills grind by means of a high-speed rotating steel hammers or discs and are equipped with a sieve before the sample leaves the grinding chamber. By selecting different sieves, the particle size can be varied such that homogeneous samples are produced.

Specifications	Requirements
General	Cyclone type bench top sample mill (Lab scale).
Grinding speed	Micro switch- based system with high grinding speed (10000 rpm) for the grinding of samples like grains, seeds, cereals, hard boiled confectionery etc
Grinding principle	Turbine and sieve
Grinding ring	Made of tungsten Carbide/Copper Impeller-standard (aluminum).
Sample volume	Should be able to grind samples with different moisture levels i.e. from 10% or less to 15%
Sample composition	Should be able to grind samples with up to 15% moisture and/or fat content up to 20
Final particle size	Should have capability to grind sample size of up to 10 mm or more; Should have grinding rate of $\geq 4g/sec$ Should have provision for adjustable particle size; Should be supplied with Screen sieves for 0.5 mm, 2 mm, 1 mm, 0.8mm, 0.3 mm should be provided for defined particle size There should be no/ minimum thermal degradation of the sample during grinding Should be approved by AOAC for sample preparation for different purpose
Noise level	Low noise level of ≤ 75 dBA
Accessories	Sample bottles 100 to 125 ml and seal Accessory to enable pouring of samples into the milling zone Dust collection accessories Seal kit Minimum 50 sample bottles (UV protected) with sealing lids
Power requirements	230 V / 50 Hz – 230V/60Hz

Operating manuals, service manuals, other manuals	Should provide: - <ul style="list-style-type: none"> • User, technical and maintenance manuals in English language • List of equipment and procedures required for local calibration and routine maintenance • Service and operation manuals to be provided Advanced maintenance tasks documentation, if any.
Recommendations or Warnings	Any warning signs would be adequately displayed
Calibration certificate	Calibration certificate for noise level and particle size from ISO17025 laboratory
Warranty	2 years after satisfactory installation and working excluding consumable parts and accessories.

06. Bottle Cap Sealing Machine

No. of Capping Heads Four

Production Rate Up to 50 Containers/Minute

Container Diameter: 24mm to 90mm

Container Height: 50mm to 250mm

Cap Diameter: 20mm, 25mm & 28mm with the help of change parts

Power Specification: 1 H.P.

Electrical characteristics 440 Volts, 3 Phase, 50 Hertz, 4 Wire System

Conveyor Height 800mm to 900mm adjustable

Optional Accessories Safety Cabinet Covering Machine

– PLC with HMI

Overall Dimension 1500mm (L) X 850mm (W) X 1800mm (H) approx.

- **Compact GMP Model:** Ensures compliance with Good Manufacturing Practices.
- **No Bottle – No Capping System:** Prevents operation when no bottle is detected, reducing wastage.
- **Container Overturn – Machine Stop Mechanism:** Enhances safety by halting operations if a container overturns.
- **Inbuilt Pulse Counter:** Facilitates monitoring of production output.
- **Quick Changeover:** Allows easy adjustment between different container sizes using a single ratchet.
- **Stainless Steel Contact Parts:** Ensures durability and hygiene.
- **Single Motor Synchronization:** Coordinates conveyor, star wheel, and platform turret, with speed variation controlled by a Variable Frequency Drive (VFD).
- **Safety Clutch on Star Wheel:** Automatically stops the machine in case of jamming or overloading.
- **Digital Production Counter:** Provides accurate counting of production output.

07. Pouch Packing Machine (Four Head Weigher)

- Packing Range: 10 gm to 1 kg
 - Filling System (1 Multi Head Weigher) 10 head weigh Filler & 14 Head
 - Filling Accuracy: $\pm 0.1\%$
 - Type of sealing: Center Seal
 - Packing Material: Various types Ayurvedic Course Powder
 - Film size: 100 mm -450 mm width x 100mm -200mm length (Varies according to packing size)
 - Film Roll Type: Laminated Film in Roll Supported Film E.G. Speed: 40-60 bag/min (Varies with the nature of product & filling range)
 - Motor: 1-2 HP
 - Power: 2kw-230v/AC/Single Phase/50hz
 - Wooden Case: 300mm x 1000mm x 1000mm (HXWXL)
 - Machine Size: 72"85"126
 - Weight: 140 kg (Approx.)
 - Compressed Air: 6CFM @ 6bar
 - With Batch Coding Device, Batch Cutting Device, Auto Lubrication, Gas Flushing Unit Level
- Conveyer: Z-Shaped Baked Conveyer

8 TO and FRO Electric Kharal

- To & Fro Electric Kharal for Rasa Shastra
- Made of 2 cast iron /2Granite mortar 'To & Fro'action. Adjustable stroke 3.5-5.5"
- Number of strokes 15-25/minute. 1HP motor single phase 230 V. with plug & cord.
- The size of the kharal is as under Dimensions:

Outside length 33" width 20" height 13" wall thickness 2" Inside length 29" width 16" depth 9", Bottom thickness 5" with 4 Kharals

The Hardness of the Stone (Kharal) should be 7.0 or above.

09. Digital Spirometer

- Forced Vital Capacity (FVC), forced expiratory volume in one second (FEV1) to forced vital capacity (FVC) ratio (FEV1/FVC), peak expiratory flow (PEF), forced expiratory flow at 25 % of FVC (FEF25), forced expiratory flow at 50 % of FVC (FEF50), forced expiratory flow at 75 % of FVC (FEF75) and forced expiratory flow from 25 %~ 75 % of FVC (FEF2575) can be measured;
- The personnel information can be set.
- Volume ranges 0~10L Flow-volume chart, volume-time chart display.
- The data can be stored, deleted, uploaded and reviewed.
- Trend chart display.
- Health state indication.
- Calibration function.
- Over – limit prompt function for volume and flow.
- Indicate expiration within 6 seconds by indicators.
- Start measuring by one-button.
- The data can be transmitted by Bluetooth or USB cable.
- Real-time clock can be set and displayed.
- Battery power indication.
- Automatic shutdown when there is no operation within two minutes.

10 .Electrocardiogram machine

- 12 Leads Ecg Synchronous Sampling Systems
- Thermal Printer With 80mm Print Paper, Synchronization Print
- 10.2" Color Touch Screen, Both Push Botton And Touch Operation
- Autometic Measurement,calculation,analysis, Waveform Freezing
- Support Usb Flash Disk And And Sd Memory
- Data Transmitting To Pc Via Rs232/usb
- Patient Information Can Be Input
- Historical Data Can Be Reviewed And Printed
- Built In Rechargeable Lion Betetry, Ac\dc Power Conversion
- Sleep Mode To Save Energy And Extend Lcd Life
- Portable Design With Hidden Handle, Convient To Carry
- Lead Off And Lack Off Paper Detection Fuction
- 7level Printing Thick Can Be Choosen
- Adapt To 110-230v, 50/60hz Ac Power Supply

11. Weighing Scale

Weighing Scale Dimension – 260mm(L) x 260mm(B) x 18mm(H)

Net weight – 1000 g (1.0 kg)

Glass – 6mm Tempered.

Weighing Capacity – 180 kg

Accuracy – 100 g

Display – Reverse LCD Screen Display With Black Backlight And White Digits – Dimensions 74 mm x 28 mm and digit height of 23.5 mm

Power – 4 AAA batteries (Included for Immediate Use)

Approval – Model Approved By Legal Metrology Department

- **12. PYCNOMETER**
- Specification : Specific Gravity is the ratio of the weight in air of a given volume of a material at a standard temperature to the weight in air of an equal volume of distilled water at the same stated temperature. The

Pycnometer Bottle can be used to test a wide range of materials from clay to sand and gravel smaller than 10mm. It consists of 1kg Glass Jar with Brass Cone, Locking Ring and Rubber Seal.

