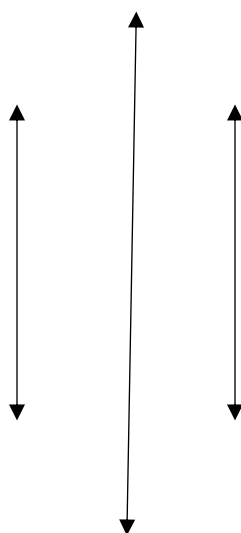


**Annual Report**  
**On**  
**Vaccine & Cold Chain Management**  
Fiscal Year 2081/82



Lumbini Province Government  
Ministry of Health  
**Province Health Logistic Management Center**  
Butwal, Rupandehi, Nepal  
2082

## Table of Contents

|  |    |
|--|----|
| Chapter 1: Introduction .....  | 6  |
| 1.1 Background .....   | 6  |
| 1.2 Provincial Vaccine Mapping .....   | 6  |
| 1.3 Routine Immunization Vaccine Details .....                                   | 7  |
| 1.4 Key Program Milestones & Status.....   | 8  |
| 1.5 Challenges to Service Delivery for Vaccination Program .....                 | 8  |
| 1.6 Key Activities on Cold Chain Management .....                                | 8  |
| 1.7 Vaccines Procurement Policy.....   | 9  |
| Chapter 2: Supply Status.....  | 10 |
| 2.1 District Wise Immunization Session Plan FY 2081/82 .....                     | 10 |
| 2.2 RI Vaccine Distribution Plan FY 2081/82.....                                 | 10 |
| 2.3 Vaccine Logistic Plan FY 2081/82 .....                                       | 12 |
| 2.4 RI Vaccine Received & Supply Status 2081/82 .....                            | 13 |
| 2.5 AD Syringes & Logistic Received & Supply Status 2081/82 .....                | 13 |
| 2.6 Routine Vaccine Wastage Rate 2081/82 .....                                   | 14 |
| 2.7 District Wise Wastage Rate of Routine Vaccine 2081/82 .....                  | 14 |
| 2.8 Allocated Vaccine with Sites for Anti-Rabies & Anti Snake Venom .....        | 15 |
| 2.9 ARV & ASV Vaccine Received and Supply Status .....                           | 17 |
| 2.10 District & ARV site wise ARV & ASV Vaccine Received and Supply Status ..... | 18 |
| 2.11 Vaccine Received for Complication of Sickle Cell Anaemia .....              | 20 |
| Chapter 3: HPV Vaccination Campaign.....   | 21 |
| Chapter 4: Covid-19 Vaccination.....   | 24 |
| Chapter 5: Logistics Supply .....  | 30 |
| 5.1 Remote Temperature Monitoring Device (RMTD).....                             | 30 |
| 5.2 Laptop & Dashboard Supply Detail .....                                       | 30 |
| Chapter 6: Vaccine Storage Capacity .....  | 32 |
| 6.1 Cold Chain Inventory and Vaccine Storage Capacity .....                      | 32 |
| 6.2 District level cold chain capacity .....                                     | 33 |
| 6.3 Palika level Vaccine Storage Capacity .....                                  | 34 |
| 6.4 List of Vaccine Distribution Center.....                                     | 34 |

|  |           |
|--|-----------|
| 6.5 Cold Chain Equipment Distribution Status (CCEOP) ..... | 35        |
| Chapter 7: Stock Management and Reporting Status .....     | 37        |
| 7.1 Distribution Plan for Immunization 2081/82 .....       | 37        |
| 7.2 Reporting Status of District.....                      | 38        |
| 7.3 Hafa & Dakhila Record.....                             | 39        |
| 7.4 Re-distribution of Vaccines .....                      | 41        |
| 7.5 Stock Out status of vaccines at Provincial store ..... | 41        |
| 7.6 Batch wise vaccine received record .....               | 41        |
| 7.7 Closing Balance of Vaccine & Logistics 2081/82.....    | 44        |
| 7.8 Immunization & Cold Chain Monitoring Visits.....       | 45        |
| 7.9 Cold Chain Staff Contact Detail.....                   | 48        |
| Annexes.....   | 49        |
| i. Monthly EPI Tracking Report.....                        | 49        |
| ii. Monthly Temperature Monitoring, Review and Report..... | 49        |
| iii. Yearly Temperature Review 2081/82.....                | 52        |
| iv. Physical Count Record .....                            | 52        |
| v. Stock Adjustment Record .....                           | 53        |
| vi. Vaccine Batch Card Practice .....                      | 53        |
| vii. Expiry Chart Practice .....                           | 54        |
| viii. Vaccine & Diluent Batch Management Practice.....     | 55        |
| ix. Generator Logbook Record.....                          | 56        |
| x. Repair & maintenance Record .....                       | 57        |
| xi. Contingency Plan for Vaccine Management .....          | 58        |
| <b>xii. Contact Details .....</b>                          | <b>60</b> |
| xiii. Plan Preventive Maintenance.....                     | 61        |
| xiv. VVM Poster.....                                       | 63        |
| xv. National Immunization Schedule.....                    | 64        |

## List of Tables

|  |    |
|--|----|
| Table 1: Routine Vaccine and Targeted Diseases.....  | 7  |
| Table 2: Vaccine Types and Forms.....  | 7  |
| Table 3: Procurement Policy.....   | 9  |
| Table 4: Immunization Session Plan.....  | 10 |
| Table 5: RI Vaccine Distribution Plan.....   | 11 |
| Table 6: Logistic Plan .....   | 12 |
| Table 7: Wastage Rate.....   | 14 |
| Table 8: ARV/ASV Sites and Allocated Vaccine .....   | 15 |
| Table 9: ARV/ASV Supply Status.....  | 17 |
| Table 10: Sitewise ARV/ASV Supply status.....  | 18 |
| Table 11: Vaccine Received for Complication of Sickle Cell Anemia .....                                | 20 |
| Table 12: HPV Campaign and Vaccine Supply Schedule.....  | 21 |
| Table 13: IEC Supply Detail for HPV Vaccination Campaign .....   | 22 |
| Table 14: HPV Vaccine and Logistic Supply Detail.....  | 22 |
| Table 15: HPV Vaccine Supply, Expenditure and Return Status.....                                       | 23 |
| Table 16: Covid Vaccine supplied to district in Fiscal Year 2077/78 .....                              | 24 |
| Table 17: Covid Vaccine supplied to district in Fiscal Year 2078/79 .....                              | 25 |
| Table 18: Covid Vaccine supplied to district in Fiscal Year 2079/80 .....                              | 26 |
| Table 19: Covid Vaccine supplied to district in Fiscal Year 2080/81 .....                              | 26 |
| Table 20: Covid Vaccine supplied to district in Fiscal Year 2081/82 .....                              | 27 |
| Table 21: Covid Vaccine supplied to district in Fiscal Year 2077/2083 .....                            | 28 |
| Table 22: Syringes & Card Received & Supply status Magh 2077 to Badra 2082 for Covid-19 Campaign ..... | 28 |
| Table 23: Remote Temperature Monitoring Device (RMTD) .....  | 30 |
| Table 24: Laptop & Dashboard Supply Detail.....  | 30 |
| Table 25: Provincial Vaccine Storage Capacity .....  | 32 |
| Table 26: Volume calculation for RI Vaccine .....  | 32 |
| Table 27: Volume calculation for Dry Storage.....  | 33 |
| Table 28: District Cold Chain Capacity .....   | 33 |

|  |    |
|--|----|
| Table 29: Palika level vaccine storage .....                               | 34 |
| Table 30: Vaccine Distribution Center .....                                | 34 |
| Table 31: Cold Chain Equipment Supplied at District Vaccine Store.....     | 35 |
| Table 32: Cold Chain Equipment Supplied at Palika level Vaccine Store..... | 35 |
| Table 33: Distribution Plan for Immunization Logistic 2081/82.....         | 37 |
| Table 34: Monthly Report received rate .....                               | 38 |
| Table 35: District Wise HAFA and Dakhila.....                              | 39 |
| Table 36: Stock Out status .....   | 41 |
| Table 37: Batch wise vaccine received status .....                         | 41 |
| Table 38: Closing Balance of Vaccine and Logistics.....                    | 44 |
| Table 39: Month wise Monitoring Visits .....                               | 45 |
| Table 40: HR Management .....  | 48 |

## List of Figures

|  |    |
|--|----|
| Figure 1:Vaccine Mapping.....  | 6  |
| Figure 2: Comparison of Vaccine Received with Supply .....                     | 13 |
| Figure 3: Comparison of Syringes Received with Supply.....                     | 13 |
| Figure 4: Comparison of Standard Wastage Rate with Actual Vaccine Wastage..... | 14 |

# Chapter 1: Introduction

## 1.1 Background

The Provincial Health Logistic Management Center (PHLMC) was established under the Ministry of Social Development of the Lumbini Provincial Government on the 13th of Chaitra, 2075 (FY 075/076). This center is responsible for the procurement, storage, and distribution of health supplies, vaccines, medical equipment, diagnostic kits, Ayurvedic medicines to hospitals/ healthcare facilities at the local level and repair of biomedical equipment's at hospitals/ healthcare facilities under the provincial government. The center establishes a network of medical stores at the federal, provincial, and district levels, as well as at the local level, and promotes evidence-based decision-making through the analysis of supply chain data and inventory management systems.

Nepal's **National Immunization Program (NIP)** is a high-priority (P1) public health initiative that provides essential vaccines for free to children and pregnant women. Originally launched as the Expanded Program on Immunization in **1977/78** (2034 BS), it has evolved from a small pilot into a nationwide system that recently achieved the historic milestone of declaring all 77 districts "fully immunized" for children under 23 month. The NIP currently protects against **13 diseases** using 11 different vaccines.

## 1.2 Provincial Vaccine Mapping

Below is an immunization map showing the schedule of vaccine supply from PHLMC to district vaccine store reflected with distance and time taken to reach the store. This map also shows district wise number of municipalities and immunization session planned to conduct in a month.

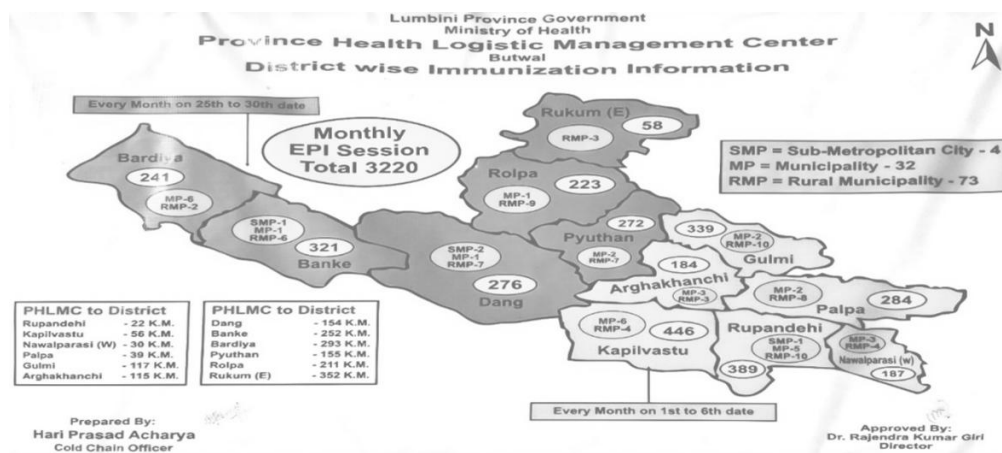


Figure 1: Vaccine Mapping

### 1.3 Routine Immunization Vaccine Details

Below table shows number of antigens in National Immunization Program with detail description such as number of doses in a vial, type, formation, sensitivity of vaccine, VVM status, MDVP policy applied and storage condition of the vaccine.

**Table 1: Routine Vaccine and Targeted Diseases**

| Vaccine               | Age of Administration            | Targeted Diseases                           |
|-----------------------|----------------------------------|---|
| BCG                   | At birth (1 dose)                | Tuberculosis                                |
| Rotavirus             | 6 & 10 weeks (2 doses)           | Rotavirus diarrhea                          |
| bOPV                  | 6, 10, & 14 weeks (3 doses)      | Polio                                       |
| fIPV                  | 14 weeks & 9 months (2 doses)    | Polio                                       |
| PCV                   | 6, 10 weeks & 9 months (3 doses) | Pneumococcal (Pneumonia, Meningitis)        |
| Pentavalent           | 6, 10, & 14 weeks (3 doses)      | Diphtheria, Pertussis, Tetanus, Hepatitis B |
| Measles-Rubella       | 9 & 15 months (2 doses)          | Measles and Rubella                         |
| Japanese Encephalitis | 12 months (1 dose)               | Japanese Encephalitis                       |
| Typhoid (TCV)         | 15 months (1 dose)               | Typhoid fever                               |
| Td                    | Pregnant women (2 doses)         | Tetanus and Diphtheria                      |

**Table 2: Vaccine Types and Forms**

| S.N. | Vaccine Name | Dose /Vial | Type        | Form   | VVM  | Use Upto | MDVP | Sensitivity | Storage   |
|------|--------------|------------|-------------|--------|------|----------|------|-------------|---|
| 1    | BCG Vaccine  | 20         | Live        | Powder | Top  | 6 Hrs    | No   | Heat        | All vaccines are stored and transported at 2 to 8 degree Centigrade temperature |
| 2    | Rota Vaccine | 1          | Live        | Liquid | Top  | -        | No   | Heat/Cold   |   |
| 3    | bOPV Vaccine | 10         | Live        | Liquid | Side | 3 Days   | Yes  | Heat        |   |
| 4    | fIPV Vaccine | 5          | Inactivated | Liquid | Top  | 6 Hrs    | No   | Cold        |   |
| 5    | PCV Vaccine  | 4          | Subunit     | Liquid | Side | 3 Days   | Yes  | Cold        |   |
| 6    | DPT-HepB-Hib | 10         | Inactivated | Liquid | Side | 3 Days   | Yes  | Cold        |   |
| 7    | MR Vaccine   | 10         | Live        | Powder | Top  | 6 Hrs    | No   | Heat        |   |
| 8    | JE Vaccine   | 5          | Live        | Powder | Top  | 6 Hrs    | No   | Heat        |   |

|    |             |    |             |        |      |        |     |      |  |
|----|-------------|----|-------------|--------|------|--------|-----|------|--|
| 9  | TCV Vaccine | 5  | Subunit     | Liquid | Side | 3 Days | Yes | Cold |  |
| 10 | Td Vaccine  | 10 | Toxoid      | Liquid | Side | 3 Days | Yes | Cold |  |
| 11 | HPV Vaccine | 1  | Inactivated | Liquid | Side | -      | No  | Cold |  |

*Note: Recent campaigns have expanded to include **HPV** for adolescent girls of class 6-10 (aged 10–14 years) to prevent cervical cancer. And included in national immunization program to vaccinate for girls of class six (aged 10) every year.*

## 1.4 Key Program Milestones & Status

- **Full Immunization Status:** In 2025, Nepal achieved 100% full immunization coverage across all districts for children under 24 months, a major feat given the country's challenging topography.
- **Disease Eradication:** Nepal has been officially **polio-free since 2010** and has successfully eliminated maternal and neonatal tetanus.
- **Rubella Elimination:** The country officially eliminated rubella in late 2025.
- **"Khoja e Khopa" Campaign:** This "Search and Vaccinate" initiative is a recurring door-to-door effort designed to identify and immunize children who have missed their scheduled doses.
- **Strategy:** The "Reaching Every Child" strategy focuses on reducing dropouts and identifying unreached children.

## 1.5 Challenges to Service Delivery for Vaccination Program

Despite recent successes, the program faces ongoing hurdles:

- **Geography:** Reaching remote Himalayan regions like Dolpa, Mugu, and Humla often requires multi-day treks by health workers.
- **Zero-Dose Children:** There is a persistent effort to reach "zero-dose" children in urban slums and marginalized communities who remain at high risk.
- **Cold Chain Logistics:** Maintaining the temperature-sensitive "cold chain" for vaccines in areas with limited infrastructure is a critical operational focus.

## 1.6 Key Activities on Cold Chain Management

- Regular supply of Routine Vaccines, ARV, ASV, Oxytocin & other supplementary vaccines, Syringes and other related logistics to 12 districts on monthly basis.

- Temperature monitoring of all equipment with RTMD & Fridge Tag device to ensure quality of vaccine and functionality of cold chain equipment at all levels of vaccine storage.
- Tracking of Vaccines and Syringes stock of Province and 12 districts on monthly basis and updated to Central Vaccine Store, Teku.
- Monitoring Cold Chain Equipment for Repair and Maintenance on time.
- Strengthening of Effective Vaccine Management (e.g., storage, temperature monitoring, stock management, vaccine and cold chain equipment and distribution plan).
- Monitoring of Cold Chain Sites of District and Palika level to enhance the capacity and onsite coaching for cold chain management.
- Facilitation of Cold Chain Training, Basic Immunization Training, eLMIS training at all level of supply chain management.
- Regular update of cold chain inventory of all levels of supply chain management.

## 1.7 Vaccines Procurement Policy

There are 11 vaccine vial in National Immunization program of Nepal and Nepal itself does not procure all vaccine there is financial support of GAVI. So, there is a description of vaccine procurement status where ratio of Nepal and GAVI is 20:80 as cofinancing and some for donation.

**Table 3: Procurement Policy**

| S.N. | Vaccine Name | Procurement Source                       |
|------|--------------|--|
| 1    | BCG          | Nepal Government                         |
| 2    | bOPV         |  |
| 3    | MR           |  |
| 4    | JE           |  |
| 5    | Td           |  |
| 6    | Rota         | GAVI and Nepal Government (Co-Financing) |
| 7    | DPT-HepB-Hib |  |
| 8    | PCV          |  |
| 9    | TCV          |  |
| 10   | HPV          |  |
| 11   | fIPV         | GAVI Donation                            |

## Chapter 2: Supply Status

### 2.1 District Wise Immunization Session Plan FY 2081/82

*Table 4: Immunization Session Plan*

| S.N.         | District         | Immunization Center | Immunization Session | Fixed Clinic | Outreach Clinic | Schedule           |
|--------------|------------------|---------------------|----------------------|--------------|-----------------|--------------------|
| 1            | Rukum Est        | 58                  | 58                   | 39           | 19              | 17-23              |
| 2            | Rolpa            | 220                 | 223                  | 71           | 149             | 5-10 & 15-20       |
| 3            | Pyuthan          | 269                 | 272                  | 65           | 204             | 2-6 & 9-13         |
| 4            | Gulmi            | 330                 | 339                  | 121          | 209             | 10-14 & 16-20      |
| 5            | Arghakhanchi     | 181                 | 184                  | 87           | 94              | 18-22              |
| 6            | Palpa            | 235                 | 284                  | 96           | 139             | 8-14 & 16-22       |
| 7            | Nawalparasi West | 176                 | 187                  | 71           | 105             | 5-10 & 15-20       |
| 8            | Rupandehi        | 325                 | 389                  | 129          | 196             | 10-14 & 19-23      |
| 9            | Kapilbastu       | 434                 | 446                  | 105          | 329             | 2-6, 10-14 & 17-21 |
| 10           | Dang             | 232                 | 276                  | 100          | 132             | 10-14 & 19-23      |
| 11           | Banke            | 293                 | 321                  | 116          | 177             | 2-9 & 19-26        |
| 12           | Bardiya          | 238                 | 241                  | 70           | 168             | 2-9 & 19-25        |
| <b>Total</b> |                  | <b>2991</b>         | <b>3220</b>          | <b>1070</b>  | <b>1921</b>     |                    |

### 2.2 RI Vaccine Distribution Plan FY 2081/82

This is a Vaccine Distribution Plan of province to create demand of vaccine from central store and for monthly supply of routine vaccines and other logistic (syringes, safety box, etc) to district. This is calculated based on administrative data (under 1 year, 12-23 month and expected pregnancy) and monthly immunization session planned by district.

