**APPENDIX I**

**System Development Cost**

**System Development Cost (Proposed System)**

**I. Hardware Development Cost**

**A. Hardware Acquisition Cost**

Computer 15,000.00

Total Hardware Acquisition Cost 15,000.00

**B. Salvage Value**

Total Hardware Acquisition Cost 15,000.00

Divide: Life Expectancy 3

5,000.00

Multiply: Development Period 5

Divide: Months per year 12

***Salvage Value*** *= (Total Hardware Cost/ Life Expectancy) \* Development Period)*

*Months per year*

Salvage Value 2,083.33

**C. Annual Depreciation Cost**

***Annual Depreciation Cost*** *= (Total Hardware Cost- Salvage Value)*

*Life Expectancy*

Annual Depreciation Cost 4,305.56

**D. Monthly Depreciation Cost**

***Monthly Depreciation Cost*** *= (Annual Depreciation Cost)*

*Months per year*

Monthly Depreciation Cost 358.80

**E. Hardware Development Cost**

***Hardware Development Cost*** *= Monthly Depreciation Cost*

*Development Period*

**Hardware Development Cost 71.76**

**II. Software Development Cost**

1. **Software Acquisition Cost**

|  |  |
| --- | --- |
| Microsoft Windows XP Professional SP3 | 15,000.00 |
| Java Development Kit 6 Update 22 | 0.00 |
| NetBeans IDE 6.9.1 | 0.00 |
| Total Software Acquisition Cost | 15,000.00 |