- **13. Bunsen Burner**

- 1.1
- A small laboratory burner consisting of a vertical metal tube connected to a gas source and producing a very hot flame from a mixture of gas and air let in through adjustable holes at the base
- 2.1
- Suitable for operation with LPG and piped Natural Gas, conforming to international / national specification
- 2.2
- Designed with a flame stabilizer to provide a steady flame for general laboratory needs
- 3.1
- Should be based on sensor technology, the flame ignites in a non-touch mode. Unintentional ignitions should not happen; the reaction range of the infrared sensor should be clearly defined
- 3.2
- Should operate in three modes:

Foot switch: This ignites the instrument only when the foot switch is activated. Flame stays on for as long as the foot switch is pressed down.

Continuous: The duration of burning – between 10 and 60 minutes – is regulated via a timer.

Sensor: The sensor window registers your hand movement when it passes 6-8 cm in front of the window and then the flame is automatically ignited

14. ORBITAL SHAKER

Application: Shaking incubators are combination of traditional incubators and a laboratory shaker used to simultaneously incubate and shake or agitate samples. They are ideal for laboratory working on cell culture, cell aeration and solubility experiments.

Specifications	Requirements
Shaker requirements	<ul style="list-style-type: none"> • Single knob selects all operating conditions and quickly Triple- eccentric counter balanced drive • Acceleration circuit to prevent sudden start and stop should be available • Programmable controller offering up to 4 modes of timer and parameter control for reduced user intervention. • Timer 0.1 to 99.9 hours or continuous mode • UV germicidal lights. • Noise less operation
Shaking Speed range	25 to 400 rpm with ± 2 rpm accuracy
Temperature range	20°C below ambient to 80°C with accuracy of $\pm 0.1^\circ\text{C}$ and stability of $\pm 0.2^\circ\text{C}$ at 37°C
Shaking orbit	approx. 25 mm
Display	Large, easy to read LCD display screen
Audible and Visible Alarm	Should indicate when speed deviates more than 5 rpm or temperature deviates more than 1°C from set point, and when timer operation has expired.
Overall dimensions	Minimum 62 x 75.4 x 82 cm (W x D x H)

Accessories	<ol style="list-style-type: none"> 1. Universal Platform of at least 40 x 40 cm having capacity to holds assortment of various size of flask sizes up to 2 Ltrs and test tube racks. 2. System should be supplied with 125ml clamps (10 Nos.), 250 ml clamps (5 Nos.), 500 ml clamps (05 Nos.), 1000 ml (02 Nos.) and 2000 ml (01- 02Nos) 3. Test tube rack for 20x50ml tube-1 no and test tube rack for 42x15ml tubes-1
Operating manuals, service manuals, other manuals	<p>Should provide: -</p> <ul style="list-style-type: none"> • User, technical and maintenance manuals in English language • List of equipment and procedures required for local calibration and routine maintenance • Service and operation manuals to be provided Advanced maintenance tasks documentation, if any.
Recommendations or Warnings	Any warning signs would be adequately displayed
Warranty	2 years after satisfactory installation and working excluding consumable parts and accessories. Provision should be there to extend the warranty up to 3 years (at least).
Training	Training of personnel After supply, training on instrument operation and troubleshooting etc., to be given to all laboratory personnel.
UPS	UPS/Stabilizer as required for functioning of the equipment
Quality Requirement	<p>Should be compliant with the requirements of FDA/CE/BIS</p> <ul style="list-style-type: none"> • Electrical safety conforms to the standards for electrical safety IEC 60601- General requirements (or equivalent BIS standard) • Certified to be compliant with IEC 61010-1, IEC 61010-2-40 for safety
IQ/PQ/OQ	IQ/OQ/PQ of instrument and Software should be provided along with document
After sales service/ Post warranty	<p>Contact details of manufacturer, supplier and local service agent to be provided, including toll free/ Landline Number;</p> <p>Should have a good after sales service/technical support capable of reaching at short notice the places where instrument is installed. Visits and unlimited breakdown calls by service/application support, engineers should attend immediately without fail. Should carry out yearly PM with at least one PM kit</p> <p>Comprehensive AMC cost/rate for 3 years after warranty shall be quoted.</p> <p>Terms and conditions for the comprehensive AMC, after the warranty period has to be specified</p>
Compliance statement	The quote should also include a compliance statement vis-à-vis specifications in a “tabular form” clearly stating the compliance and giving justification, if any supported by technical literature. This statement must be signed, with the company seal, for its authenticity and acceptance that any incorrect or ambiguous information found submitted will result in disqualification.
Payment	Payment only after installation, validation and performance demonstration

15. Magnetic stirrer with hot plate

Number of stirring positions- 1
Stirring quantity max. per stirring position (H₂O) - 2L
Motor rating output- 2 W
Speed adjustment- scale 0 – 10
Speed range- 100 - 2000 rpm
Heat output- 400 W
Heating temperature range- room temp. - 250 °C
Heat control- scale 1 - 6
Fixed safety circuit- 400 °C
Set-up plate material- stainless steel
Platform Size- 140mm

Dimensions (W x D x H)- 150X230X110mm
Weight-3.5kg
Platform- Round
Permissible ambient temperature- 5 - 40 °C
Permissible relative humidity- 80 %
Protection class according to DIN EN 60529- IP 21
Voltage- 220 - 240 V
Frequency-50/60 Hz
Power input- 415 W

16 , Suction Machine

Suction Machine High Vacuum machine

Suction Machine Cabinet is made by mild steel with electrostatically powder coated mounted on 63 mm diameter on (4)

Rubber castors

Suction Machine has stainless steel top.

Suction Machine is fitted with Reuseable Filter Jars : 2 x 2 Ltrs.

The glass Jars are fitted with synthetic rubber lids with over flow safety device.

Vacuum Gauge has 76 mm diameter graduated in mm Hg.

Vacuum is -700 mm Hg \pm 10% which is controlled by knob.

Suction Capacity : 35 Ltrs/min.Power : 230V-50 Hz

Foot Switch Socket is provided for foot switch.

17. Clinical Thermometer Specifications and Features:

- Single touch usage and backlit LED display
 - **Fever Alert:** When it is inclined towards the red side, it indicates high fever, when towards orange, it indicates slight fever, and when towards green, it indicates normal temperature
 - **Dual mode verification:** Celsius and Fahrenheit check modes available
 - Low battery indicator and power-saving auto-shutoff feature
 - **Measuring Accuracy:** $\pm 0.3^{\circ}\text{C}$
 - **Response Time:** 1 Second
 - **Target Distance:** 5 cm
 - **Type of Display:** LCD
 - **Power:** DC 1.5x2 (2 AAA Batteries)
 - **Human Body Temperature Range:** 32°C - 42°C
 - **The Object Temperature Range:** 0°C - 100°C
 - **Storage Environment:** -10°C - 55°C
 - **Auto Shutdown:** 30 seconds
- **Accuracy:** 85% accuracy in identifying Nadi patterns as Vata, Pitta, and Kapha
 - **Software updates:** Regular updates to stay current
 - **Portability:** Lightweight and easy to carry
- Nadi Tarangini is a holistic approach to health that considers physical, mental, and emotional well-being. It uses the sensors to mimic a vaidya's manual Nadi Pariksha, and then analyzes the pulse waveforms to provide Ayurveda parameters.

