electricity board bill generator is a software application that calculates and produces electricity bills for consumers based on their power consumption. Key features typically include:

1. Input of meter readings or power consumption data
2. Application of tariff rates and slab systems
3. Calculation of total charges, including taxes and fees
4. Generation of itemized bills
5. Customer information management
6. Payment tracking and due date calculation

The program should handle various consumer categories, support multiple tariff structures, and produce accurate, detailed bills in a standardized format.

1. Unit Slabs: Electricity boards often use a slab system where the per-unit rate changes based on total consumption. For example:

* 0-100 units: 5 per unit
* 101-300 units: 7 per unit
* 301-500 units: 9 per unit
* Above 500 units: 12 per unit

The program needs to calculate charges for each slab separately and sum them up.

1. Consumer Categories: Different rates may apply based on the type of consumer:

* Residential
* Commercial-18%
* Industrial-22%
* Agricultural-5%

Each category might have its own slab system and rates.

1. Time-of-Use Tariffs: Some boards implement different rates based on the time of day:

* Peak hours (e.g., 6 PM - 10 PM): Higher rate
* Off-peak hours (e.g., 11 PM - 5 AM): Lower rate
* Standard hours: Normal rate

The program should be able to calculate based on time-specific meter readings if provided.

1. Seasonal Variations: Tariffs might change based on seasons:

* Summer months: Higher rates
* Winter months: Lower rates

1. Fixed Charges: Apart from usage-based charges, there are often fixed charges based on:

* Connection type (single-phase-100, three-phase-300)
* Sanctioned load

1. Additional Fees: The program should incorporate various additional charges:

* Fuel Cost Adjustment (FCA)-120
* Electricity Duty-88
* Taxes (e.g., GST)-12%
* Meter rent-200

1. Discounts and Penalties:

* Early payment discounts-10%
* Late payment penalties-0%
* Subsidies for certain consumer categories

1. Minimum Charges: Even if consumption is very low or zero, there might be a minimum billable amount.-120