**Table 5:RI Vaccine Distribution Plan**

| District Name       | Total Population | EPI Center   | Immunization Session | Yearly Target Population |              |                    | Vaccine Vials |               |              |                       |              |              |              |              |              |              |
|---------------------|------------------|--------------|----------------------|--------------------------|--------------|--------------------|---------------|---------------|--------------|-----------------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                     |                  |              |                      | 0- 11 month              | 12-23 Month  | Expected Pregnancy | BCG 20 Dose   | Rota 1 Dose   | bOPV 10 Dose | DPT+Hep-B+Hib 10 Dose | JE 5 Dose    | FIPV 5 Dose  | PCV 4 Dose   | MR 10 Dose   | TCV 5 Dose   | Td 10 Dose   |
| Rukum East          | 57366            | 696          | 696                  | 967                      | 950          | 1182               | 696           | 2031          | 342          | 342                   | 696          | 696          | 805          | 696          | 211          | 279          |
| Rolpa               | 235297           | 2640         | 2676                 | 3995                     | 3882         | 5024               | 2676          | 8390          | 1414         | 1414                  | 2676         | 2676         | 3326         | 2676         | 862          | 1186         |
| Pyuthan             | 230334           | 3228         | 3264                 | 3911                     | 3792         | 5093               | 3264          | 8213          | 1384         | 1384                  | 3264         | 3264         | 3256         | 3264         | 842          | 1202         |
| Gulmi               | 235489           | 3960         | 4068                 | 3987                     | 3893         | 5136               | 4068          | 8373          | 1411         | 1411                  | 4068         | 4068         | 3319         | 4068         | 864          | 1212         |
| Arghakhanchi        | 169879           | 2172         | 2208                 | 2879                     | 2804         | 3706               | 2208          | 6046          | 1019         | 1019                  | 2208         | 2208         | 2397         | 2208         | 622          | 875          |
| Palpa               | 236164           | 2820         | 3408                 | 4005                     | 3899         | 5127               | 3408          | 8411          | 1418         | 1418                  | 3408         | 3408         | 3334         | 3408         | 866          | 1210         |
| Nawalparasi W       | 398853           | 2112         | 2244                 | 6790                     | 6552         | 8243               | 2244          | 14259         | 2404         | 2404                  | 2244         | 2244         | 5653         | 2244         | 1455         | 1945         |
| Rupandehi           | 1186006          | 3900         | 4668                 | 20222                    | 19446        | 24254              | 4668          | 42466         | 7159         | 7159                  | 4668         | 4668         | 16835        | 4668         | 4317         | 5724         |
| Kapilvastu          | 708740           | 5208         | 5352                 | 12084                    | 11620        | 14477              | 5352          | 25376         | 4278         | 4278                  | 5352         | 5352         | 10060        | 5352         | 2580         | 3416         |
| Dang                | 705877           | 2784         | 3312                 | 12040                    | 11572        | 14876              | 3312          | 25284         | 4262         | 4262                  | 3312         | 3312         | 10023        | 3312         | 2569         | 3511         |
| Banke               | 630241           | 3516         | 3852                 | 10751                    | 10332        | 12878              | 3852          | 22577         | 3806         | 3806                  | 3852         | 3852         | 8950         | 3852         | 2294         | 3039         |
| Bardiya             | 464679           | 2856         | 2892                 | 7913                     | 7634         | 9849               | 2892          | 16617         | 2801         | 2801                  | 2892         | 2892         | 6588         | 2892         | 1695         | 2324         |
| <b>Total Yearly</b> | <b>5258925</b>   | <b>35892</b> | <b>38640</b>         | <b>89544</b>             | <b>86376</b> | <b>109844</b>      | <b>38640</b>  | <b>188042</b> | <b>31699</b> | <b>31699</b>          | <b>38640</b> | <b>38640</b> | <b>74545</b> | <b>38640</b> | <b>19175</b> | <b>25923</b> |

## 2.3 Vaccine Logistic Plan FY 2081/82

**Table 6: Logistic Plan**

| District Name       | Total Population | EPI Center   | EPI Session  | Yearly Target Population |              |                    | AD. Syringe     |                |                | Reconstitution Syringe |              | Safety Box   |
|---------------------|------------------|--------------|--------------|--------------------------|--------------|--------------------|-----------------|----------------|----------------|------------------------|--------------|--------------|
|                     |                  |              |              | 0- 11 month              | 12-23 Month  | Expected Pregnancy | AD Syr. 0.05 ml | AD Syr. 0.1 ml | AD Syr. 0.5 ml | Syr. 2 ml              | Syr. 5 ml    |              |
| Rukum East          | 57366            | 696          | 696          | 967                      | 950          | 1182               | 1209            | 2147           | 12880          | 773                    | 1545         | 186          |
| Rolpa               | 235297           | 2640         | 2676         | 3995                     | 3882         | 5024               | 4994            | 8869           | 53213          | 2970                   | 5941         | 760          |
| Pyuthan             | 230334           | 3228         | 3264         | 3911                     | 3792         | 5093               | 4889            | 8682           | 52095          | 3623                   | 7246         | 765          |
| Gulmi               | 235489           | 3960         | 4068         | 3987                     | 3893         | 5136               | 4984            | 8851           | 53107          | 4515                   | 9031         | 805          |
| Arghakhanchi        | 169879           | 2172         | 2208         | 2879                     | 2804         | 3706               | 3599            | 6391           | 38348          | 2451                   | 4902         | 557          |
| Palpa               | 236164           | 2820         | 3408         | 4005                     | 3899         | 5127               | 5006            | 8891           | 53347          | 3783                   | 7566         | 786          |
| Nawalparasi W       | 398853           | 2112         | 2244         | 6790                     | 6552         | 8243               | 8488            | 15074          | 90443          | 2491                   | 4982         | 1215         |
| Rupandehi           | 1186006          | 3900         | 4668         | 20222                    | 19446        | 24254              | 25278           | 44893          | 269357         | 5181                   | 10363        | 3551         |
| Kapilvastu          | 708740           | 5208         | 5352         | 12084                    | 11620        | 14477              | 15105           | 26826          | 160959         | 5941                   | 11881        | 2207         |
| Dang                | 705877           | 2784         | 3312         | 12040                    | 11572        | 14876              | 15050           | 26729          | 160373         | 3676                   | 7353         | 2132         |
| Banke               | 630241           | 3516         | 3852         | 10751                    | 10332        | 12878              | 13439           | 23867          | 143203         | 4276                   | 8551         | 1933         |
| Bardiya             | 464679           | 2856         | 2892         | 7913                     | 7634         | 9849               | 9891            | 17567          | 105401         | 3210                   | 6420         | 1425         |
| <b>Total Yearly</b> | <b>5258925</b>   | <b>35892</b> | <b>38640</b> | <b>89544</b>             | <b>86376</b> | <b>109844</b>      | <b>111930</b>   | <b>198788</b>  | <b>1192726</b> | <b>42890</b>           | <b>85781</b> | <b>16321</b> |

## 2.4 RI Vaccine Received & Supply Status 2081/82

This bar diagram shows comparison of vaccine received and supplied status based on yearly vaccine distribution plan (as per target).

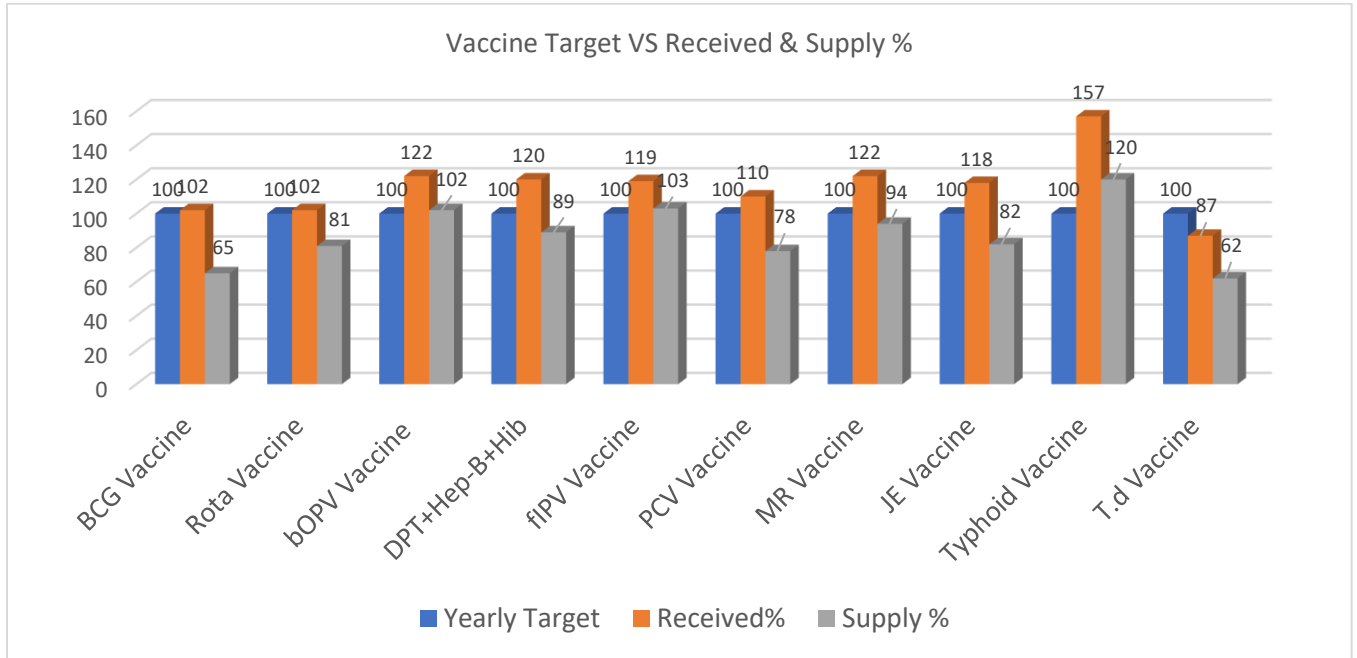


Figure 2: Comparison of Vaccine Received with Supply

## 2.5 AD Syringes & Logistic Received & Supply Status 2081/82

This bar diagram shows comparison of Syringes received and supplied status based on yearly vaccine distribution plan (as per target).

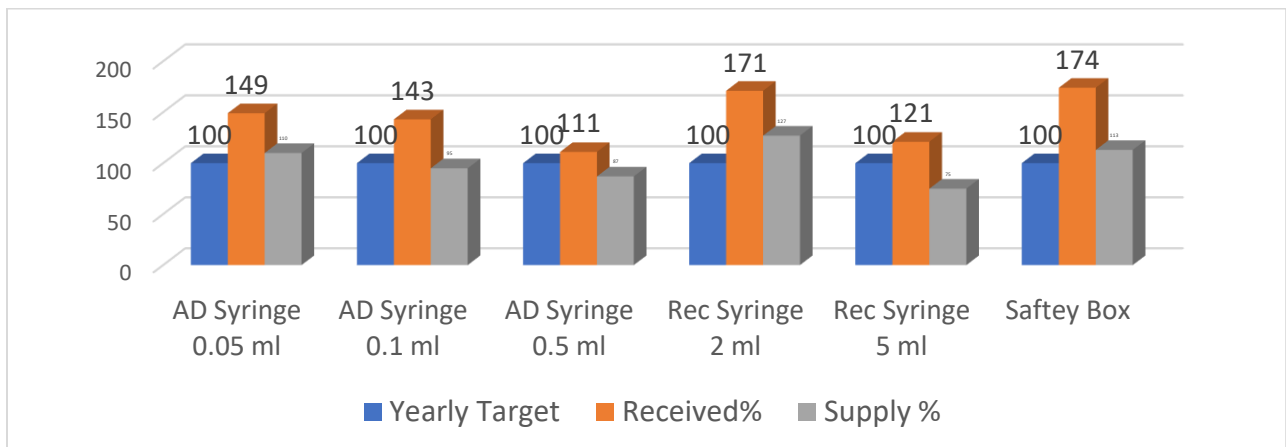


Figure 3: Comparison of Syringes Received with Supply

## 2.6 Routine Vaccine Wastage Rate 2081/82

This diagram shows provincial status on comparison of National Immunization Wastage Rate with actual vaccine wastage during immunization annually. This data describes that all antigen have high wastage except Rota and PCV vaccine.

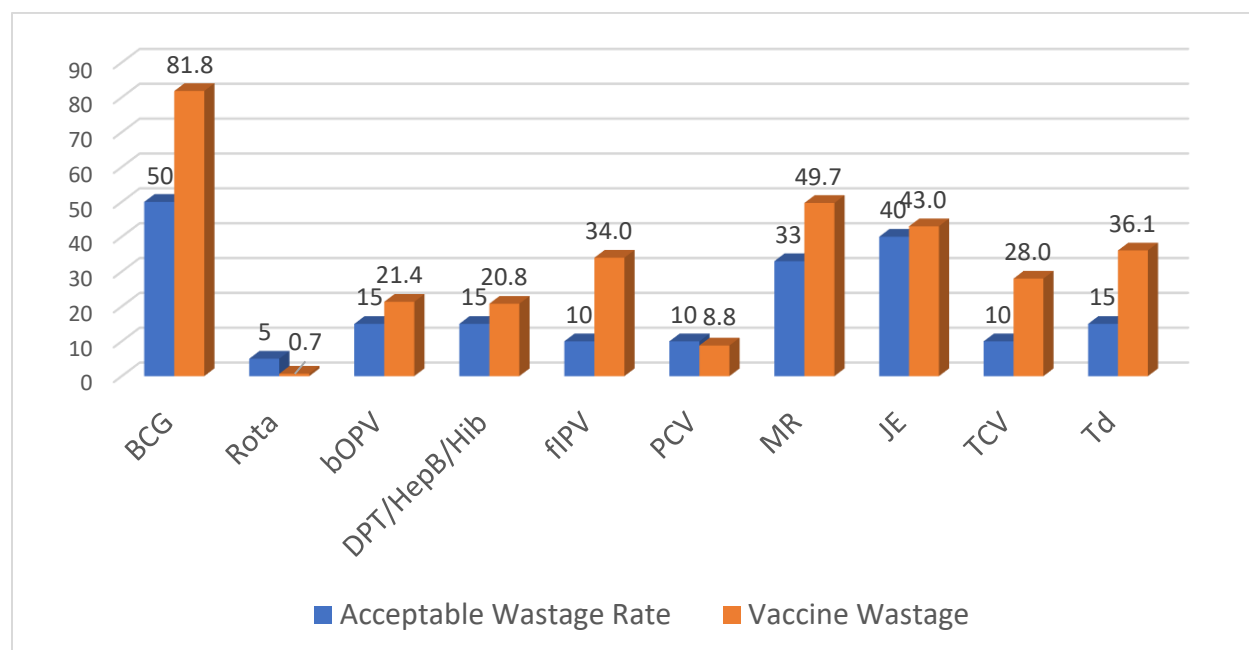


Figure 4: Comparison of Standard Wastage Rate with Actual Vaccine Wastage

## 2.7 District Wise Wastage Rate of Routine Vaccine 2081/82

This is district wise wastage rate data that indicates high wastage rate of all vaccine except Rota in all districts. Vaccine with multi dose vial have high wastage rate than single dose vial.

Table 7: Wastage Rate

| District   | BCG  | Rota | bOPV | DPT/H<br>epB/Hi<br>b | fIPV | PCV  | MR   | JE   | TCV  | Td   |
|------------|------|------|------|----------------------|------|------|------|------|------|------|
| RUKUM EAST | 88.6 | 2.1  | 41.1 | 39.4                 | 40.3 | 20.6 | 63.6 | 56.7 | 51.4 | 59.9 |
| ROLPA      | 87.3 | 0.9  | 26.7 | 26.0                 | 35.3 | 11.6 | 58.0 | 49.6 | 31.5 | 39.4 |
| PYUTHAN    | 90.2 | 0.6  | 29.2 | 29.0                 | 47.0 | 10.7 | 70.1 | 60.3 | 37.2 | 49.4 |
| GULMI      | 90.8 | 0.3  | 44.9 | 44.0                 | 50.5 | 17.9 | 70.4 | 60.9 | 50.0 | 64.5 |

|                   |      |     |      |      |      |      |      |      |      |      |
|-------------------|------|-----|------|------|------|------|------|------|------|------|
| ARGHAKHAN<br>CHI  | 91.5 | 0.3 | 37.1 | 36.1 | 49.9 | 15.7 | 70.3 | 62.5 | 44.0 | 60.5 |
| PALPA             | 85.4 | 0.5 | 39.9 | 39.9 | 50.0 | 16.0 | 70.8 | 60.7 | 43.8 | 61.0 |
| NAWALPARAS<br>I W | 84.8 | 0.6 | 19.1 | 18.2 | 38.4 | 8.3  | 44.0 | 37.7 | 25.0 | 34.3 |
| RUPANDEHI         | 68.7 | 0.6 | 14.5 | 14.1 | 22.1 | 6.0  | 32.4 | 27.7 | 18.5 | 25.2 |
| KAPILBASTU        | 84.3 | 0.8 | 15.6 | 14.9 | 34.2 | 7.6  | 46.4 | 44.3 | 25.1 | 27.6 |
| DANG              | 78.5 | 1.1 | 18.8 | 18.6 | 24.7 | 8.5  | 39.8 | 33.1 | 25.1 | 30.3 |
| BANKE             | 77.0 | 0.7 | 14.7 | 14.0 | 27.5 | 6.1  | 38.0 | 35.9 | 23.5 | 24.2 |
| BARDIYA           | 86.6 | 0.6 | 18.6 | 18.3 | 40.8 | 7.8  | 51.8 | 46.7 | 25.7 | 32.9 |

## 2.8 Allocated Vaccine with Sites for Anti-Rabies & Anti Snake Venom

This is a ARV and ASV vaccine supply plan where quantity of vaccine is allocated by EDCD to each site on monthly basis. There are total of 43 sites for ARV and ASV supply (41 ARV sites & 24 ASV sites). Monthly allocated ARV is 5920 vial, and yearly target is 71040 vial. The requirement of ASV with allocated site 4830 vial and yearly requirement based on consumption is around 6000 vials.