14 Scope - Supply, Installation,

19. Technical Specification for Viscometer

- Viscosity range cP(MPaS): 1 to 2M
- RPM: 0.3-100 or 0.3-200
- Accuracy of viscosity : $\pm 1.0\%$ of range
- Repeatability : $\pm 2\%$
- Display Info: - Viscosity (cP or mPaS) - % Torque - Temperature ($^{\circ}\text{C}$ or $^{\circ}\text{F}$)
- Analog/digital outputs for recording torque and temperature
- Temperature off-set capability to : $\pm 1^{\circ}\text{C}$
- USB PC interface
- Optional: Adapter/accessory for measuring minimal viscosity ranges

20. Rapid mixer granulator

- Rapid Mixer Granulator 60 -80 Litres,

- Suitable for wet and dry granulation process,
- GMP Compliance model,
- all contact parts of SS-316,
- horizontal type,
- PLC controlled
- Additional quote may be for with touch screen with colour display for Complete Manual control panel in case of failure of PLC
- On line co-mill arrangement with VFD
- Motor: 5 HP, 440 Volt AC
- Suitable power / 3 phase elec. motor and
- Machine will be complete with Mixing Bowl, Mixing Blades, Granulator, Pneumatic Discharge, Motor, Gear Box, Operating Panel and the Control Panel.
- The Mixing Bowl should be cylindrical with a large diameter and flat base. The Top portion of the bowl will be conical in shape to assist circulation of cohesive powders.
- The Bowl would be fabricated from S.S. 316 Quality Stainless Steel with all internal and external surfaces polished to mirror finish.

21. Single Side Rotary Tablet Press Machine

Length - Standard

(iv) Die Diameter -Standard

(v) Die Height -Standard

Rated output (tablets/hour) 22800 to 50400

Max. operating pressure (Tons) 10

Max Tablet Diameter (mm) 25 It is GMP, single rotary tablet press machine with max tablet output of 22800 to 50400 tablet/hour. It is available with 20 stations for Pharma industry.

Standard Feature:

Gravity Feeding System

3pc turret with SS316 die table and contact part of SS316

Additional Feature-

- PLC Control with HMI & Printing Facility
- Force Feeding System
- ACVFD for Main & Feeder Motor
- Auto Lubrication System
- Powder level Sensing Device for Hopper
- Lower Punch Spray Lubrication
- Hopper with Agitator Assembling with ACVFD
- Upper with Lower Pc of Turret with ELNP Coating
- Provision for Core-rod Type Punch Arrangement
- Multi Tooling
- "CE" Certification

Technical Specification:

Machine Type -Single side rotary Tablet press Machine

No. of Station -20

Type of Tooling -D

(i) Purch barrel dia -Standard

(ii) Upper Punch length -Standard

(iii) Lower punch

Max. Depth of Dia fill (mm) 20

Max. Tablet Thickness (mm) 8

Upper punch penetration (mm) 3 to 6

Main Ele. Motor (kW/HP) 2.2/3.0

Power consumption (kW/HP) 2.2/3.0

Power supply 220/380/415/480V+10%,3Ph; 50/60Hz

Overall Dimension 97W x 112D x 181H

Net weight (kg) 1214

Case Dimension (cm) 130W x 135D x 208H

Gross Weight (kg) 1400

22. Pills cutting machine

- Output: 5-10 kg/hour (Depending upon Material and size of pills)
- To be able to make any size of pills from size 4mm to 12 mm.
- MOC: All contact parts SS 316. Non-contact parts SS 304
- Motor 0.5 HP
- With single set of change part

- Whole body of the machine is to be covered by S.S. and supplied with collecting trays.

23. Edge runner SS

- Capacity: 50,1 00 kg
- MOC: Contact parts - SS 316; Non-contact parts - SS 304
- Motor - 5 HP Siemens/ABB/Crompton
- Lid -Single piece with handle
- Scrappers - 3 mm thick S.S. fitted
- Rollers -two SS
- Starter -0.0.L
- All contact parts of SS and other parts covered by SS.
- Power source: electric
- Base is fitted on a heavy duty SS stand
- GMP compliance model

24. Hammer Crusher/Blender (Herbal Disintegrator)

- SS GMP model contact 316 and non-contact 304
- Feed Size: 50-80mm and less.
- Feed Material: Herbs
- Fineness: 20# - 40#
- Capacity at feed rate: 80-100 kg p/hr. (Its depends fineness of the material required).
- Moisture Content: less than 7.5%.
- Power required: I O HP.
- Provide with sieve set of assorted sizes

25. Planetary mixer for cream

Attachment of mixer- Dough Hook , Flat Beater, Wire whip
 Type of Mixer- Gear Drive
 Flour Capacity-4 Kg max Kneading
 Bowl Capacity-20 Liter
 Power- 1.5 KW
 Voltage- 220 V
 Frequency -50 / 60 HZ
 Usage- Flour, Cream & Stuffing
 Weight-54 - 60 Kg

26. Hand filling capsule machine

- Output - 6500 to 7000 capsules/ hr
- Length - 405 mm
- Width - 300 mm
- Height - 455 mm
- Weight - 40.0 Kg Features
- Function design for simplified operation giving precise result with negotiable rejection.
- Easy availability of spares.
- Capsule Size: 00. 0. I.2. 3. 4, 5.

27- Nadi Tarangani

diagnostic system that combines Ayurveda with data science technology:

- Sensors: Three piezo pressure sensors that are as sensitive as a vaidya's fingertips
- Dimensions: 280 mm x 95 mm x 75 mm
- Weight: 354 g
- Battery: 1800 mAh
- Charging: USB charging
- Input voltage: DC 3.7V
- Report output: Real-time pulse report with 22 Ayurvedic parameters in one minute
- Data: Lifetime access with secure data protocols

28- FUME HOODS

A. Fume hood superstructures shall be of double wall construction, with the exterior shell fabricated of 18 gauge, high quality, mild cold rolled steel and the inner wall liner fabricated of 1/4" thick non asbestos corrosion resistant Glastic Liner Board. Interior

to be metal free with bright white interior liners. Liner to provide superior resistance to chemicals and high temperatures. Other Fume Hood Liners are available when specified.

B. The exterior shell with its attached liner shall be rigid and self-supporting without reliance on the outer wall for support and stability. Access to fixture valves contained between the exterior and interior walls shall be through removable panels on the interior liner wall. Exterior access panels on both sides should provide easy access for maintenance and for adding additional service fixtures in the future. Interior access panels to have PVC soft gaskets on both sides to eliminate seepage into sidewalls. Interior and exterior panels are attached to a full perimeter epoxy coated steel frame for strength and durability.

C. Screws and other fastening devices shall not be visible nor exposed, with the superstructure flush and smooth. The exterior shell finished with baked-on, chemically resistant finish to match the other metal furniture in the laboratory.

D. The Fume Hood shall be provided with vertically operated counter-balanced sash, with the sash fabricated from ¼" ANSI II automotive safety glass, laminated safety glass,

29- Specification of Cell/Tissue Homogenizer

Specifications Cell/Tissue Homogenizer

Agitation speed range 0.80 m/s to 7.50 m/s (in steps of 0.05 m/s) 490 rpm to 4550 rpm (in step of 30 rpm)

Run Time 1 second to 90 seconds (in 1-second increment)

Pause Time 10 seconds to 600 seconds (in 1-second increment)

Number of Samples (Capacity) 1~24 samples • 24 x 2 ml tube holder • 12 x 7 ml tube holder

Accessories

Screw cap Tubes- 2ml tubes- 100

Beads-

0.4-0.6 mm glass beads

0.8-1.2 mm glass beads – 50 nos.

2.5-3.00 mm glass beads - 50 nos.

1.0-1.2 mm YTZP (94%) Beads- 50 nos.

1.4-1.7 mm YTZP (94%) Beads- 50 nos.

2.6-3.3 mm YTZP (94%) Beads- 50 nos.

2 mm SS beads- 50 nos.

3 mm SS beads- 50 nos.

