E-Library System that we will be using runs on a Linux Based Operating System named *Edubuntu.* E-Library solely runs on the *LINUX TERMINAL SERVER PROJECT* which is a Server Client architecture for running the E-Library. All the E-Library Content is stored in the server and clients have access of the server through the switch.

# COST ESTIMATION

Following are the specifications of a complete E-Library Project. Specification is estimated for providing an E-Library with ten clients and a Server(host).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Items with Specifications** | **Quantity Required** | **Cost Per Quantity (*Approximation cost*)** | **Total Cost** |
| 1 | **Server**(*Dell Server with*  *Intel i5 Processor,500GB Harddisk,4GB Ram,19” LCD Monitor, Keyboard, Mouse, Inbuild Speakers*) | 1 | 80,000 | 80,000 |
| 2 | **Client(***MSI client with*  *Wind Box, 17” LCD monitor,Keyboard, Mouse, Head Phones*) | 10 | 30,000 | 3,00,000 |
| 3 | **Switch** (*Trendnet Switch with 18 ports*) | 1 | 20,000 | 20,000 |
| 4 | **CABLE** (*CAT 5 LAN Cable*) | 100 Mtr | 20 | 2,000 |
| 5 | **RJ45 JACK** | 1 Box | 500 | 500 |
| 6 | **Clamper** | 1 | 500 | 500 |
| 7 | **Tester** | 1 | 500 | 500 |
| 8 | **Multiplug** | 5 | 400 | 2000 |
|  | **TOTAL** |  |  | **NPR 5,05,500** |

Above stated is the approximation cost estimation made with reference to other existing E-Library Projects. While the price of electronic goods totally depends on dollar value, so slight fluctuation may occur.

# PROJECT IMPLEMENTATION ESTIMATION

## Project Timeline

Project is estimated to be accomplished in five complete days. Work and time are divided as whown in the table below:

|  |  |
| --- | --- |
| **Days** | **Tasks** |
| Day 1 | Moving Logistics from Kathmandu |
| Day 2 | Reaching the destination and E-Library Setup |
| Day 3 | Training Session for both Students and Teachers |
| Day 4 | Training Session for both Students and Teachers |
| Day 5 | Back from the destination. Project Accomplished. |

## Technical Assistance

**Four Volunteers** are required for the installation of E-Library project. They will be responsible for following duties:

1. Installation of Server with Edubuntu(Linux Based Operating System).
2. Testing of Logistics before Deployment
3. Loading the Logistics on the Bus safely.
4. Make sure the logistics gets safely unloaded.
5. Moving the logistics to school safely.
6. Installation of E-Library.
7. Training the teachers and students about the whole system within two days.

# Transportation Expensess Estimation

In order to implement the project which is establishment of E-Library various aspects like Transportation of Logistics and Volunteers, Accommodation, Food and allowances should be estimated , which is listed below.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Specification** | **Quantity** | **Estimated Cost** | **Total Cost** |
| 1 | **Transportation(***Two way transportation from KTM to the destination for 4 Volunteers + Seats for the Logistics\**) | (BusFair \* Volunteers \*  Two way ride) + (Seats for Logistics \* Bus Fair) | 700\*4\*2 + 4\*700=8400 | 8,400 |
| 2 | **FOODING(** Fooding for first second and fifth day)\*\* | (Days \* (FOOD + LUNCH + BREAKFAST)) | 3\*(150\*2+100+50) | 1,350 |
| 3 | **Technical Allowances**\*\*\* | Volunteers \* Daily Rate\* Days | 800 \* 3\*4=9600 | 9,600 |
|  | **TOTAL** |  |  | **19,350** |

Therefore total cost estimation for E-Library Deployment for Logistics and Deployment only is Rs.5,05,500 + Rs.19,350 = **Rs.5,24,850.00**

The budget exceeds its estimation it we will include the Monitoring phase which is also an important part of E-Library Project which is done three times in a year to ensure that the school is making its maximum use to facilitate its students through the help of E-Library and its contents.

Notes:

* \* Since the computers and servers are all delicate and expensive electronic gadgets, no risks can be taken of transporting these logistics by placing it in other storare space of the bus. Also it is a public bus. Considering this fact all logistics will be accomodated in 4 passanger seats.
* \*\* For first second and third day we are on our own, but the day when we will be busy on training the teachers and students, the school must take all the responsibility of our hospitality which includes, food and shelter.
* \*\*\* Practice of Technical allowances is common in other E-Libraries in Nepal which we established. Generally technical allowances is provided for three working days. First and last days are spent on bus as traveller, which donot fall under technical assistance criteria.