

# LOKESWARANANDA EYE FOUNDATION

**Para, Purulia**



*A 100 bedded Tertiary Level Eye Hospital focused on community Ophthalmology*



Run by

## NANRITAM

(A Voluntary Welfare Organization)

Regn No: S/11/8102 of 2001-2002



One of the major preventable health problems in rural India with immense social, emotional and financial implications is visual impairment/blindness. The single major cause is Cataract. Other causes of visual impairment include glaucoma and retinal diseases, infections / inflammations (keratitis, uveitis, retino-choroiditis, optic neuritis etc), squint and nutritional deficiencies (Vitamin A deficiency). Uncorrected refractive error also needs mention. All these eye problems need to be addressed to reduce the brunt of visual impairment.

On taking up a rural development project in the marginalized, tribal district of Purulia, NANRITAM came to realise that eye problems, specially cataract induced blindness was a major health issue among the villagers. An Eye care project was adopted in 2006, which has today taken the shape of a Tertiary Care Eye Hospital in a rural setup: Lokeswarananda Eye Foundation.

LOKESWARANANDA  
EYE FOUNDATION

# THE BACKDROP



## PREVENT BLINDNESS



# THE MILESTONES



## March 2006

March 2006: Monthly Eye Clinics were started at Para, Purulia. Our Ophthalmologist from Kolkata held the clinics in our mud-built hut, using his personal kit of basic equipment. These clinics were marked by an overwhelming response with a huge attendance. In the process, numerous cataracts were detected. The urgent requirement for cataract surgery was felt.

## October 2006

Cataract patients screened at Para, Purulia were taken to Kolkata by bus → surgery performed by our Surgeon at his city-based hospital → operated patients brought back to their villages. ALL FREE OF COST.

## 2007

Regular OPD services were started at Para, Purulia after a few simple instruments, like a trial box & slit lamp were procured.

## February 2008

A small 1200sq ft single storied structure was erected and an Ophthalmic microscope procured → this marked the beginning of the Eye Hospital : Swami Lokeshwarananda Memorial Eye Unit (SLMEU). 300 cataract surgeries were performed in the 1<sup>st</sup> year.

## 2009

Extension of the building took place with up-gradation of the OPD and procurement of new instruments. Both OPD turnover & surgeries increase.

## 2010

Further extension of the hospital infra-structure done & more equipment were procured. A new building came up to accommodate male & female wards. Our OPD team now started to reach out to far off blocks to pick up cataracts. Patients from distant villages were screened, prepared for surgery & brought to our base hospital for operation. Again, all services were provided FREE OF COST. Annual surgeries went up to 6000.

The hospital was renamed as  
**Lokeshwarananda Eye  
Foundation**

## 1st October 2010

National Rural Health Mission assigned LEF for free Eye care management, precisely, cataract surgery with IOL implantation & anterior segment diseases for a jurisdiction of Purulia, Bankura and Midnapur districts.



2011

LEF was, by now, performing cataract surgeries in large numbers and contributing in a large way to prevention of blindness due to cataract, in Purulia and adjoining districts. Annual Cataract surgery rate had gone beyond 8000.

The hospital now endeavoured to look beyond cataract; to cater to retinal diseases, glaucoma and other complicated eye problems. Newer equipments were procured for the purpose.

Several camps were arranged within the campus and in distant blocks to detect retinal diseases. During the later half of the year, 600 Retinal diseases and 500 Glaucoma cases had been treated at LEF.

2012

In February 2012, LEF was declared as the Referral hospital for complete Eye Care for all patients from Purulia, Bankura and Paschim Midnapur, by the Hon'ble Chief Minister of West Bengal. For patients from LWE blocks of these three districts, all services will be free of cost.

For this purpose, Paschimanchal Unnayan Affairs (PUA) Ministry, Govt. of W.B. sanctioned funds for expansion of infrastructure, acquisition of modern equipment, a mobile van for conducting camps and a bus for carrying patients back and forth. The hospital has been upgraded from 10 to 100 bedded hospital.

On 10<sup>th</sup> April 2012, the Hon'ble Minister of Paschimanchal Unnayan Affairs laid the foundation stone for the new extension wing of LEF.