*Table 8: ARV/ASV Sites and Allocated Vaccine*

| District Wise Status |            |                                 |                           | ARV               | ASV                |
|----------------------|------------|---------------------------------|---------------------------|-------------------|--------------------|
| S.N.                 | District   | Palika                          | Health Facility           | Monthly Allocated | Allocated Quantity |
| 1                    | Rukum East | Sisne Rural Municipality        | District Hospital         | 50                | 40                 |
| 2                    | Rolpa      | Rolpa Municipality              | District Hospital         | 80                | 50                 |
| 3                    |            | Sunil Smriti Rural Municipality | Sulichaur PHC             | 30                | 0                  |
| 4                    | Pyuthan    | Pyuthan Municipality            | District Hospital         | 100               | 100                |
| 5                    |            | Swargadwari Municipality        | Sarpadansa Upachar Kendra | 40                | 40                 |
| 6                    | Gulmi      | Resunga Municipality            | District Hospital         | 200               | 50                 |
| 7                    |            | Rurukshetra Rural Municipality  | Ruru PHC                  | 60                | 0                  |
| 8                    |            | Satyawati Rural Municipality    | Johang PHC                | 60                | 0                  |
| 9                    |            | Chhatrakot Rural Municipality   | Shringa PHC               | 50                | 0                  |
| 10                   | Palpa      | Tansen Municipality             | District Hospital         | 200               | 50                 |
| 11                   |            | Rampur Municipality             | Rampur Hospital           | 200               | 100                |
| 12                   |            | Sandhikharka Municipality       | District Hospital         | 150               | 50                 |

|    |                  |                                 |   |      |      |
|----|------------------|---------------------------------|---|------|------|
| 13 | Arghakhanchi     | Sitganga Municipality           | Thada PHC                                 | 40   | 0    |
| 14 | Nawalparasi West | Ramgram Municipality            | District Hospital                         | 200  | 50   |
| 15 |                  | Bardhaghat Municipality         | Sahid Smriti Samudayik Hospital Chaupatta | 150  | 0    |
| 16 |                  | Bardhaghat Municipality         | Chisapani Hospital                        | 120  | 50   |
| 17 | Rupandehi        | Butwal Sub-Metropolitan City    | Lumbini Provincial Hospital               | 1000 | 1800 |
| 18 |                  | Siddharthanagar Municipality    | Bhim Hospital                             | 450  | 400  |
| 19 |                  | Sainamaina Municipality         | Sainamaina Basic Hospital                 | 160  | 0    |
| 20 |                  | Samarimai Rural Municipality    | Samarimai Rural Municipality              | 20   | 0    |
| 21 |                  | Marchawari Rural Municipality   | Rayapur PHC                               | 30   | 0    |
| 22 |                  | Devdaha Municipality            | Devdaha Basic Hospital                    | 60   | 0    |
| 23 |                  | Suddhodhan Rural Municipality   | Motipur PHC                               | 30   | 0    |
| 24 |                  | Om Satiya Rural Municipality    | Basantpur PHC                             | 40   | 0    |
| 25 |                  | Lumbini Sanskritik Municipality | Lumbini PHC                               | 40   | 0    |
| 26 |                  | Tilottama Municipality          | Anandaban Basic Hospital                  | 20   | 0    |
| 27 | Kapilbastu       | Kapilbastu Municipality         | Taulihawa Hospital                        | 200  | 100  |
| 28 |                  | Krishnanagar Municipality       | Shivraj Hospital Bahadurgunj              | 120  | 50   |
| 29 |                  | Banganga Municipality           | Pipara Hospital                           | 150  | 0    |
| 30 |                  | Buddhabhumi Municipality        | Goringhe Sarpadansa Upachar Kendra        | 0    | 700  |
| 31 |                  | Shivraj Municipality            | Basic Health Service Hospital, Chandrauta | 60   | 0    |
| 32 | Dang             | Tulsipur Sub-Metropolitan City  | Rapti Provincial Hospital                 | 200  | 50   |
| 33 |                  | Lamahi Municipality             | Lamahi Hospital                           | 150  | 50   |
| 34 |                  | Dangisharan Rural Municipality  | Shreegaun PHC                             | 40   | 0    |
| 35 |                  | Gadhawa Rural Municipality      | Deukhuri Sarpadansa Upachar Kendra        | 20   | 50   |
| 36 |                  | Ghorahi Sub-Metropolitan City   | Rapti Academy of Health Sciences          | 150  | 100  |
| 37 | Banke            | Nepalgunj Sub-Metropolitan City | Bheri Hospital                            | 800  | 650  |

|    |         |                                 |  |       |      |
|----|---------|---------------------------------|--|-------|------|
| 28 |         | Rapti Sonari Rural Municipality | Sarpadansa Upachar Kendra<br>Samshergunj | 0     | 50   |
| 39 | Bardiya | Gulariya Municipality           | District Hospital                        | 200   | 150  |
| 40 |         | Barbardiya Municipality         | RC Memorial Basic Hospital               | 80    | 50   |
| 41 |         | Rajapur Rural Municipality      | Rajapur PHC                              | 40    | 0    |
| 42 |         | Bansgadhi Municipality          | Bansgadhi Basic Hospital                 | 80    | 0    |
| 43 |         | Thakurbaba Municipality         | Thakurbaba Municipality                  | 50    | 50   |
|    | Total   |                                 | Total Monthly                            | 5920  | 4830 |
|    |         |                                 | Total Yearly                             | 71040 | 7245 |

## 2.9 ARV & ASV Vaccine Received and Supply Status

This is a status of vaccine (ARV, ASV, eRIG) received and supplied during a year and closing balance.

*Table 9: ARV/ASV Supply Status*

| <b>Product</b>   | <b>Opening Balance</b> | <b>Received Vial</b> | <b>Issued Vial</b> | <b>Closing Balance</b> |
|--|------------------------|----------------------|--------------------|------------------------|
| Polyvalent Anti-Snake Venom                                    | 4333                   | 5108                 | 5741               | 3700                   |
| Rabies Antiserum 1500IU IP (VINRIG)                            | 0                      | 1800                 | 600                | 1200                   |
| Anti Rabies Vaccine 0.5 ml                                     | 5960                   | 17650                | 16530              | 7080                   |
| Anti Rabies Vaccine 1 ml                                       | 6165                   | 11640                | 17730              | 75                     |
| <b>Total Received and Issued ARV of 0.5 and 1 ml dose vial</b> | <b>12125</b>           | <b>29290</b>         | <b>34260</b>       | <b>7155</b>            |

## 2.10 District & ARV site wise ARV & ASV Vaccine Received and Supply Status

This data shows reporting status of each sites in DHIS2 and manual report at PHLMC. There is number of vaccine received and expenditure on serving the number of patient.

Table 10: Sitewise ARV/ASV Supply status

| District         | ARV Site                                       | No. of people service provided (Report) | No. of people service provided (DHIS 2) | ARV Vaccine Expenditure in Dose | No. of Vial Supply/Expenditure |          |            |
|------------------|--|---|---|---------------------------------|--------------------------------|----------|------------|
|                  |  |   |   |                                 | ARV 0.5 ml                     | ARV 1 ml | Total Vial |
| Rukum East       | Rukum East-District Hospital                   | 104                                     | 164                                     | 336                             | 300                            | 120      | 420        |
| Rolpa            | District Hospital Rolpa                        | 260                                     | 278                                     | 224                             | 240                            | 40       | 280        |
|                  | (Sulichaur PHC) Sunilsmriti RM                 | 132                                     | 266                                     | 256                             | 280                            | 40       | 320        |
| Pyuthan          | District Hospital Pyuthan                      | 152                                     | 549                                     | 416                             | 340                            | 180      | 520        |
|                  | Swargadwari Municipality                       |   | 22                                      | 32                              | 40                             | 0        | 40         |
| Gulmi            | Tamghas Hospital                               | 789                                     | 1165                                    | 1068                            | 1155                           | 180      | 1335       |
|                  | Juhang PHC (Satyawoti RM)                      | 236                                     | 378                                     | 320                             | 260                            | 140      | 400        |
|                  | Shringa PHC (Chhatrakot RM)                    | 377                                     | 493                                     | 320                             | 326                            | 74       | 400        |
|                  | Ridi PHC (Rurukshetra RM)                      | 333                                     | 186                                     | 300                             | 330                            | 45       | 375        |
| Arghakhanchi     | District Hospital Arghakhanchi                 | 357                                     | 751                                     | 736                             | 600                            | 320      | 920        |
|                  | Thada PHC (Shitaganga Municipality)            | 142                                     | 128                                     | 252                             | 270                            | 45       | 315        |
| Palpa            | Palpa Hospital, Tansen Municipality            | 572                                     | 1365                                    | 496                             | 500                            | 120      | 620        |
|                  | Rampur Hospital, Rampur Municipality           | 369                                     | 153                                     | 488                             | 510                            | 100      | 610        |
| Nawalparasi West | Prithvi Chandra Hospital, Ramgram Municipality | 794                                     | 1725                                    | 873                             | 580                            | 390      | 970        |
|                  | Chisapani Hospital (Bardhaghat Municipality)   | 985                                     | 1162                                    | 824                             | 455                            | 460      | 915        |

|            |   |       |       |      |     |      |      |
|------------|---|-------|-------|------|-----|------|------|
|            | Shahid Smriti Community Hospital Development Centre, Bhardhaghat Municipality | 365   | 353   | 256  | 80  | 240  | 320  |
| Rupandehi  | Bhim Hospital, Siddharthanagar Municipality                                   | 3042  | 3315  | 1990 | 711 | 1500 | 2211 |
|            | Devdaha Municipality (Basic Hospital)   | 758   | 728   | 585  | 580 | 70   | 650  |
|            | Lumbini Provincial Hospital, Butwal   | 21908 | 12300 | 6030 | 760 | 5940 | 6700 |
|            | Lumbini Sanskritik Municipality (Lumbini PHC)                                 | 205   | 422   | 304  | 300 | 80   | 380  |
|            | Om Satiya RM (Basantapur PHC)   | 99    | 169   | 172  | 175 | 40   | 215  |
|            | Rayapur PHC (Marchawari RM)   | 240   | 238   | 176  | 200 | 20   | 220  |
|            | Sainamaina Municipality (Basic Hospital)                                      | 1086  | 1351  | 713  | 765 | 126  | 891  |
|            | Samarimai Rural Municipality  |       |       | 0    | 0   | 0    | 0    |
|            | Suddhodhan RM (Motipur PHC)   | 209   | 436   | 272  | 300 | 40   | 340  |
|            | Tilottama Municipality (Anandaban HP)   | 299   | 260   | 243  | 243 | 60   | 303  |
| Kapilbastu | Taulihawa Hospital, Kapilbastu  | 1337  | 262   | 768  | 620 | 340  | 960  |
|            | Shivaraj Hospital Bahadurgunj (Krishnanagar Municipality)                     | 1061  | 998   | 536  | 500 | 170  | 670  |
|            | Shivaraj Municipality (Basic Hospital)  | 777   | 64    | 545  | 480 | 125  | 605  |
|            | Pipara Hospital, Banganga Municipality  | 652   | 761   | 512  | 470 | 170  | 640  |
| Dang       | Lamahi Hospital, Lamahi Municipality  | 652   | 1254  | 1026 | 600 | 540  | 1140 |
|            | Dangisharan RM (Shreegaun PHC)  | 66    | 64    | 144  | 160 | 20   | 180  |
|            | Deukhuri Snake Bite Treatment Center, Gadhawa RM                              | 311   | 417   | 160  | 160 | 40   | 200  |

|         |   |       |       |       |       |       |       |
|---------|---|-------|-------|-------|-------|-------|-------|
|         | Rapti Academy of Health Sciences, Ghorahi | 276   | 1457  | 486   | 215   | 325   | 540   |
|         | Rapti Provincial Hospital, Tulsipur       | 1513  | 4384  | 1620  | 680   | 1120  | 1800  |
| Banke   | Bheri Hospital, Nepalgunj                 | 5832  |       | 3852  | 700   | 3580  | 4280  |
| Bardiya | Bardiya District Hospital                 | 413   | 1083  | 774   | 340   | 520   | 860   |
|         | Bansgadhi Municipality (Basic Hospital)   | 573   | 491   | 414   | 380   | 80    | 460   |
|         | Barbardiya Municipality (Basic Hospital)  | 427   | 630   | 558   | 480   | 140   | 620   |
|         | Rajapur PHC (Rajapur RM)                  | 251   | 683   | 230   | 165   | 90    | 255   |
|         | Thakurbaba Municipality (Basic Hospital)  | 395   | 840   | 342   | 280   | 100   | 380   |
| Total   |   | 48349 | 41745 | 29649 | 16530 | 17730 | 34260 |

## 2.11 Vaccine Received for Complication of Sickle Cell Anaemia

These 5 vaccines were received from Indian Embassy on Chaitra 2081 planned for treatment of Sickle Cell Anemia and Thalassemia related patients and some quantity of vaccines supplied to Bheri Hospital.

*Table 11: Vaccine Received for Complication of Sickle Cell Anemia*

| S.N. | Vaccine Name                   | Received Qty | Issued to Bheri Hospital | Current Stock | Expiry Date |
|------|--------------------------------|--------------|--------------------------|---------------|-------------|
| 1    | Influenza Vaccine              | 3100         | 400                      | 2700          | 12/31/2025  |
| 2    | Pneumococcal Conjugate Vaccine | 4640         | 400                      | 4240          | 4/30/2026   |
| 3    | Salmonella Typhoid Vaccine     | 1550         | 400                      | 1150          | 2/28/2027   |
| 4    | Haemophilus Influenza Vaccine  | 4640         | 400                      | 4240          | 8/31/2026   |
| 5    | Meningococcal Vaccine          | 3100         | 400                      | 2700          | 8/31/2026   |

## Chapter 3: HPV Vaccination Campaign

In Lumbini province, the campaign was conducted from 22<sup>nd</sup> Magh 2081 to 6<sup>th</sup> Falgun 2081 (4<sup>th</sup> Feb to 18<sup>th</sup> Feb 2025). PHLMC had received 298910 Vial HPV single Dose Vaccine from central vaccine store for Campaign. The central estimated target was 290124 (Provincial target 272630) girls with acceptable wastage rate of 1%. Target population were 6-10 grade school girls and 10-14 years out of school girls. Vaccine supplied during campaign was 280525 vial with achievement of 260972 (95.7%). After completion of campaign, 19532 vial was returned from district. PHLMC have 37654 vial of HPV Vaccine after returning from district which will be used in Routine Immunization Program in FY 2082/83.

*Table 12: HPV Campaign and Vaccine Supply Schedule*

| District     | Date of Campaign      | Phase/s        | District  | Supply Schedule             |
|--------------|-----------------------|----------------|-----------|-----------------------------|
| RukumEast    | 2081 Magh 22-25       | 4-7 Feb 2025   | 1st phase | Magh 10                     |
| Rolpa        | 2081 Magh 22-29       | 4-11 Feb 2025  | 1st phase | Magh 12                     |
| Pyuthan      | 2081 Magh 22-28       | 4-10 Feb 2025  | 1st phase | Magh 12                     |
| Gulmi        | 2081 Magh 22-29       | 4-11 Feb 2025  | 1st phase | Magh 10                     |
| Arghakhanchi | 2081 Magh 22-28       | 4-10 Feb 2025  | 1st phase | Magh 12                     |
| Palpa        | 2081 Magh 22-26       | 4-8 Feb 2025   | 1st phase | Magh 14                     |
|              | 2081 Magh 28-Falgun 6 | 10-18 Feb 2025 | 2nd Phase |                             |
| Nawalparasi  | 2081 Magh 22-28       | 4-10 Feb 2025  | 1st phase | Magh 16                     |
| Rupandehi    | 2081 Magh 22-28       | 4-10 Feb 2025  | 1st phase | Magh 16 and 27 (2 shipment) |
| Kapilvastu   | 2081 Magh 22-28       | 4-10 Feb 2025  | 1st phase | Magh 16 and 27 (2 shipment) |
|              | 2081 Magh 29-Falgun 6 | 11-18 Feb 2025 | 2nd Phase |                             |
| Dang         | 2081 Magh 22-28       | 4-10 Feb 2025  | 1st phase | Magh 18                     |
|              | 2081 Magh 29-Falgun 5 | 11-17 Feb 2025 | 2nd Phase |                             |
| Banke        | 2081 Magh 22-29       | 4-11 Feb 2025  | 1st phase | Magh 18 and 26 (2 shipment) |
|              | 2081 Magh 30-Falgun 6 | 12-18 Feb 2025 | 2nd Phase |                             |
| Bardiya      | 2081 Magh 22-29       | 4-11 Feb 2025  | 1st phase | Magh 18                     |

**Table 13: IEC Supply Detail for HPV Vaccination Campaign**

| S.N | District      | Central Target | Guideline | FAQ    | Vaccination Card | Register             | Poster | Remarks |
|-----|---------------|----------------|-----------|--------|------------------|----------------------|--------|---------|
| 1   | Rukum East    | 3591           | 66        | 4,500  | 4,500            | 54                   | 425    |         |
| 2   | Rolpa         | 15478          | 160       | 19,900 | 19,900           | 186                  | 1,100  |         |
| 3   | Pyuthan       | 16335          | 143       | 20,500 | 20,500           | 146                  | 975    |         |
| 4   | Gulmi         | 13046          | 194       | 14,700 | 14,700           | 236                  | 1,375  |         |
| 5   | Arghakhanchi  | 9334           | 136       | 10,800 | 10,800           | 149                  | 1,025  |         |
| 6   | Palpa         | 12566          | 169       | 13,200 | 13,200           | 237                  | 1,200  |         |
| 7   | Nawalparasi W | 18793          | 115       | 22,000 | 22,000           | 252                  | 775    |         |
| 8   | Rupandehi     | 61231          | 209       | 69,900 | 69,900           | 675                  | 1,350  |         |
| 9   | Kapilvastu    | 39525          | 156       | 50,800 | 50,800           | 466                  | 1,075  |         |
| 10  | Dang          | 42067          | 170       | 44,600 | 44,600           | 410                  | 1,200  |         |
| 11  | Banke         | 34093          | 126       | 41,400 | 41,400           | 420                  | 850    |         |
| 12  | Bardiya       | 24065          | 123       | 28,800 | 28,800           | 253                  | 825    |         |
|     | PHLMC         | 290124         | 120       | 12,000 | 12,000           | Supplied to District |        |         |

