

Nepal Netra Jyoti Sangh  
Hiralal Santu Devi Pradhan Eye Institute  
Bharatpur Eye Hospital  
Chitwan Nepal

ANNUAL REPORT  
2014-2015



## **Message from Chairman NNJS Chitwan and Hospital Management Committee**



It gives me immense pleasure as a Chariman of NNJS Chitwan Branch and Chairman of Bharatpur Eye Hospital to share on the progress of Bharatpur Eye Hospital. This hospital was established in 1988 under Nepal Netra Jyoti Sangh Chitwan and delivering accessible and affordable eye care services including production of qualified ophthalmic human resource for eye care in Nepal.

It also gives me immense pleasure knowing that BEH is going to publish its Annual Report 2014/015. In its 28 years of eye care services it has been able to provide its services from 7000 OPD and 150 surgeries in 1987 to 133522 OPD and 5679 sight restoring surgeries in 2015. It's a great achievement however; we still have to reach the unreached cataract blind people in our catchment areas. We have been able to upgrade BEH as a specialised referral centre of this region and looking for developing this hospital as academic human resource training centre.

These all achievements have been possible only through the guidance of central NNJS, support from INGOs, contribution of local donors, support from local NNJS executives and members and local community people of Chitwan. My grateful thanks to all the helping hands especially Seva USA/Canada, His Excellency The Ambassador of Pakistan, Local donor Mr Mahendra Lala Pradhan, Mr Binod Shrestha, Mr Pritam Piya and Hiralal Maharajan for their generous support.

I also express my sincere thanks and gratitude to the entire staff of BEH for their efforts to bring this hospital at present state.

.....  
Chija Kumar Maskey  
Chairman  
Nepal Netra Jyoti Sangh Chitwan

## **Acknowledgement**



The dedicated team of seventy eight staff members are trying hard to attract and serve more and more patients. These team members not only perform their best within the hospital, they also reach the unreached poor population in the remote villages.

Apart from patient care activities, the hospital also runs three years Ophthalmic Science course, provide ophthalmology training to undergraduate medical and nursing students and fellowship training to ophthalmologist in Vitreo- Retina. The hospital is ready to start post graduate residency program in ophthalmology and seeking affiliating university.

The hospital is in the present state due to the moral, technological & financial support from SEVA foundation & Seva Canada Society. This has encouraged local social workers for making financial contribution in building construction & renovation as well as other physical facilities to prepare this hospital as an academic Institution. His Excellency the Ambassador of Pakistan provided first Phacoemulsification machine to this hospital & is a milestone for technological advancement. Further to this he made a visit to this hospital & again provided Non contact-tonometer as well as financial assistance in building renovation.

Our work would not have been possible without the support of NNJS, Chitwan specially Chairman Mr Chija Kumar Maskey and Seva foundation USA and Canada specially its representative Mr R.P Kandel in Nepal.

My grateful thanks to Chairman Prof. Dr Tirtha Prasad Misra and his team of Central NNJS for all the support & appreciations to all dedicated staffs, patients and those involved directly and indirectly.

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R. Byanju MD  
Chief Medical Director  
Bharatpur Eye Hospital

## **Hospital Background:**

Bharatpur Eye Hospital located in Chitwan district of southern central Nepal, is a non-profit Charitable Organization, providing high quality comprehensive eye care services at affordable cost to local as well as patients from neighbouring districts comprising of about two million populations. In addition to Base Hospital, BEH has established several eye care centres in different locations to provide basic eye care facility to the community. BEH currently has following networks of eye care centres in under mentioned locations.

