**NATIONAL PROGRAMME FOR CONTROL OF BLINDNESS & VISUAL IMPAIRMENT PIP For the year 2021-2022**

**EXECUTIVE SUMMARY:**

**Background: - National Programme for Control of Blindness was launched by the Ministry of Health & FW, Govt. of India in 1976. India was the first country in the world to have launched a national level blindness control programme. As India realized that cataract was the major cause of blindness in the country and that surgical facilities were not accessible to most people in the rural areas, the programme was initiated. From the very inception the programme is being implemented as a 100% centrally sponsored programme. It was included in the Prime Minister’s 20- point socio economic programme in 1982.**

Blindness is a major public health problem in India with an estimated 12 million blind persons in the country. The goal is to reduce the prevalence of blindness from 1.4% (1974) to 0.3% by the year 2020 by developing eye care infrastructure human resources, improving accessibility quality of eye care services. Rapid survey on avoidable blindness conducted under NPCB during 2006-2007 showed reduction in the prevalence of blindness from 1.1% (2001-02) to 1% (2006-07).

Mizoram State Blindness Control Programme was established in the year 2001 -2002.

The primary purpose of the State Health Society (NPCB&VI) under the NHM is to plan, implement and monitor blindness control activities in all the districts of the state as per the pattern of assistance approved for National Programme for Control of Blindness and visual impairment by the Ministry of Health & Family Welfare.

Functions:

1. To coordinate and monitor with all the District Health Society.

2. To conduct regular review meeting with districts in coordination with centre.

3. To procure equipment and drugs this required in GOI facilities.

4. To receive and monitor use of funds equipments and material from the Government and other agencies.

5. To involve voluntary organization and Private Practitioners providing free/subsidized eye care services in district and identify NGO facilities that can be considered for Non recurring grants under NPCB

6. To promote eye donation through various media and monitor the districts for collection and utilization of eye collected by eye donation centers and eye banks and directly identify NGO facilities that can be considered for grants under NPCB &VI

**FACILITIES**

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **Facilities** | **Numbers** |
| 1. | Dedicated eye wards and OTs | 7 |
| 2. | Vision Centres by Govt. | 27 |
| 3. | Multipurpose Mobile Opth. Units | 7 |
| 4. | Eye Bank | 1 |
| 5. | Eye Donation Centre | 2 |
| 6. | NGO with Cat-Op.facility | 2 |
| 7. | Private Hospital with Cat-op. facility | 1 |
| 8. | PMOA training Centre | 1 |
| 9. | State Referral Hospital/ ZMC | 1 |

**MANPOWER**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.No.** | **Manpower** | **Regular** | **Contractual** |
| 1. | Operating Eye Surgeons | 14 |  |
| 2. | Ophthalmic Assistants | 19 | 30 |
| 3. | Ophthalmic Nurses | - | 2\* |
| 4. | Data Entry Operators | - | 10 |
| 5. | Eye Donation counselors | 1 | 2 |

**\*** Two staff Nurses who are working as OT Nurses have been trained specially for ophthalmic purposes and are working at Eye Bank & Eye OT since 2013 and their salaries are paid under the head of Recurring GIA to Eye Bank. These two nurses also assists Eye Surgeon in all free cataract camp organize in different districts when eye camps were held.

**GRANT IN AID**

**TOTAL *= `127.39 lakhs.(Rupees One crore Twenty Seven Lakhs and Thirty Nine Thousand)only***

**BUDGET**&

MFP = ***` 20.00 Lakhs (Rupees Twenty lakhs)only***

**2 Service Delivery**

**2.1 Mobile Unit**

**2.1.3 Other Mobile Units Service Delivery - Community Base**

**2.1.3.2 Grand in aid for Mobile Ophthalmic Units (NPCB&VI)**

The objectives of the scheme are:

1. To operationalize Multipurpose District Mobile ophthalmic Units in district hospitals for improved access to eye care services

2. To further expand eye care coverage.

3. To make eye care services available in remote and underprivileged areas of the country.

4. To organize Eye Camps in different districts.

Mobile ophthalmic units may be strengthened with GIA to increase coverage of Eye care services in the remote areas where neither Eye surgeons nor ophthalmic assistants were posted. The mobile ophthalmic unit can also transport cataract patients to and from the base hospital while organizing Free cataract camp. The ophthalmic assistants also hold free eye screening camp for refractive error in the schools and for presbyopia among the old age people above the age of 45yrs.

