



# The Mizoram Gazette

## EXTRAORDINARY

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### NOTIFICATION

**No. LA/ESTT.3/96/363, 15<sup>th</sup> July, 2024:** In exercise of the powers conferred by Rule 33 of the Mizoram Legislative Assembly Secretariat (Recruitment and Conditions of Service) Rule, 1995 as amended from time to time, the Speaker, Mizoram Legislative Assembly, is pleased to notify the syllabus for the Direct Recruitment for the post of Assistant Operator in the Mizoram Legislative Assembly.

Short title and  
commencement.-

- (1) These Rules may be called, "The Mizoram Legislative Assembly Secretariat (Recruitment and Conditions of Service) (Twelfth Amendment) Rules, 2024"
- (2) It shall come into force from the date of publication in the Mizoram Gazette.

### SCHEDULE - I 'J'

#### ASSISTANT OPERATOR

PAPER-I	-	General English	-	100 Marks
PAPER - II	-	General Knowledge (Simple Arithmetic, Current Affairs, etc.)	-	50 Marks
PAPER-III	-	Technical	-	100 Marks
	-	Personal Interview	-	50 Marks
	-	Total	-	300 Marks

### #SYLLABUS DETAIL #

1. Ohm's Law, Kirchoff's law, Concept of basic Electricity, Single phase & three phase circuits. Measurement of AC&DC Electrical quantities like Voltage, Currents, Resistance, Impedance, power factor. Testing of installation by megger.
2. Fires in electrical Circuits & Precautions, Fire Extinguishers its types and operation, General Safety of Tools & equipment.
3. Different types of wires & conductors, Load carrying capacity. Insulation resistance of wires.
4. Concept of earthing, purpose & types. Pipe earthing & Plate earthing, testing and maintenance of earth resistance.

5. Types of circuit breaker: MCB, MCCB, ELCB, RCCB & its selection.
6. Types of fuses: Kit-kat type, H.R.C fuse, Cartridge fuse and its selection based on load.
7. Identification of the electrical equipment's cables, wires and electrical accessories and tools used in industry.
8. Studies of diagram & Symbols used in basic Electrical Circuits, Writing & installations.
9. Knowledge of different electrical wiring - residential, offices, hospitals, go-downs etc.
10. Knowledge of fans, tube light, heater, geyser, calling bell fixing.
11. Practice on wiring diagram/Making plan of wiring accordingly.
12. Fire alarm, security surveillance.
13. Methods of fixing various types of switches: I.C.D.P and I.C.T.P, distribution box.
14. Methods of fixing single phase and three phase meters. Manual changeover switch and automatic changeover switch.
15. Skinning different types of cable ends, making various joints like twist joint, married joint, Tee joint in stranded conductors, Checking & testing of Electrical wiring as per drawing.
16. Fault finding and preventive maintenance, trouble shooting.
17. Flux and soldering technique, Different types of soldering gun.
18. Power Supplies: Different type of cells, Grouping of cells, Care and maintenance of cell, Types of Batteries, Rectifiers, regulated power supplies, SMPS, UPS, Inverter: Solar inverter (Hybrid, off-grid and on-grid).
19. Basic Refrigeration & Air Conditioning unit: Refrigeration, Method used for producing Cooling Effect, Unit of Refrigeration, Instrument used in Refrigeration, Types of Refrigeration Air Conditioning - Fundamental Principle of AC, Construction, Working, Types of AC and its Application, types of AC Gases and its application.

**Vanlalthantlingi,**  
Commissioner & Secretary,  
Mizoram Legislative Assembly