

Rotary Club Of Bhusawal

Rotary Eye Bank – Project Report

A HUMANITARIAN PROJECT OF
ROTARY CLUB OF BHUSAWAL & RID 3030

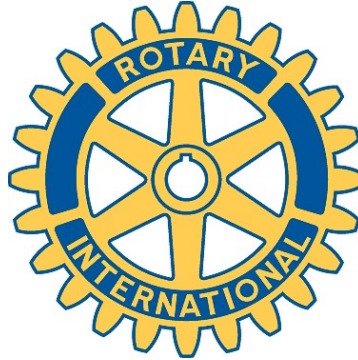
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PROJECT REPORT



ROTARY EYE BANK and Processing Centre of ROTARY CLUB OF BHUSAWAL

Rotary International District 3030

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WHY THE NEED FOR AN EYE BANK?

Just for a moment imagine that you cannot see, just imagine the consequences of your not being able to see, Just contemplate how your life would be? This happens to 50 million blind people, 150 million victims of severe visual disability.

In a world of complete darkness just the ability to seeing a loved one can be nothing more than a dream. For those without sight, the gift of vision can be the most precious boon. A gift that can illuminate their world and the joys that we take for granted.

Out of the 15 million Indians in the dark due to Blindness, 3 million suffer due to corneal blindness, Every 5 seconds 1 person goes blind, Every 1 minute 1 child goes blind and this is expected to double within the next 2 decades, What a Pathetic situation? In this Appalling & Heart rending Scenario - What can one do?

Yes we can pledge & donate these two beautiful gifts given by the Almighty to us i.e. the two beautiful Gems - our two Eyes to two carnally blind persons, after they are of no use to us. Medical science does have the answer to bring light to those suffering from corneal blindness over the past 50 years. "Corneal Transplant Surgery" is being performed in our country with a high success rate. However the important thing required for this surgery is the availability of high quality donor Cornea.

What is the present scene? Unfortunately Eye Donation is uncommon in our country. During the period January 2002 to October 2007, only 6404 eyes were received from various eye banks in MAHARASTRA State. Out of which 242 eyes were issued for corneal grafting purpose. In the year 2077 there were 15 thousand eyes through donation while the need was at least 4 lacs through out India Here lies the importance or the miracle of eye donation. With that the need for a proper Eye Bank - for collection, processing and storage cannot be over emphasized.

To avoid malpractice in this noble cause the full process comes under the preview of Directorate of Health Services, Government of Maharashtra. There are many Eye banks for collecting the Tissue in the state of Maharashtra, India, but to make the best out of the tissue, the collected Eyeballs have to be cleaned, evaluated, processed and stored for future use. All this is possible only if you have a proper Eye Bank Setup. Unfortunately we have only one such setup by the name - "Eye bank Co-ordination And Research Centre" at KEM hospital in state Capital Mumbai 500 kms away from Bhusawal & 1100 kms away from Eastern tip of the state. All this peripheral collection centers are supposed to send the Eyeball to this processing centre and which is then in turn distribute according to the wait-list to the Corneal Surgeon for it's use for corneal transplant surgery.

Hence the need for a similar kind of an Eye-Bank with the processing and storage setup in Bhusawal is stressed upon. Bhusawal is major Railway Junction connecting North India with Southern part & East India with western India. National Highway No. 6 Connecting Mumbai with Nagpur / Calcutta passes through Bhusawal & State Highway to Aurangabad is to linking Bhusawal with Southern Maharashtra. In short this is ideal Place most ideally situated & connected with almost whole Central India within radius of 400 kms or 5 hrs travel by Road or Railways, in either direction.

Let us all work together for this noble cause uprightly and start such a full fledged Eye-Bank Processing Centre and ensure that it is a free from any malpractice, so that it's humanitarian aim of making the world free from the scourge of corneal blindness can be achieved.