**Table 14: HPV Vaccine and Logistic Supply Detail**

| District      | Provincial Target | HPV Vaccine Supplied | Ad Syringe 0.5 ml | Safety Box | Ice Pack 0.6 ml | Ice Pack 0.4 ml | Vaccine Carrier | Zip Lock Bag | Foam Pad |
|---------------|-------------------|----------------------|-------------------|------------|-----------------|-----------------|-----------------|--------------|----------|
| Rukum East    | 3036              | 3200                 | 15000             | 500        | 144             | 216             | 0               | 10           | 20       |
| Rolpa         | 12805             | 13600                | 0                 | 500        | 288             | 216             | 56              | 25           | 50       |
| Pyuthan       | 13503             | 14200                | 0                 | 0          | 288             | 216             | 64              | 30           | 45       |
| Gulmi         | 11288             | 11900                | 0                 | 500        | 432             | 216             | 104             | 40           | 80       |
| Arghakhanchi  | 8214              | 8650                 | 18000             | 500        | 144             | 216             | 0               | 20           | 40       |
| Palpa         | 10743             | 11400                | 45000             | 500        | 288             | 216             | 0               | 25           | 65       |
| Nawalparasi W | 16080             | 16900                | 45000             | 1500       | 288             | 216             | 0               | 20           | 40       |
| Rupandehi     | 58898             | 61850                | 94400             | 3000       | 432             | 0               | 0               | 40           | 75       |
| Kapilvastu    | 34673             | 41525                | 106000            | 1000       | 432             | 0               | 0               | 50           | 60       |
| Dang          | 39282             | 41400                | 155000            | 750        | 288             | 216             | 24              | 25           | 40       |

|         |        |        |        |       |      |      |     |     |     |
|---------|--------|--------|--------|-------|------|------|-----|-----|-----|
| Banke   | 33375  | 34100  | 60000  | 1000  | 288  | 216  | 16  | 35  | 50  |
| Bardiya | 20624  | 21800  | 0      | 1000  | 288  | 216  | 16  | 25  | 35  |
| PHLMC   | 262521 | 280525 | 538400 | 10750 | 3600 | 2160 | 280 | 345 | 600 |

**Table 15:HPV Vaccine Supply, Expenditure and Return Status**

| District      | Central Target | Province Target | HPV Vaccine 1 Dose | HPV Expenditure | HPV Return from District | Coverage | Coverage % | Waste Vial |
|---------------|----------------|-----------------|--------------------|-----------------|--------------------------|----------|------------|------------|
| Rukum East    | 3591           | 2973            | 3200               | 2841            | 359                      | 2838     | 95.5       | 3          |
| Rolpa         | 15478          | 13004           | 13600              | 12783           | 817                      | 12783    | 98.3       | 0          |
| Pyuthan       | 16335          | 13763           | 14200              | 13109           | 1091                     | 13109    | 95.2       | 0          |
| Gulmi         | 13046          | 10874           | 11900              | 10892           | 1008                     | 10820    | 99.5       | 72         |
| Arghakhanchi  | 9334           | 8178            | 8650               | 7590            | 1060                     | 7541     | 92.2       | 49         |
| Palpa         | 12566          | 10410           | 11400              | 10525           | 875                      | 10437    | 100.3      | 88         |
| Nawalparasi W | 18793          | 16293           | 16900              | 16027           | 873                      | 16025    | 98.4       | 2          |
| Rupandehi     | 61231          | 59215           | 61850              | 55110           | 6740                     | 55110    | 93.1       | 0          |
| Kapilvastu    | 39525          | 44471           | 41525              | 40982           | 281                      | 41238    | 92.7       | 6          |
| Dang          | 42067          | 39450           | 41400              | 36976           | 4424                     | 36912    | 93.6       | 64         |
| Banke         | 34093          | 33375           | 34100              | 33750           | 350                      | 33750    | 101.1      | 0          |
| Bardiya       | 24065          | 20624           | 21800              | 20408           | 1392                     | 20400    | 98.9       | 8          |
| PHLMC         | 290124         | 272630          | 280525             | 260993          | 19270                    | 260963   | 95.7       | 283        |

## Chapter 4: Covid-19 Vaccination

Covid-19 Vaccination started in Nepal in 2077 BS (2020 AD).

**Table 16: Covid Vaccine supplied to district in Fiscal Year 2077/78**

| District              | Total Population | Target Popn. 18 yrs above | Covishield Vaccine Issued Dose | Janssen Vaccine Issued Dose | Vero cell vaccine Issued 1 Dose Vial | Vero cell vaccine Issued (2 Dose Vial) | Total Dose Issued to District |
|-----------------------|------------------|---------------------------|--------------------------------|-----------------------------|--------------------------------------|--|-------------------------------|
| Rukum East            | 58687            | 38713                     | 8150                           | 680                         | 1015                                 | 1500                                   | 12845                         |
| Rolpa                 | 238565           | 157369                    | 17510                          | 11500                       | 6248                                 | 6726                                   | 48710                         |
| Pyuthan               | 243187           | 160418                    | 19710                          | 11800                       | 7028                                 | 6965                                   | 52468                         |
| Gulmi                 | 254115           | 167627                    | 27050                          | 12000                       | 9430                                 | 8063                                   | 64606                         |
| Arghakhachi           | 202615           | 133655                    | 16740                          | 9500                        | 6770                                 | 5967                                   | 44944                         |
| Palpa                 | 247024           | 162949                    | 20280                          | 11500                       | 8840                                 | 8043                                   | 56706                         |
| Nawalparasi W         | 378282           | 249534                    | 25510                          | 19000                       | 11466                                | 8630                                   | 73236                         |
| Rupendehi             | 1081131          | 713168                    | 69030                          | 55020                       | 30517                                | 30182                                  | 214931                        |
| Kapilvastu            | 675964           | 445900                    | 47060                          | 33000                       | 19100                                | 17000                                  | 133160                        |
| Dang                  | 655761           | 432573                    | 38580                          | 33000                       | 17291                                | 19493                                  | 127857                        |
| Banke                 | 615728           | 406165                    | 42530                          | 31000                       | 17265                                | 16636                                  | 124067                        |
| Bardiya               | 483674           | 319056                    | 33850                          | 24000                       | 12880                                | 13378                                  | 97486                         |
| <b>Total</b>          | <b>5134733</b>   | <b>3387127</b>            | <b>366000</b>                  | <b>252000</b>               | <b>147850</b>                        | <b>142583</b>                          | <b>1051016</b>                |
| <b>PHLMC Received</b> |                  |                           | <b>366000</b>                  | <b>252000</b>               | <b>152400</b>                        | <b>147200</b>                          | <b>1064800</b>                |
| <b>PHLMC Stock</b>    |                  |                           | <b>0</b>                       | <b>0</b>                    | <b>4550</b>                          | <b>4617</b>                            | <b>13784</b>                  |

**Table 17: Covid Vaccine supplied to district in Fiscal Year 2078/79**

| District              | Covishield Vaccine Issued Dose | Astrazeneca Vaccine                            |   | Vero Cell Vaccine                    |                                      |                                      |                                     | Janssen Vaccine Issued Dose | Pfizer Vaccine                                 |   | Moderna                             | Total Vaccine Dose Issued District |
|-----------------------|--------------------------------|--|---|--------------------------------------|--------------------------------------|--------------------------------------|-------------------------------------|-----------------------------|--|---|-------------------------------------|------------------------------------|
|                       |                                | Astrazeneca Vaccine Issued Dose (10 Dose Vial) | Astrazeneca Vaccine Issued Dose (8 Dose Vial) | Vero cell vaccine Issued 1 Dose Vial | Vero cell vaccine Issued 2 Dose Vial | Vero cell vaccine issued 5 Dose vial | Total Vero Cell Vaccine Issued Dose |                             | Adult Pfizer Vaccine Issued Dose (6 Dose Vial) | Pediatric Pfizer Vaccine Issued Dose (10 Dose Vial) | Moderna Vaccine Dose (10 Dose Vial) |                                    |
| Rukum East            | 29300                          | 7100   | 16440   | 12770                                | 1913                                 | 0                                    | 16596                               | 3100                        | 0  | 0   | 13800                               | 86336                              |
| Rolpa                 | 30300                          | 31560  | 24960   | 8100                                 | 8100                                 | 26823                                | 158415                              | 20100                       | 0  | 0   | 61510                               | 326845                             |
| Pyuthan               | 40200                          | 110240   | 38920   | 22620                                | 9546                                 | 4840                                 | 65912                               | 14750                       | 0  | 0   | 77070                               | 347092                             |
| Gulmi                 | 118200                         | 121150   | 16000   | 5400                                 | 10897                                | 5608                                 | 55234                               | 13800                       | 0  | 0   | 90520                               | 414904                             |
| Arghakhachi           | 57130                          | 9200   | 34720   | 100                                  | 8065                                 | 23373                                | 133095                              | 6500                        | 0  | 0   | 45100                               | 285745                             |
| Palpa                 | 43700                          | 34750  | 38920   | 52800                                | 15066                                | 28006                                | 222962                              | 8000                        | 0  | 0   | 50140                               | 398472                             |
| Nawalparasi (W)       | 219000                         | 48550  | 83920   | 40550                                | 14941                                | 13131                                | 136087                              | 20600                       | 0  | 46100   | 98920                               | 653177                             |
| Rupendehi             | 44000                          | 41200  | 191000  | 548617                               | 65764                                | 51177                                | 936030                              | 72650                       | 5160   | 128500  | 367660                              | 1786200                            |
| Kapilvastu            | 172370                         | 130750   | 0   | 40800                                | 17000                                | 32928                                | 239440                              | 75750                       | 0  | 0   | 160570                              | 778880                             |
| Dang                  | 183700                         | 69850  | 65600   | 162610                               | 26347                                | 33546                                | 383034                              | 53000                       | 2208   | 84500   | 189330                              | 1031222                            |
| Banke                 | 219800                         | 31950  | 36000   | 107010                               | 17000                                | 31222                                | 297120                              | 30750                       | 38700  | 80000   | 134800                              | 869120                             |
| Bardiya               | 226300                         | 125700   | 48000   | 12000                                | 13378                                | 20036                                | 138936                              | 17000                       | 0  | 59300   | 148780                              | 764016                             |
| <b>Total Issued</b>   | <b>1384000</b>                 | <b>762000</b>                                  | <b>594480</b>                                 | <b>1013377</b>                       | <b>208017</b>                        | <b>270690</b>                        | <b>2782861</b>                      | <b>336000</b>               | <b>46068</b>                                   | <b>398400</b>                                       | <b>1438200</b>                      | <b>7742009</b>                     |
| <b>PHLMC Received</b> | <b>1384000</b>                 | <b>762000</b>                                  | <b>594480</b>                                 | <b>1134178</b>                       | <b>208017</b>                        | <b>270690</b>                        | <b>2903662</b>                      | <b>336000</b>               | <b>46068</b>                                   | <b>398400</b>                                       | <b>1438200</b>                      | <b>7862810</b>                     |
| <b>PHLMC Stock</b>    | <b>0</b>                       | <b>0</b>                                       | <b>0</b>                                      | <b>120801</b>                        | <b>0</b>                             | <b>0</b>                             | <b>120801</b>                       | <b>0</b>                    | <b>0</b>                                       | <b>0</b>  | <b>0</b>                            | <b>120801</b>                      |

**Table 18: Covid Vaccine supplied to district in Fiscal Year 2079/80**

| District        | Vero cell vaccine Issued 1 Dose Vial | Adult Pfizer Vaccine Issued Dose (6 Dose Vial) | Adult Pfizer Bivalent Issued Dose (6 Dose Vial) | Pediatric Pfizer Vaccine Issued Dose (5-11Yrs) (10 Dose Vial) | Total Vaccine Dose Issued District |
|-----------------|--------------------------------------|--|---|---|------------------------------------|
| Rukum East      | 0                                    | 0  | 8040  | 17000   | 25040                              |
| Rolpa           | 0                                    | 26910  | 10200   | 71400   | 108510                             |
| Pyuthan         | 0                                    | 0  | 41700   | 77200   | 118900                             |
| Gulmi           | 3000                                 | 29250  | 42960   | 73500   | 148710                             |
| Arghakhachi     | 3300                                 | 14040  | 33240   | 52800   | 103380                             |
| Palpa           | 300                                  | 25740  | 32520   | 63800   | 122360                             |
| Nawalparasi (W) | 6000                                 | 35100  | 45600   | 51100   | 137800                             |
| Rupendehi       | 50750                                | 138060   | 46200   | 159900  | 394910                             |
| Kapilvastu      | 9060                                 | 0  | 21240   | 189400  | 219700                             |
| Dang            | 6000                                 | 1440   | 65640   | 113700  | 186780                             |
| Banke           | 24040                                | 4410   | 70560   | 82800   | 181810                             |
| Bardiya         | 2400                                 | 52650  | 80340   | 59000   | 194390                             |
| Total Issued    | <b>104850</b>                        | <b>327600</b>                                  | <b>498240</b>                                   | <b>1011600</b>  | 1942290                            |
| PHLMC Received  | <b>120801</b>                        | <b>327600</b>                                  | <b>498240</b>                                   | <b>1011600</b>  | 1958241                            |
| PHLMC Stock     | <b>15951</b>                         | <b>0</b>                                       | <b>0</b>  | <b>0</b>  | 15951                              |

**Table 19: Covid Vaccine supplied to district in Fiscal Year 2080/81**

| District    | Vero cell vaccine Issued 1 Dose Vial | Adult Pfizer Bivalent Issued Dose (6 Dose Vial) | Total Vaccine Dose Issued District |
|-------------|--------------------------------------|---|------------------------------------|
| Rukum East  | 1200                                 | 7200  | 8400                               |
| Rolpa       | 2400                                 | 15420   | 17820                              |
| Pyuthan     | 0                                    | 40380   | 40380                              |
| Gulmi       | 2751                                 | 17280   | 20031                              |
| Arghakhachi | 1200                                 | 17760   | 18960                              |

|                 |              |               |               |
|-----------------|--------------|---------------|---------------|
| Palpa           | 1200         | 17280         | 18480         |
| Nawalparasi (W) | 600          | 24000         | 24600         |
| Rupendehi       | 1800         | 40320         | 42120         |
| Kapilvastu      | 0            | 30000         | 30000         |
| Dang            | 1800         | 31680         | 33480         |
| Banke           | 1200         | 40320         | 41520         |
| Bardiya         | 1800         | 61080         | 62880         |
| Total Issued    | <b>15951</b> | <b>342720</b> | <b>358671</b> |
| PHLMC Received  | <b>15951</b> | <b>342720</b> | <b>358671</b> |
| PHLMC Stock     | <b>0</b>     | <b>0</b>      | <b>0</b>      |

**Table 20: Covid Vaccine supplied to district in Fiscal Year 2081/82**

| District           | Adult Pfizer<br>Bivalent Issued<br>Dose (6 Dose Vial) | Adult Pfizer<br>Monovalent Issued<br>Dose (6 Dose Vial) | Pediatric Pfizer<br>Monovalent Issued<br>Dose (10 Dose Vial) | Total Vaccine<br>Dose Issued<br>District |
|--------------------|---|---|--|--|
| Rukum East         | 8100  | 3000  | 0  | 11100                                    |
| Rolpa              | 0   | 58200   | 0  | 58200                                    |
| Pyuthan            | 0   | 38592   | 0  | 38592                                    |
| Gulmi              | 0   | 40320   | 19200  | 59520                                    |
| Arghakhachi        | 13020   | 0   | 0  | 13020                                    |
| Palpa              | 4080  | 1428  | 0  | 5508                                     |
| Nawalparasi<br>(W) | 0   | 40320   | 0  | 40320                                    |
| Rupendehi          | 0   | 46200   | 0  | 46200                                    |
| Kapilvastu         | 0   | 16800   | 0  | 16800                                    |
| Dang               | 0   | 28740   | 0  | 28740                                    |
| Banke              | 36000   | 0   | 0  | 36000                                    |
| Bardiya            | 23040   | 0   | 0  | 23040                                    |
| Total Issued       | <b>84240</b>  | <b>273600</b>   | <b>19200</b>   | <b>377040</b>                            |
| PHLMC<br>Received  | <b>84240</b>  | <b>273600</b>   | <b>19200</b>   | <b>377040</b>                            |
| PHLMC Stock        | <b>0</b>  | <b>0</b>  | <b>0</b>   | <b>0</b>                                 |

**Table 21: Covid Vaccine supplied to district in Fiscal Year 2077/2083**

| District        | Covishield Vaccine Issued Dose | Astrazeneca Vaccine Issued Dose | Total Vero Cell Vaccine Issued Dose | Janssen Vaccine Issued Dose | Moderna Vaccine Dose | Adult Pfizer Vaccine Issued Dose | Adult Pfizer Bivalent Issued Dose | Adult Pfizer Monovalent Issued Dose | Pediatric Pfizer Vaccine Issued Dose (5-11Yrs) | Total Vaccine Issued Dose |
|-----------------|--------------------------------|---------------------------------|-------------------------------------|-----------------------------|----------------------|----------------------------------|-----------------------------------|-------------------------------------|--|---------------------------|
| Rukum East      | 37450                          | 23540                           | 21811                               | 3780                        | 13800                | 0                                | 23340                             | 7500                                | 17000  | 148221                    |
| Rolpa           | 47810                          | 56520                           | 180515                              | 31600                       | 61510                | 26910                            | 25620                             | 92880                               | 71400  | 594765                    |
| Pyuthan         | 59910                          | 149160                          | 86870                               | 26550                       | 77070                | 0                                | 82080                             | 56592                               | 77200  | 615432                    |
| Gulmi           | 145250                         | 137150                          | 86541                               | 25800                       | 90520                | 29250                            | 60240                             | 74520                               | 92700  | 741971                    |
| Arghakhachi     | 73870                          | 43920                           | 156299                              | 16000                       | 45100                | 14040                            | 64020                             | 2520                                | 52800  | 468569                    |
| Palpa           | 63980                          | 73670                           | 249388                              | 19500                       | 50140                | 25740                            | 53880                             | 16428                               | 63800  | 616526                    |
| Nawalparasi (W) | 244510                         | 132470                          | 171413                              | 39600                       | 98920                | 35100                            | 69600                             | 50520                               | 97200  | 939333                    |
| Rupendehi       | 113030                         | 232200                          | 1079461                             | 127670                      | 367660               | 143220                           | 86520                             | 76200                               | 288400   | 2514361                   |
| Kapilvastu      | 219430                         | 130750                          | 301600                              | 108750                      | 160570               | 0                                | 51240                             | 25500                               | 189400   | 1187240                   |
| Dang            | 222280                         | 135450                          | 447111                              | 86000                       | 189330               | 3648                             | 97320                             | 40740                               | 198200   | 1420079                   |
| Banke           | 262330                         | 67950                           | 372897                              | 61750                       | 134800               | 43110                            | 146880                            | 31800                               | 162800   | 1284317                   |
| Bardiya         | 260150                         | 173700                          | 182772                              | 41000                       | 148780               | 52650                            | 164460                            | 0                                   | 118300   | 1141812                   |
| Total Issued    | <b>1750000</b>                 | <b>1356480</b>                  | <b>3336678</b>                      | <b>588000</b>               | <b>1438200</b>       | <b>373668</b>                    | <b>925200</b>                     | <b>475200</b>                       | <b>1429200</b>                                 | <b>11672626</b>           |
| PHLMC Received  | <b>1750000</b>                 | <b>1356480</b>                  | <b>3336678</b>                      | <b>588000</b>               | <b>1438200</b>       | <b>373668</b>                    | <b>925200</b>                     | <b>475200</b>                       | <b>1429200</b>                                 | <b>11672626</b>           |
| PHLMC Stock     | 0                              | 0                               | 0                                   | 0                           | 0                    | 0                                | 0                                 | 0                                   | 0  | 0                         |