Non recurring assistance upto Rs. 5lakh towards development of Multipurpose District Mobile Ophthalmic Units in different districts viz 1) Lunglei DBCS 2) Serchhip DBCS

|  |  |
| --- | --- |
| **Components** | **Amount (Rs.in lakh)** |
| Cost of POL, insurance and maintenance of vehicle and other contingency expenditure including salary of driver and helper in 2 [districts.@`5.00](mailto:districts.@%605.00) lakh each | `5 lakhs X 2 =`10 lakhs |
| ***Total*** | ***`10 lakhs*** |

**2.3 Outreach activities**

**2.3.2 Outreach activities for controlling DCPs & NCDs**

**2.3.2.4 Recurring grant for collection of Eye balls by eye banks and eye donation centres.**

The objective of this scheme is to promote Eye banking activity in the country through Government facilities, NGOs and other stake holders to get adequate tissue for corneal transplantation for treatment of corneal blindness. Financial assistance will be provided Rs. 2000/- per pair of eyes towards honorarium of Eye bank staff, consumables including preservation material & media, transportation / POL and contingencies. For Eye Donation Centre, Rs. 1000/- per pair of eyes collected towards honorarium of eye donation centre staff, consumables including preservation material & media, transportation/ travel cost / POL and contingencies. (Eye Bank will reimburse the Eye Donation Centre for eye collected by them @ Rs. 1000/- per pair.

***2021-2022– 120 pair X `. 2000/- = `.2,40,000/-***

**2.3.3**  **Outreach activities at school level**

**2.3.3.2** **Screening and Free Spectacles to School Children @ `. 350/- per case.**

These activities included organization of screening camps at school or visits for school eye screening programme, monitoring and supervisory visits and other eye care activities. In India, the major cause of blindness in children is due to Eye infections, Vitamin A deficiency, malnutrition, ocular injury, congenital cataract, ROP, refractive errors etc. Nearly 75 to 80% of childhood blindness is avoidable which could either be treated or prevented by known cost effective means. Treatment of eye ailments is to preserve vision or to restore sight in order to save sights of future generations of the country and also to save their productive age.

It is needed to focus the attention of the people on prevention and control of eye ailments for blindness control and visual impairment among the children.

Due to Covid pandemic, all Schools were closed since March 2020 to till November. So, it is difficult to take up the activities. Hence the achievement rate is very low as compared to previous years. SES Achievement for the year 2020-2021 are as follows:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.no | Indicators | **2020-2021 target** | Qtr.1 | Qtr.11 | Qtr.111  (October) | Qtr.1V | Total |
| 1. | Children Screened | 65000 | 0 | 71 | 0 |  | 71 |
| 2. | Children detected with Refractive errors | 5000 | 0 | 33 | 0 |  | 33 |
| 3. | Free Spectacles for  School children | 2500 | 0 | 0 | 30 |  | 30 |
| 4. | Distribution of spectacles to old person | 2500 | 0 | 105 | 45 |  | 150 |

***2021-2022 – 2500 nos X `. 350/- = `. 8,75,000/-***

2.3.3.3 **Screening and free spectacles for near work to old person (new component) @ `. 350/- per case.**

In order to extend the area of coverage of eye care services, it has been approved to distribute free spectacles for near work to old persons suffering from presbyopia under NPCB as new initiative during the 12th Five year plan.

The objectives of the scheme are A) to further extend eye care services to elderly people. B) To take care of elderly people in weaker section of the society.

Elderly people of the age 45 years above and suffering from presbyopia are eligible for free spectacles on the prescription of Government Eye Specialist. Preference will be given to the persons below poverty line. The amount of assistance is upto Rs. 350/- per presbyopic spectacles, but the old person who needs bifocal glass needs more than Rs 350 and they had to pay extra money from their pocket even though many of them are satisfied with single vision glass when prescribed.

