

C program to calculate and print the electricity bill of a given customer based on the provided details:

```
#include <stdio.h>
```

```
int main() {
```

```
    int customerID;
```

```
    char customerName[50];
```

```
    float unitsConsumed, totalAmount = 0, surcharge = 0, chargePerUnit = 0;
```

```
    // Read customer details
```

```
    printf("Input Customer ID: ");
```

```
    scanf("%d", &customerID);
```

```
    printf("Input Customer Name: ");
```

```
    scanf("%s", customerName);
```

```
    printf("Input Units Consumed: ");
```

```
    scanf("%f", &unitsConsumed);
```

```
    // Calculate charge per unit based on units consumed
```

```
    if (unitsConsumed <= 199) {
```

```
        chargePerUnit = 1.20;
```

```
    } else if (unitsConsumed >= 200 && unitsConsumed < 400) {
```

```
        chargePerUnit = 1.50;
```

```
    } else if (unitsConsumed >= 400 && unitsConsumed < 600) {
```

```
        chargePerUnit = 1.80;
```

```
    } else {
```

```
        chargePerUnit = 2.00;
```

```
    }
```

```
// Calculate total amount
totalAmount = unitsConsumed * chargePerUnit;

// Apply minimum bill condition
if (totalAmount < 100) {
    totalAmount = 100;
}

// Apply surcharge if applicable
if (totalAmount > 400) {
    surcharge = totalAmount * 0.15;
}

// Print the bill
printf("Customer IDNO: %d\n", customerID);
printf("Customer Name: %s\n", customerName);
printf("Unit Consumed: %.2f\n", unitsConsumed);
printf("Amount Charges @Rs. %.2f per unit: %.2f\n", chargePerUnit, unitsConsumed *
chargePerUnit);
printf("Surcharge Amount: %.2f\n", surcharge);
printf("Net Amount Paid by the Customer: %.2f\n", totalAmount + surcharge);

return 0;
}
```