- Chija Kumar Bishnu Kumari OPD Building (City Clinic) Bharatpur height.
- Bharatpur Eye Hospital Thori , Parsa Nepal
- Kawosati Eye Care Center, Nawalparasi
- Parsa-Khairani Eye Care Center , Parsa , Chitwan
- Narshing Dham Eye Care Center , Salyantar Dhading
- Madi Eye Care Center , Madi,Chitwan
- Sauraha Eye Eye Care Center Sauraha Chitwan
- Proposed Tadi Eye Care Center , Tadi Chitwan
- Proposed Chanauli Eye Care Center , Chanauli Chitwan

Bharatpur Eye Hospital was established in 1987 under Nepal Netra Jyoti Sangh (NNJS-National society for comprehensive eye care). The hospital building was constructed with financial and technical support from BCCI foundation Pakistan. Initially, it was established to provide eye care services in Chitwan district only but in the pursuit of growth and expansion with the support from various international organizations, relentless efforts and commitment put in, by its staff members and continued cooperation from local community, have made it possible for BEH to serve beyond Chitwan.

## VISION, MISSION and VALUES

### VALUES

- No one should be denied eye care for economic reason
- Competent and compassionate team
- Strive for continued improvement in all

### MISSION

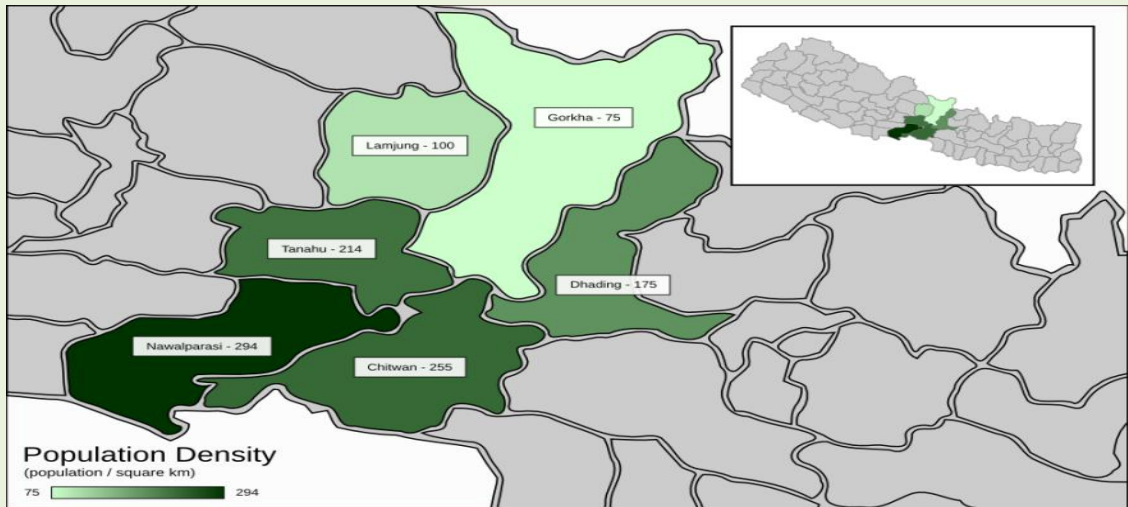
Providing high quality eye care to prevent unnecessary blindness

### VISION

Centre of Excellence for eye care



## Map of Service Areas:



## Population Distribution:

District	Population	Male	Female
Chitwan	579984	279087	300897
Dhading	336067	157834	178233
Gorkha	271061	121041	150020
Lamjung	167724	75913	91811
Tanahun	323288	143410	179878
Nawalparasi	643508	303675	339833
<b>Total</b>	<b>2321632</b>	<b>1080960</b>	<b>1240672</b>

## Prevalence of Blindness (&lt;6/60) and low vision (6/60 to &lt;6/18), Chitwan and Its Service Areas-

District	Population	Total # Blind (0.43%)	Total # Low Vision (1.0%)
Chitwan	579984	2,494	5,799
Nawalparasi	643508	2,767	6,435
Tanahu	323288	1,390	3,232
Lamjung	167724	721	1,677
Gorkha	271061	1,165	2,710
Dhading	336,067	1,445	3,360
<b>TOTAL</b>	<b>2,32,16,32</b>	<b>9,982</b>	<b>23,213</b>