***2021 – 2022 – 2000 nos X `.350/- = `. 7,00,000/-***

**6.1.1.19 Procurement of Bio-medical Equipment: NPCB**

**6.1.1.19. 1 Grant in aid for District Hospitals**

Non-recurring assistance for strengthening/ expansion of Eye Care units at Lawngtlai District Hospital @Rs.20 lakhs for purchase of Ophthalmic equipments i,e IOL surgery, SICS, Phaco emulsification, Glaucoma management etc, and audio visual aids, IOL, sutures etc. has been proposed and the list of items which will be procured as below.

|  |  |
| --- | --- |
| 1. Operating Microscope (Basic) | 2. A-scan Biometer |
| 3. Keratometer | 4. Slit Lamp, Refraction Units |
| 5. Auto Refractometer | 6. Flash Autoclave |
| 7. Streak Retinoscope | 8. Tonometers |
| 9. Direct Ophthalmoscope | 10. Nd-Yag Laser |
| 11. Applanation Tonometer | 12. IOLs |

***2021 – 2022 – 1 X `.20,00,000/- = `. 20,00,000/-***

**6.1.1.19.3 Grant in aid for Vision Centre (PHC) (Govt + NGO)**

A vision Center is a permanent eye care facility in the community which acts as the first point of interface of the population with comprehensive eye care services provided by an exclusive skilled eye care worker.

The scheme seeks to enhance capacity to provide free and subsidized Eye Care Services for underserved affected population in rural areas. The purpose of the scheme is to encourage voluntary organizations to expand or upgrade eye care services for providing quality Eye Care services to the effected persons. The outreach of the NPCB largely depends on the successful running of Vision centre in rural areas. It is the key point where people with visual problem seek advice. PMOA working in Vision Centre is the key person to provide information and necessary preliminary services. There are Ophthalmic assistants posted in the following vision centres. The Vision centre provide free services to the poor patients and children with refractive errors. Existing VCs and / PHCs should be strengthened along with setting up of new vision centre, which have not received Grant in aid for vision centers.

|  |  |
| --- | --- |
| Proposed fund for existing VCs :  1)Thingsulthliah PHC (Aizawl E)  2) Ngopa PHC (Champhai)  3) Vairengte PHC (Kolasib)  4) Hnahthial CHC (Lunglei)  5) Kawrthah PHC (Mamit)  5 **VCs X `. 1,00,000 = `. 5 lakhs.** | List of Equipment that can be procured from this scheme :  1. Trial Set  2. Trial Frame (Adult & Child)  3. vision testing Drum  4. Plane Mirror for Retinoscopy  5. Streak Retinoscope  6. Snellens Charts  7. Binomag/ magnifying Loupe  8. Schiotz Tonometer  9. Torch with batteries  10. Lis Speculum  11. Epilation Forceps  12. Foreign Body Spud and Needle  13. Direct ophthalmoscope  14. Slit lamp  15. Vision Charts for Preverbal Children. |

.

**6.1.1.19.4 Grant in aid for Eye Bank @ `8.00 lakhs**

The objective of this scheme is to promote Eye banking activity in the country through Governemnt facilities, NGOs and other stake holders to get adequate tissue for corneal transplantation for treatment of corneal blindness. Under the scheme, financial assistance will be provided up to a maximum of Rs. 40 lakhs for purchase of equipment, furniture and fixtures for strengthening the existing facilities of the Eye bank. Eye Bank, Mizoram is situated at District Hospital, Aizawl. Due to financial constrain, financial Assistance for Eye Bank may be reduced to 8.00 lakhs for the FY 2021-2022

Eye Bank in Mizoram is located at Civil Hospital, aizawl. Grant in aid for this eye bank is practically needed to run the eye bank more effectively & efficiently.

