

## SCHEDULE IX

### Minimum Essential Requirements for Department of Dravyaguna

| Serial number                                     | Standard                                                                                                                                                                                                  | Requirement as per intake capacity |     |          |     | Available Quantity | Deficiency |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----|----------|-----|--------------------|------------|
|                                                   |                                                                                                                                                                                                           | 60                                 | 100 | 150      | 200 |                    |            |
| 1.                                                | Computer with internet                                                                                                                                                                                    | 1                                  | 1   | 1        | 1   | 01                 |            |
| 2.                                                | Printer                                                                                                                                                                                                   | 1                                  | 1   | 1        | 1   | 01                 |            |
| 3.                                                | Electronic-Display (smart board or smart television or light emitting diodes display)                                                                                                                     | 1                                  | 1   | 2        | 2   | 01                 |            |
| <b>Dravyaguna Laboratory Museum cum Herbarium</b> |                                                                                                                                                                                                           |                                    |     |          |     |                    |            |
| 4.                                                | Microscope (trinocular with digital camera, including software for projection through liquid crystal display or smart board or smart television for demonstration of histology and others)                | 1                                  | 1   | 2        | 2   | 01                 |            |
| 5.                                                | Microscope [binocular with eyepiece (wide field), objectives (10x, 40x spring loaded, 100x oil immersion spring loaded) built-in illumination]                                                            | 5                                  | 10  | 15       | 20  | 05                 |            |
| 6.                                                | Dissecting microscope                                                                                                                                                                                     | 5                                  | 10  | 15       | 20  | 05                 |            |
| 7.                                                | Magnification lens with light                                                                                                                                                                             | 5                                  | 10  | 15       | 20  | 06                 |            |
| 8.                                                | Dissection box                                                                                                                                                                                            | 5                                  | 10  | 15       | 20  | 05                 |            |
| 9.                                                | Digital weighing scale (upto 10 grams with accuracy 0.001miligram)                                                                                                                                        | 2                                  | 3   | 4        | 5   | 02                 |            |
| 10.                                               | Digital weighing scale (10-100 grams with accuracy 0.001 gram)                                                                                                                                            | 2                                  | 3   | 4        | 5   | 02                 |            |
| 11.                                               | Thin layer chromatography kit with thin layer chromatography applicator, thin layer chromatography platform, atomizer, glass plates thin layer chromatography chamber and thin layer chromatography scale | 1                                  | 1   | 2        | 2   | 01                 |            |
| 12.                                               | Hot air oven                                                                                                                                                                                              | 1                                  | 1   | 2        | 2   | 01                 |            |
| 13.                                               | Muffle furnace                                                                                                                                                                                            | 1                                  | 1   | 2        | 2   | 01                 |            |
| 14.                                               | Digital pH (per Hydrogen Ion Concentration) Meter                                                                                                                                                         | 1                                  | 1   | 2        | 2   | 01                 |            |
| 15.                                               | Ostwald viscometer                                                                                                                                                                                        | 5                                  | 10  | 15       | 20  | 05                 |            |
| 16.                                               | Pycnometer or specific gravity bottle                                                                                                                                                                     | 5                                  | 10  | 15       | 20  | 10                 |            |
| 17.                                               | Soxhlet's extraction apparatus                                                                                                                                                                            | 1                                  | 1   | 2        | 2   | 01                 |            |
| 18.                                               | Heating mantle (250, 500 and 1000 millilitre)                                                                                                                                                             | One each                           |     | Two each |     | 01                 |            |
| 19.                                               | Bunsen burner electric or gas burner                                                                                                                                                                      | 10                                 | 15  | 20       | 25  | 10                 |            |
| 20.                                               | Enamel trays                                                                                                                                                                                              | 10                                 | 15  | 20       | 25  | 12                 |            |
| 21.                                               | Water bath (rectangular)                                                                                                                                                                                  | 1                                  | 1   | 2        | 2   | 01                 |            |
| 22.                                               | Ultraviolet-cabinet                                                                                                                                                                                       | 1                                  | 1   | 2        | 2   | 01                 |            |
| 23.                                               | Desiccator                                                                                                                                                                                                | 1                                  | 1   | 2        | 2   | 01                 |            |
| <b>Lab wares</b>                                  |                                                                                                                                                                                                           |                                    |     |          |     |                    |            |
| 24.                                               | Dropper                                                                                                                                                                                                   | Assorted                           |     |          |     | 10                 |            |
| 25.                                               | Needle                                                                                                                                                                                                    |                                    |     |          |     | 10                 |            |
| 26.                                               | Sharp razor blades                                                                                                                                                                                        |                                    |     |          |     | 02 Packet          |            |