## Burden of Blindness and Cataract Surgical Coverage:

SN	District	Population	% of CSC	Eye Blind due to cataract
1	Chitwan	579984	37%	1169
2	Nawalparasi	643508	66%	1297
3	Dhading	336,067	79%	677
4	Gorkha	271061	59%	546
5	Tahanau	323288	59%	651
6	Lamjung	167724	59%	338

## Human Resource at Bharatpur Eye Hospital:

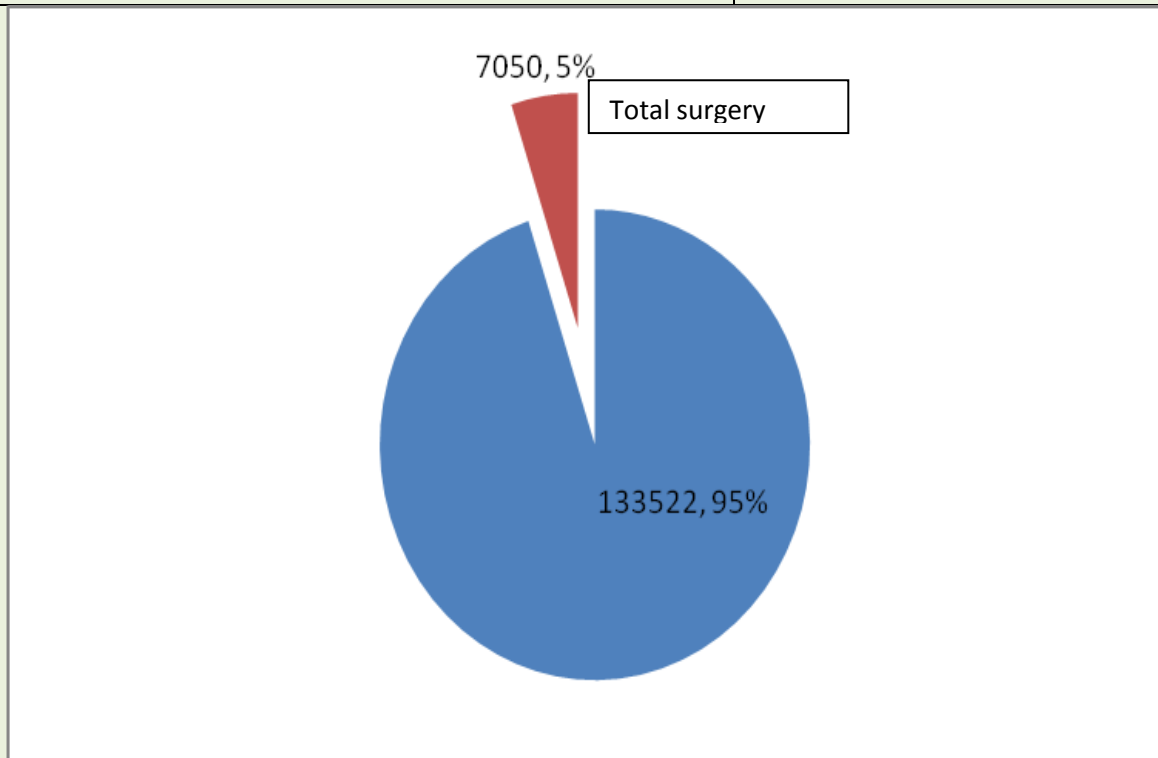
Bharatpur eye hospital along with its other networks has of a total of 78 dedicated human resources of different level contributing to the daily patient care and overall development of the hospital.