The Surplus Cornea collected which have not been used in the District Hospital, Aizawl are supplied to the Sri Sankaradeva Nethralaya Hospital, Guwahati as such cornea may be supplied to other Hospitals also if the Central NPCB make an arrangement for the transportation of cornea from Aizawl to the concerned hospital anywhere in India.

**PERFORMANCE ON EYE DONATION**

|  |  |  |  |
| --- | --- | --- | --- |
| **Year** | **Target** | **Eye ball collect** | **Keratoplasty** |
| 2012-2013 | 30 | 48 | 9 |
| 2013-2014 | 80 | 116 | 11 |
| 2014-2015 | 80 | 93 | 6 |
| 2015-2016 | 80 | 139 | 72 |
| 2016 – 2017 | 150 | 102 | 50 |
| 2017 – 2018 | 150 | 80 | 53 |
| 2018- 2019 | 100 | 105 | 30 |
| 2019 – 2020 | 100 | 77 | 21 |
| 2020- 2021 | 150 | 0 | 0 |

List of equipments to be procured for strengthening the existing facilities of Eye Bank.

|  |
| --- |
| **List of Requirements** |
| 1. Serology Equipments\* |
| 2.Instruments for Corneal excision and enucleating including containers |
| 3.Telephone Bills, mobile and Broadband bills |
| 4.Renovation, repair Furniture & Fixtures |
| 5. Manpower like Ophthalmic Nurses and Drivers may be outsourced. |

\* Eye bank does not have separate Serological Laboratory but they share laboratory of Aizawl Civil Hospital, Eye Bank has required some small equipments and reagents in times when it needs arise.

**6.1.1.19.5** **Grant in aid For Eye Donation Centre (New):` 2Lakhs**

Eye Donation Centre: For the purpose of the above scheme, an Eye Donation Centre will mean an organization that is: i) Is affiliated to a registered Eye Bank ii) Harvest corneal tissue and collect blood for serology; iii) Ensure safe transportation of tissue to the parent eye bank iv) Provide a round the clock public response system for eye donation; v) Coordinate with donor families and hospitals to motivate eye donation; vi) Conduct Public and professional awareness on eye donation be provided; The proposed centres are 1) Eye Care Hospital & Synod Hospital, Durtlang under Aizawl East dsitrict.

List of Equipment/ furnishings for an Eye Bank Eye /Donation Centre:

|  |  |
| --- | --- |
| 1 | Refrigerator |
| 2 | Enucleation set |
| 3 | Container for corneal sets |
| 4 | Corneal sets |
| 5 | Autoclave Available |
| 6 | Device and or material for Health Education activities |

2 Centres X `1.00 lakhs = `2.00 lakhs

**9.5.15 Trainings under NPCB @ ` 4.74 lakhs**

**9.5.15.1 Training of PMOA under NPCB& VI**

This is projected for a refresher training and short term training programme for PMOAs conducted by Institute of Sri Sankaradeva Nethralaya for 1 month & 2 months. The PMOAs found the training to be useful and it was seen that areas like patient counseling, instrument and equipment maintenance and assistance in the operation theatre for newer surgical procedures which were lacking in the basic training were fulfilled in this training programme so that theu could utlised more efficiently in the blindness control activities.

Objectives of the Training:

1. To understand the roles and utility of PMOAs in eye care delivery activities.
2. To redefine the roles and responsibilities of PMOAs after orientation to suit the needs of the state.
3. To update the skills with hands on training in areas like refraction, clinical diagnosis, preoperative and postoperative patient care and recognition of postoperative complications.
4. To improve the ability to organize better outreach programmes.
5. To develop a self learning module with scope for periodic update
6. Adequate motivation and skills update.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Courses | Fees/ Expenditure | Period | Number(Propose Seat) | Budget |
| Short term training programme for PMOAs | **Rs. 47,400/-**  per participant (including course fee, food,accomadation, and travelling expenses also DA) | 1 month | 10 | Rs.4.74 lakh |

Note: TA/DA, food & Lodging rate are proposed as prepared by NHM Mizoram state guideline.