**Table 22: Syringes & Card Received & Supply status Magh 2077 to Badra 2082 for Covid-19 Campaign**

| S.N. | District    | Syringe & Safety Box |                               |                 |                   |                   |            | Covid Card      |                   |
|------|-------------|----------------------|-------------------------------|-----------------|-------------------|-------------------|------------|-----------------|-------------------|
|      |             | AD Syringe 0.5 ml    | AD Syringe 1 ml for vero cell | 1ml RUP Syringe | AD Syringe 0.2 ml | AD Syringe 0.3 ml | Safety Box | Covid Blue Card | Covid Yellow Card |
| 1    | Rukum East  | 178800               | 8615                          | 20000           | 2000              | 21700             | 1900       | 38750           | 1000              |
| 2    | Rolpa       | 618000               | 34648                         | 80000           | 4000              | 146300            | 4350       | 121650          | 10000             |
| 3    | Pyuthan     | 671200               | 36228                         | 81600           | 4000              | 106100            | 4900       | 183200          | 10500             |
| 4    | Gulmi       | 815000               | 39530                         | 64000           | 26000             | 103200            | 4825       | 164000          | 10000             |
| 5    | Arghakhachi | 567800               | 31170                         | 28000           | 28000             | 73400             | 3100       | 146300          | 5500              |
| 6    | Palpa       | 786600               | 36840                         | 88200           | 0                 | 53100             | 5375       | 196450          | 10000             |

|    |                   |                 |               |               |               |                |              |                |               |
|----|-------------------|-----------------|---------------|---------------|---------------|----------------|--------------|----------------|---------------|
| 7  | Nawalparasi (W)   | 1002600         | 64416         | 21600         | 4000          | 83200          | 6050         | 268975         | 5000          |
| 8  | Rupendehi         | 2707600         | 39217         | 0             | 20300         | 255960         | 17775        | 635325         | 50000         |
| 9  | Kapilvastu        | 1458600         | 105500        | 2400          | 88000         | 98900          | 9000         | 383850         | 11500         |
| 10 | Dang              | 1711800         | 17291         | 13200         | 22000         | 96608          | 10700        | 458825         | 24000         |
| 11 | Banke             | 1452800         | 17265         | 25000         | 8000          | 158600         | 10100        | 311450         | 31500         |
| 12 | Bardiya           | 1357000         | 70480         | 0             | 12000         | 150800         | 9800         | 279525         | 21000         |
|    | Total Issued      | <b>13327800</b> | <b>501200</b> | <b>424000</b> | <b>218300</b> | <b>1347868</b> | <b>87875</b> | <b>3188300</b> | <b>190000</b> |
|    | PHLMC<br>Received | <b>14470200</b> | <b>501200</b> | <b>424000</b> | <b>230000</b> | <b>1355068</b> | <b>87875</b> | <b>3188300</b> | <b>190000</b> |
|    | PHLMC Stock       | 1142400         | 0             |               | 11700         | 7200           | 0            | 0              | 0             |

## Chapter 5: Logistics Supply

### 5.1 Remote Temperature Monitoring Device (RTMD)

Temperature monitoring is very sensitive part for cold chain & vaccine management, so RTMD is a device used to monitor temperature status of cold chain equipment how this is performing and stored vaccine is in recommended temperature. These devices are installed at Province and 12 district vaccine store and we can monitor these devices remotely.

**Table 23: Remote Temperature Monitoring Device (RTMD)**

| S.N. | District         | RTMD Installation | Remarks                    |
|------|------------------|-------------------|----------------------------|
| 1    | Rukum East       | 1 Set             | Installed in 5 ILR         |
| 2    | Rolpa            | 1 Set             | Installed in 5 ILR         |
| 3    | Pyuthan          | 1 Set             | Installed in 5 ILR         |
| 4    | Gulmi            | 1 Set             | Installed in 5 ILR         |
| 5    | Arghakhanchi     | 1 Set             | Installed in 5 ILR         |
| 6    | Palpa            | 1 Set             | Installed in 5 ILR         |
| 7    | Nawalparasi West | 1 Set             | Installed in 5 ILR         |
| 8    | Rupandehi        | 1 Set             | Installed in WIC and 3 ILR |
| 9    | Kapilvastu       | 1 Set             | Installed in 5 ILR         |
| 10   | Dang             | 1 Set             | Installed in WIC and 3 ILR |
| 11   | Banke            | 1 Set             | Installed in 5 ILR         |
| 12   | Bardiya          | 1 Set             | Installed in 5 ILR         |
| 13   | PHLMC            | 4 Set             | Installed in 4 WIC         |

### 5.2 Laptop & Dashboard Supply Detail

On PHLMC demand, UNICEF have handover 147 Laptop and 6 Monitor to PHLMC and these are supplied to Province, Health Office, Hospital and Palika to support on health system strengthening.

**Table 24: Laptop & Dashboard Supply Detail**

| S.N | Name                       | Total # of Laptop | Dashboard Screen | Remarks |
|-----|----------------------------|-------------------|------------------|---------|
| 1   | Ministry of Health,lumbini | 5                 | -                |         |
| 2   | Health Directorate,Lumbini | 6                 | 1                |         |

|   |   |            |               |   |
|---|---|------------|---------------|---|
| 3   | Provincial Health Logistic Management Centre(PHLMC),Lumbini   | 2          | 1             | For DHIS/eLMIS support  |
|   |   | 13         | 2             |   |
| <b>For Strengthening District and Palika Level' DHIS and ELMIS System</b> |   | <b>HO</b>  | <b>Palika</b> |   |
| 1   | Health Office, Rupandehi                                      | 2          | 16            | For DHIS/eLMIS support (For Health Office Supply-1 laptop for Statistical Section & 1 for Cold Chain Section) |
| 2   | Health Office,Nawalparasi West                                | 2          | 7             |   |
| 3   | Health Office, Kapilvastu                                     | 2          | 10            |   |
| 4   | Health Office, Gulmi  | 2          | 12            |   |
| 5   | Health Office, Palpa  | 2          | 10            |   |
| 6   | Health Office, Arghakhanchi                                   | 2          | 6             |   |
| 7   | Health Office, Dang   | 2          | 10            |   |
| 8   | Health Office, Pyuthan  | 2          | 6             |   |
| 9   | Health Office of Rolpa  | 2          | 7             |   |
| 10  | Health Office,Rukum east                                      | 2          | 3             |   |
| 11  | Health Office, Banke  | 2          | 8             |   |
| 12  | Health Office, Bardiya  | 2          | 8             |   |
| <b>Total</b>  |   | <b>24</b>  | <b>103</b>    |   |
| <b>For Immunization and MNH Service Strengthen</b>                        |   |            |               | MNH/MPDSR Support   |
| 1   | Shivara Municipality,Health Section, Kapilvastu               | 1          | 1             | <b>EPI Clinic</b>   |
| 2   | Lumbini Provincial Hospital,Butwal,Nursing Section,Rupandehi  | 1          | 1             | <b>EPI Clinic</b>   |
| 3   | Prithibichandra Hospital,Nawalparasi                          | 1          |               | MRD-Section   |
| 4   | Arghakhanchi District Hospital, Nursing Section, Arghakhanchi | 1          |               | MNH Service   |
| 5   | Shivaraj Hospital,Bahadurgunj, Kapilvastu,Nursing Section     | 1          |               | MNH Service   |
| 6   | Butwal Sub-Metropolitan,Health Section,Rupandehi              | 0          | 1             | DashBoard   |
| 7   | Kohalpur Municipality, Health Section, Banke                  | 0          | 1             | DashBoard   |
| 8   | Bansgadhi Municipality, Health section, Bardiya               | 1          |               | DashBoard   |
| 9   | Bardaghat Municipality, Health Section, Nawalparasi           | 1          |               | EPI Clinic  |
|   |   | 7          | 4             |   |
| <b>Total</b>  |   | <b>147</b> | <b>6</b>      |   |

## Chapter 6: Vaccine Storage Capacity

### 6.1 Cold Chain Inventory and Vaccine Storage Capacity

This is a detail of cold chain equipment available and functional at PHLMC that shows provincial storage capacity which is sufficient for storage Routine Immunization Vaccine and Supplementary vaccine when necessary and also for emergency response.

**Table 25: Provincial Vaccine Storage Capacity**

| PHLMC Cold Chain Capacity with Dry Store Volume |                  |                     |                         |                      |              |                |       |                      |                      |                                 |                           |         |
|---|------------------|---------------------|-------------------------|----------------------|--------------|----------------|-------|----------------------|----------------------|---------------------------------|---------------------------|---------|
| S.N.  | Type of CCE      | Model               | Serial Number           | Manufacturer Company | PIS/POS Code | Capacity (Ltr) |       | Date of Installation | Functionality Status | Commodity Storage               | Temp. Monitoring Device   | Remarks |
|   |                  |                     |                         |                      |              | Plus           | Minus |                      |                      |                                 |                           |         |
| 1   | Walk-In-Cooler   | WICR 15m3           |                         | Cold Bank            | WICFR        | 3750           |       | 2068                 | Functional           | Oxytocin                        | Fridge Tag, RTMD          |         |
| 2   |                  | WICR 15m3           |                         | Haier                | WICFR        | 3750           |       | 2075                 | Functional           |                                 | Fridge Tag, RTMD          |         |
| 3   |                  | WICR 40m3           |                         | Haier                | WICFR        | 9524           |       | 2079                 | Functional           | All Routine Vaccine except BOPV | Fridge Tag, RTMD          |         |
| 4   |                  | WICR 40m3           |                         | Foster               | WICFR        | 9524           |       | 2079                 | Functional           |                                 | Fridge Tag, RTMD          |         |
| 5   | ILR              | VLS 504A AC         | 20232504559             | Vestfrost Solutions  | PQS E003/113 | 242            |       | 2081                 | Functional           |                                 | Fridge Tag                |         |
| 6   |                  | VLS 504A AC         | 20232504478             | Vestfrost Solutions  | PQS E003/113 | 242            |       | 2081                 | Functional           | Anti Rabies Vaccine             | Fridge Tag                |         |
| 7   |                  | VLS 504A AC         | 20232504491             | Vestfrost Solutions  | PQS E003/113 | 242            |       | 2081                 | Functional           |                                 | Fridge Tag                |         |
| 8   | Deep Freezer     | HBD 286             | BE04F 0GAS0 0QELC N0075 | Haier                | PQS E003/003 |                | 298   | 2079                 | Functional           | BOPV                            | Thermometer               |         |
| 9   |                  | HBD 286             | BE04F 0GAS0 0QELC N0067 | Haier                | PQS E003/003 |                | 298   | 2079                 | Functional           |                                 | Thermometer               |         |
| 10  |                  | HBD 286             | BE04F 0GAS0 0QEM1 V0030 | Haier                | PQS E003/003 |                | 298   | 2081                 | Functional           |                                 | Thermometer               |         |
| 11  |                  | HBD 286             | BE04F 0GAS0 0QEM1 V0123 | Haier                | PQS E003/003 |                | 298   | 2081                 | Functional           |                                 | Thermometer               |         |
| 12  |                  | MF 314              | 20231525033             | Vestfrost Solutions  | PQS E003/023 |                | 281   | 2081                 | Functional           |                                 | Fridge Tag                |         |
| 13  |                  | MF 314              | 20231525048             | Vestfrost Solutions  | PQS E003/023 |                | 281   | 2081                 | Functional           |                                 | Fridge Tag                |         |
| 14  |                  | HBD 286             | BE04F 4E260 0QEH8 20003 | Haier                | PQS E003/003 |                | 298   | 2076                 | Functional           | Ice Pack                        | Thermometer               |         |
| 15  |                  | MF 304              | 74114192                | Vestfrost Solutions  | PQS E003/023 |                | 282   | 2062                 | Functional           | Production & Storage            | Thermometer               |         |
| 16  | Ice Pack Freezer | TFW 791             | 17044                   | Electrolux           | Non PQ       |                | 145   | 2062                 | Functional           |                                 | Thermometer               |         |
| 17  | Cold Box         | RCW 25              |                         | B Medical System     | PQS E004/005 | 18             |       | 2071                 | Functional           | 8 Cold Box                      | For PHLMC use             |         |
| 18  | Cold Box         | ACB 264 SL          |                         | AOV International    | PQS E004/023 | 6              |       | 2072                 | Functional           | 7 Cold Box                      | For PHLMC use             |         |
| 19  | Vaccine Carrier  | BDVC 46             |                         | Nilkamal Ltd         | PQS E004/055 | 3.36           |       | 2079                 | Functional           | 947 Carrier                     | Stored for Supply Purpose |         |
| 20  | Generator        | Koel Green 62.5 KVA |                         | Kirloskar            | N/A          |                |       | 2078                 | Functional           | 1 Generator                     | For PHLMC use             |         |

**Table 26: Volume calculation for RI Vaccine**

| Volume Calculation for RI Vaccine                    |                     |                       |                            |                            |                         |                        |             |                         |                       |                                  |                       |         |
|--|---------------------|-----------------------|----------------------------|----------------------------|-------------------------|------------------------|-------------|-------------------------|-----------------------|----------------------------------|-----------------------|---------|
| S.N.   | Name of Vaccine     | Packing Dose Per Vial | Volume per Dose (Cm3/dose) | Volume Per Vial (Cm3/Vial) | Volume Per Vial (Litre) | Available Volume (Ltr) |             | Minimum Stock (3 month) | Required Volume (Ltr) | Maximum Stock stored (4.5 month) | Required Volume (Ltr) | Remarks |
|  |                     |                       |                            |                            |                         | Plus                   | Minus       |                         |                       |                                  |                       |         |
| 1  | BCG Vaccine         | 20                    | 1.305                      | 26.1                       | 0.0261                  | 23040                  | 1754        | 9660                    | 252.1                 | 14490                            | 378.2                 |         |
| 2  | Rota Vaccine        | 1                     | 11.8                       | 11.8                       | 0.0118                  |                        |             | 47011                   | 554.7                 | 70516                            | 832.1                 |         |
| 3  | FIPV Vaccine        | 5                     | 15.7                       | 78.5                       | 0.0785                  |                        |             | 9660                    | 758.3                 | 14490                            | 1137.5                |         |
| 4  | PCV Vaccine         | 4                     | 2.4                        | 9.6                        | 0.0096                  |                        |             | 18636                   | 178.9                 | 27955                            | 268.4                 |         |
| 5  | DPT+ Hep-B+Hib V    | 10                    | 2.109                      | 21.09                      | 0.02109                 |                        |             | 7925                    | 167.1                 | 11887                            | 250.7                 |         |
| 6  | MR Vaccine          | 10                    | 2.109                      | 21.09                      | 0.02109                 |                        |             | 9660                    | 203.7                 | 14490                            | 305.6                 |         |
| 7  | JE Vaccine          | 5                     | 4.2                        | 21                         | 0.021                   |                        |             | 9660                    | 202.9                 | 14490                            | 304.3                 |         |
| 8  | Typhoid Vaccine     | 5                     | 14.6                       | 73                         | 0.073                   |                        |             | 4794                    | 350.0                 | 7191                             | 524.9                 |         |
| 9  | Td Vaccine          | 10                    | 2.9                        | 29                         | 0.029                   |                        |             | 6481                    | 187.9                 | 9721                             | 281.9                 |         |
| 10   | HPV Vaccine         | 1                     | 12.4                       | 12.4                       | 0.0124                  |                        |             | 37917                   | 470.2                 | 72817                            | 902.9                 |         |
| <b>Net Vaccine Storage Capacity</b>                  |                     |                       |                            |                            |                         | <b>15206</b>           | <b>1158</b> | <b>161404</b>           | <b>3326</b>           | <b>258047</b>                    | <b>5186</b>           |         |
| Volume Calculation for Oxytocin, ARV & Other Vaccine |                     |                       |                            |                            |                         |                        |             |                         |                       |                                  |                       |         |
| 1  | Anti Rabies Vaccine | 1                     | 10.54                      | 10.54                      | 0.01054                 | 4234                   |             | 6000                    | 63.2                  | 72000                            | 758.9                 |         |
| 2  | Oxytocin            | 1                     | 17.595                     | 17.595                     | 0.017595                |                        |             | 40000                   | 703.8                 | 150000                           | 2639.3                |         |
| 3  | Amphotericin B      | 1                     | 183.75                     | 183.75                     | 0.18375                 |                        |             | 600                     | 110.3                 | 3000                             | 551.3                 |         |
| <b>Storage Capacity for other vaccines</b>           |                     |                       |                            |                            |                         | <b>2794</b>            |             | <b>46600</b>            | <b>877</b>            | <b>225000</b>                    | <b>3949</b>           |         |

This is a calculation of dry storage volume of provincial stores for storage of Diluent and Ad Syringe and other EPI logistics. There is some more space required for dry storage that is not sufficient to store logistic for a year.