- ❖ Full time Ophthalmologist- 6
- ❖ Resident doctors – 2 (From Medical College)
- ❖ Optometrists-3
- ❖ Ophthalmic officer-1
- ❖ Ophthalmic Assistants-13
- ❖ Eye workers– 4
- ❖ Admin/Account—5
- ❖ Others– 44

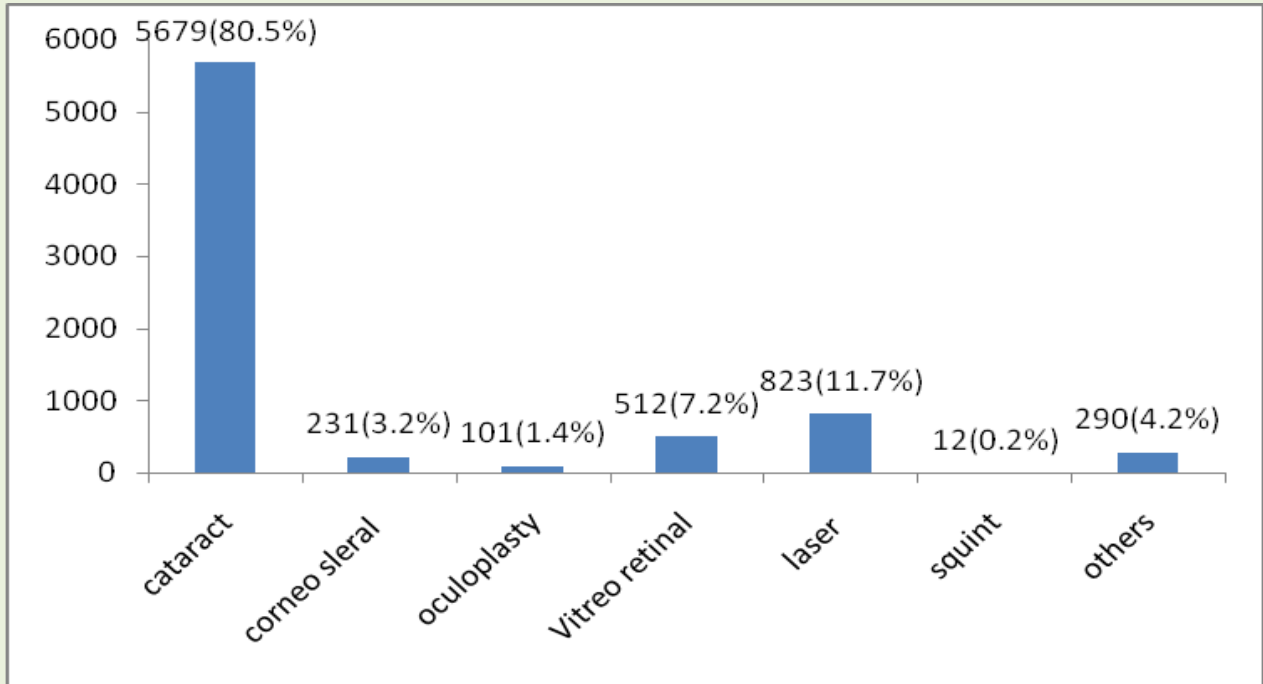
## Performance 2014-2015:

A total of 1, 33,522 patients received eye care services through Bharatpur Eye Hospital and its networks in the year 2014-15. Of the total patients 7,050(5.28%) underwent different kind of ocular surgeries including laser treatments. Majority of the patient (80.5%) underwent cataract surgery

S.N	Location/Site	Number	Patients Examined
1.	Bharatpur Eye Hospital(Base hospital)	1	1, 05,742(79.19%)
2.	Primary Eye Care Centres	5	10,027(7.50%)
3.	Cataract screening camps	48	11,301(8.46%)
4.	Surgical eye camps	23	6,452(4.83%)
<b>Total patient</b>			<b>1,33,522</b>







