

**ASHOKRAO MANE AYURVEDIC MEDICAL COLLEGE AND HOSPITAL, VATHAR TARF
VADGAON.**

DEPARTMENT OF RASASHASTRA BHAISHAJYA KALPANA

MINIMUM ESSENTIAL STANDARDS FOR ANNUAL INTAKE LIST ACC. TO MSE 01/05/2024

S.N.	Standard or item required	Minimum requirement as per intake capacity
1.	Computer with internet	1
2.	Printer	1
3.	Electronic-Display (Smart board or smart television or lightemitting diodes display)	1
	Teaching pharmacy cum museum	
4.	Khalva yantra – small	10
5.	Khalva yantra – medium	10
6.	Khalva yantra - porcelain (different sizes)	10
7.	Taptakhalva yantra	3
8.	Pounding apparatus (ulukhala yantra)	3
9.	Pestle and mortar glass	2
10.	Putas (different kind)	3
11.	Koshti with blower	2
12.	Moosha (crucibles)	30
13.	Dola yantra	1
14.	Valuka yantra	1
15.	Pithara yantra	1
16.	Bhudhara yantra	1
17.	Distillation apparatus and arka yantra	1
18.	Kupipakva bhatti	1
19.	Digital balance	1
20.	Bottle sealing machine	1
21.	Sealing machine	1
22.	Filling machine	1
23.	Distillation apparatus glass or Ark yantra one litre	2
24.	Wet grinder	1
25.	Mixer or grinder	1
26.	Juice extractor	1
27.	Ball mill (Stainless steel balls)	As Desirable
28.	Tincture press	1

29.	Refrigerator	1
30.	Amirah and racks for storage	As required
31.	Electronic balance of different capacities (up to 100 grms with accuracy 1.0 milligram, 100 -1000 grams with accuracy 1.0 gram, 1 kilogram and above)	3
32.	Gas stoves	1
33.	Hot plate	1
34.	Chulla (charcoal)	1
35.	Pulveriser	1
36.	Granulator	1
37.	Hand operated tablet punching machine	1
38.	Tablet coating Pan unit with hot air blower laboratory size	1
39.	Tablet polishing pan laboratory size	1
40.	Dryer	1
41.	Homogenizer	1
42.	Pills making machine	As Desirable
43.	End runner machine	As Desirable
44.	Edge runner machine	As Desirable
45.	Capsule filling machine	As Desirable
46.	Double cone blender	As Desirable
47.	Liquid filling machine	As Desirable
48.	Planetary mixer for ointment or cream	1
49.	Soft gelatine capsule filling	1
50.	Mechanised kharal- two or four arms	As Desirable
51.	Chimney or air handling unit	As Desirable
52.	Mohs hardness test kit	5
53.	Hot air oven	1
54.	Walkers steel yard (for specific gravity of minerals)	As Desirable
55.	Automatic flask shaker	1
56.	Water bath	1
57.	Digital pH (per Hydrogen ion Concentration) meter	1
58.	Tablet hardness tester	1

59.	Muffle furnace 12 inches x 12 inches x 18 inches digital X maximum temp 1250°C with window (quartz) thermal imagevisor	1
60.	Muffle furnace (ash content tester) x digital display x maximum temp 900°C	1
61.	Vertical furnace - Kupa pack type (two bottles) X Digital Xmaximum temp 900°C	1
62.	Non-contact infrared thermocouple K-type	1
63.	Thermocouple K-type	1
64.	Desiccator glass	As Desirable
65.	Desiccator with vacuum	As Desirable
66.	Vacuum pump	As Desirable
67.	Collapsible tube – filling and sealing equipment	As Desirable
68.	Brass vessel	Assorted
69.	Copper vessel	
70.	Steel vessel	
71.	Earthen vessels-pots	
72.	Porcelain crucible	
73.	Jars (porcelain) fermentation purpose	
74.	Enamel trays	
75.	Tray drier	
76.	Hand grinding mill	
77.	Pressure cooker	
78.	Measuring equipment's different size (glass)	
79.	Pyrometer	
80.	Thermometer	
81.	Frying pan	
82.	Steel vessel	
83.	Spatula	
84.	Ladles and spoons	
85.	Knife	
86.	Plates	

87.	Samdamsa yantra (tongs)	Assorted
88.	Sieves (assorted numbers and size)	
89.	Kitchen aprons	
90.	Steel trays	
91.	Oven gloves	
92.	Kadahi – iron	
93.	Aluminium vessels	
94.	Clay graphite silver melting crucible maximum temp 1500°C	
95.	Crucible tongs 18 inches Stainless steel	
96.	Ointment spatula	
97.	Lipstick moulds	
98.	Specimens of Rasashastra and Bhaishajya Kalpana related samples in suitable display containers	As Required
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Minimum Essential Requirements for Quality Testing Laboratory

S.N.	Standard or item required	Minimum requirement as per intake capacity
1.	Computer, internet, printer	1
2.	Smart board or Liquid Crystal Display projector	1
3.	Ultra-violet visible spectro photometer	1
4.	Flame photometer	1
5.	Digital pH (per Hydrogen ion Concentration) meter	1
6.	Precision melting point apparatus	1
7.	Distillation unit for distilled water	1
8.	Moisture analyser balance	1
9.	Orbital shaker	1
10.	Laminar airflow	1
11.	Mechanical stirrer with hot plate	1
12.	Magnetic stirrer	1
13.	Dissolution test apparatus	1
14.	Tablet disintegration test apparatus	1
15.	Monsanto's hardness tester	1
16.	Pfizer type hardness tester	1
17.	Tablet counter – small size	1
18.	Bulk density apparatus	1
19.	Friability test apparatus	1
20.	Ostwald's viscometer	1
21.	Refractometer	1
22.	Analytical balance digital high precision (0.0001g – 220g)	1
23.	Incubator	1
24.	Clarity test apparatus	1
25.	Humidity control oven	1
26.	Karl Fischer apparatus	1
27.	Sieve shaker	1
28.	Graduating sieve set	1

29.	Thermometer up to 110°C	2
30.	Centrifuge	1
31.	Filtration equipment	2
32.	Water bath twelve holes	1
33.	Suction pump	1
34.	Sonicator	1
35.	Heating mantle different capacity	2
36.	Total Leucocyte Count chamber and sprayer	2
37.	Clevenger's apparatus	1
38.	Arsenic limit test apparatus	1
39.	Adjustable volume micro pipette	2
40.	Rotary evaporator apparatus	1
41.	Soxhlet apparatus	2
42.	Reflux flask with condenser single neck	1
43.	Petri dish glass	As required
44.	Petri dish polypropylene	
45.	Watch glass	
46.	Glass ware	
47.	Glass beaker- different capacity	As required
48.	Measuring flask different capacity	
49.	Volumetric flask different capacity	
50.	Graduated measuring cylinder	
51.	Buchner funnels small, medium, large	
52.	Burette	
53.	Nessler's cylinders	

Rasashastra and Bhaishajyakalpana including teaching pharmacy

1.	Instructor (Bachelor of Ayurvedic Medicine and Surgery)
2.	Clerk (graduate with computer knowledge)
3.	Lab Attendant cum Museum Keeper (Minimum 10 th standard pass)
4.	Multi-tasking staff

Quality Control Laboratory		
5.	Analytical Chemist (Bachelor of Pharmacy or Bachelor of Pharmacy in Ayurveda)	
6.	Clerk (graduate with computer knowledge)	
7.	Pharmacognosist	
8.	Lab Attendant (Minimum 10 th standard pass)	
9.	Multi-tasking staff	