**Table 27: Volume calculation for Dry Storage**

| Volume Calculation for Dry Storage |  |                         |                                      |                         |                        |                        |                      |                          |                        |                          |
|------------------------------------|--|-------------------------|--------------------------------------|-------------------------|------------------------|------------------------|----------------------|--------------------------|------------------------|--------------------------|
| S.N.                               | Name of Syringe                          | Primary Packing per ctn | Volume per carton (cm <sup>3</sup> ) | Volume per carton (Ltr) | Volume per Piece (Ltr) | Available Volume (Ltr) | Min. Stock (3 month) | Min. Vol. Required (Ltr) | Max. Stock (4.5 month) | Max. Vol. Required (Ltr) |
| 1                                  | Ad Syr 0.05 ml                           | 3000                    | 112240                               | 112.24                  | 0.037413333            | 48931                  | 29197                | 1092.36                  | 43796                  | 1638.55                  |
| 2                                  | AD Syr 0.1 ml                            | 3000                    | 112240                               | 112.24                  | 0.037413333            |                        | 51854                | 1940.03                  | 77781                  | 2910.05                  |
| 3                                  | AD Syr 0.5 ml                            | 2000                    | 92442                                | 92.442                  | 0.046221               |                        | 311125               | 14380.51                 | 466688                 | 21570.79                 |
| 4                                  | Rec. Syr 5 ml                            | 1200                    | 51584                                | 51.584                  | 0.042986667            |                        | 19727                | 848.00                   | 29590                  | 1271.98                  |
| 5                                  | Rec. Syr 2 ml                            | 1200                    | 51584                                | 51.584                  | 0.042986667            |                        | 9863                 | 423.98                   | 14795                  | 635.99                   |
| 6                                  | Safety Box 5 Ltr                         | 25                      | 13671                                | 13.671                  | 0.54684                |                        | 4218                 | 2306.57                  | 6327                   | 3459.86                  |
|                                    |  |                         |                                      |                         |                        |                        |                      | <b>20991.44</b>          |                        | <b>31487.21</b>          |
|                                    | 1 liter is equal to 0.0353147 cubic feet |                         |                                      | Volume in cubic feet    |                        | 1727.98                |                      | 741.31                   |                        | 1111.96                  |
| 1                                  | BCG Diluent                              | 1200                    | 89199                                | 89.199                  | 0.0743325              | 2066                   | 8886                 | 660.52                   | 13329                  | 990.78                   |
| 2                                  | MR Diluent                               | 1200                    | 46546                                | 46.546                  | 0.038788333            |                        | 8886                 | 344.67                   | 13329                  | 517.01                   |
| 3                                  | JE Diluent                               | 2000                    | 20956                                | 20.956                  | 0.010478               |                        | 8886                 | 93.11                    | 13329                  | 139.66                   |
|                                    |  |                         |                                      |                         |                        |                        |                      | <b>1098.30</b>           |                        | <b>1647.45</b>           |
|                                    | 1 cubic feet is equal to 28.317 Ltr      |                         |                                      | Volume in Liter         |                        | 72.96                  |                      | 38.79                    |                        | 58.18                    |

## 6.2 District level cold chain capacity

Below table is a volume of District Vaccine Store with equipment detail with number and capacity. Based on district volume and target population this available volume is sufficient for district to store routine vaccine and other vaccine if necessary.

**Table 28: District Cold Chain Capacity**

| District Cold Chain Capacity |                       |                   |                 |                   |                 |                    |                |                     |                 |                           |                                      |
|------------------------------|-----------------------|-------------------|-----------------|-------------------|-----------------|--------------------|----------------|---------------------|-----------------|---------------------------|--------------------------------------|
| S.N                          | Supply Chain Levels   | WIC (+2 to +8° C) |                 | ILR (+2 to +8° C) |                 | DF (-15 to -25° C) |                | IPF (-15 to -25° C) |                 | ILR (+2 to +8° C)         | Volume consumed for RI (+2 to +8° C) |
|                              |                       | Number            | CC Volume (Ltr) | Number            | CC Volume (Ltr) | Number             | CC Volume      | Number              | CC Volume (Ltr) | Available CC Volume (Ltr) |                                      |
| 1                            | PHLMC Butwal          | 4                 | 26548           | 3                 | 726             | 8                  | 2334           | 1                   | 145             | 18000.84                  | 4483                                 |
| 2                            | Rukum East            | 0                 | 0               | 5                 | 728.5           | 3                  | 810.5          | 1                   | 145             | 480.81                    | 32                                   |
| 3                            | Rolpa                 | 0                 | 0               | 6                 | 1105            | 3                  | 739            | 1                   | 145             | 729.3                     | 125                                  |
| 4                            | Pyuthan               | 0                 | 0               | 6                 | 1285            | 3                  | 739            | 0                   | 0               | 848.1                     | 141                                  |
| 5                            | Gulmi                 | 0                 | 0               | 5                 | 145             | 4                  | 889            | 2                   | 290             | 95.7                      | 175                                  |
| 6                            | Arghakanchi           | 0                 | 0               | 5                 | 1016            | 2                  | 583            | 2                   | 290             | 670.56                    | 108                                  |
| 7                            | Palpa                 | 0                 | 0               | 6                 | 1139            | 3                  | 845            | 0                   | 0               | 751.74                    | 158                                  |
| 8                            | Nawalparasi West      | 0                 | 0               | 6                 | 1136            | 3                  | 763            | 2                   | 290             | 749.76                    | 157                                  |
| 9                            | Rupandehi             | 1                 | 3750            | 4                 | 661             | 4                  | 889            | 2                   | 290             | 2911.26                   | 432                                  |
| 10                           | Kapilvastu            | 0                 | 0               | 7                 | 1340            | 4                  | 1021           | 1                   | 145             | 884.4                     | 290                                  |
| 11                           | Dang                  | 1                 | 3750            | 6                 | 847             | 3                  | 763            | 1                   | 145             | 3034.02                   | 275                                  |
| 12                           | Banke                 | 0                 | 0               | 7                 | 1481            | 4                  | 963            | 0                   | 0               | 977.46                    | 249                                  |
| 13                           | Bardiya               | 0                 | 0               | 9                 | 1676            | 3                  | 706            | 1                   | 145             | 1106.16                   | 203                                  |
|                              | <b>Total Capacity</b> | <b>7</b>          | <b>11250</b>    | <b>75</b>         | <b>13285.5</b>  | <b>47</b>          | <b>12044.5</b> | <b>14</b>           | <b>2030</b>     | <b>31240.11</b>           | <b>6828</b>                          |

### 6.3 Palika level Vaccine Storage Capacity

This is a detail of cold chain equipment with storage capacity at palika level vaccine store. Among 109 palika there are 111 vaccine distribution point for vaccine supply management. All palika have sufficient vaccine storage capacity for routine immunization.

*Table 29: Palika level vaccine storage*

| Cold Chain Capacity below District Level |                     |               |                            |                   |                 |                    |                 |
|--|---------------------|---------------|----------------------------|-------------------|-----------------|--------------------|-----------------|
| S.N.                                     | Supply Chain Levels | No. of Palika | Vaccine Distribution Point | ILR (+2 to +8° C) |                 | DF (-15 to -25° C) |                 |
|  |                     |               |                            | Number            | CC Volume (Ltr) | Number             | CC Volume (Ltr) |
| 1  | Rukum East          | 3             | 4                          | 4                 | 340             | 3                  | 681             |
| 2  | Rolpa               | 10            | 10                         | 10                | 790             | 10                 | 822             |
| 3  | Pyuthan             | 9             | 9                          | 9                 | 365             | 9                  | 961             |
| 4  | Gulmi               | 12            | 14                         | 16                | 1058            | 14                 | 1109            |
| 5  | Arghakanchi         | 6             | 7                          | 7                 | 471             | 7                  | 687             |
| 6  | Palpa               | 10            | 9                          | 9                 | 844             | 9                  | 962             |
| 7  | Nawalparasi West    | 7             | 7                          | 7                 | 833             | 7                  | 581             |
| 8  | Rupandehi           | 16            | 17                         | 22                | 2215            | 17                 | 1802            |
| 9  | Kapilvastu          | 10            | 10                         | 20                | 1640            | 10                 | 1431            |
| 10                                       | Dang                | 10            | 9                          | 13                | 1068            | 9                  | 1101            |
| 11                                       | Banke               | 8             | 8                          | 10                | 997             | 8                  | 1235            |
| 12                                       | Bardiya             | 8             | 7                          | 13                | 1179            | 7                  | 1142            |
| <b>Total Capacity</b>                    |                     | <b>109</b>    | <b>111</b>                 | <b>140</b>        | <b>11800</b>    | <b>110</b>         | <b>12514</b>    |

### 6.4 List of Vaccine Distribution Center

*Table 30: Vaccine Distribution Center*

| District      | No. of Palika | Vaccine Distribution Center | CCE available site |
|---------------|---------------|-----------------------------|--------------------|
| Rukum East    | 3             | 4                           | 4                  |
| Rolpa         | 10            | 10                          | 10                 |
| Pyuthan       | 9             | 9                           | 8                  |
| Gulmi         | 12            | 12                          | 12                 |
| Arghakhanchi  | 6             | 5                           | 5                  |
| Palpa         | 10            | 9                           | 7                  |
| Nawalparasi W | 7             | 6                           | 6                  |
| Rupandehi     | 16            | 16                          | 16                 |
| Kapilvastu    | 10            | 10                          | 10                 |
| Dang          | 10            | 9                           | 7                  |
| Banke         | 8             | 6                           | 6                  |
| Bardiya       | 8             | 7                           | 7                  |
| Total         | 109           | 101                         | 95                 |

## 6.5 Cold Chain Equipment Distribution Status (CCEOP)

Table 31: Cold Chain Equipment Supplied at District Vaccine Store

| District         | Year 2022 (Covid) |          | Year 2024 (CCEOP) |          |           |          | Year 2024<br>RTMD |
|------------------|-------------------|----------|-------------------|----------|-----------|----------|-------------------|
|                  | ILR               | Capacity | ILR               | Capacity | Freezer   | Capacity |                   |
| Rukum East       | 1                 | 70       | 2                 | 242      | 1         | 281      | 1                 |
| Rolpa            | 1                 | 70       | 2                 | 242      | 1         | 281      | 1                 |
| Pyuthan          | 1                 | 240      | 2                 | 242      | 1         | 281      | 1                 |
| Gulmi            |                   |          | 2                 | 242      | 1         | 281      | 1                 |
| Arghakhanchi     | 1                 | 211      | 2                 | 242      | 1         | 281      | 1                 |
| Palpa            | 1                 | 211      | 2                 | 242      | 1         | 281      | 1                 |
| Nawalparasi West | 1                 | 211      | 2                 | 242      | 1         | 281      | 1                 |
| Rupandehi        | 1                 | 211      |                   |          | 1         | 281      | 1                 |
| Kapilvastu       | 1                 | 211      | 2                 | 242      | 1         | 281      | 1                 |
| Dang             | 1                 | 211      |                   |          | 1         | 281      | 1                 |
| Banke            | 1                 | 211      | 2                 | 242      | 1         | 281      | 1                 |
| Bardiya          | 1                 | 211      | 2                 | 242      | 1         | 281      | 1                 |
| PHLMC            | 2                 | 10000    |                   |          | 2         | 281      | 4                 |
| <b>Total</b>     | <b>13</b>         |          | <b>20</b>         |          | <b>14</b> |          | <b>16 Set</b>     |

Table 32: Cold Chain Equipment Supplied at Palika level Vaccine Store

| District         | Year 2019 |     |    | Year 2021 |     |    | Year 2024 |     |    |
|------------------|-----------|-----|----|-----------|-----|----|-----------|-----|----|
|                  | Site      | ILR | DF | Site      | ILR | DF | Site      | ILR | DF |
| Rukum East       |           |     |    |           |     |    | 2         | 2   | 1  |
| Rolpa            |           |     |    | 4         | 3   | 1  | 7         | 4   | 6  |
| Pyuthan          | 1         | 1   | 1  | 4         | 3   | 3  | 5         | 2   | 5  |
| Gulmi            |           |     |    | 11        | 9   | 7  | 3         | 2   | 2  |
| Arghakhanchi     | 3         | 3   | 3  | 2         | 2   | 3  | 1         | 1   | 1  |
| Palpa            | 2         | 2   | 1  | 3         | 3   | 2  | 6         | 3   | 6  |
| Nawalparasi West |           |     |    |           |     |    | 5         | 4   | 4  |
| Rupandehi        | 4         | 4   | 4  | 8         | 6   | 6  | 5         | 3   | 4  |
| Kapilvastu       | 6         | 6   | 4  | 5         | 5   | 4  |           |     |    |

|              |           |           |           |           |           |           |           |           |           |
|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Dang         |           |           |           | 5         | 3         | 3         | 6         | 4         | 4         |
| Banke        |           |           |           | 2         | 2         | 1         | 6         | 4         | 4         |
| Bardiya      | 5         | 5         | 1         | 2         | 2         | 1         | 3         | 1         | 2         |
| <b>Total</b> | <b>21</b> | <b>21</b> | <b>14</b> | <b>46</b> | <b>38</b> | <b>31</b> | <b>49</b> | <b>30</b> | <b>39</b> |

**Note:**

- Total ILR Supplied 89
- Total Deep Freezer Supplied 84
- Total Supplied Site 111

## Chapter 7: Stock Management and Reporting Status

### 7.1 Distribution Plan for Immunization 2081/82

*Table 33: Distribution Plan for Immunization Logistic 2081/82*

| S.N | District           | No. of Ward | No. of HFs | Needle Cutter | Immunization Chart | Full Immunization Card | Ice Pack 0.6 ml | Ice Pack 0.4 ml | Zip Lock Bag | Foam Pad   |
|-----|--------------------|-------------|------------|---------------|--------------------|------------------------|-----------------|-----------------|--------------|------------|
| 1   | Rukum East         | 31          | 16         | 18            | 100                | 1000                   | 144             | 216             | 10           | 20         |
| 2   | Rolpa              | 72          | 52         | 52            | 100                | 1500                   | 288             | 216             | 25           | 50         |
| 3   | Pyuthan            | 64          | 49         | 49            | 100                | 2000                   | 288             | 216             | 30           | 45         |
| 4   | Gulmi              | 93          | 81         | 81            | 100                | 2500                   | 432             | 216             | 40           | 80         |
| 5   | Arghakhanchi       | 61          | 43         | 43            | 100                | 2000                   | 144             | 216             | 20           | 40         |
| 6   | Palpa              | 81          | 66         | 66            | 100                | 2000                   | 288             | 216             | 25           | 65         |
| 7   | Nawalparasi West   | 74          | 40         | 0             | 100                | 3000                   | 288             | 216             | 20           | 40         |
| 8   | Rupandehi          | 155         | 74         | 1             | 100                | 4000                   | 432             | 0               | 41           | 75         |
| 9   | Kapilvastu         | 96          | 78         | 0             | 100                | 3000                   | 432             | 0               | 50           | 60         |
| 10  | Dang               | 100         | 40         | 0             | 100                | 3000                   | 288             | 216             | 25           | 40         |
| 11  | Banke              | 81          | 49         | 0             | 100                | 3000                   | 288             | 216             | 35           | 50         |
| 12  | Bardiya            | 75          | 35         | 0             | 100                | 3000                   | 288             | 216             | 25           | 35         |
|     | <b>Total</b>       | <b>983</b>  | <b>623</b> | <b>310</b>    | <b>1200</b>        | <b>30000</b>           | <b>3600</b>     | <b>2160</b>     | <b>346</b>   | <b>600</b> |
|     | <b>PHLMC Stock</b> |             |            | <b>312</b>    | <b>1400</b>        | <b>30000</b>           | <b>3744</b>     | <b>2160</b>     | <b>430</b>   | <b>600</b> |
|     | <b>Remaining</b>   |             |            | <b>2</b>      | <b>200</b>         | <b>0</b>               | <b>144</b>      | <b>0</b>        | <b>84</b>    | <b>0</b>   |

## 7.2 Reporting Status of District

This is a reporting rate status of monthly report received from district that include detail of vaccine received , supplied and sock balance of month that analyses demand for next month.

**Table 34: Monthly Report received rate**

| District          | Shra wan  | Bha dra   | Ash win   | Kar tik   | Mang shir | Pou sh    | Ma gh     | Falg un   | Chai tra  | Baish akh | Jest ha   | As har    | Rep ort  | Repor ting Rate % |
|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-------------------|
| Rukum East        | Yes       | Yes       | Yes       | Yes       | Yes       | Yes       | Ye s      | Yes       | Yes       | Yes       | Yes       | Yes       | 12       | 100               |
| Rolpa             | Yes       | Yes       | Yes       | Yes       | Yes       | Yes       | Ye s      | Yes       | Yes       | Yes       | Yes       | Yes       | 12       | 100               |
| Pyuthan           | Yes       | Yes       | Yes       | Yes       | Yes       | Yes       | Ye s      | Yes       | Yes       | Yes       | Yes       | Yes       | 12       | 100               |
| Gulmi             | Yes       | Yes       | Yes       | Yes       | Yes       | Yes       | Ye s      | Yes       | Yes       | Yes       | Yes       | Yes       | 12       | 100               |
| Arghak anchi      | Yes       | Yes       | Yes       | Yes       | Yes       | Yes       | Ye s      | Yes       | Yes       | Yes       | Yes       | Yes       | 12       | 100               |
| Palpa             | Yes       | Yes       | Yes       | Yes       | Yes       | Yes       | Ye s      | Yes       | Yes       | Yes       | Yes       | Yes       | 12       | 100               |
| Nawalp arasi West | Yes       | Yes       | Yes       | Yes       | Yes       | Yes       | Ye s      | Yes       | Yes       | Yes       | Yes       | Yes       | 12       | 100               |
| Rupand ehi        | Yes       | Yes       | Yes       | Yes       | Yes       | Yes       | Ye s      | Yes       | Yes       | Yes       | Yes       | Yes       | 12       | 100               |
| Kapilva stu       | <b>No</b> | <b>No</b> | <b>No</b> | <b>No</b> | <b>No</b> | <b>No</b> | <b>No</b> | <b>No</b> | <b>No</b> | <b>No</b> | <b>No</b> | <b>No</b> | <b>0</b> | <b>0</b>          |
| Dang              | Yes       | Yes       | Yes       | Yes       | Yes       | Yes       | Ye s      | Yes       | Yes       | Yes       | Yes       | Yes       | 12       | 100               |
| Banke             | <b>No</b> | <b>No</b> | <b>No</b> | <b>No</b> | <b>No</b> | <b>No</b> | <b>No</b> | <b>No</b> | <b>No</b> | <b>No</b> | <b>No</b> | <b>No</b> | <b>0</b> | <b>0</b>          |
| Bardiya           | Yes       | Yes       | Yes       | Yes       | Yes       | Yes       | Ye s      | Yes       | Yes       | Yes       | Yes       | Yes       | 12       | 100               |
| Total             |           |           |           |           |           |           |           |           |           |           |           |           | 120      | 83                |

### 7.3 Hafa & Dakhila Record

This is a record of every transaction (Hafa and Dakhila) as how many hafa created for the site and how many dakhila received for this hafa.

