

Section IV. Schedule of Requirements

Procurement of Equipment, Instruments, Glassware, Information, Communication & Technology (ICT) Equipment and Others for the FY 2021-22 for the titled “ Establishment of Provincial Drug & food Testing Laboratories

NOTE:

In continuation of the Schedule of Requirements in the SBDs of Procurement of Equipment, Instruments, Glassware, Information, Communication & Technology (ICT) Equipment and Others for the FY 2021-22 for the titled “ Establishment of Provincial Drug & food Testing Laboratories, the following items to be added.

8	Double Beam Spectrophotometer (PC based with complete Software and Full Data Integrity)	<ul style="list-style-type: none"> • Wavelength range: 190 to 1,100 nm • Spectral bandwidth: 1 nm (190 to 1,100 nm) • Wavelength display: 0.1 nm increments • Wavelength setting: 0.1 nm increments • Wavelength accuracy: ± 0.1 nm at D2 peak 656.1 nm, ± 0.3 nm for entire range • Wavelength repeatability: ± 0.1 nm • Wavelength slew rate: Approx. 29,000 nm/min • Wavelength scanning speed: 3,000 to 2 nm/min, 29,000 nm/min when survey scanning • Stray light: Less than 0.02% at 220 nm NaI • Photometric system: Double beam optics • Photometric range: Absorbance: -4 to 4 Abs, Transmittance: 0% to 400% • Photometric accuracy: ± 0.002 Abs at 0.5 Abs, ± 0.004 Abs at 1.0 Abs, ± 0.006 Abs at 2.0 Abs • Photometric repeatability: Less than ± 0.0002 Abs, Less than ± 0.001 Abs at 2 Abs • Baseline stability: Less than 0.0003 Abs/Hr • Baseline flatness: Less than ± 0.0006 Abs (1,100 to 190nm, • Noise level: Less than 0.00005 Abs (700 nm) • Light source: 20-W halogen lamp and deuterium lamp • Built-in light source auto position adjustment. • Detector: Silicon photodiode • Grating: LO-RAY-LIGH diffraction grating technology. • Power requirements: AC100,120,220,230,240 V, 50/60 Hz, 140 VA • Display: 24-bit color touch screen • Printer: Built-in one • With one extra deuterium lamp for Uv range <ul style="list-style-type: none"> • Local/abroad training of the technical personnel/staff; Certifications US FDA/ JIS /CE
	Reference Books for Drug Testing	<ol style="list-style-type: none"> 1. British Pharmacopoeia (BP) 2021 2. United States Pharmacopoeia / National Formulary 2020 (USP-43/NF-38)

<p>Laborator y, Peshawar</p>	<ol style="list-style-type: none"> 3. European Pharmacopoeia (Ph. Eur.) 10th Edition (including Ph. Eur. Supplement 10.3) 4. International Pharmacopoeia (Ph. Int.) 10th Edition 5. Pakistan Pharmacopoeia 6. Japanese Pharmacopoeia (JP) 17th Edition 7. The Pharmaceutical Codex (Formerly British Pharmaceutical Codex) 12th Edition 8. The Unani Pharmacopoeia of India 9. The Homoeopathic Pharmacopoeia of the United States 10. Clark's Analysis of Drugs and Poisons 4th Edition 11. Moffat - Clarke's Isolation and Identification of Drugs- Pharmaceutical Press (1986) 12. Martindale: The Complete Drug Reference 40th Edition 13. The Drug Act 1976, & Rules Framed there under 14. Remington
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