<b>Cataract:</b>	<b>- 5679</b>
➤ Suture less ECCE/IOL (SICS): 5081	
➤ Sutured ECCE/IOL: 9	
➤ On children: 12	
➤ Phaco ECCE/IOL: 577	
<b>Corneo-Scleral Surgical Procedures:-</b>	<b>-231</b>
➤ Corneo Scleral Repair: 30	
➤ Other Corneal Procedures: 10	
➤ Pterygium: 191	
<b>Vitreo-Retinal Surgery:</b>	<b>- 512</b>
➤ Vitrectomy: 233	
➤ Scleral Buckling: 86	
➤ Intra Vitreal Injections: 193	
<b>Oculoplasty Procedures:</b>	<b>-101</b>
➤ Dacryocystorhinostomy: -18	
➤ Dacryocystectomy:- 10	
➤ Entropion / Ectropion: - 63	
➤ Evisceration / Enucleation:-10	
➤ Other oculoplasty procedures:	
<b>Laser procedures:</b>	<b>- 823</b>
➤ Retinal Laser: 584	
➤ Nd. YAG capsulotomy:239	
<b>Squint:</b>	<b>-12</b>
<b>Others:</b>	<b>-290</b>
<b>TOTAL:</b>	<b>7050</b>

## Bharatpur Eye Hospital in 28 years (1986/87-2014-15)

There has been a great achievement in the service delivery since the establishment of Bharatpur Eye Hospital. In the starting year(1986-87) only 7000 patients visited the hospital now coming to 2014-15 it has provided service to 1,33,522 patients with 5,679 surgeries.

Year	Number of Out patient	Number of In patient
1986/87	7000	150
1987/89	16000	380
1989/90	16500	420
1990/01	22000	580
1991/92	21000	440
1992/93	21020	501
1993/94	19000	405
1994/95	21300	590
1995/96	23321	1080
1996/97	29000	1280
1997/98	28502	1100
1998/99	29596	1080
1999/2000	30119	600
2000/01	29214	640
2001/02	34662	853
2002/03	19295	504
2003/04	40031	2003
2004/05	41020	2296
2005/06	41310	2124
2006/07	42326	2507
2007/08	51677	2445
2008/09	51753	3883
2009/10	60100	4703
2010/11	69363	5210
2011/12	80700	6167
2012/13	1,24,033	5493
2013/14	1,26,500	7065
2014/15	1,33,522	5679

## Services available at Bharatpur Eye Hospital

### Paediatric ophthalmology Service:

The paediatric ophthalmology service has been upgraded in recent years with the provision of separate department well equipped with all the necessary instruments and treatment facilities. Ophthalmologists and Optometrists work together to provide quality service to the patients. In 2014-2015 a total of 18,180 children were provided out patient service of which only 12 children underwent cataract surgery. The number of pediatric surgeries is in increasing trend with the introduction of general anaesthesia facility in the hospital.



### Cornea Service:

Providing cornea service as a separate department has not yet been fully functioning because recently we do not have ophthalmologist who has done special training in cornea. A total of 211 patients with corneal ulcer received their treatment in 2014-2015. The cornea service will be soon functioning as separate department with cornea specialist after receiving training.

### Vitreo-Retinal Service:

It is well established service headed by senior consultant Vitreo- Retinal surgeon. Almost all necessary equipments like OCT, USG, Fundus Photography, FFA, Green Laser are available which add in diagnosing and treatment of retinal problems. It has also been established as training centre where currently two ophthalmologists are doing their fellowship in retina. In 2014-2015 retina department provided service to a total of 1,701 out patients of which 512 underwent various retinal surgeries including Vitreal injection. Patient not only from Chitwan and

neighbouring districts but also from neighbouring country like India are provided retinal service in the hospital. In this year, 6 diabetic retinopathy camps were conducted, where 1,800 patients with diabetes mellitus were screened and 112 patients referred to base hospital for treatment.

### **Glaucoma service:**

A total of 296 patients were diagnosed with glaucoma and provided appropriate treatment in 2014-2015. We have instruments like Goldman perimetry, Frequency Doubling Test(FDT), Optic Disc Photography and OCT which helped in diagnosing and treatment of glaucoma patient.

### **Oculoplasty Service:**

In the oculoplasty department 101 surgeries were performed in this year which includes lid construction surgeries, DCR/DCT and other surgeries.

### **Low Vision Service:**

In the low vision department 44 patients with low vision were assessed. Special low vision device were offered to 36 patients. With the increase in the number of retina patients the need of low vision care is increasing and near future we will have a well equipped low vision clinic with optometrist trained in low vision.