*Table 35: District Wise Hafa and Dakhila*

| Month    | Rukum |         |            | Rolpa |         |            | Pyuthan |         |            | Gulmi |         |            |
|----------|-------|---------|------------|-------|---------|------------|---------|---------|------------|-------|---------|------------|
|          | Hafa  | Dakhila | Received % | Hafa  | Dakhila | Received % | Hafa    | Dakhila | Received % | Hafa  | Dakhila | Received % |
| Shrawan  | 1     | 1       | 100        | 0     | 0       | 0          | 0       | 0       | 0          | 1     | 1       | 100        |
| Bhadra   | 3     | 3       | 100        | 1     | 1       | 100        | 1       | 1       | 100        | 2     | 1       | 50         |
| Ashwin   | 3     | 3       | 100        | 3     | 3       | 100        | 2       | 2       | 100        | 2     | 2       | 100        |
| Kartik   | 1     | 1       | 100        | 0     | 0       | 0          | 2       | 2       | 100        | 1     | 1       | 100        |
| Mangshir | 1     | 1       | 100        | 2     | 2       | 100        | 2       | 2       | 100        | 2     | 2       | 100        |
| Poush    | 2     | 2       | 100        | 3     | 3       | 100        | 0       | 0       | 0          | 1     | 1       | 100        |
| Magh     | 4     | 4       | 100        | 1     | 1       | 100        | 2       | 2       | 100        | 3     | 3       | 100        |
| Falgun   | 0     | 0       | 0          | 2     | 2       | 100        | 3       | 3       | 100        | 3     | 3       | 100        |
| Chaitra  | 1     | 1       | 100        | 1     | 1       | 100        | 1       | 1       | 100        | 1     | 1       | 100        |
| Baishakh | 1     | 1       | 100        | 0     | 0       | 0          | 1       | 1       | 100        | 0     | 0       | 100        |
| Jestha   | 0     | 0       | 0          | 1     | 1       | 100        | 1       | 1       | 100        | 3     | 3       | 100        |
| Ashar    | 1     | 1       | 100        | 0     | 0       | 0          | 3       | 3       | 100        | 1     | 1       | 100        |
| Total    | 18    | 18      | 100        | 14    | 14      | 100        | 18      | 18      | 100        | 20    | 19      | 95         |

| Month    | Palpa |         |            | Arghakhanchi |         |            | Nawalparasi |         |            | Rupandehi |         |            |
|----------|-------|---------|------------|--------------|---------|------------|-------------|---------|------------|-----------|---------|------------|
|          | Hafa  | Dakhila | Received % | Hafa         | Dakhila | Received % | Hafa        | Dakhila | Received % | Hafa      | Dakhila | Received % |
| Shrawan  | 1     | 1       | 100        | 3            | 3       | 100        | 1           | 1       | 100        | 4         | 4       | 100        |
| Bhadra   | 3     | 2       | 66.6       | 2            | 2       | 100        | 2           | 2       | 100        | 6         | 6       | 100        |
| Ashwin   | 2     | 2       | 100        | 4            | 4       | 100        | 2           | 2       | 100        | 7         | 7       | 100        |
| Kartik   | 1     | 0       | 0          | 2            | 1       | 50         | 1           | 1       | 100        | 5         | 5       | 100        |
| Mangshir | 2     | 2       | 100        | 2            | 2       | 100        | 2           | 2       | 100        | 4         | 4       | 100        |

|          |    |    |      |    |    |     |    |    |     |    |    |     |
|----------|----|----|------|----|----|-----|----|----|-----|----|----|-----|
| Poush    | 2  | 2  | 100  | 2  | 2  | 100 | 1  | 1  | 100 | 6  | 6  | 100 |
| Magh     | 2  | 2  | 100  | 3  | 3  | 100 | 3  | 3  | 100 | 5  | 5  | 100 |
| Falgun   | 2  | 2  | 100  | 2  | 2  | 100 | 2  | 2  | 100 | 4  | 4  | 100 |
| Chaitra  | 2  | 2  | 100  | 1  | 1  | 100 | 1  | 1  | 100 | 4  | 4  | 100 |
| Baishakh | 1  | 1  | 100  | 1  | 1  | 100 | 1  | 1  | 100 | 4  | 4  | 100 |
| Jestha   | 1  | 1  | 100  | 1  | 0  | 0   | 2  | 2  | 100 | 5  | 5  | 100 |
| Ashar    | 0  | 0  | 0    | 2  | 0  | 0   | 1  | 0  | 0   | 6  | 6  | 100 |
| Total    | 19 | 17 | 89.5 | 25 | 21 | 84  | 19 | 18 | 95  | 60 | 60 | 100 |

| Month    | Kapilbastu |         |            | Dang |         |            | Banke |         |            | Bardiya |         |            |
|----------|------------|---------|------------|------|---------|------------|-------|---------|------------|---------|---------|------------|
|          | Hafa       | Dakhila | Received % | Hafa | Dakhila | Received % | Hafa  | Dakhila | Received % | Hafa    | Dakhila | Received % |
| Shrawan  | 1          | 1       | 100        | 1    | 1       | 100        | 1     | 0       | 0          | 1       | 1       | 100        |
| Bhadra   | 3          | 3       | 100        | 0    | 0       | 100        | 0     | 0       | 0          | 0       | 0       | 100        |
| Ashwin   | 3          | 1       | 33.3       | 2    | 2       | 100        | 2     | 0       | 0          | 3       | 3       | 100        |
| Kartik   | 2          | 2       | 100        | 1    | 1       | 100        | 3     | 0       | 0          | 1       | 1       | 100        |
| Mangshir | 3          | 3       | 100        | 2    | 2       | 100        | 2     | 0       | 0          | 2       | 2       | 100        |
| Poush    | 2          | 2       | 100        | 2    | 2       | 100        | 2     | 0       | 0          | 2       | 2       | 100        |
| Magh     | 4          | 4       | 100        | 2    | 2       | 100        | 4     | 0       | 0          | 2       | 2       | 100        |
| Falgun   | 5          | 5       | 100        | 1    | 1       | 100        | 2     | 0       | 0          | 1       | 1       | 100        |
| Chaitra  | 2          | 2       | 100        | 1    | 1       | 100        | 2     | 0       | 0          | 1       | 1       | 100        |
| Baishakh | 2          | 0       | 0          | 3    | 3       | 100        | 1     | 0       | 0          | 1       | 1       | 100        |
| Jestha   | 1          | 0       | 0          | 3    | 3       | 100        | 2     | 0       | 0          | 1       | 1       | 100        |
| Ashar    | 3          | 0       | 0          | 1    | 1       | 100        | 4     | 0       | 0          | 1       | 1       | 100        |
| Total    | 31         | 25      | 80.6       | 19   | 19      | 100        | 25    | 0       | 0          | 16      | 16      | 100        |

## 7.4 Re-distribution of Vaccines

| S.NO. | Vaccine | Quantity | Received from  | Issued to       |
|-------|---------|----------|----------------|-----------------|
| 1     | BCG     | 200      | HO, Gulmi      | HO, Rupandehi   |
| 2     | IPV     | 200      | HO, Gulmi      | HO, Arghakhachi |
| 3     | JE      | 200      | HO, Gulmi      | HO, Rupandehi   |
| 4     | MR      | 300      | PHLMC, Pokhara | HO, Kapilvastu  |
| 5     | IPV     | 1440     | -              | PHLMC, Dhangadi |

## 7.5 Stock Out status of vaccines at Provincial store

Table 36: Stock Out status

| Fiscal Year | Vaccine      | Stock out period         | Stockout days |
|-------------|--------------|--------------------------|---------------|
| 2081-82     | bOPV Vaccine | 2081/10/10 to 2081/10/30 | 20 Days       |
| 2081-82     | IPV vaccine  | 2081/11/08 to 2081/11/29 | 21 Days       |
| 2081-82     | IPV vaccine  | 2082/02/11 to 2082/03/08 | 21 Days       |
| 2081-82     | IPV vaccine  | 2082/03/12 to 2082/03/18 | 21 Days       |
| 2081-82     | MR Vaccine   | 2081/4/10 to 2081/4/28   | 19 days       |
| 2081-82     | MR Vaccine   | 2081/5/16 to 2081/06/06  | 20 days       |
| 2081-82     | MR Vaccine   | 2081/10/08 to 2081/11/14 | 36 days       |

## 7.6 Batch wise vaccine received record

Table 37: Batch wise vaccine received status

Vaccine Received with Batch & Expiry Detail

| Vaccine Name | Received Date | Batch No  | Expiry Date | Quantity     |
|--------------|---------------|-----------|-------------|--------------|
| BCG Vaccine  | 2081-04-01    | 0372G067  | 2025-01-31  | 650          |
|              | 2081-04-01    | 0373MAo22 | 2025-06-30  | 17600        |
|              | 2081-10-09    | 0373MA090 | 2026-04-30  | 19200        |
|              |               |           |             | <b>37450</b> |
| BCG Diluent  | 2081-04-01    | 0703S1003 | 2027-02-28  | 650          |
|              | 2081-04-01    | 0703S4002 | 2027-04-30  | 17000        |
|              | 2081-10-09    | 0703S4005 | 2027-06-30  | 19800        |

|              |            |            |            |               |
|--------------|------------|------------|------------|---------------|
|              |            |            |            | <b>37450</b>  |
| Rota Vaccine | 2081-04-01 | AROLE027AA | 2025-09-30 | 23100         |
|              | 2081-04-29 | AROLE098AA | 2025-12-31 | 42000         |
|              | 2081-08-13 | AROLE201AA | 2026-03-31 | 27000         |
|              | 2081-11-29 | AROLE202AA | 2026-03-31 | 42000         |
|              | 2082-01-26 | AROLE272AA | 2026-05-31 | 30000         |
|              | 2082/03/32 | AROLE326AA | 2026-08-31 | 36000         |
|              |            |            |            | <b>200100</b> |
| bOPV Vaccine | 2081-04-29 | 2056723    | 2025-12-28 | 15000         |
|              | 2081-08-13 | 2051724    | 2026-03-23 | 11000         |
|              | 2082-01-26 | 2052324    | 2026-05-21 | 5000          |
|              | 2081-11-29 | 2052424    | 2026-05-21 | 8000          |
|              | 2082-03-18 | 2053924    | 2026-10-29 | 1500          |
|              |            |            |            | <b>40500</b>  |
| fIPV Vaccine | 2081-04-01 | 2326001A   | 2026-06-12 | 5020          |
|              | 2081-04-01 | 2327005A   | 2026-06-12 | 17280         |
|              | 2081-10-04 | 2348006A   | 2026-11-20 | 4320          |
|              | 2081-10-30 | 2349003A   | 2026-11-20 | 13520         |
|              | 2082/03/32 | 2349005A   | 2026-11-20 | 3600          |
|              |            |            |            | <b>43740</b>  |
| PCV Vaccine  | 2081-04-29 | ASP4A424AA | 2026-02-28 | 1700          |
|              | 2081-04-01 | ASP4A425AA | 2026-02-28 | 19900         |
|              | 2081-04-01 | ASP4A426AA | 2026-03-31 | 25900         |
|              | 2081-10-09 | ASP4A491AA | 2027-04-30 | 3600          |
|              | 2081-11-29 | ASP4A505BA | 2027-06-30 | 9500          |
|              | 2082-01-26 | ASP4A513AA | 2027-03-31 | 27600         |
|              |            |            |            | <b>88200</b>  |
| DPT-HepB-Hib | 2081-04-01 | 2863X031A  | 2026-06-30 | 2450          |
|              | 2081-04-29 | 2864X001B  | 2026-07-31 | 9000          |
|              | 2081-06-07 | 2864X006   | 2026-08-31 | 13200         |
|              | 2081-10-09 | 2864X009B  | 2026-11-30 | 8900          |
|              | 2081-11-29 | 2864X016A  | 2027-02-28 | 5100          |
|              | 2082-03-18 | 2864x023B  | 2027-05-31 | 4200          |

|             |            |               |            |              |
|-------------|------------|---------------|------------|--------------|
|             |            |               |            | <b>42850</b> |
| MR Vaccine  | 2081-04-01 | 420606123A    | 2025-11-30 | 1550         |
|             | 2081-04-29 | 0123W068      | 2026-03-31 | 96           |
|             | 2081-04-29 | 0123W069      | 2026-03-31 | 881          |
|             | 2081-04-29 | 0123W070      | 2026-03-31 | 95           |
|             | 2081-06-07 | 0124N021      | 2026-11-30 | 15200        |
|             | 2081-11-15 | 0124W059      | 2027-02-28 | 24600        |
|             | 2082/02/29 | 0124W118      | 2027-06-30 | 5200         |
|             |            |               |            | <b>47622</b> |
| MR Diluent  | 2081-04-01 | SP23031       | 2027-11-30 | 1550         |
|             | 2081-04-29 | 0683S1017     | 2028-06-30 | 1072         |
|             | 2081-06-07 | 0684S1067     | 2029-01-31 | 15200        |
|             | 2081-11-15 | 0684S1118     | 2029-03-31 | 24600        |
|             | 2082/02/29 | 0684S1215     | 2029-05-31 | 5200         |
|             |            |               |            | <b>47622</b> |
| JE Vaccine  | 2081-04-01 | B202305C003-1 | 2025-05-12 | 9250         |
|             | 2081-04-29 | B202305C003-2 | 2025-05-12 | 5240         |
|             | 2081-06-07 | B202311C005-1 | 2025/11/0  | 10000        |
|             | 2081-11-29 | B202404C002-2 | 2026-04-24 | 16000        |
|             | 2082-03-18 | B202404C002-1 | 2026-04-24 | 4000         |
|             |            |               |            | <b>44490</b> |
| JE Diluent  | 2081-04-01 | 202305C03-1   | 2026-05-19 | 9250         |
|             | 2081-04-29 | 202305C03-2   | 2026-05-19 | 5240         |
|             | 2081-06-07 | 202311C06-1   | 2026-11-21 | 10000        |
|             | 2081-11-29 | 202405C02-2   | 2027-05-05 | 16000        |
|             | 2082-03-18 | 202405C02-1   | 2027-05-06 | 4000         |
|             |            |               |            | <b>44490</b> |
| TD Vaccine  | 2081-04-01 | 222601822B    | 2025-10-31 | 2150         |
|             | 2081-04-29 | 222601823C    | 2026-06-30 | 10500        |
|             | 2081-10-09 | 222600124A    | 2026-12-31 | 11400        |
|             |            |               |            | <b>24050</b> |
| TCV Vaccine | 2081-04-01 | 222700524A    | 2025-12-31 | 10022        |
|             | 2081-08-13 | 222701324A    | 2026-05-31 | 6912         |

|             |            |            |            |               |
|-------------|------------|------------|------------|---------------|
|             | 2081-11-29 | 222702224A | 2026-10-31 | 7680          |
|             | 2082-01-26 | 222702724A | 2026-10-31 | 7920          |
|             |            |            |            | <b>32534</b>  |
| HPV Vaccine | 2081-09-09 | 202408042  | 2027-08-28 | 45400         |
|             | 2081-09-09 | B202408039 | 2027-08-22 | 113250        |
|             | 2081-09-09 | B202408040 | 2027-08-22 | 140260        |
|             |            |            |            | <b>298910</b> |

## 7.7 Closing Balance of Vaccine & Logistics 2081/82

Table 38: Closing Balance of Vaccine and Logistics

| S.N | Vaccine & logistic        | Batch Number  | Expiry Date | Quantity | Total Vial |
|-----|---------------------------|---------------|-------------|----------|------------|
| 1   | BCG - 20 Dose             | 0373MA090     | 30/04/2026  | 13450    | 13450      |
| 2   | BCG dil. 1ml              | 0703S4005     | 30/06/2027  | 13450    | 13450      |
| 3   | ROTA 1 Dose               | AROLE272AA    | 31/05/2026  | 6150     | 42150      |
|     |                           | AROLE326AA    | 31/08/2026  | 36000    |            |
| 4   | bOPV 10 does              | 2052424       | 21/05/2026  | 4010     | 6920       |
|     |                           | 2052324       | 21/05/2026  | 1410     |            |
|     |                           | 2053924       | 29/10/2026  | 1500     |            |
| 5   | bOPV Dropers              | -             | -           | 6920     | 6920       |
| 6   | fIPV - 5 Dose             | 2349003A      | 20/11/2026  | 2530     | 6130       |
|     |                           | 2349005A      | 20/11/2026  | 3600     |            |
| 7   | PCV- 4 Dose               | ASP4A513AA    | 31/03/2027  | 16900    | 22900      |
|     |                           | ASP4A505BA    | 30/06/2027  | 6000     |            |
| 8   | DPT-HepB-Hib-10 does      | 2864X009B     | 30/11/2026  | 1000     | 10300      |
|     |                           | 2864X016A     | 28/02/2027  | 5100     |            |
|     |                           | 2864x023B     | 31/05/2027  | 4200     |            |
| 9   | Measles- Rubella 10 Dose  | 0124W059      | 28/02/2027  | 7900     | 10300      |
|     |                           | 0124W118      | 30/06/2027  | 2400     |            |
| 10  | Measles- Rubella dil. 5ml | 0684S1118     | 31/03/2029  | 7900     | 10300      |
|     |                           | 0684S1215     | 31/05/2029  | 2400     |            |
| 11  | J E Vaccine               | B202404C002-2 | 24/04/2026  | 9080     | 13080      |

|    |                    |               |            |        |        |
|----|--------------------|---------------|------------|--------|--------|
|    |                    | B202404C002-1 | 24/04/2026 | 4000   |        |
| 12 | J E dil. 2.5ml     | 202405C02-2   | 5/5/2027   | 9080   | 13080  |
|    |                    | 202405C02-1   | 6/5/2027   | 4000   |        |
| 13 | TCV 5 Dose         | 222702724A    | 31/10/2026 | 7536   | 7536   |
| 14 | Td 10 does         | 222600124A    | 31/12/2026 | 6900   | 6900   |
| 15 | AD syr.0.05 ml     | 20240525      | 25/05/2029 | 44800  | 44800  |
| 16 | AD syr.0.1 ml      | 592328        | 30/11/2028 | 99000  | 99000  |
| 17 | AD syr.0.5 ml      | 220430        | 30/04/2027 | 305100 | 305100 |
| 18 | Rec.Syr. 2 ml      | 20240525      | 25/05/2029 | 17870  | 17870  |
| 19 | Rec.Syr. 5 ml      | 230602        | 2/6/2028   | 6600   | 6600   |
| 20 | Safety Box         | -             | -          | 10350  | 10350  |
| 21 | HPV Vaccine        | B202408040    | 22/08/2027 | 37654  | 37654  |
| 22 | ARV Vaccine 0.5 ml | 25URAB040     | 30/04/2028 | 7080   | 7080   |
| 23 | ARV Vaccine 1 ml   | 24URAB072     | 31/08/2027 | 75     | 75     |
| 24 | ASV Vaccine        | LY160         | 30/04/2029 | 3700   | 3700   |

## 7.8 Immunization & Cold Chain Monitoring Visits

This is detail of joint monitoring visit, onsite coaching, training facilitation, orientation attended for Immunization program performed from province to support district and palika on cold chain & immunization.