# THE MILESTONES

## Lokeswararananda Eye Foundation

Expanding Still





# LEF TODAY

We are proud to state that we have, now, equipped ourselves adequately to deal with all with major medical & surgical eye problems, in terms of infrastructure and equipment.

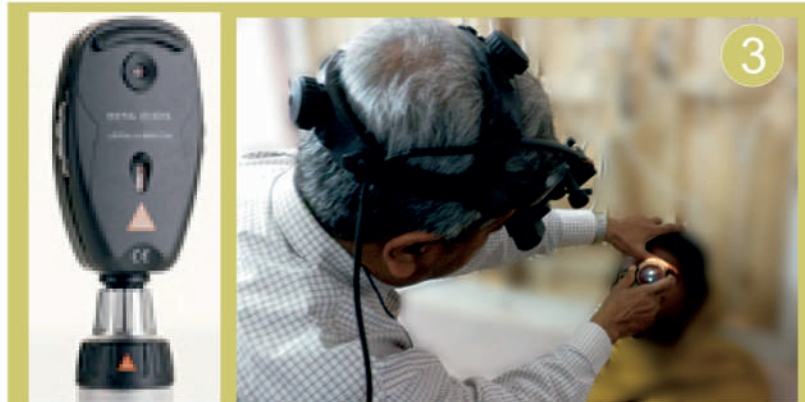
Division	Equipment	Use
Clinic	<ul style="list-style-type: none"> <li>✓ Slit-lamps</li> <li>✓ Direct &amp; Indirect Ophthalmoscopes</li> <li>✓ Auto Refractometer</li> <li>✓ All tonometers (ST,NCT,AT, Rebound Tonometer)</li> <li>✓ Gonio &amp; 90D Lens</li> </ul>	<i>Refraction and clinical diagnosis of eye diseases.</i>
Diagnostics	✓ Biometer with Pachymeter	<i>To measure IOL power &amp; corneal thickness</i>
	✓ Humphrey Visual Field (Automated Perimeter)	<i>For Glaucoma and Neuro-ophthalmology</i>
	✓ OCT & FDT	<i>For Glaucoma &amp; retina</i>
	✓ USG B-Scan	<i>For studying eye ball &amp; orbit</i>
	✓ Retinal angiography (DFA)	<i>For studying Retinal vascular disorders</i>
Procedures	✓ Yag-Laser	<i>After cataract removal &amp; glaucoma prevention</i>
	✓ Green laser	<i>For diabetic &amp; other retinopathies &amp; retinal breaks</i>





# The Clinic

- (1) SLIT-LAMP
- (2) TRIAL BOX
- (3) DIRECT & INDIRECT  
OPHTHALMOSCOPES
- (4) AUTO REFRACTOMETER
- (5) NCT
- (6) I-CARE TONOMETER





# DIAGNOSTICS



- (1) Biometer with Pachymeter
- (2) OCT
- (3) DFA
- (4) USG B-Scan
- (5) Humphrey Visual Field (HVF)



# Procedures



- OT complex with four OT tables
- Basic and High-end operating Microscopes with CC TV
- Phaco machine
- Facilities for Glaucoma surgery

## *For Vitreo-Retina Surgeries*

- Cryo unit
- Vitrectomy unit
- Green laser (Endo laser & laser indirect ophthalmoscope)

- Autoclave , Flash Autoclave, ETO for sterilisation



# For OPERATION THEATER

- (1) Autoclave
- (2) Flash Autoclave
- (3) Basic Operating Microscope
- (4) Vitrectomy Unit
- (5) ETO for Sterilisation
- (6) Phaco Machine
- (7) High-end Operating Microscope with CC TV
- (8) Motorised OT Tables





# SERVICES PROVIDED

OPD



## At Base hospital

Monthly turn over: 4,000

Medical Ophthalmology , Contact Lens Clinic, Squint Clinic, Glaucoma Clinic, Retina Clinic, Diagnostics (Biometry, Pachymetry, Automated Perimetry, USG, OCT, FDT, Retinal Angiography), Lasers (YAG & Green).