**15 PPP**

**15.6 PPP under NPCB**

**15.6.1 Re-imbursement for cataract operations for NGO and private practitioners as per NGO norms @ Rs. 2000/-**

One of the main objectives of the NPCB is to reduce the backlog of blindness through identification and treatment of blind, secure participation of voluntary organization/ Private Practitioners in various eye care activities. Under the scheme, financial assistance (recurring) will be provided a sum of Rs.2000/- (Rupees two thousand only) to the NGOs/ Private Practitioner.

Cataract Operations are performed at the State and District Hospitals, Sub-District Hospitals/CHCs, PHCs and at the Synod Hospital, Durtlang, Aizawl run by the Presbyterian Church, Eye Care Hospital and Caridad Society. It may be mentioned that the Synod Hospital, Caridad Society and ECH are identified as base hospital for Cataract Operation. Surgical (Cataract) Eye Camps were organized by District Blindness Control Programme whereas those Eye Surgeons working under Mizoram Govt. and NGO’s partners perform voluntarily at the surgical eye camps.

Physical Achievement of Cataract operation during 2020-2021 till 3rd quarter is as follows:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.no | Indicators | **2020-2021**  **target** | Qtr.1 | Qtr.11 | Qtr.111  (till Oct’20) | Qtr IV | Total |
| 1. | **Total performance** | 2500 | 74 | 334 | 268 |  | 676 |

***2021 – 2022 = 1500nos (Target) X `. 2,000/- = `. 30,00,000/-***

**15.6.2** **Other Eye Diseases**

**15.6.2.1 Diabetic Retinopathy @ Rs.2000/-**

**15.6.2.3 Glaucoma @ Rs. 2000/-**

**15.6.2.4 Keratoplasty @ Rs.7500/-**

To make the eye care comprehensive, besides cataract surgery, provision of assistance to the NGO’s have been made for other eye diseases like Diabetic Retinopathy, Glaucoma management, Laser techniques, Corneal Transplantation, Vitreoretinal Surgery, treatment of Childhood Blindness etc. For other eye diseases patients, cost to the patient is totally free of cost to the beneficiaries.

**Achievement Report till October 2020.**

|  |  |  |
| --- | --- | --- |
| Sl.no | Indicators | Achievement till October 2020 |
| 1. | Glaucoma | 249 |
| 2. | Diabetic Retinopathy | 75 |
| 3 | Keratoplasty | NIL |
| 4 | Other diseases | 20018 |

Analysing last year performance, the target of other eye diseases has been reduced so as to meet the required budget. Trachoma case is not found in Mizoram throughout the year and very few case of childhood blindness is found.

|  |  |  |  |
| --- | --- | --- | --- |
| Sl.no | Other eye Diseases | Target | Amount |
| 1. | **Diabetic Retinopathy @ Rs.2000/-** | 200 | `4,00,000.00 |
| 2. | **Glaucoma @ Rs. 2000/-** | 200 | `4,00,000.00 |
| 3. | **Keratoplasty @ Rs.7500/-** | 20 | `.1,50,000.00 |
|  | TOTAL |  | **`9,50,000.00** |

**16.1.5.3.10. Programme Management activities**

**Management of Health Society (State to provide details of PM Staff in the remarks column separately).**

**`20.00 lakhs per** annum for Programme Management unit staffs under DBCS & SPMU honorarium *i,e* Honorarium of DPMs, & Account clerk, organizing Annual Review Meeting,Quarterly Review Meeting, Monitoring & inspection, hiring of vehicle, POL, operating and maintenance of office equipments and contingencies. District Health Society Management cost is also included in this component. In addition procurement and maintenance of office equipment, renovation and furnishing, furniture, computers, office equipment (fax, phone, photocopier etc)

|  |  |  |
| --- | --- | --- |
| SPMU Requirement | 1 | Rs. 6.50 |
| 9 DBCS Requirement | 9 X Rs. 1.50 | Rs. 13.50 |

**Mission Flexible Pool**

**6.2 Procurement of Drugs and supplies**

**6.2.15.1 Assistance for consumables/drugs/medicines to the Govt./District Hospital for Cat operation etc.@ Rs.1000/- per case**

The NPCB is permitted to procure consumables including drugs, medicines and instruments required for ophthalmic surgery in Government facilities which are identified as base hospitals for eye care services. These may include District hospital where eye surgeons are posted and also where eye camp are conducted by District Health Society. A provision @ Rs.1000/- is projected for assistance for consumables/ drugs/ medicines to the Govt./ District Hospital for cat. Sx etc. per case. The propose list of drugs and consumables items submitted are required to conduct eye camps to achieve the target.