Number of Cycles 10 to 15 cycles

Programmable (Stored) 99 Saved Programs

Power Supply 230 VAC/ 50Hz

Power Consumption 160 W

Warranty 2 years

30- High speed Refrigerated Benchtop Centrifuge Machine

Maximum Rotational Speed of Centrifuge 14,000 min⁻¹

Maximum Centrifugal Force of Centrifuge 20,800 x g

Maximum Rotational speed of Rotor A-4 445,000 rpm

Maximum Centrifugal Force of Rotor A-4 444,500 x g

Cooling Refrigerated

Temperature Range -9 °C to +40 °C

Sample temperature < 4 °C at maximum speed

Speed 200 – 14,000 rpm

Max. capacity 4 × 250 mL / 2 × 5 MTP

Acceleration/braking ramps 10/10

Number of programs 35 user-defined programs

Timer 1 min to 99 min, with continuous run function, short-spin

31- Digital Polarimeter Specifications

Principle- Automatic digital polarimeter with symmetric angular oscillation using the optical-null balance method
Light Source- Tungsten-Halogen lamp (WI), Sodium lamp (Na), Mercury lamp (Hg) (Up to two light sources can be installed.)

Modulator- Faraday cell

Wavelength- 253, 280, 296, 313, 302, 325, 334, 365, 405, 436, 546, 578, 589, 633, 880 nm

Aperture- 1.8, 3 and 8 mm diameters

Angular Range- ±90°

Response Speed- 6°/sec

Measurement Accuracy- ±0.002° (up to 1°)

Repeatability- ±0.2% (larger than 1°) 0.002°

Resolution- 0.0001°

Integration Time- 1 - 100 sec

Detector- Photomultiplier tube (1P28-01) (R928 - option)

Readout Modes- Optical rotation, optical specific rotation, concentration, sugar scale Z, Brix purity, optical purity
Temperature Measurement Range- 0~40°C (minimum display temperature: 0.1°C)
Dimensions-653 (W) x 249 (D) x 364 (H) mm
Weight- Approx. 30 kg
Power Requirement- AC100~240V ±10%, 50 or 60 Hz, 80 - 300 W

32. Electrolyte Analyser with Lithium Facility

1. Fully automatic microprocessor based on selective Electrolyte Analyser which measure Sodium, Potassium, Lithium and also giving seven different interchangeable electrolyte configuration with only one Snap pack (Reagent Pack).
2. Upgradeable to measure Calcium and Chloride.
3. Should be able to measure in whole blood, serum, plasma and urine.
4. Alphanumeric display.
5. Built in thermal printer.
6. Sample size 95 micro liters.
7. Assay range (mmol/l)

Sodium - W.B/Serum/Plasma/ 40-205

Urine 1-300

Potassium - W.B/Serum/Plasma/ 1.5-15

Urine 4.5-120

Chloride - W.B/Serum/Plasma/ 50-200

Urine 1-300

Calcium - W.B/Serum/Plasma/ 0.2-5.0

Urine ---

Lithium - W.B/Serum/Plasma/ 0.1-6.0

Urine ---

8. Automatic flagging of abnormal patient results.
9. Automatic 1 point calibration with each sample and automatic 2 point calibration with every 4 hours.
10. Automatic internal cleaning by Reagents and Atmospheric air.
11. Flame equivalent results for Sodium and Potassium, user programmable correlation factors for blood, serum, plasma, urine and dialysate (to compare with existing equipments)
12. Warning and alarm system to monitor performance.
13. Standby mode (automatic and manual activation) to conserve reagents.
14. Facility for calculating the mean, S.D. and C.V. for up to three levels of control to ensure reliable results.

Conditions :

1. The system should have 3 years warranty from the date of installation.
2. The system should have 5 years AMC after completion of the warranty period.
3. All spares & accessories required for the system should be available for the next 10 years
4. The firm should have to arrange for demonstration of the item quoted, at the department premises.
5. Registered firms can only quote for the above mentioned item. If not, they should register their firms in JIPMER, before submitting quotation.

Note: Consumables for the first year must be included.

33 – Cell counter (Hamatology) Analyzer

Principle Tri-angle laser scattering, flow cytometry for WBC differentiation and count impedance for RBC and PLT countCyanide-free method for HGB

Parameters 28 parameters: WBC, BAS#, BAS%, NEU#, NEU%, EOS%, LYM#, LYM% MON#, MON%, RBC, HGB, MCV, MCH, MCHC, RDW-CV, RDW-SD, HCT PLT MPV, PDW-CV, PDW-SD, PCT, P-LCR, P-LCC, NLR, PLR 8 research parameters: LIC%, LIC#, ALY%, ALY#, NRBC%, NRBC#, PLT Clumps%, PLT Clumps#, 2 histograms for RBC and PLT4 scattergrams for WBC diferential NLR, PLR. (Inflamation indicator for covid). Low PLT detection mode, Low WBC detection mode, High Voltage flush mode for clot removal, ALY, LIC, PLT Clump, NRBC

Throughput 60 samples per hour

Calibration Manual, auto and fresh blood calibration

Quality control 3 level QC, L-J graph, X-B

Sample Volume (WB) CBC + DIFF mode: 20µL Prediluted mode: 20µL

Reagents 3 Reagents (2 Lyses + 1 Diluent) 1 Probe cleanser for maintenance

Printout Built-in thermal printer Support external printer, PCL6

Maintenance Sample probe auto-cleaning

Temperature 10°C-30°C

Interface 4 USB ports, 1 Network port 1 DB9 serial port HL7 protocol support Bi-directional LIS connection
 Blockage clear High voltage, high pressure flush
 Power AC 100-240V, 50/60 ±1Hz
 Dimension 430 (D)mm x 350(W)mm x 430(H)mm
 Weight 28kg
 Display 10.4- inch color touch screen (LCD), Resolution: 800x600
 Storage - 60,000 sample results with scattergrams and histograms

34. MUFFLE FURNACE													
<p>Application: A muffle furnace generates the high-temperature up to 1600 °C and turns the sample into ash. The chemical composition can be determined easily after determining the ash content. It is the best way to determine the quality and levels of silica of the food products.</p>													
Specification	Requirements												
Inside Chamber Volume	<ol style="list-style-type: none"> a. 7 L or better b. With lift door with hot surface facing away from the operator and swing aside door at the front 												
Furnace construction	<ol style="list-style-type: none"> 1. Double shell steel case with cooling fan to keep outside case cool 2. High purity alumina fiber insulation for max. energy saving 												
Temperature Range	900 - 1600 °C												
Standard Working Temperature	1200°C												
Temperature accuracy	+/- 1.0 °C												
Heating element	The chamber section should be heated by six to eight Super Kanthal Molybdenum disilicide heating elements (Super 1800 grade MoSi2) suspended in a chamber made of high temperature refractory fiber lined with a combination of ceramic fibre blankets												
Heating rate	The furnace should be of fast heating type with the maximum attainable temperature should reach as a ramp function in less than one hour.												
Thermocouple	Pt. Pt. Rh. Thyristor controller will be provided along with the furnace to measure the temperature with Recrystallized alumina sheath & connecting holder complete set.												
Temperature Control	<ul style="list-style-type: none"> • PID automatic and programmable power control with necessary safety features • Over-temperature limiter with adjustable cut-out temperature for thermal protection class 2 in accordance with EN60519-2 as temperature limiter to protect the furnace and load 												
Cooling Fan/ Air Circulation	Attached with Furnace, provided inside the control unit to protect Costly component												
Maximum power	Up to 8 KW												
Accessories to be supplied	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Al₂O₃SamplePlate</td> <td style="width: 50%;">1pcs</td> </tr> <tr> <td>Al₂O₃ Furnace Door Block</td> <td>1 pcs</td> </tr> <tr> <td>Protection Glove</td> <td>2 pairs</td> </tr> <tr> <td>Crucible</td> <td></td> </tr> <tr> <td>Clip</td> <td>1 pair</td> </tr> <tr> <td>Crucibles</td> <td>6pcs</td> </tr> </table>	Al ₂ O ₃ SamplePlate	1pcs	Al ₂ O ₃ Furnace Door Block	1 pcs	Protection Glove	2 pairs	Crucible		Clip	1 pair	Crucibles	6pcs
Al ₂ O ₃ SamplePlate	1pcs												
Al ₂ O ₃ Furnace Door Block	1 pcs												
Protection Glove	2 pairs												
Crucible													
Clip	1 pair												
Crucibles	6pcs												
Calibration Certificate	From ISO 17025/NABL accredited laboratory												
Installation, training and commissioning	Vendor must ensure satisfactory installation and commissioning of the system.												
Operating manuals, service manuals, other manuals	<p>Should provide</p> <ul style="list-style-type: none"> • User, technical and maintenance manuals in English language • List of equipment and procedures required for local calibration and routine maintenance • Service and operation manuals to be provided Advanced maintenance tasks documentation, if any. 												
Recommendations or Warnings	Any warning signs would be adequately displayed												