IMPORTANCE OF EYE DONATION

There is an imperative need for augmenting the supply of Donor Eyes through increased Eye-Donations in order to cater to the increasing requirements of suitable corneas for transplantation emanating from the carnally blind person. We need at least 50,000 pairs of suitable cornea per annum for effectively combating corneal blindness as against a total of just 7500 pairs donated from all over the county.

In the past people were not aware of Blood donation. They were gradually educated and they convinced themselves and started donating blood voluntarily. Similarly, we should convince people that after our death, our organs could be of use to someone to lead a normal and happy life.

People are generally afraid to think about the happenings after death. Even if the deceased has given the consent for donating his/her eyes, the family members may not realize the necessity of fulfilling his/her words, as severe grief and sorrow overwhelms the bereaved family.

There is no shortage of potential donors, all that is needed is a timely request and quick eye collection service.

The loss suffered by a blind person is far greater than the damage suffered by a dead body which loses its eye after death.

Even if a donated cornea is not good enough for vision, it can be still be used for emergency patching up of defective corneas. This can save a patient's eye until a healthy cornea becomes available. The efforts of all Eye Banks are being geared towards ensuring that no donated corneal tissue is wasted.

LET YOUR EYES CHANGE SOMEONE'S LIFE

You can make a difference.

EYE DONATION & EYE BANKING - SCENARIO IN INDIA

A vast number of carnally blind people (3.8 million) need corneas for the restoration of their vision, but the procurement of corneas in the whole of the country is only 16,000 per annum while the number of transplants carried out is only about 7,000 per annum. Apart from the pressing need to collect at least 1,00,000 corneas per annum, there is an urgent need to upgrade the qualitative standards of Eye Banking in India. In the last decade, there has been reasonably good progress in this regard and there are Eye banks operating in Mumbai, Hyderabad, Delhi, Chennai, Bangalore & Vadodara where the requisite facilities for procuring, evaluating, testing, processing & storing the corneas have been established. Many of the Eye banks in reality are only eye collection centers and more than 60% of them collect less than 50 eyes per annum. Apart from the necessary legislative support aimed at augmenting the supply of corneas, it is necessary to initiate Cornea Retrieval Program in smaller cities for increasing the number of corneas substantially.

The technique of removing only the corneas for the purpose of transplants is yet to be established replacing the current general practice of removing the whole eyeballs from the deceased person. There is also a need to establish the necessary training course for the Eye Bank technicians.

Keeping all this in mind, there definitely is a high demand to start a full fledged Eye Bank with the latest of the Equipments with a good public awareness program & the proper training course for the technician.

COST OF PROJECT

CAPITAL INVESTMENT

1. Premises: This project requires premises of about 1000 square feet area. The initial plan is to commence the project/operation from a rented premises/ownership property, as the cost of buying premises will be high. Once the project is on stream, effort will be made to try getting a Government or Municipal plot or ready premises for the purpose.

I.	Building (800 sq. feet. X Rs. 650.00) :	520,000.00
II.	Interior work-up	300,000.00
III.	Equipments for set up :	
	A. Specular Microscope (Konan German Make)	1,180,000.00
	B. Slit Lamp (Carl-Zeiss)	280,000.00
	C. Refrigerator	20,000.00
	D. Air conditioner 4nos 2ton each @30,000	120,000.00
	E. Dehumidifier (2)	70,000.00
	F. Laminar Airflow	110,000.00
	G. Computers (2)	60,000.00
	H. Bio Microscope	5,000.00
	Total:	1,845,000.00
IV.	For Tissue Collection	
	A. 5nos Emucleation sets	20,000.00
	B. Autoclave machine	17,000.00
	C. Van	560,000.00
	D. Ice Boxes & Bottles	3,000.00
	Total :	600,000.00
V.	Storage mediums Solutions (One time purchase)	50,000.00
	(This will be a consumable expense to be bought according to use)	
VI.	Advertisement for project awareness	150,000.00
VII.	Auditors / Consultants / Miscellaneous expenses	20,000.00

Total set up cost	3,485,000.00
Cost in US Dollar Terms (1 USD = 42 INR)	82,976.00