1. **Salvage Value**

***Salvage Value*** *= (Total Software Acquistion Cost/ Life Expentancy) \* Development Period)*

*Months per year*

Salvage Value 2,083.33

1. **Annual Depreciation Cost**

***Annual Depreciation Cost****= (Total Software Acquisition Cost- Salvage Value)*

*Life Expectancy*

Annual Depreciation Cost 4,305.56

1. **Monthly Depreciation Cost**

***Monthly Depreciation Cost*** *= (Annual Depreciation Cost)*

*Months per year*

Monthly Depreciation Cost 358.80

1. **Software Development Cost**

***Software Development Cost*** *= Monthly Depreciation Cost*

*Development Period*

**Software Development Cost 71.76**

**III. Labor Cost**

Developer’s fee/month = 6,000

Development Period = 3

***Labor Cost*** *= Developer’s fee/month \* Development Period*

**Labor Cost = 18, 000**

**IV. Overhead Cost**

**A. 1st Month**

Number of hours a day = 5

Number of days a week = 3

Number of weeks a month = 4

Number of hours a month = 60 hrs/month

Number of watts of computer = 225W

Number of watts of electric fan = 60W

Number of watts of light = 32W

1. **Computer**

***kWh used by computer*** *= (number of watts \* number of hours/month)*

*1000 W*

*= 13.5 Kwh*

1. **Electric Fan**

***kWh used by electric fan*** *= (number of watts \* number of hours/month)*

*1000 W*

*= 3.6 Kwh*

1. **Light**

***kWh used by light =*** *(number of watts \* number of hours/month)*

*1000 W*

*= 1.92 Kwh*

1. **Total Monthly Power Consumption**

***Total Monthly Power Consumption*** *= kWh used by computer + kWh used by*

*electric fan + kWh used by light*

*= 19.02 Kwh*

1. **Basic Charge**

Generation Charge *(5.8417/kWh)* = 111.11

Transmission Charge *(0.7369/kWh)* = 14.02

System loss Charge *(0.7755/kWh)* = 14.75

Distribution Charge *(0.6917/kWh)* = 13.16

Supply Charge *(0.4720/kWh)* = 8.12

**Total Basic Charge = 161.16**

1. **2nd  Month**

Number of hours a day = 3

Number of days a week = 5

Number of weeks a month = 3

Number of hours a month = 45 hrs/month

Number of watts of computer = 225W

Number of watts of electric fan = 140W

Number of watts of light = 32W

1. **Computer**

***kWh used by computer*** *= (number of watts \* number of hours/month)*

*1000 W*

*= 10.13 Kwh*

1. **Electric Fan**

***kWh used by electric fan*** *= (number of watts \* number of hours/month)*

*1000 W*

*= 6.3 Kwh*

1. **Light**

***kWh used by light =*** *(number of watts \* number of hours/month)*

*1000 W*

*= 1.44 Kwh*

1. **Total Monthly Power Consumption**

***Total Monthly Power Consumption*** *= kWh used by computer + kWh used by*

*electric fan + kWh used by light*

*= 17.87 Kwh*

1. **Basic Charge**

Generation Charge *(5.8417/kWh)* = 104.39

Transmission Charge *(0.7369/kWh)* = 13.16

System loss Charge *(0.7755/kWh)* = 13.86

Distribution Charge *(0.6917/kWh)* = 12.36

Supply Charge *(0.4720/kWh)* = 7.63

**Total Basic Charge = 151.40**

1. **3rd  Month**

Number of hours a day = 5

Number of days a week = 6

Number of weeks a month = 4

Number of hours a month = 120 hrs/month

Number of watts of computer = 225W

Number of watts of electric fan = 140W

Number of watts of light = 32W

1. **Computer**

***kWh used by computer*** *= (number of watts \* number of hours/month)*

*1000 W*

*= 27 Kwh*

1. **Electric Fan**

***kWh used by electric fan*** *= (number of watts \* number of hours/month)*

*1000 W*

*= 16.8 Kwh*

1. **Light**

***kWh used by light =*** *(number of watts \* number of hours/month)*

*1000 W*

*= 3.84 Kwh*

1. **Total Monthly Power Consumption**

***Total Monthly Power Consumption*** *= kWh used by computer + kWh used by*

*electric fan + kWh used by light*

*= 47.64 Kwh*

1. **Basic Charge**

Generation Charge *(5.5967/kWh)* = 266.63

Transmission Charge *(0.6201/kWh)* = 29.54

System loss Charge *(0.6911/kWh)* = 32.92

Distribution Charge *(1.5836/kWh)* = 75.44

Supply Charge *(0.5832/kWh)* = 27.78

**Total Basic Charge = 432.31**

1. **4th  Month**

Number of hours a day = 7

Number of days a week = 6

Number of weeks a month = 4

Number of hours a month = 168 hrs/month

Number of watts of computer = 225W

Number of watts of electric fan = 140W

Number of watts of light = 32W

1. **Computer**

***kWh used by computer*** *= (number of watts \* number of hours/month)*

*1000 W*

*= 37.8 Kwh*

1. **Electric Fan**

***kWh used by electric fan*** *= (number of watts \* number of hours/month)*

*1000 W*

*= 23.52 Kwh*

1. **Light**

***kWh used by light =*** *(number of watts \* number of hours/month)*

*1000 W*

*= 5.38 Kwh*

1. **Total Monthly Power Consumption**

***Total Monthly Power Consumption*** *= kWh used by computer + kWh used by*

*electric fan + kWh used by light*

*= 66.7 Kwh*

1. **Basic Charge**

Generation Charge *(5.5967/kWh)* = 373.30

Transmission Charge *(0.6201/kWh)* = 41.36

System loss Charge *(0.6911/kWh)* = 46.10

Distribution Charge *(1.5836/kWh)* = 105.63

Supply Charge *(0.5832/kWh)* = 38.90

**Total Basic Charge = 605.29**

1. **5th  Month**

Number of hours a day = 7

Number of days a week = 7

Number of weeks a month = 4

Number of hours a month = 196 hrs/month

Number of watts of computer = 225W

Number of watts of electric fan = 140W

Number of watts of light = 32W

1. **Computer**

***kWh used by computer*** *= (number of watts \* number of hours/month)*

*1000 W*

*= 44.1 Kwh*

1. **Electric Fan**

***kWh used by electric fan*** *= (number of watts \* number of hours/month)*

*1000 W*

*= 27.44 Kwh*

1. **Light**

***kWh used by light =*** *(number of watts \* number of hours/month)*

*1000 W*

*= 6.27 Kwh*

1. **Total Monthly Power Consumption**

***Total Monthly Power Consumption*** *= kWh used by computer + kWh used by*

*electric fan + kWh used by light*

*= 77.81 Kwh*

1. **Basic Charge**

Generation Charge *(5.6546/kWh)* = 439.98

Transmission Charge *(0.9082/kWh)* = 70.67

System loss Charge *(0.7011/kWh)* = 54.55

Distribution Charge *(1.5836/kWh)* = 123.22

Supply Charge *(0.5832/kWh)* = 45.38

**Total Basic Charge = 733.80**

**Total Overhead Cost = 2083.96**

**V. Total Development Cost**

|  |  |
| --- | --- |
| Hardware Cost | 71.76 |
| Software Cost | 71.76 |
| Labor Cost | 18,000.00 |
| Total Overhead Cost | 2,083.96 |
| **Total System Development Cost** | **20,226.52** |