Warranty	2 years after satisfactory installation and working excluding consumable parts and accessories. Provision should be there to extend the warranty up to 3 years (at least)
Training	The supplier will have to carry out successful Installation at the laboratory premises (where ever the system has to be installed) and provide on-site comprehensive training for a minimum of two scientific personnel operating the system till customer satisfaction
List of Spares and Accessories	Provide list of all essential spares and accessories
UPS	UPS/Stabilizer as required for functioning of the equipment
Quality Requirement	<ul style="list-style-type: none"> • Should be in compliance with the requirement of FDA/CE/BIS. • Electrical safety conforms to the standards for electrical safety IEC 60601- General requirements (or equivalent BIS Standard) • Certified to be compliant with IEC 61010-1, IEC 61010-2-40 for safety • Should have necessary certification for safety and quality standards from national/ international bodies
IQ/PQ/OQ	On site IQ, OQ of instrument along with document to be provided & supplier to assist till satisfactory PQ of instrument
After sales service/ Post warranty	Contact details of manufacturer, supplier and local service agent to be provided, including toll free/ Landline Number; Should have a good after sales service/technical support capable of reaching at short notice the places where instrument is installed. Visits and unlimited breakdown calls by service/application support, engineers should attend immediately without fail. Should carry out yearly PM with at least one PM kit Comprehensive AMC cost/rate for 3 years after warranty shall be quoted. Terms and conditions for the comprehensive AMC, after the warranty period has to be specified
Compliance statement	The quote should also include a compliance statement vis-à-vis specifications in a “tabular form” clearly stating the compliance and giving justification, if any supported by technical literature. This statement must be signed, with the company seal, for its authenticity and acceptance that any incorrect or ambiguous information found submitted will result in disqualification.
Payment	Payment only after installation, validation and performance demonstration
After sales service/ Post warranty	Contact details of manufacturer, supplier and local service agent to be provided, including toll free/ Landline Number; Should have a good after sales service/technical support capable of reaching at short notice the places where instrument is installed. Visits and unlimited breakdown calls by service/application support, engineers should attend immediately without fail. Should carry out yearly PM with at least one PM kit Comprehensive AMC cost/rate for 3 years after warranty shall be quoted. Terms and conditions for the comprehensive AMC, after the warranty period has to be specified
Training	The supplier should provide comprehensive training to users on operation of the instrument and application support onsite as per specifications
List of Spares and Accessories	List of all spares and accessories (including minor) with part numbers and price, required for maintenance and repairs in future after guarantee/warranty period should be attached
UPS/Stabilizer	Suitable rating UPS/Stabilizer
Quality Requirement	Should be compliant with the requirements of FDA/CE/BIS Electrical safety conforms to the standards for electricalsafety IEC 60601- General requirements (or equivalent BIS Standard) Certified to be compliant with IEC 61010-1, IEC 61010-2-40 forsafety
IQ/PQ/OQ	On site IQ, OQ of instrument along with document to be provided & supplier to assist till satisfactory PQ of instrument

Compliance statement	The quote should also include a compliance statement vis-à-vis specifications in a “tabular form” clearly stating the compliance and giving justification, if any supported by technical literature. This statement must be signed, with the company seal, for its authenticity and acceptance that any incorrect or ambiguous information found submitted will result in disqualification.
Payment	Payment only after installation, validation and performance demonstration

35-BP apparatus without mercury

Measure unit -mmHg.
 Minimal scale LCD/LED column: - 2mmHg.
 Measure method- Stethoscope.
 Measure scope LCD/LED Column, 0-280mmHg.
 Numerical display- 0-300mm Hg.
 Pulse rate- 30-200/min, +/- 5%.
 Pressurization Manual by bulb.
 Depressurization manual by air release valve

36. Electronic Baby Weighing Scale

TypeTable top electronic baby weighing scale with LCD display
 Pan or baby tray size (WxHxD)(mmxmmxmm)550x300x100
 Weight (Kg)4
 Material of the pan or baby trayAcrylic
 Warranty (Yrs)1

37. Bilirubinometer

Technical characteristics
 (specific to this type of device)
 1) Sample volume of < 100 µL required, automatic calibration facility.
 2) Total bilirubin concentration measurable (at least) in range of 0 to 30 mg/dl.
 3) Time for total concentration measurement: ≤ 5 seconds.
 4) Should have filters: 455 and 575 nm (± 2%).
 5) Should have error rate less than 5%.
 6) Should have resolution- 0.1 mg/dl.
 7) Automatic correction for Hemoglobin.
 8) Measuring cell: Direct Hematocrit capillary readings.
 9) heparinized hematocrit glass capillary

Dimensions (metric) Approx. 110 x 150 x 200 mm.
 3.2 Weight (lbs, kg) 5 kg - 15 kgs
 3.3 Configuration (Ex : Compact, modular, to be fixed to walls, ceiling, etc).
 3.4 Noise (in dBA) <60dB
 3.5 Heat dissipation Heat Dissipation:
 Should maintain nominal temp and the heat should be disbursed through an cooling mechanism.
 3.6 Mobility, portability Easy and safe transport to be possible by hand, stable when tabletop mounted;

38. Printer

LaserJet Pro Printer is perfect for small businesses and home offices. It prints at speeds up to 18 pages per minute, and has a 250-sheet input tray. LaserJet Pro Printer is an all-in-one monochrome printer that is small and lightweight, making it perfect for use in a home or small office. It has a frequency of 60 Hz and dimensions of 349x238x196 mm without its stand. The printer can handle media with a weight of 60 to 163 g/m and can produce output at a speed of up to 16 ppm. **LessPrinter Type LaserConnectivity USBConnectivity HighlightsNoSystem CompatLinux, Windows, macOSPrint Speed Mono18 ppm**
Print Res B&W600 x 600 x 2 dpi (1200 dpi effective output)Ink TypeLaserPhoto QualityNoTop Use CasesDocument printingTypical UsersHome users, Small office usersAuto DuplexNoAuto Doc FeederNoPaper Tray Cap150 sheetsMedia SizeA4Media TypePaper (laser, plain, photo, rough, vellum), cardstock, envelopes, labels, postcards, transparenciesTouch ScreenNoDrivers IncludedYes
Power Consumption
 0.6 W (Manual-Off), 0.9 W (Auto-Off), 1.4 W (Ready), 360 W (Printing)

39- Implement standard: AHA (American Heart Association) 2020 guideline for CPR and ECC
 CPR manikin features:

40- NeoNatalie is an inflatable simulator designed to teach basic neonatal resuscitation skills. Developed to meet the key requirements for teaching the initial steps of resuscitation in the first ten minutes of a newborn's life, NeoNatalie is an effective, cost-efficient tool to enhance your training program. Heartrate, Breathing and Crying

41- Movable head, neck, hand and foot, replacable chest-skin
Cephalic Venipuncture
Umbilical Venipuncture
Oral and Nasal Intubation Nursing
Care Of Gastrolavage, Enema, and Urethral Catheterization
Ostomy
Deltoid Subcutaneous Injection and Buttocks IntramuscularInjection
Holistic nursing: sponge bath, replacing clothes, lactation and Diaper Changing

42- Replica of a child hand;
Manually squeeze the bulb to simulate the radial pulse and fix the injection site. Supports radial artery puncture, haemostasia and transfusion, and there will be obvious "Pop" feeling when the needle penetrates into the artery, and blood backflow indicates proper puncture.