EXPECTED FUNDING

Partner	Cash	DDF
Rotary club of Bhusawal	4,651.00	
RI Dist 3030 DDF		20,000.00
Partner Club	4,000.00	
Partner District DDF		15,000.00
Total	8,651.00	35,000.00
Grants request from TRF	39,325.00	
Grand Total	82,976.00	



MODE OF OPERTAION

Tissue Collection: By 3 ways

1. Make all the peripheral Eye-bank collection centers on your panel & invite tissues which they have collected for further processing at your center. (The equation of giving back the tissue to them can be negotiated with them.)
2. Train General Physicians in different areas throughout the city and keep them on call round the clock.
3. Appoint two Doctors at the centre working for you only round the clock. Once the call for Eye-donation comes at the centre the Doctor has to reach there in less than 1 hour, perform the eye removal procedure in 20 to 25 minutes time, complete the formalities store the tissue in the given boxes and get it back to the Eye bank. 10 cc of blood also has to be collected from the dead bodies.

List of things required for the procedure

- 1) Ambulance with Driver.
 - 2) Doctor or Technician to remove the Eye ball.
 - 3) Sterile Eucleator sets.
 - 4) Consent form.
 - 5) Certificate of Appreciation to be given to the relatives.
 - 6) Blood collection bottles.
- Cost for the procedure
- 1) Fuel charges (for to & fro transportation).
 - 2) Incentive given to the Doctor on panel (If not the in - house Doctor).
 - 3) Stationary charges.
 - 4) Disposable item takes syringe, needle, gloves, cotton & bottle for storing blood.

Tissue Processing And Storage :

- A) Collected blood has to be evaluated for few test like HIV, Hepatitis, Blood counts; etc.
- b) Collected Eye-ball is cleaned & checked on Slit-lamp for gross abnormalities.
- c) Tissue is inspected on specular microscope.
- d) Tissue is then stored in different media according to technician's advise.
- e) Computer entry of the deceased person & details of the report of the tissue evaluation.

Cost Involved

- 1) For blood test -Rs. 650 to 700.
- 2) Different storage medium charges (variable)

Tissue Dispatch:

- a. Give it back to the referral Eye-Bank who gave you the tissue for processing (with a proper understanding with them)
- B. Create a data bank of corneal surgeons or eye - specialist doing corneal transplantaion at hospital registered by FDA, or other regulatory Body & call them up for their requirement.
- c. Patients who have directly registered with you are called in accordance with the waiting list. Emergency cases are death with in conformity with guidelines.

RUNNING EXPENSES

Salary 2 nos. doctor - for Eucleator 5500 x 3 = 16,500.00

Computer Operator/Receptionist 3000 x 2 = 6,000.00

Technician for Eye processing 5000 x 1 = 5000.00

1. Admin. Expenses :

A. Elect.	5000.00
B. Tele	3000.00
c. Stationary	1000.00
D. Soc./rent	5000.00

Sub - Total 14,000.00

2. Transportation Expenses :

A. Driver	4000.00
B. Fuel	5000.00
Sub - Total	9,000.00

Total 46,500.00

(It is assumed that 30 tissues per month would be procured, So per tissue Rs. 1,550.00)

COST PER SINGLE TISSUE:

1. PROCESSING	1500.00
2. TRANSPORT / DOCTOR (If he is not an in house doctor)	500.00
3. FIXED OVERHEADS (As per above)	1550.00
Total	3550.00

EQUATION :

The approx. total cost involved in processing a tissue is between. Rs.3000/- and Rs. 3500/- The above working is on processing 30 tissues per month.

IMPLEMENTATION OF PROJECT

The success of this project depends on the awareness we create during the prelaunch program. It is very essential that we conduct a very high decibel, highly visible attractive & attention grabbing campaign as this would create mass awareness of the availability of the services, as also the need for the people to donate eyes. Various teams will have to create an awareness program through seminars for Public & also to do press briefings, hand bills brochures, banners & meet all eye hospitals & eye specialists & inform them about the Centre.