IPD



- ✦ Cataract surgery with IOL implantation ( including Phaco)
- ✦ Glaucoma surgery
- ✦ Vitreo retinal surgeries
- ✦ Squint surgeries
- ✦ Other surgeries ( Sac, Lid Surgeries etc.)

## Out reach camps

No of camps: more than 60/month

Total patient turnover: 6,000

Area coverage: Purulia-100 k.m. radius from base hospital, Bankura and West Medinipur (also at joining districts namely-Dhanbad, Ranchi, Bokaro and Purbo Singhbhum of Jharkhand State)

Activities: Cataract screening, refraction, medical ophthalmology (including glaucoma & retinal diseases) & OPD investigations.

## SERVICES TILL DATE

Annual cataract surgeries: 10,000

Other surgeries : 300

OPD patient care : more than 1,00,000

OPD procedures & investigations : 2,000

Total out-reach camps : 1,080

## SERVICES FOR THE YEAR 2013-14

Annual cataract surgeries : >12,000

Other surgeries : >1,000

OPD patient care : > 1,50,000

OPD procedures & investigations : >4,000

Total out-reach camps in LWE Blocks : >700

Total out-reach camps in non LWE Blocks : >600

## IMPACT

- ⇒ Significant decrease in cataract blindness (Needless blindness).
- ⇒ Prevention of visual impairment from Glaucoma and retinal diseases.

## FUTURE PLANS

Newer ventures we intend to take

- ⇒ Paediatric ophthalmology
- ⇒ Rehabilitation of visually handicapped



WE ARE THANKFUL TO



Department of Health & Family Welfare, Govt. of West Bengal

Department of Health & Family Welfare, Govt. Of West Bengal



ROTARY CLUB OF CALCUTTA



**ALOKON EYE CARE**  
**KOLKATA**

*Our Well Wishers*  
*and Donors*



## VITAL DETAILS OF NANRITAM

Name of Agency : NANRITAM

Contact Details : 28 /1/2, Selimpur Road, Flat – 6,  
Kolkata – 700031, West Bengal  
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Website: www.nanritam.in

Contact Person : Ranjana Sengupta  
Secretary, Nanritam  
+91 9830044003 / +91 9831418187  
Email: nanritam@gmail.com / rsen.bh@gmail.com

Date of Establishment : February 20, 2002

Registration Number : S /11 / 8102 of 2001 - 2002

Permanent Account Number : AAAAN 2389J (Income Tax)

FCRA No. : 147120781

Bank Account Details : United Bank Of India (for Local )  
Bose Pukur Rajdanga Branch, 27-G Bose Pukur Road ,  
Kolkata - 700042  
Account No : 0955010108714  
IFSC : UTBI0 BOSC90  
MICR : 70002716

United Bank Of India (for Foreign Currency)  
293/1, B.B.Chatterjee Road  
Kolkata - 700042  
Account No : 0074010155063  
IFSC : UTBI0 KAS151  
RTGS : UTBIINBB0BC  
MICR : 700027029

**All contributions to NANRITAM are exempted from Income Tax  
under U/S 80(G) of Income Tax Act**







# NANRITAM KRISHI KENDRA

Barandanga, Para, Purulia  
West Bengal, India

COMPREHENSIVE  
AGRICULTURE DEVELOPMENT  
PROJECT OF NANRITAM IN RURAL PURULIA



# BACKDROP

Among 150 'disadvantaged' districts identified by the Planning Commission of India, seven are in West Bengal and all three western districts namely Bankura, West Medinipur and Purulia belong to this category. Within the district of Purulia, more than 40% of the villages are officially classified as backward. Overall, one finds more people below the poverty line than those above it.

Percentage availability of land for cultivation is less compared to most other parts of the state due to vast stretches of the district being under rocky plateau, degraded wastelands and forests. The land is undulating and the soils are lateritic which are not as fertile as the alluvial soils of the Gangetic plains.

Majority of arable land is monocropped with transplanted rice which is grown primarily for food and only the surplus if any, is sold. The crop is dependent on monsoon rains that are erratic in nature. Less than 1/3<sup>rd</sup> area has any irrigation facility, its main sources being the tanks and dug wells; a small area is covered by canals.