43- Simulates the arm of child (4 years old). Life like arm reproduction with multi-vein system designed for peripheral intravenous therapy.

44- Simulation of right ear, standard intra-aural examination site. Accurate anatomical structure of auricle, external auditory canal, tympanic membrane. Ear lesion examination via otoscope. Provide 14 kinds of ear lesion components for conveniently replacing. Include: Normal auricle, Normal ear drum, Tympanic membrane hyperemia, Otopiesis, Small tympanic membrane perforation, Whole tympanic membrane perforation, Traumatic perforation of tympanic membrane, Myringotomy and tube insertion, Tympanosclerosis, Tympanosclerosis crescentic sclerosis plaques, Serous otitis media effusion, Early acute congestive otitis media, Chronic suppurative otitis media, Pearly tumor and Osteoma of external auditory canal. Earwax clean-up operation practice.

45- Replacement of different eye ground diseases, slide simulates common clinical ophthalmopathy, including: Normal retina Age-related retina macular degeneration /colloid bodies Central retinal vein occlusion Hypertensive retinopathy, Papilledema, Excavation of optic disc, Optic atrophy, Mild background diabetic retinopathy, Background (pure) diabetic retinopathy Pre-proliferative diabetic retinopathy, Pre-proliferative diabetic retinopathy, Hypertrophic diabetic retinopathy Diabetic retinopathy, Realistic affection, easy to replace and operate. In favor of repeated contrast observation. Provides 15 kinds of retinopathy accessories.

46-1. Simulate an adult head and neck;
2. Accurate anatomic structure with nasal and nasal septum;
3. Simulate all clinical symptoms of epistaxis and train students ability to deal with contingency;
4. Provide trainings of simple hemostasis, cauterization and nasal packing;
5. Green light indicates successful hemostasis;
6. Can control the speed and amount of bleeding

47- 4 stages of ulceration
Decubitus ulcer kinds: sinus, fistula, corruption scab, infection, bone exposure, eschar, suturing incision, Herpes and Monilia infection.
Incision washing, evaluation and measurement
Size: 37cm*19.5cm*29.5cm

48- 1. Collects most common clinical normal and pathological heart sounds and breath sounds;
2. Wearable design
3. Teacher can choose different heart and lung sounds at random for students' diagnosis
4. Multiple auscultation sites for heart sounds and lung sounds are built in the front chest, back and midaxillary line, etc.
5. Choose different sounds via remote control for auscultation exercise.

49- 1. Collects most common clinical normal and pathological heart sounds and breath sounds;
2. Wearable design
3. Teacher can choose different heart and lung sounds at random for students' diagnosis
4. Multiple auscultation sites for heart sounds and lung sounds are built in the front chest, back and midaxillary line, etc.
5. Choose different sounds via remote control for auscultation exercise.

50- 1. Half-body male manikin
2. Rotatable, convenient to maintenance and delivery
3. Resonance cavity structure principle makes cardiopulmonary sound fully save and kept tone
4. Over 80 kinds of Hi-fi auscultatory sounds

51- Accurate anatomical

marks Oral or nasal cavity intubation. Wrong operation, stomach inflation or laryngoscope compressing the teeth will activate warning, prompting One proper pupil and another mydriasis.

52- This manikin is an ideal teaching aid of pneumothorax decompression and closed chest drainage of hydropneumothorax. Features:

1. Pneumothorax decompression, closed chest drainage of hydro pneumothorax and drainage tube care after operation can be practiced.
2. There are two visual windows in right thorax to show each layer of anatomical structures.
3. Pneumothorax decompression training, closed drainage of hydro pneumothorax training and thoracocentesis training in the left thorax.
4. The color, volume and viscosity of the drainage solution can be regulated.
5. The puncture cushion and drainage wounds cushion can be replaced.

53- Simulate bed patient and old people, who can't defecate by themselves. The abdominal wall can be opened so as to directly observe the operation. Disassembly and washing is very simple.

54- Full body life-like male manikin specially designed for professional trauma nursing care. High quality manikin provides wide range of exercises: opened fracture on right hand (including parenchyma, laceration, fracture and bone tissue exposure) gun wound in the right palm
opened fracture in the right thigh bone closed tibia fracture on right leg and contusion wounds in left ankle and foot. opened numerous fracture of right upper arm opened clavicular fracture and contusion wound on the chest wound in the abdomen with small intestine visceration

compound femur fracture on left thigh

metal pricking wound in left thigh

Trauma Evaluating Module

Bed bathes, dressing and undressing

Hair washing Face washing Irrigation of the eyes and ears Oral cavity care Oxygen inhalation Nasal feeding Lavage Oral cavity intubations Nasal cavity intubations Tracheotomy care Organs cavity of thorax Venipuncture and injection, transfusion Deltoid injection Male urethral catheterization Female urethral catheterization Gluteus injection Ostomy irrigation Organs structure of abdominal cavity Trauma Nursing Skills:- opened tibia fracture of right leg opened fracture of right foot with truncating trauma on small phalanx burns in left forearm 1st, 2nd and 3rd degree truncating trauma on left thigh facial burns of 1st, 2nd and 3rd degree laceration in forehead the wound in jaw

55- This arm model can demonstrate the following items: Vein phlebotomy on elbow forearm, Vein injection on elbow forearm, Vein blood transfusion on elbow forearm, Vein liquid transfusion on elbow forearm.

56- Demonstrate and practice male urinary catheterization. Teach sterile technique and insertion and removal of urinary catheter. Practice preparing the perineal area for the procedure New material that has realistic feel and flexibility 16 Fr catheter can be used to demonstrate balloon inflation procedures Fluid reservoir allows for urine output upon successful completion of the insertion procedure Mounted on a training stand and can be used on a tabletop or for patient simulation

57- Demonstrate and practice female urinary catheterization. Teach sterile technique and insertion and removal of urinary catheter Practice preparing the perineal area for the procedure Features include: New material that has realistic feel and flexibility 16 Fr catheter can be used to demonstrate balloon inflation procedures Fluid reservoir allows for urine output upon successful completion of the insertion procedure Mounted on a training stand and can be used on a tabletop or for patient simulation.

58- The simulator provides commonly used surgical incisions, which simulate all kinds of female thoracic and abdominal incisions, tube drains and amputation stump. Can practice wounds treatments of washing, disinfecting, changing dressing, bandaging and etc. The skin is dry, soft and flexible, allowing the bandages to adhere better.

Features: Thyroidectomy, Mid-sternal split - with two chest tube drains, Right mastectomy - with simulated drain, Right cholecystectomy - with simulated T-tube, Laparotomy, Appendectomy, Left colostomy, Right ileostomy, Abdominal Hysterectomy (transverse incision), Left nephrectomy (thoraco-abdominal incision), Right nephrectomy (oblique incision), Laminectomy, Sacral decubitus ulcer - stage 2 and Right thigh amputation

59- This manikin is an ideal teaching aid of pneumothorax decompression and closed chest drainage of hydropneumothorax. Features:

1. Pneumothorax decompression, closed chest drainage of hydro pneumothorax and drainage tube care after operation can be practiced.
2. There are two visual windows in right thorax to show each layer of anatomical structures.
3. Pneumothorax decompression training, closed drainage of hydro pneumothorax training and thoracocentesis training in the left thorax.
4. The color, volume and viscosity of the drainage solution can be regulated.
5. The puncture cushion and drainage wounds cushion can be replaced.