EXPENSES DURING THE LAUNCH / COMMENCEMENT OF THE PROJECT:

1. Prelaunch Media briefing
2. Team of 2 Rotarians to meet doctors, Eye Banks, blind associations from Nashik to Gondia, whole of RID 3030.
3. To get special MTNL number for the Centre & special mobile numbers for the Doctor's & technicians.
4. Organize public awareness lectures at different places.
5. Brochure - Pamphlets, sticker posters to announce the event.
6. Printing materials.
7. Eye Donation Informative Booklet Brochure
8. Pledge cards
9. Eye donation stickers with name, address & tel. no of the centre.
10. Fund raising requisite forms. The Approximate cost of the full prelaunch program may cost us upto Rs.5.00 lacs.

PROPOSED NAME OF THE EYE BANK

Will Depend on:

Club taking the lead in organizing the show

As per the name on the Certificate by the Authorizing Body.

A major Donor

Rotary Club of Bhusawal is a social organization working for the upliftment & betterment of the Society since last 60 years. It has been successfully organizing many social projects, Rotary Blood Bank & a full fledged Eye Bank will definitely add up to it's list. Rotary Club definitely has all the Resources & potentiality of completing this project too successfully, provided a proper support from the Society is sought for.

CONCLUSION / SUMMARY

In summary, this proposed Eye Bank project will be Non-profit venture by an NGO, working for a noble and admirable cause helping the visually impaired patients. The aim of the project would be to run a proper fully fledged, fully equipped with latest equipments required for Eyeball removal from the dead body (Enucleator), Processing and Evaluating the tissue & then storing it in proper storage mediums to be used for Corneal Transplantation either immediately or at a later date for optical, therapeutic or research purpose.

In a nutshell to start with, we need :

- ✓ Premises - Rental or Pre owned
 - ✓ Authorization from proper Governmental body.
 - ✓ Capital Investment.
 - ✓ A fund saved in the Bank for running the show (running cost) for the first year.
 - ✓ A proper extravagant launching program 7 to 10 days prior to the inauguration
- ✓ Good Administrating & Marketing Staff.

ASSUMPTION

- i) All costs / expenses would remain constant till the project is implemented.
- ii) Doctor's charges / salaries / overheads would remain constant.
- iii) Trust corpus would be available immediately on receipt of grant / fund.
- iv) The cost of machine is based on present tissue technology and is not subject to change.
- v) Rotary Club of Bhusawal would carry out all the maintenance of the project

Dear Reader,

We appreciate that you have spared your time and gone through the details of this sight-giving project. We also solicit your co-operation and help.

In case you require further information please feel free to contact any of the committee members.

With warm regards

Yours in service

Rtn. RAJIV SHARMA
Project Chairman & Primary Contact
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EYE BANK COMMITTEE

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2	Rtn. Sarfaraj Tadvi	Hon. Secretary	9373965966	R -247144
3	Rtn. Rajiv Sharma rtn.rajiv.3030@gmail.com	Project Chairman	9422222611	R -240577 O -240586
4	Rtn. Dr. Usha Dawalbhaka	Project Co- chairman	9422778001	R -224038 C -222050
5	Rtn. Dr. Alka Naik	Project Coordinator	9373411550	R -222972
6	Rtn. Dr. Sujata Kelkar	Technical Consultant	9422284799	R -240540 C -241610
7	Rtn. Sunil Gholap	Legal Advisor	9422277060	R -280356
8	Rtn. Arun Mandalkar	Publicity & Awareness	9423904393	R -202776
9	Rtn. Pandurang Rao	Administration	9823024557	R -225838 O-222059
10	Rtn. Dr. Rashmi Sharma rashmisharma9@gmail.com	Treasurer	9422222612	R -240577 O -240586

If you are interested in our project please send your cheque in favor of
“ROTARY CLUB OF BHUSAWAL (EYE BANK)”