Like the rest of West Bengal, the land-holding size in Purulia is one of the smallest in the country. That is another limiting factor for farming to be productive and rewarding. On the one hand agricultural productivity is sub-optimal while on the other the prices farmers get is not remunerative. Among the various factors responsible for this situation, is poor rural infrastructure which is not conducive for trade and commerce to thrive.

Yet, it is like poverty in the land of plenty. Resources are abundant but not being harnessed in converting these into wealth. Among those relevant to agriculture, the first is water. An average annual rainfall in excess of 1300 mm is a nature's gift, the worth of which is often overlooked and Purulia is described as a “dry” place. Instead of letting a lot of water to run off to the rivers and get wasted, if a portion of it is properly captured and utilized for irrigation purposes, cropping intensity and crop yields can be substantially increased and farming can be judiciously diversified. This together with application of appropriate technology, can make agriculture flourish and help bring about overall total socioeconomic uplift of Purulia's agriculture.





# The Beginning

With this bleak and dismal picture in the backdrop, Nanritam first decided to take up Sustainable Agriculture project in May 2010 in collaboration with Syngenta Foundation India. The primary objective was aimed at increasing income opportunities of farmers in Para block, most of whom were small holders. The initiative assumed that smallholder agriculture can be made remunerative by raising productivity with the help of technology and also that cash income can be generated from very small holdings by growing high value vegetables.

For driving this program, a small team of grass root-level field extension workers was put together which was led by a qualified agricultural extension executive. In an area where farmers are starved of knowledge and lack access to the right inputs, pilot efforts initiated by Nanritam Krishi Kendra (NKK) with a view to filling these voids, brought about a visible improvement in the quantity and quality of the produce by the farmers.



## The Interventions

Interventions like replacing farm-saved seed with certified seed; growing of rice following SRI technique; line - sown wheat and growing high value vegetables generated positive results at levels higher than expected. Encouraged by the initial success, the interventions were scaled up and diversified.

**syngenta** foundation  
for sustainable  
agriculture



**NANRITAM KRISHI KENDRA**  
(Nanritam Agriculture Unit) - work began in May, 2010 in 9 villages of Para block of Purulia district, West Bengal with 70 farmers participating initially. At present 864 farmers are involved in 23 villages of Para block.



**At Para Block we work in 6 Gram Panchayets.**

1\* Jabarrah – Jhapra 2\* Bhouridih 3\* Udaypur 4\* Nadiha-Surulia 5\* Bahara 6\* Dubra

## Present Activities

13 villages – Livelihood promotion programme going on through SHG (self help group of women) & FIG (Farmers' interested group).

10 Villages - work going on through non- SHG Farmers

Total coverage area – 1500-1700 hectare

Total farmers -864

FIGs & SHG members = 541

Non SHG Members -323

FIGs – 22 groups ; No. of members - 277

SHG's – 22 groups ; No. of members – 264





# AGRICULTURAL ACTIVITIES

## 2012-13

Name of crop - Paddy, Variety – Sahabhagi  
No of farmers - 281, Cultivated Area (ha.) - 29.02  
Average Yield (t/ha.) – 4.46



Name of crop - Hybrid Paddy  
Variety – NK-5251, NK-6302, PHB-71 & PAC -835.  
No of farmers - 27  
Cultivated Area (ha.) - 3.16  
Average Yield (t/ha.) – 7.31



### Name of crop - Blackgram

Variety – Saradha  
No of farmers - 46  
Cultivated Area (ha.) - 3.8  
Average Yield (Kg/ha.) – 535







Name of crop - Maize  
 Variety – HQPM-1 NK-30,  
 BOOM & KACHAN  
 No of farmers - 41  
 Cultivated Area (ha.) - 2.83



## *Promotion of Rabi Vegetables*

Name of crops	Cultivated area ( Ha.)	No of farmers
BRINJAL	11.07	160
TOMATO	9.33	147
C. FLOWER	3.66	102
CABBAGE	4.14	77





# Promotion of Rabi Crops

Name of crops	Cultivated area ( Ha.)	No of farmers
Wheat	13.31	103
Mustard	10.08	117