|                           |                                                       |          |          |  |
|---------------------------|-------------------------------------------------------|----------|----------|--|
| 27.                       | Pipe clay triangles                                   | Assorted | 10       |  |
| 28.                       | Wire mesh                                             |          | 10       |  |
| 29.                       | Test tube holders                                     |          | 15       |  |
| 30.                       | Reagent bottles                                       |          | 02       |  |
| 31.                       | Test tube stands                                      |          | 06       |  |
| 32.                       | Tripod stand                                          |          | 15       |  |
| 33.                       | Pair of tong                                          |          | 05       |  |
| Glassware and consumables |                                                       |          |          |  |
| 34.                       | Test tubes                                            | Assorted | 250      |  |
| 35.                       | Thin layer chromatography plates 20x20cm (pre coated) |          | 10       |  |
| 36.                       | Evaporating dish                                      |          | 05       |  |
| 37.                       | Silica crucible                                       |          | 01       |  |
| 38.                       | Beakers two hundred millilitre                        |          | 55       |  |
| 39.                       | Glass rods                                            |          | 05       |  |
| 40.                       | Conical flasks two hundred fifty millilitre           |          | 06       |  |
| 41.                       | Glass funnels                                         | Assorted | 02       |  |
| 42.                       | Chemicals                                             |          | Assorted |  |
| 43.                       | Safranin                                              |          | 125 ML   |  |
| 44.                       | Light green                                           |          | 25 GM    |  |
| 45.                       | Sudan red- III                                        |          | 10 GM    |  |
| 46.                       | Glycerine                                             |          | 350 ML   |  |
| 47.                       | Dragendorff's reagent                                 |          | 500 ML   |  |
| 48.                       | Millon's reagent                                      |          | 500 ML   |  |
| 49.                       | Wagner's reagent                                      |          | 500 ML   |  |
| 50.                       | Benedict's solution                                   |          | 500 ML   |  |
| 51.                       | Fehling's solution                                    |          | 500 ML   |  |
| 52.                       | Iodine solution                                       |          | 500 ML   |  |
| 53.                       | Methanol                                              |          | 125 ML   |  |
| 54.                       | Distilled water                                       |          | 500 ML   |  |
| 55.                       | Ethanol                                               |          | 10 L     |  |
| 56.                       | Hydrochloric acid                                     |          | 500 ML   |  |
| 57.                       | Sulphuric acid                                        |          | 500 ML   |  |
| 58.                       | Chloroform                                            |          | 500 ML   |  |
| 59.                       | Phloroglucinol                                        |          | 500 ML   |  |
| 60.                       | Acetic acid                                           |          | 125 GM   |  |
| 61.                       | Ferric chloride                                       |          | 500 ML   |  |
| 62.                       | Potassium iodide                                      |          | 500 ML   |  |
| 63.                       | Magnesium turnings                                    |          | 500 ML   |  |
| 64.                       | Ethyl acetate                                         |          | 250 ML   |  |
| 65.                       | Toluene                                               |          | 500 ML   |  |
| 66.                       | Silica gel GF-254                                     |          | 150 ML   |  |
| 67.                       | Blotting or filter papers                             |          | 10       |  |
| 68.                       | Microscope slides and cover slips                     |          | 30       |  |
|                           |                                                       | 210      |          |  |

