

## **ORGANIZATION, FUNCTIONS AND DUTIES**

### **NAME OF THE ORGANIZATION :**

TELANGANA STATE LEVEL DRUG TESTING LABORATORY, DEPARTMENT OF AYUSH, GOVERNMENT OF TELANGANA

### **ADDRESS :**

DR.B.R.K.R. GOVT AYURVEDIC COLLEGE PREMISES, ERRAGADDA, HYDERABAD, TELANGANA-500038

### **FUNCTIONS :**

- 1) To ensure proper quality assurance in terms of testing and analysis of raw drugs and finished medicine samples referred by drug licensing authorities of ayurveda and unani systems of dept of AYUSH, Govt of Telangana as per drugs and cosmetics act
- 2) Samples referred by Additional directors (ayurveda, unani and Homeopathy) are also taken up for analysis at Telangana State Level Drug Testing Laboratory
- 3) Samples referred by three govt. pharmacies are also taken up for analysis at Telangana State Level Drug Testing Laboratory since there are no in-process Quality control laboratories a mandatory requirement for good manufacturing practices certified Government Pharmacies of Ayurveda, Unani and Homeopathy
- 4) Samples referred by other Government bodies such as police Department and Excise Department are also taken up for analysis at Telangana State Level Drug Testing Laboratory
- 5) Samples referred by Research Department (Ayur) and M.D. Scholars of Government Ayurvedic colleges are also taken up for analysis at Telangana State Level Drug Testing Laboratory
- 6) Samples referred by Private Manufacturers, Pharmacies, Labs etc on charge basis

### **DUTIES :**

- 1) The Director, Telangana State Level Drug Testing Laboratory is responsible for planning and execution of the various day to day operations in terms of technical and administration of the unit.
- 2) Responsible for over all administration of Telangana State Level Drug Testing Laboratory.
- 3) To make available equipments, chemicals, glassware and other consumables as per the requirement of the Laboratory and see that the prerequisites such as water, electricity are maintained properly
- 4) To discharge the duties of Disbursing and Drawing officer in terms of drawing salaries, allowances and preferring claims on purchases and related subjects.

**Rules , Regulations, Instructions; Manual and Records for discharging functions {Section 4 (1) (b) (v) }**

While discharging the functions , the unit follows the Acts, Rules and orders of Government issued from time to time on the subject which are enunciated as follows

**Acts :**

- 1) **Drugs and Cosmetics Act 1940**
- 2) **Pharmacopoeias**

### **List of Equipment available in Telangana State Level Drug Testing Laboratory**

- 1) Electronic Balance
- 2) Microbalance
- 3) PH Meter
- 4) Moisture Balance
- 5) Muffle Furnace
- 6) Electronic Water Bath
- 7) Soxhlet Extraction Mantle
- 8) Gas Chromatography
- 9) HPTLC
- 10)HPLC
- 11)Rotary Flash Evaporator
- 12)Sieve Shaker
- 13)Rotary Shaker
- 14)15 Kv UPS System With 20 No. Batteries And Stand
- 15)Compound Microscope
- 16)Refridgerator 165 Litres
- 17)SS Distillation Water Plant
- 18)35 Mm SLR Camera Microphotography Attachment
- 19)Automatic Pipette Washer
- 20)Digital Abbe Refractometer
- 21)Hot Air Oven
- 22)Digital Copier With Printer
- 23)Automated Digital Friabilator
- 24)Weighing Balance
- 25)Digital Hot Air Oven
- 26)Microtome And Accessories
- 27)Incubator

- 28) Autoclave Steam Stabilizer
- 29) Laminar Air Flow
- 30) Dissolution Test Apparatus
- 31) Tablet Hardness Tester
- 32) Dissection Microscope
- 33) Rotovac Valve Control Vacuum System
- 34) Binocular Microscope With Lightening System
- 35) Laboratory Centrifuge Digital
- 36) Refrigerator 60 Litres
- 37) Fuming Cupboard
- 38) Magnetic Stirrer

### **List of parameters carried out in the Telangana State Level Drug Testing Laboratory**

- 1) Organoleptic Properties
- 2) Macroscopic Study
- 3) Microscopic Study Of Raw And Powdered Drugs
- 4) Moisture Content
- 5) Specific Gravity
- 6) Ph Value
- 7) Total Ash Content
- 8) Acid Insoluble Ash
- 9) Water Soluble Extract
- 10) Alcohol Soluble Extract
- 11) Total Solids
- 12) Alcohol Estimation
- 13) Reducing And Non Reducing Sugars
- 14) Weight Variation
- 15) Friability
- 16) Disintegration Time
- 17) Assays
- 18) Metal Estimations- Gold, Copper, Mercury Etc
- 19) Estimations Of Iron, Calcium, Magnesium, Lead Etc

- 20) Saponification Value
- 21) Acid Value
- 22) Microbiological Tests (Pseudomonas)
- 23) Preliminary Phytochemical Tests
- 24) HPTLC Study
- 25) HPLC Analysis
- 26) GC Analysis