## Wheat - line sowing



## Promotion of Summer Vegetables

Name of crops	Cultivated area ( Ha.)	No of farmers
Bitter gourd	2.07	75
Rich gourd	1.58	64
Pumpkin	1.42	58
Cucumber	1.37	41
Okra	5.67	105
Onion	4.03	97
Bottle gourd	2.62	73





# REDUCING MORTALITY OF DOMESTIC ANIMALS

## ORGANIZING VACCINATION AND TREATMENT CAMPS

❖ 17 camps in 9 villages, on HSBQ for cattle's 472 beneficiaries and 1351 animals

❖ 9 camps in 9 villages, (PPR for Goat) 178 beneficiaries and 778 animals

## VACCINATION AND TREATMENT CAMPS





# LINKING FARMERS WITH POPULAR GOVT. SCHEMES

**MGNREGS – Hapa, Fruit Orchards, Social Forestry**

**Completed 10 Ha Fruit Orchard & 10 Ha Social Forestry,**

25 ha. Fruit orchard processing started In 2013 -14. 50 hapas will be completed in 2013 -14

On going .

COLLABORATION WITH DEPT. OF AGRI. AND HORTI.

Linking with 5 FIGs (70 farmers) & 3 SHGs(32 members ) For GOVT scheme, for Kharif veg. cultivation.

## Mango orchard at – Tilgora , Para ,Purulia





# Agricultural Planing For The Year of 2013-14

## 1. Promotion of people's institution

- ✓ Women managed Self Help Group
- ✓ Farmers Group

## 2. Farming system support through agriculture

- ✓ Paddy seed multiplication (Foundation to Certified 5 ha.)
- ✓ Vegetable seed multiplication (O.P. Varity 1.5 ha. )
- ✓ Tomato seed multiplication (hybrid 0.33 acre )
- ✓ Trail & Demonstration for vegetable cultivation.

## 3. Capacity building

- ✓ Training on Vegetable cultivation & Implementation
- ✓ Training on Varmi-compost & Implementation
- ✓ Training on Goat rearing & Implementation
- ✓ Training on SHG Promotion & strengthening.
- ✓ Marketing linkage.

## 4. MGNREGA

- ✓ Orchard development with soil moisture conservation measures.
- ✓ Plantation with soil moisture conservation measures.
- ✓ Small water harvesting structure (WHS)
- ✓ Check dam
- ✓ Dug well

## KHARIF ACTION PLAN 2013-2014

Sl. No.	Activity		Cultivated area	No of beneficiaries
1	PADDY PRODUCTIVITY ENHANCEMENT	Paddy seed multiplication (Foundation to Certified )	5 ha.	30
		Hybrid paddy cultivation	10 ha.	70
		Sahabhazi paddy cultivation	150 ha.	350 (approx.)
2	COLLECTIVE PRODUCTION OF KHARIF VEGETABLES ( Marketing linkage)	Crops – Brinjal, tomato & bitter gourd.	5 ha.	5 FIGs.
3	Kharif Maize	Variety – NK 30	3 ha.	3 FIGs.
4	Kharif – Pulses	Black gram , Pigeon pea	3 ha. + 1 ha.	5 FIGs + 1 FIGs
5	Kharif – Onion		4.33 ha.	33 farmers
5	Oil seed	Crops – Groundnut	1 ha.	2 FIGs.
6	Introduction of new techniques. (Vegetable seedling reusing )	Coco-pit media & Portray	50,000	NKK campus
7	LINKING FARMERS WITH POPULAR GOVT. SCHEMES (MGNREGA)	Hapa, Fruit Orchards, Social Forestry	No of 4 villages	
8	REDUCING MORTALITY OF DOMESTIC ANIMALS	ORGANIZING VACCINATION AND TREATMENT CAMPS	15 working villages.	
9	FIGs & SHGs Promotion & strengthening	Hand holding support	15 working villages.	



## Dr. Kaushik Basu, Vice-president and Chief Economist of World Bank visits NKK fields





# Our Inspiration



*Swami Vivekananda*

# NANRITAM

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