### **Tele-ophthalmology Service:**

Bharatpur Eye Hospital started telemedicine service with aim to provide door to door appropriate eye care treatment service to the patients. Through this facilities base hospital are connected to ECCs and Ophthalmic Assistants at ECC can communicate with ophthalmologist at base hospital to confirm diagnosis so as to provide appropriate treatment to patients.

### **Lab Service:**

Bharatpur Eye Hospital has a well equipped and facilitated laboratory services for patient undergoing ocular surgeries since 2012. Almost majority of all required laboratory investigations including culture are performed in the lab.

## Outreach activities:

Bharatpur Eye Hospital has provided service not only to patient who come to the hospital but also to patient in remote areas who do not have easy access to the hospital through various outreach activities. In addition to the conduction of DST camps, Cataract surgical camps, Diabetic retinopathy camp and School Screening program throughout the year, BEH has also been involved in awareness campaigns through training to FCHVs, drug retailers, school teachers and women groups with the aim of reducing preventable blindness in the community.

Category of Outreach activities	Number of activities	No of Patient Examined
Screening camp	48	11,301
Diabetic Retinopathy Camp	6	1,800
School Screening	60	21,555
Surgical Eye Camp	23	6,452



## Eye Health Education:

In the year 2014 eye health Education department provide training to 189 Female Community health volunteer ,100 school teacher,50Drug Retailer and 111 Women Group.



## Research program:

Bharatpur Eye Hospital with the technical support from UCSF F.I. Proctor Foundation through SEVA has started a three year long research program on Ocular trauma since January 2014. The research named as “Village Integrated Eye Workers Trial” (**VIEW**) is launched at 24 VDCs of Chitwan and Nawalparasi district.

## Human Resource Development & Training:

### Certificate in Ophthalmic Science course-

Ophthalmic Assistants are considered as the back bone of the eye care services in Nepal. To fulfil the required need of Ophthalmic Assistant for the expansion and development of eye care services in the nation, certificate in ophthalmic science course was started in collaboration with School of Health Science, CTEVT and Bharatpur Eye Hospital. Currently 120 students are enrolled in this course in three batches.

## Vitreo-Retinal Fellowship-

Two Ophthalmologists, one from Bharatpur Eye Hospital other from Lumbini Eye Institute are enrolled in this training.

## Other Trainings-

Hospital has been providing training to students like health assistants, staff nurses, bachelor in nursing, and BSC nursing as well as undergraduate medical students from different medical colleges and health institutions for general eye care as part of their curriculum.

## Training to hospital staffs and participation in workshop and conferences-

Various trainings are being provided to different levels of human resource in the hospital for the capacity building and career development as following

	Name of Employee	Designation	Training/Workshop	Place	Date
1	Dr Kamal Bdr Khadga	Medical Director	APAO	Japan	Chaitra 23-26, 2070
2	Sakrasan Darai	Optical Technician	Optical Training	Chitrakut , India	Jestha 18- Shrawan 15, 2071
3	Dr Sangita Pradhan	Fellow in Retina	SICS	Biratnagar	Jestha 11-25 2071
4	Chij kumar Maskey	Chairman,	NNJS Regional Meeting	Birjung ( Kedia E H)	3rd Shrawan 2071
	Dr. Kamal Khadka	Medical Direrector,	NNJS Regional Meeting	Birjung ( Kedia E H)	3rd Shrawan 2071
	Tulsi Prasad Parajuli	Manager	NNJS Regional Meeting	Birjung ( Kedia E H)	3rd Shrawan 2071
5	Mr Chij K Maskey	Chairman	APM	Dhankuta	Ashad 22-24, 2071
	Tulsi Pd. Parajuli	Hospital Administrator	APM	Dhankuta	Ashad 22-24, 2071
6	Dr Rajneet Saha	Ophthalmogist	Sics Training	Gaur	Shrawan 4-30,2071
7	Mr. Chej kumar Maskey	Chairman,	NNJS Regional Meeting	Bharatpur Garden Resort	Bhadra 19-21, 2071
	Dr. Kamal Bdr. Khadka	Direrector,	NNJS Regional Meeting	Bharatpur Garden Resort	Bhadra 19-21, 2071
	Mr. Tulsi Prasad Parajuli	Manager	NNJS Regional Meeting	Bharatpur Garden Resort	Bhadra 19-21, 2071
8	Gopal Bhandari	Optometrist	36th All India	Agara	Bhadra 21-25, 2071