**`*1000/- X 1400nos =`14,00,000***

According to the cataract surgery per case, the following essential consumables items may be procured to District Hospital

|  |  |  |
| --- | --- | --- |
| Atropine (1%) | Moxifloxacin | Gatifloxacin |
| Neosporin (Plain) & H | Flurisone | Ofloxacin |
| Xylocaine | Proparacaine | Betnesol – N |
| Ciprofloxacin | Pilocarpine Nitrate 2% | Timolol 0.5%/ Latano prost Eye drops/ Alphagan |
| Homatropine 2% | Tropicamide 1% | Cyclomide 1% |
| Xylocaine | Hyalase(Hyaluronidase) | Gentamycin |
| Betamethasone/ Dexamethasone | Maracaine | Adrenaine |
| Ringer Lacate (540ml) from reputed firm | Trypan Blue | Bupivacaine |
| Formalin | Paracetamol | Gauze than |
| Dark Glass | Blades | Surgical Gauze |
| Double needle suture | Visco elastics | Betadine solution |
| Surgical spirit | Cotton wool | Rubber Gloves |
| Suture Mersilk | Disposable Syringe | IV set |
| Silk Suture | IOLs (PMMA) |  |

**11 IEC/BCC**

**11.18 IEC/BCC activities under NPCB**

**11.18.1 State level IEC @Rs.10 lakh for Minor State and Rs.20 lakh for Major States . Mizorm NPCB& VI @` 6.00 lakhs.**

The importance of IEC in Eye Care activities stems from the fact that most eye ailments are preventable or curable. IEC activities have to be carried on continuously so that there will be behavioral change with increase utilization of available services amongst the public. Message to the community are broadcasted through AIR and local News Paper, telecasted through Doordarshan Kendra and local cable TV Network in local language. Hoardings and colour leaflet/folders on various topics will be displayed and distributed.

Prevention of Blindness Week, Eye Donation Fortnight, World Glaucoma Week and World Sight Day will be observed in accordance with instructions and themes given by Govt. of India, Ministry of Health & Family Welfare.

In addition to this, Awareness campaign through Display Advertisement such as Banners, Posters etc.Citation/Certificate may be given to the Donor Family. Budget requirement for undertaking IEC activities are given below:

1. To organise Radio Talk during Eye Donation, World Sight Day etc.

Flash messages regarding Prevention of Blindness Week, Eye Donation Fortnight, World Glaucoma Week and World Sight Day etc. at Local Cable TV (Zonet & LPS), and Doordarshan.

3. Display of Banner during Prevention of Blindness Week, Eye Donation Fortnight, World Glaucoma Week and World Sight Day etc.

4. Awareness Campaign on importance of Eye Donation and Prevention of Blindness to students of Schools & Colleges.

5. To organize observation of world sight day, eye donation fortnight etc at DBCS & SPMU

|  |  |  |
| --- | --- | --- |
| 1 | Radio rate Rs. 225 per broadcast X 50 | Rs.11,250.00 |
| 2 | Newspaper @ Rs. 2500/- per display X 10 display | Rs.25,000.00 |
| 3 | Doordarshan Kendra @ Rs. 500 per display X 30 | Rs.15,000.00 |
| 4 | Cable TV rate Rs. 500 per display X 20 | Rs.10,000.00 |
| 5 | For observation of world sight day, eye donation fortnigh etc expenditure at 9 districts | Rs. 5,38,750.00 |
|  | **TOTAL** | **`6,00,000.00** |



(Dr.LALPARLIANI)

State Programme Officer (NPCB&VI)

National Health Mission

Mizoram, Aizawl.