60- This product is the simulation nurse. It can be put in various positions according to the need, widely used in all kinds of first aid teaching and practical operation. Simulate closed limb fracture trauma. Students can be familiar with the signs and symptoms of fracture and conduct first-aid external fixation training. Simulation included closed fractures of radius and ulna in the forearm of the upper extremity, tibia and fibula in the lower extremity, and complex injuries in the thigh. For perform the cleaning, disinfection, dressing, reduction, fixation and handling of the wound site training. This product is the simulation nurse. It can be put in various positions according to the need, widely used in all kinds of first aid teaching and practical operation.

61- combining 2020 International CPR standard, the product functions are completely improved. It highlights the examination and judgment before CPR operation which much more in line with the real clinical CPR operation requirement, improving survival rate. Im

62- Prostate examination mainly relies on rectal touch, which is the most simple examination method for BPH and must be carried out. Clear anatomical structure: prostate gland, glandular seminalis, rectum and anus; Four prostate palpation modules: normal size as chestnuts, I degree of hyperplasia as egg, II degree of hyperplasia as ducks egg, III degree of hyperplasia as geese egg; Four rectal touch modules: normal rectum, rectum cancer A, rectum cancer B, polyp; Cervical canal module; Support enema operation.

63- General care: change diapers, change clothes, mouth care, cold and hot therapy, bandaging;
2. Venous transfusion/puncture, arm veins include and Scalp vein includes.
3. Umbilical cord care: ligature of umbilical cord, umbilical venous intubation and transfusion;
4. Gastric intubation: detect tube position by means of auscultation; can practice gastrointestinal decompression, nasal feeding, gastric lavage, etc.
5. Bone marrow puncture: practice tibial puncture; outflow of simulated bone marrow shows proper puncture operation; drug liquid can be injected into and can practice transfusion operation;
6. CPR operation training: Supporting multiple breathing ways by mouth to mouth, mouth to nose and simple respirator to mouth; electronically monitor compression; frequency and volume of blowing, compression times, frequency and depth, blowing and compression can be trained separately.
KKI- J140 Baby Obstruction / Infant CPR Simulator

64- Simulate bed patient and old people, who can't defecate by themselves. The abdominal wall can be opened so as to directly observe the operation. Disassembly and washing is very simple.

65- Venous access: Basilic V Cephalic V Digital V Dorsal Metacarpal V Median Basilic V Accessory Cephalic V Extensive venipuncture system Median Antebrachial V Median Cephalic V Median Cubital V Thumb V. This revolutionary training arm provides complete venous access for IV therapy and phlebotomy, plus sites for intramuscular and intradermal injections. An extensive 8-line vascular system allows students to practice venipuncture at all primary and secondary locations, including starting IVS and introducing OVER the Needle IV Catheters. The venous system simplifies setup with only one external fluid bag supplying artificial blood to all veins simultaneously. The dorsal surface of the hand includes injectable metacarpal, digital, and thumb veins. The antecubital fossa includes the median cephalic, median basilic, and median cubital veins. Venipuncture can also be performed along the basilic, cephalic, accessory cephalic and median antebrachial veins. Intramuscular injection may be performed in the deltoid muscle and intradermal injection sites are located in the upper arm. Intramuscular injections into the deltoid muscle are enhanced by the soft, lifelike skin and by the natural bony landmarks in the region. Intradermal injections using distilled water will create characteristic skin welts at designated sites on the upper arm. The realism of the Advanced Venipuncture and Injection Arm is truly amazing. The soft, flexible fingers are molded separately with extreme attention paid to every detail—right down to the fingerprints! Flexion of the wrist helps students develop manipulation skills. A discernable “pop” is felt when entering the veins. The molding process reproduces the fine details of the skin to make the arm look and feel alive. Valves in the veins can be seen and palpated on the skin surface.

66- Product Anatomy:
Torso featuring abdomen, pelvis and lower part of thorax
Bony landmarks include ribs, costal margin, xiphisternum, pubic crest and anterior superior iliac spines
3 Livers: slightly enlarged, enlarged with smooth edge and enlarged with irregular edge
2 Spleens: slightly enlarged and markedly enlarged
2 Enlarged Kidneys
Distended Bladder
2 Aortas: normal and aneurysmal
Set of 6 Abdominal Pathologies including 4 smooth masses and 2 irregular hard masses
Distension Set including ascitic bag, gaseous distension bag, pump and foam insert
Simplified representation of lower thoracic and lumbar spine

67- Combining 2020 International CPR standard, the product functions are completely improved. It highlights the examination and judgment before CPR operation which much more in line with the real clinical CPR operation requirement, improving survival rate.
Implement standard: AHA (American Heart Association) 2020 guideline for CPR and ECC

68- 1. The manikin features flexible and elastic skin with marks of the auscultatory site, anti-aging, sturdiness and durability.
2. Controlled by micro-computer; a variety of normal and abnormal ECG signals are stored in the manikin; each ECG signal is showed by the analog-to-digital code.
3. Connect with the common ECG or ECG monitor when using, and connect the lead wire of the ECG machine to the relevant parts of limbs and chest respectively
4. For teaching practice and assessment, operate the code button on the manikin panel and input the ECG code according to your need, then ECG waveform will be automatically described via the ECG machine and monitor
5. Realistic waveform and adjustable heart rate.

69- Features:

Hair and face washing, Eye and ear washing and administering, Mouth cavity care, Endotracheal intubation, Oxygen inhaling, Nasogastric intubation, Sputum suction, Oral and nasal cavity intubation, Carotid artery pulse.

70- Palpation of normal and pregnant uterus

Bi-manual pelvic and tri-manual pelvic examination

Vaginal examination

Visual recognition of normal and abnormal cervixes

Contraceptive instrument insertion and removal.

Observation of uterus, ovary, fallopian tubes, and ligaments

Normal and abnormal uterus and attachment model

Place and remove IUD by using the guide fork of contraceptive ring

Gravid uterus (Five-month fetus)

Extra-uterine pregnancy (ampullary pregnancy)

Salpingoemphaxis

71- This IUD training model is based on real anatomy of female genitalia; we designed this model for instructing or training of insertion or removal IUD. The uterus is in coronal section and covered with transparency plastic window. So students can directly observe the entire insertion or removal process.

72- Mama Natalie is particularly realistic for training control of postpartum hemorrhage - the number one cause of maternal death during childbirth - and communication with the mother. Mama Natalie's features include: Realistic bleeding, Positioning and delivery of the baby, Delivery of the placenta (complete and incomplete) Fetal heart sounds, Cervix landmark, Urine bladder catheterization, Uterine massage (atonic and contracted uterus), Bimanual compression.

73- Designed for practice of perineum cutting and suturing. The main structure of the simulator is a perineum, which is made of simulative foam, and the inner muscle is soft PVC. This simulator is mounted on a plastic framework, easy disassembly. There are handles in the back and bottom of the simulator to adjust tension of the perineum.

74- Features:

1. Palpation

2. Pelvic measurement and

3. Mammary nursing trainings

75- Personal Digital Weighing Scale Very accurate; Features a thick tempered glass that is virtually unbreakable with normal use (and normal human being use, 400 lbs capacity). Also this one holds the weight once it is counted for few seconds & then renew it to zero

76- Key Specifications & Dimensions:

Measuring Range: 20 cm - 210 cm

Graduation: 1 mm (measures in inches and centimeters)

Material: Durable plastic construction for lightweight portability

Dimensions: Adjustable height stand with a firm vertical support

Assembly: Disassembles into 4 sections for easy transport; supplied with an English assembly manual

77- Bp Monitor is a fully d-pressure measuring device for use on the arm, which enables very fast and reliable measurement of the systolic and diastolic blood-pressure as well as the pulse frequency by way of the oscillometric method of measuring. The device offers a very and clinical tested measurement accuracy and has been designed to provide a maximum of user-friendliness.

