

# **PROPOSAL FOR BADHAN BLOOD CENTRE**

## **About Badhan:**

The nimbus of Badhan started from the tiny corner of Shahiudullah Hall of the University of Dhaka in 1997. Unlike the others working in the field of Blood transfusion, Badhan works in a different way with her own pace and passion in organizing the donation of fresh Blood. The esteemed dream of this organization is to create such a society where thousands of graduate/post graduate level students would be “all time feel free” to donate FRESH Blood instantly for the patients on voluntary basis and thus endeavoring the ‘safe save’ of thousands of endangered life’s around the country. Since establishment, it is working with own spirit and ideology despite many hitherto starting up difficulties. In course of time and mass support from the fellow members, activists and from the authorities of the institutions, it is, of course now among the leading humanitarian organizations in Bangladesh. It is the biggest voluntary organization working in our educational institutions.

Thousands of patients die in our beloved country only from shortage of Blood, shortage of FRESH Blood, every single year. The nightmare for the rush and hunt for a bag of clean FRESH haunts them who suffered, those who needed Blood for themselves or for their relatives or for nearest one. Badhan is extending the helping hands for all in need for fresh Blood voluntarily. Miles to go, but the army of this mighty organization will remain fresh and even attending.

Badhan is now working in the University of Dhaka, Bangladesh University of Engineering and Technology, Bangladesh Agricultural University, Rajshahi University, Jahangirnagar University, Rangpur Karmaichael college, Rangpur Govt. college, Bangladesh College of Leather Technology, Dhaka college, Tangail korotia sadat college. Some more Universities and big colleges are waiting to start Badhan activities and waiting to join us.

For more about us pls visit [www.badhan.org](http://www.badhan.org)

## **Present situation of Blood Banking/Transfusion and the Blood centers of Bangladesh:**

In Bangladesh, Government Hospital Blood Banks are still the leading Blood centers. Almost all of this Blood Banks are hectic, time consuming and lack adequate quality lab facilities to screen Blood up to the level of recommendation. Although screening for HIV, HBV, HCV, VDRL, MP are must for safe Blood transfusion, in most of the cases these tests are not done properly. Donors who come to donate voluntarily in this Blood Banks face various types of difficulties and hazards

(Including health hazards) most of the time. For example most of our volunteer donors are afraid of DMCH Blood Bank after donating there once misbehavior of Hospital personnel is another point of importance.

Then we have Red Crescent Blood center, Sandhani Blood centers and some other commercial Blood Banks. Their services are almost up to the mark but still there are some difficulties:

- 1) Red Crescent Blood center is far away from DU, BUET, Dhaka college, DMC, Eden college, City college, (Source of Voluntary donors) & also far away from some main hospitals of Dhaka city.
- 2) Costing is somehow high in Red Crescent Blood Bank and some other private Blood Bank in the city.
- 3) Sandhani Blood Bank is easily accessible to poor patients but they are not supported by motivated Blood Donors like Badhan. For this they serve up to their store.
- 4) Commercial Blood Banks are dangerous as most of professional donors are linked with them. Most of them have no lab facilities, no technical personnel. Their Blood Banks are hazardous for both donors/ patients.
- 5) Most of the above Blood centers have no cell separation facilities.

### **Why a Blood Centre is necessary for Badhan?**

- All of the donors of Badhan donate blood in the above discussed Blood Centers except commercial ones. For this most of the time they have to go far away and the total procedure takes three to four hours. As all of our donors are students. We want to make donation system easy and less time consuming.
- We want to ensure proper screening of donated Blood to prevent both donors and recipients from threat of HIV, HBV, HCV, VDRL & other diseases infecting through Blood transfusion.
- We want to minimize the cost for the poor patients.
- We want to centralize our donation procedure for better service.
- We want to use cell separation technology so that more than one patient could be benefited from one unit of blood.
- We want to centralize our vaccination program.
- We want an institutional backbone for our organization to create a real social movement for voluntary Blood Donation.

### **Nature and facilities of our dreamt Blood Transfusion Centre:**

We don't want a conventional Blood Bank as existing in Bangladesh. Their service is just like a shop we think. They serve as long as their stock in the refrigerator permits. We don't want to be limited by this. We are working to create a voluntary FRESH Blood donors pool who could be easily available (such as graduate and post graduate level students residing in Halls/Hostels or residing other places with telephone facility) and can be called for donation anytime. We want fresh Blood donation; we don't want to give more importance to store blood for long time like other Blood Banks right now. Rather we want to store it for specific patient and short for period.

In our transfusion center, Donors called/collected by our various units will come to donate Blood for specific patients. After/before donation Blood will be properly screened, matched and then supplied within short period.

Sometimes we have to store Blood for emergency but that will not before more than 24 hrs.

The center has to have the facility of Blood collection, Lab facilities for Blood screening, cross matching etc.

It also has aphaeresis facility step by step and preservation of whole blood, blood components for specific period. It will work as a vaccination center also. It can be used as a free HIV testing Laboratory also if possible.