			Optometry Conference		
9	Chij Kumar Maskey	Chairman	Apex body Meeting	KTM	3rd Mnsir 2071
10	Dr Puspa Giri	Ophthalmogist	SICS	Birjung ( Kedia E H)	Mansir 7-Magh 30, 2071
11	Arjun Ghimire Uttam Shresth	Store/Recorder	IHMS	KTM	Mansir 10-13, 2071
12	Dr R Byanju	C Medical Director	Casey Eye Institute	USA	Mansir 15-29, 2071
13	Optometrists	Optometrist	Refraction Training By International Paramedic Mike/Pam	Bharatpur	Paush 20-25, 2071
14	Ramesh Ghimire	OAS, Outreach coordinator	Diploma in Community Eye Health	LV Prasad Eye Inistitue India	Paush 14, 2071,-15 Ashad 2072
15	Gopal Sapkota	Record Keeper	Medical Record Reporting Training	Madhurai	Magh 4-19 , 2071
16	Dr Sangita Pradhan/ Dr Puspa Giri	Ophthalmologist	Selhi Ophthalmic Society Confrence	Delhi	Chaitra 26-30, 2071
17	Dr Ranjeet Shah	Ophthalmologist	Phaco Training	Madhurai	Jestha 15-32,2072
18	Cheej Kumar Maskey/Dr R Byanju/,Dr Ranjeet Shah/Prafulla Sharma/Ramesh Ghimire/Juna Gauli/Sapana Pradhan		Vision Building Workshop and Strategic Planning Workshop	Madhurai	Falgun 9-16, 2072
19	Dr Maria Gautam	Senior Ophthalmologist	APPAO	China	Chaitra 16-21.2072
20	Binod Pandey	Orthoptics	Eexcel	Madhurai	Shravan 1-7,2072
21	Dr R Byanju	Chief Medical Director	APVRS	Australia	Shravan 15-30,2072
22	Srijan Parajuli	Electrician	Instrument Maintenance Training	Madhurai	Ashoj14- Kartik 14,2072
23	Dhan Kumari Thapa	Nurse	OT Technique	Madhurai	Ashoj 14 – Mangsir 14,2072
24	Sarita Dahal	Counselor	Counseling	Madhurai	Ashoj 14-28, 2072
25	Arjun Ghimire	StoreKeeper	Store Management	Madhurai	Ashoj 14- 20 Ashoj 2072



## Extra activities:

- Advance Refraction training to eye care professionals
- Refresher training to field workers
- Journalist training on eye care awareness
- Awareness rally in NNJS day celebration
- World sight day celebration
- World diabetic day celebration
- Eye check up program to government officers of Chitwan district
- Plantation program together with the Lions club in the hospital premises.
- Earthquake relief fund distribution in Dhading and Gorkha district



## **Supporting organizations:**

- Seva Foundation, USA
- Seva Canada Society, Canada
- Aravind Eye Care Systems
- Pakistan Embassy
- Lions Club International, Sight First
- Local Lions Club
- Green Society Nepal
- Local donors

**Nepal Netra Jyoti Sangh**  
**Hira Lal Santu Devi Pradhan Eye Institute**  
**(proposed)**  
**Bharatpur Eye Hospital**  
**Bhatapur-10, Chitwan**  
**Ph 056-520333, 523333**  
**[beh@nec.com.np](mailto:beh@nec.com.np)**