78- Laser Pointer : Built in laser technology helps ensure the most accurate readings possible. Aim digital thermometer at target surface and press trigger, the thermometer safely measures temperatures Fever Warning: A fever reminder when the temperature reaches 38 C. The red backlight and short beep warn the patient. Better understand your physical condition High Accuracy

79- Simulation of right ear, standard intra-aural examination site Accurate anatomical structure of auricle, external auditory canal, tympanic membrane. Ear lesion examination via otoscope. Provide 14 kinds of ear lesion components for conveniently replacing Include: Normal auricle, Normal ear drum, Tympanic membrane hyperemia, Otopiesis, Small tympanic membrane perforation, Whole tympanic membrane perforation, Traumatic perforation of tympanic membrane, Myringotomy and tube insertion, Tympanosclerosis, Tympanosclerosis crescentic sclerosis plaques, Serous otitis media effusion, Early acute congestive otitis media, Chronic suppurative otitis media, Pearly tumor and Osteoma of external auditory canal. Earwax clean-up operation practice.

80- The AT 900 is a purely mechanical instrument and the AT 900 D introduces advantages from digital technology. Haag-Streit offers two models of the Goldmann applanation tonometer

81- It non-invasively and instantly tests the transcutaneous concentration of bilirubin correlative with serum bilirubin concentration by placing it on neonatal skin that prevents the neonates from any discomfort brought by a blood draw. Moreover, it reduces test costs and increases the working efficiency of doctors and nurses.

82- Dimensions: 30 x 25 x 20 cm

Weight: 3.5 kg

Display: 7-inch color touchscreen

Measurement Range: Sodium, Potassium, Chloride, Calcium, and Magnesium

Sample Types: Serum, Plasma, Urine

Speed: Results in under 5 minutes

Data Connectivity: USB and Wi-Fi enabled

Materials: Durable casing and precision-based electrodes

Compliance: Meets stringent healthcare industry standards

83- Fully automated Blood Culture system.

Designed to detect microbial growth from Blood specimens or sterile body fluids.

Using colorimetric detection technology

Using Resin in media for antibiotic neutralizing system

Using multi-layer plastic bottles to minimise accidental breakage, accidental spillage of bottles

32 bottles can load simultaneously

Bottles can be load continuously

Continuous monitoring for every individual bottle every 10 minutes

Continuously agitation and incubation of bottles improve rapid growth of organisms

Real-time growth curve is visible

Dual bar code management system to avoid errors during daily operation

Compact design with built-in computer and external touch screen facility

Audible, visible light and color alarm for better easy operation

Offers Aerobic, Anaerobic and paediatric bottles for different type of organisms and different volume of samples

System can be connect to LIS

84- Biosafety Cabinets (BSCs) are enclosed workspaces with a ventilated hood that is designed to contain pathogenic microorganisms during microbiological processes.

The primary purpose of biosafety cabinets is to protect the laboratory personnel and the environment from the pathogenic microorganism as aerosols might be formed during the processing of such microorganisms.

Biosafety cabinets are only used for certain risk group organisms and for processes that might result in aerosol formation.

These cabinets are provided with HEPA-filters that decontaminate the air moving out of the cabinet.

85- Five Para Patient Monitor Model

86- 2000-Watt Fan Heater

87- Made of high-quality durable material

Package Contents: 1-Piece 150 cm (60 Inch) Measuring Tape

88- Auto/Manual Rhythm mode, 3 Channel Recording with interpretation, Support all ECG paper of 80 MM

89- UltraCare PRO TENS 1.0 TENS Machine for Physiotherapy Massager, 25 Modes, 50 Intensity Levels, Rechargeable, Dual Channel, TENS Unit, TENS Device, TENS Machine, Muscle/Nerve Stimulator for Pain Relief

90- Brand PowerMax Fitness

Colour Black

Product Grade DC Motor Treadmill can work efficiently for 30 minutes continuously, but after that, it needs a break of about 20 minutes. DC Motor Treadmill can work efficiently for 30 minutes continuously, but after that, it needs a break of about 20 minutes.

Product Dimensions 139D x 65.5W x 121H Centimeters

Item Weight 34 Kilograms

91- MULTI WORKOUT TRAINER: This B-Arm Digital Pelvic Floor Muscle Trainer adapts to different body parts such as leg, arm, thigh, calf, buttock and hip. Its 360-degree rotation allows for easy customization, making it suitable for use in various locations, WOMEN'S HEALTH TRAINER: The hip exerciser strengthens the pelvic muscles, promotes bladder control, reduces urinary incontinence, manages pelvic pain and controls pelvic organ prolapse and also supports postpartum recovery, DIGITAL WORKOUT TRACKER: This postpartum pelvic trainer tracks the workout count and displays it in the digital screen. This thigh exerciser helps in improving the exercise effect & lower body strength, SAFE AND DURABLE: This fitness machine is made of polypropylene (PP) and thermoplastic elastomer (TPE). This pelvic floor exerciser also features non-slip design for more effective workout experience, PORTABLE AND EASY TO USE: This kegel exercise is lightweight and compact, which makes it easy to store, clean and use at home or on-the-go.

Dimensions

Width

21.5 cm

Height

11.5 cm

Weight

0.445 kg

92- precision perineometer is useful for accurate pelvic floor assessment and research, and super sensitive feedback. It is a hand-held clinical perineometer intended for assessing the strength of pelvic floor (pf) muscles and teaching pelvic floor exercises. Both vaginal

93- Quick Results: 15 minutes a day and just a few short weeks, you will feel the difference! Kegel Exercises strengthen your Pelvic Floor muscles.

Easiest Kegel System Ever: Unlike complicated electronics & phone apps, our system has natural biofeedback. If you do the kegel incorrectly, you will feel the weight begin to slip out.

94- 24x7 eMall 36 Inch Trampoline with Safety Pad, Indoor Fitness Trampoline for Adults and Kids. (Midnight, 36 Inch)

95- SPEECHGEARS Special Kit, Sensory Integration Tools, Speech Tools, Feeding Tools, V-Pen, Uni-Tip, Pointed-Tip, Talk-Tip, Tt-Lr, Tt-Ud, Tongue-Steer, Hickey, Sensory-Bite, Oro-Tube (Green), Pack of 1 Helps in tongue Lateralisation and Elevation and Limited Tongue Movement

Helps in Speech Development and Oral Motor Skill.

Not for chewing and biting.

Made of food grade material

**ADDITIONAL SPECIFIC TERMS & CONDITIONS FOR ELIGIBILITY OF
MANUFACTURER/BIDDERS FOR SUPPLY**

Tender Terms and Conditions

The following terms and conditions must be met by the bidder:

- 1. Average Annual Turnover: The bidder must have an average annual turnover of ₹10 crores or more for the last three financial years.**
- 2. ISO 13485 and NABL Certification: The bidder must be certified with ISO 13485 and NABL (National Accreditation Board for Testing and Calibration Laboratories) certification.**
- 3. Test Report: The bidder must submit test reports from a NABL-certified agency.**
- 4. Net Worth Certificate: The bidder must submit a net worth certificate, which is mandatory for participation in this tender.**
- 5. The bidder should latest valid bank solvency certificate on at least Rs.100 lac from any nationalized bank/ commercial schduled bank**

Note :- MP Govt. Store and Purchase rules 2015 and all instructions of MP State Govt. Regarding purchase and Supply are also applicable