It should have training facilities for Badhan activists.

### **Where it should be established?**

The center should be set up in Dhaka University. This place is at the heart of the city, most important hospitals are around the area and also heart of the Badhan activity is here. Preliminary discussion with the Dhaka University authority has already been done and a committee is formed to assess our proposal. We assume, the university authority can give us place for the center in university Medical Center or at TSC. **We believe this center will increase the reputation of the university throughout the country.**

### **How it could be established? Source of fund?**

Dhaka University may give us place/infrastructure for the center but they are unable to supply enough fund for this project. This is why we are searching for donors who can help us to establish the center. Badhan is a voluntary organization by and of the students for the people, so it has no fund at all.

During our flood drive last year, we came in close contact with an expatriate organization named SpaandanB ([www.spaandanb.org](http://www.spaandanb.org)) working in California, USA. The organization is currently directing many projects in Bangladesh with esteemed focus on education, Health and emergency fund raising program. We have already had a very positive preliminary discussion with the organization and they are interested to work with us to set up the blood transfusion center. They might help us logistically and financially. We hope if university authority gives us space to set up the center we can able to set up the center with the help of SpaandanB.

## How the center will be maintained?

We believe the center can earn almost all of its variable cost. Perhaps it would be in need of financing for salary of its permanent staffs. The center will be directed by a (07) seven members directory board. The board will be consisted as follows:

- 1) Chairman 1 ( may be nominated from the Provosts by the university authority with a consent of Badhan DU zone)
- 2) One Doctor (may be deputed honorary from DU medical Centre, who will also perform as the consultant of the centre.)
- 3) Central President and Secretary of Badhan
- 4) DU Zonal President and Secretary of Badhan
- 5) One from the Senior Advisors of Badhan.

## ## Phase I: Initial requirements for establishing the centre

### A. Staffs required for the centre initially and their salary per month (approx):

Designation	Salary
Consultant	May be deputed from DU medical Centre
Chief Executive	Non salaried(Badhan Fellows)
Technologist (one)	Tk.3500.00 (part time)
Lab assistant (one)	Tk.1500.00 (part time)
Technicians (as needed)	Non salaried (Badhan Fellows)

### B. Necessary equipment to set up the centre initially and their approximate cost break up (cost break up is forecasted on the basis of Bangladesh market rates)

Name of the item	No required	Total Projected cost (in Taka)
Space		DU Authority
Blood collection Bed	2	10000.00
Other Furniture and Fixture		50000.00
Blood preservation Refrigerator	2	60000.00
Centrifuge machine	1	15000.00
Stethoscope/BP Machine	2	3000.00
Weight Machine	1	1000.00
Microscope	1	75000.00
Air Conditioner (2 tons)	1	75000.00
Lab Rotator	1	3500.00
Micropipette ( )	2	18000.00
Incubator	1	30000.00
Water bathe	1	20000.00
Autoclave (40 liters)	1	25000.00
Hot Air Oven	1	45000.00
Other lab accessories		10000.00
Telephone	1	15000.00
<b>Total:</b>		<b>455500.00</b>

**C. Variable cost for the Centre (Assume per day minimum 35 bags of Blood initially supplied):**

Item	Cost (Taka)
Blood Bag 60x35x30	63000.00
Screening 110x35 x30	115500.00
Cross matching 5x35 x30	5250.00
Administrative cost 20x35 x30 (including refreshment for donors)	21000.00
<b>Total Per Month</b>	<b>204750.00</b>

**Note:** Assumed that HIV test kit will be supplied free.

If we initially take taka 200.00 per bag, Monthly earnings of the center is  
 $=200 \times 35 \times 30 = 210000.00$

**D. Expenditure forecasting:**

Item	Expenditure (Taka)
Variable cost	204750.00
Salary	5000.00
Others	1000.00
Power & Water Supply	Through DU
<b>Total</b>	<b>210750.00</b>

**This indicates that the center would be run by itself.**

**NB:** Cost Break up of various Blood centers in Bangladesh is mentioned in Annexure.

## **## Phase II: Equipments required modernizing the centre for all services.**

<b>Name of the item</b>	<b>No required</b>	<b>Total Projected cost (Taka)</b>
Refrigerated Centrifuge High Speed	1	2500000.00
Cell Separator	1	3000000.00
Blood Bank Refrigerator for bellow 0 temp	1	950000.00
ELISA Instrument Full set	1	550000.00
Micro typing System	1	550000.00
Wastage management system	1	Unknown
<b>Total:</b>		<b>7550000.00</b>

### **Note:**

After implementation of phase II administrative and maintenance cost will be increased but at the same time earning from various services will be also increased. We want to make our volunteers trained to operate and maintain the above equipments and one or two more salaried technician(s) will be required.

### **Conclusion:**

We think this center will augment Badhan activities as well as the social movement we are trying to create to make fresh and Voluntary Blood Donation as a real social movement. So the centre is badly needed for us. Hence we hope DU Authority and our associates will move with their aiding hand towards us to setup the centre.