**Table 39: Month wise Monitoring Visits**

| S.N. | Month   | District        | Palika / Partner   | Activity/Support                   |
|------|---------|-----------------|--|------------------------------------|
| 1    | Shrawan | Kapilbastu      | DVS, Bijaynagar, Krishnagar, Maharajgunj   | To support for eLMIS system        |
| 2    | Shrawan | Rupandehi       | Kanchan, Mayadevi, Gaidahawa, Siyari, Suddhodhan, Marchawari, Samarimai, Lumbini and Kotahimai | CCEOP site monitoring              |
| 3    | Bhadra  | Bhalubang, Dang | PHLMC/PHD/MoH/PHTC/UNICEF/UNFPA/WHO/FHI-360/HKI/Save The Children/ADRA/KIDS                    | Supply Chain Working Group Meeting |

|    |              |                           |   |   |
|----|--------------|---------------------------|---|---|
| 4  | Ashoj        | Nepalgunj,<br>Banke       | FWD, MD, PHLMC, HD,<br>UNICEF, WHO, Water Aid   | Facilitation support on Cold Chain and<br>Immunization Strengthening Training   |
| 5  | Kartik       | Butwal,<br>Rupandehi      | PHLMC, HD, HO Rupandehi, 16<br>Palika, FHI360, UNICEF, UNFPA                          | Attended bi-monthly supply chain<br>meeting with 16 palika of Rupandehi<br>district for decision making with<br>eLMIS data. |
| 6  | Mangshi<br>r | Butwal,<br>Rupandehi      | PHLMC, HD, HO Rupandehi, 16<br>Palika, FHI360, UNICEF, UNFPA                          | Facilitated eLMIS refresher training for<br>participants of Rupandehi district  |
| 7  | Mangshi<br>r | Butwal,<br>Rupandehi      | HD/HO/UNICEF/WHO/Water<br>Aid/HFs   | Facilitation support on 4 days Basic<br>Immunization Training at Butwal<br>organized by HD                                  |
| 8  | Mangshi<br>r | Butwal,<br>Rupandehi      | PHLMC/HD/MoH/PHTC/UNICE<br>F/UNFPA/WHO/FHI-<br>360/HKI/Save The<br>Children/ADRA/KIDS | To participate in Provincial Supply<br>Chain Working Group Meeting<br>organized by PHLMC with support of<br>UNFPA.          |
| 9  | Mangshi<br>r | Gorusinghe,<br>Kapilbastu | HD, PHLMC, UNICEF, WHO,<br>Water Aid  | Facilitation support on 4 days Basic<br>Immunization Training at Gorusinghe<br>organized by HD                              |
| 10 | Poush        | Butwal,<br>Rupandehi      | HD, PHLMC, UNICEF, WHO,<br>Water Aid  | Facilitation support on 4 days Basic<br>Immunization Training at Butwal<br>organized by HD                                  |
| 11 | Poush        | Bhalubang,<br>Dang        | FWD, MD, HD, PHLMC, HO,<br>UNICEF, WHO, Water Aid                                     | To participate in HPV TOT and<br>Provincial Annual Review Program of<br>Health  |
| 12 | Poush        | Butwal,<br>Rupandehi      | HD, PHLMC, UNICEF, WHO,<br>Water Aid  | To facilitate the Basic Immunization<br>Training for Palpa & Ruapdehi   |
| 13 | Poush        | Bhairahawa,<br>Rupandehi  | HO, UNICEF, WHO   | To facilitate the HPV campaign<br>orientation of Rupandehi district   |
| 14 | Magh         | Palpa                     | Tansen  | To facilitate the HPV campaign<br>orientation   |
| 15 | Magh         | Gulmi                     | Resunga   | To facilitate the HPV campaign<br>orientation   |

|    |          |                   |   |  |
|----|----------|-------------------|---|--|
| 16 | Magh     | Kapilbastu        | Kapilbastu,   | To monitor the HPV vaccination campaign            |
| 17 | Magh     | Dang              | Ghorahi, Tulsipur, Lamahi, Gadhawa, Rapti, Rajpur               | To monitor the HPV vaccination campaign            |
| 18 | Falgun   | Pyuthan           | DVS and all palika  | CCEOP site monitoring                              |
| 19 | Falgun   | Dang              | DVS and all palika  | CCEOP site monitoring                              |
| 20 | Chaitra  | Nawalparasi       | Ramgram   | Cold Chain monitoring of DVS                       |
| 21 | Chaitra  | Dang              | Rapti (Sisaniya HP)   | CCEOP site monitoring                              |
| 22 | Chaitra  | Kapilbastu        | DVS, Yasodhara, Shivraj, Bijaynagar, Krishnagar, Maharajgunj    | CCEOP site monitoring                              |
| 23 | Baishakh | Kapilbastu        | Mayadevi, Suddhodhan, Kapilbastu                                | CCEOP site monitoring                              |
| 24 | Baishakh | Palpa             | DVS, All 10 Palika  | CCEOP site monitoring                              |
| 25 | Jestha   | Nawalparasi       | Ramgram   | FID Declaration Program                            |
| 26 | Jestha   | Banke             | DVS, All 8 Palika   |  |
| 27 | Jestha   | Bardiya           | DVS,  |  |
| 28 | Jestha   | Rolpa             | DVS, All 10 Palika  | CCEOP site monitoring                              |
| 29 | Jestha   | Arghakhanchi      | All palika  | CCEOP site monitoring/Cold Chain Advocacy Training |
| 30 | Ashar    | Butwal, Rupandehi | PHLMC/HD/MoH/PHTC/LPAH/ UNICEF/UNFPA/HKI/Save The Children/KIDS | Participate in SCHWG Meeting at Butwal             |
| 31 | Ashar    | Rupandehi         | DVS and all palika  | CCEOP site monitoring                              |
| 32 | Ashar    | Kapilbastu        | DVS and all palika  | CCEOP site monitoring                              |

## 7.9 Cold Chain Staff Contact Detail

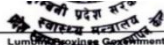
This is district wise detail of cold chain focal person working at District Vaccine Store.

*Table 40: HR Management*

| S.N. | Name of District | Name                    | Designation           | Contact no.              | Email  | Contract Type |
|------|------------------|-------------------------|-----------------------|--------------------------|--|---------------|
| 1    | Rukum- E         | Manoj K Shrestha        | CCI                   | 9857831503<br>9847835653 | <a href="mailto:manojccadang@yahoo.com">manojccadang@yahoo.com</a>     | Permanent     |
| 2    | Rolpa            | Tilsari Gharti          | CCA                   | 9857822197               | <a href="mailto:nanugurung2076@gmail.com">nanugurung2076@gmail.com</a> | Contract      |
| 3    | Pyuthan          | Koshal Raj Baidhya      | CCI                   | 9857833364               | <a href="mailto:koshal.baidya@gmail.com">koshal.baidya@gmail.com</a>   | Permanent     |
| 4    | Gulmi            | Shyam Kumar Pal         | CCA                   | 9865502410               |  | Permanent     |
| 5    | Arghakhanchi     | Sudan Raj Gautam        | CCI                   | 9848053520               | <a href="mailto:sudanshanta@gmail.com">sudanshanta@gmail.com</a>       | Permanent     |
| 6    | Palpa            | <b>Vacant</b>           |                       |                          |  | Retired       |
| 7    | Nawalparasi- W   | <b>Vacant</b>           |                       |                          |  | Retired       |
| 8    | Rupandehi        | Surendra Prasad Dubedi  | CCI                   | 9844711495               | not  | Permanent     |
| 9    | Kapilvastu       | Masir Mansuri           | CCI                   | 9841498288               | n/a  | Permanent     |
| 10   | Dang             | Jhaggu Prasad Acharya   | CCA                   | 9824157299               | <a href="mailto:jpacharya1248@gmail.com">jpacharya1248@gmail.com</a>   | Permanent     |
| 11   | Banke            | Janakraj Giri           | CCI                   | 9848022081               | not  | Permanent     |
| 12   | Bardiya          | Durga Prasad Dhakal     | Lab Technician        | 9858032525               | <a href="mailto:mdurgadhakal@gmail.com">mdurgadhakal@gmail.com</a>     | Permanent     |
| 13   | Bardiya          | Marichman Khadka        | CCA                   | 9742880586               |  | Permanent     |
| 14   | PHLMC Butwal     | <b>Vacant</b>           |                       |                          |  | Retired       |
| 15   | PHLMC Butwal     | Parbati Jhankri Chhetri | CCA                   | 9867213976               |  | Contract      |
| 16   | PHLMC Butwal     | Mohan Dev Joshi         | Cold Chain Specialist | 9849685621               | <a href="mailto:mjoshi@unicef.org">mjoshi@unicef.org</a>               | UNICEF        |

# Annexes

## i. Monthly EPI Tracking Report

  
 Lumbini Province Government  
 Provincial Health Logistics Management Centre, Butwal  
 Vaccine Stock Status (Vias) as end of Ashar 2082

| S.N. | Vaccine & logistic        | Rukum E | Rolpa  | Pyuthan | Gulmi  | Arghakh<br>anchil | Palpa | Newapur<br>east W | Rupande<br>si | Kapilbastu | Dang   | Barke  | Bardiya | District<br>Sub-Total | PHLMC  | TOTAL   | Estimated<br>Monthly<br>Consumption | Month of<br>Stock on<br>Hand | Expiry Date |
|------|---------------------------|---------|--------|---------|--------|-------------------|-------|-------------------|---------------|------------|--------|--------|---------|-----------------------|--------|---------|-------------------------------------|------------------------------|-------------|
| 1    | BCG - 20 Dose             | 215     | 51     | 334     | 314    | 68                | 486   | 90                | 39            | 623        | 606    | 458    | 366     | 3650                  | 13450  | 17100   | 3085                                | 5.5                          | 30/04/2026  |
| 2    | BCG dil. 1ml              | 215     | 51     | 334     | 314    | 68                | 486   | 90                | 39            | 623        | 606    | 458    | 366     | 3650                  | 13450  | 17100   | 3085                                | 5.5                          | 30/06/2027  |
| 3    | ROTA 1 Dose               | 243     | 1630   | 1600    | 1268   | 399               | 1472  | 506               | 3270          | 3100       | 3870   | 1996   | 1900    | 21254                 | 42150  | 63404   | 19042                               | 3.3                          | 31/05/2026  |
| 4    | bOPV 10 Dose              | 283     | 130    | 320     | 235    | 85                | 356   | 374               | 156           | 540        | 720    | 363    | 345     | 3887                  | 8920   | 10807   | 3210                                | 3.4                          | 21/05/2026  |
| 5    | bOPV Droppers             | 283     | 130    | 320     | 235    | 85                | 356   | 374               | 156           | 540        | 720    | 363    | 345     | 3887                  | 8920   | 10807   | 3210                                | 3.4                          | N/A         |
| 6    | IPV - 5 Dose              | 87      | 111    | 433     | 129    | 94                | 270   | 484               | 409           | 484        | 590    | 623    | 546     | 4260                  | 6130   | 31136   | 7141                                | 4.4                          | 31/03/2027  |
| 7    | PCV-4 Dose                | 377     | 113    | 645     | 402    | 119               | 933   | 274               | 940           | 1030       | 1953   | 1001   | 949     | 8736                  | 22400  | 18103   | 3210                                | 4.7                          | 20/11/2026  |
| 8    | DPT-HepB-Hib-10 Dose      | 204     | 320    | 320     | 457    | 110               | 425   | 125               | 300           | 558        | 876    | 423    | 385     | 4503                  | 10600  | 14007   | 3626                                | 3.9                          | 28/02/2027  |
| 9    | Measles- Rubella          | 229     | 224    | 370     | 243    | 101               | 442   | 212               | 326           | 352        | 706    | 287    | 216     | 3707                  | 10300  | 14007   | 3626                                | 3.9                          | 28/02/2027  |
| 10   | Measles- Rubella dil. 5ml | 229     | 224    | 370     | 243    | 101               | 442   | 212               | 326           | 352        | 706    | 287    | 216     | 3707                  | 10300  | 14007   | 3626                                | 3.9                          | 28/02/2027  |
| 11   | J E Vaccine               | 257     | 207    | 404     | 312    | 75                | 423   | 178               | 275           | 680        | 722    | 350    | 353     | 4236                  | 13080  | 17316   | 3569                                | 4.9                          | 24/04/2026  |
| 12   | J E dil. 2.5ml            | 257     | 207    | 404     | 312    | 75                | 423   | 178               | 275           | 680        | 722    | 350    | 353     | 4236                  | 13080  | 17316   | 3569                                | 4.9                          | 05/05/2027  |
| 13   | TCV 5 Dose                | 145     | 270    | 220     | 375    | 58                | 621   | 210               | 278           | 536        | 497    | 256    | 241     | 3707                  | 7296   | 11003   | 1635                                | 6.7                          | 31/10/2026  |
| 14   | T D 10 Dose               | 79      | 196    | 224     | 382    | 48                | 229   | 88                | 97            | 456        | 520    | 132    | 243     | 2894                  | 6450   | 9144    | 2579                                | 3.5                          | 31/12/2026  |
| 15   | AD ayr.0.05ml             | 783     | 501    | 668     | 1625   | 664               | 1660  | 1390              | 0             | 1400       | 1348   | 1513   | 1230    | 12782                 | 44800  | 87682   | 10065                               | 5.7                          | 25/05/2029  |
| 16   | AD ayr.0.1 ml             | 1047    | 1440   | 1299    | 2230   | 363               | 4980  | 1880              | 3200          | 2600       | 2700   | 3251   | 3185    | 27975                 | 99000  | 128975  | 20130                               | 6.3                          | 30/11/2028  |
| 17   | AD ayr.0.5ml              | 15200   | 289931 | 261771  | 151935 | 49885             | 51600 | 235100            | 96500         | 134100     | 158400 | 131135 | 263250  | 1838607               | 305100 | 2143807 | 110715                              | 19.4                         | 09/07/2027  |
| 18   | Rec.Syr. 2 ml             | 660     | 389    | 1190    | 1955   | 386               | 1200  | 1480              | 200           | 760        | 438    | 1027   | 2210    | 11695                 | 17870  | 29766   | 3424                                | 8.7                          | 31/07/2027  |
| 19   | Rec.Syr. 5 ml             | 858     | 659    | 1700    | 2553   | 938               | 1300  | 1620              | 600           | 800        | 840    | 2509   | 1916    | 16293                 | 27600  | 53893   | 7986                                | 6.7                          | 08/02/2028  |
| 20   | Safety Box                | 880     | 1095   | 2460    | 1669   | 533               | 1627  | 1354              | 3435          | 2149       | 1476   | 2743   | 850     | 20071                 | 10350  | 30421   | 1523                                | 20.0                         | N/A         |
| 21   | Pfizer 6 Dose(BIV)        | 0       | 0      | 0       | 0      | 0                 | 0     | 0                 | 0             | 0          | 0      | 0      | 0       | 0                     | 0      | 0       | 0                                   | 0                            | 30/09/2025  |
| 22   | Pfizer 6 Dose(Monovalent) | 0       | 0      | 3000    | 5700   | 0                 | 0     | 1700              | 5000          | 1450       | 2000   | 5300   | 0       | 24180                 | 9450   | 33600   | 0                                   | 0                            | 0           |
| 23   | Pfizer 10 Dose Pediatric  | 0       | 0      | 0       | 0      | 0                 | 0     | 0                 | 0             | 0          | 0      | 0      | 0       | 0                     | 0      | 0       | 0                                   | 0                            | 0           |
| 24   | Syringe RUP 2 ml          | 0       | 0      | 0       | 0      | 0                 | 0     | 0                 | 0             | 0          | 0      | 0      | 0       | 0                     | 0      | 0       | 0                                   | 0                            | 0           |
| 25   | AD Syringe 0.3 ml         | 1200    | 9000   | 21600   | 42200  | 0                 | 0     | 25200             | 36000         | 21600      | 10800  | 24700  | 10800   | 203100                | 97200  | 300300  | 0                                   | 0                            | 28/02/2027  |
| 26   | AD Syringe 0.2 ml         | 0       | 0      | 0       | 0      | 0                 | 0     | 0                 | 0             | 0          | 0      | 0      | 0       | 0                     | 11700  | 11700   | 0                                   | 0                            | 31/05/2027  |
| 27   | IPV 2.5 ml                | 0       | 0      | 0       | 0      | 0                 | 0     | 0                 | 0             | 0          | 0      | 0      | 0       | 0                     | 0      | 0       | 0                                   | 0                            | 30/05/2028  |
| 28   | HPV Vaccine               | 0       | 0      | 0       | 0      | 0                 | 0     | 0                 | 0             | 0          | 0      | 0      | 0       | 0                     | 37917  | 37917   | 0                                   | 0                            | 22/08/2027  |

Prepared By  
Parbati Chhetri Jhankri

Verified By  
Dr. Rajendra Kumar Giri  
Act. Director

## ii. Monthly Temperature Monitoring, Review and Report

### PDF document of the Fridge-tag® 2 E

Identification number: 100600126305  
 Date and time of report creation: 16.07.2025 16:41h  
 Activation date: 10.11.2024 12:20h  
 Upper alarm limit: Above +8.0°C for 10h  
 Lower alarm limit: Below -0.5°C for 1h  
 Measurement interval: 1) 1min (fixed)

Type 1  
-0.5 °C to +8 °C

| No. | Date (dd.MM.yyyy) | Events <sup>2)</sup> | Average temp. | Lower alarm limit |            |                                       |                    | Upper alarm limit |            |                                       |                    | Signature / notes<br>Action taken |
|-----|-------------------|----------------------|---------------|-------------------|------------|---------------------------------------|--------------------|-------------------|------------|---------------------------------------|--------------------|-----------------------------------|
|     |                   |                      |               | Status            | Min. temp. | Cumulative daily time below the limit | Alarm trigger time | Status            | Max. temp. | Cumulative daily time above the limit | Alarm trigger time |                                   |
| 1   | Today             | 10:22                | +5.3°C        | In progress       | +4.8°C     | 0min                                  |                    | In progress       | +21.5°C    | 12min                                 |                    |                                   |
| 2   | 15.07.2025        | 10:25                | +5.0°C        | ok                | +4.4°C     | 0min                                  |                    | ok                | +5.9°C     | 0min                                  |                    |                                   |
| 3   | 14.07.2025        | 09:58                | +5.0°C        | ok                | +4.6°C     | 0min                                  |                    | ok                | +5.6°C     | 0min                                  |                    |                                   |
| 4   | 13.07.2025        | 10:22                | +5.0°C        | ok                | +4.1°C     | 0min                                  |                    | ok                | +6.1°C     | 0min                                  |                    |                                   |
| 5   | 12.07.2025        |                      | +5.0°C        | ok                | +4.4°C     | 0min                                  |                    | ok                | +5.9°C     | 0min                                  |                    |                                   |
| 6   | 11.07.2025        | 11:44                | +5.1°C        | ok                | +4.4°C     | 0min                                  |                    | ok                | +6.1°C     | 0min                                  |                    |                                   |
| 7   | 10.07.2025        | 10:29                | +5.2°C        | ok                | +4.6°C     | 0min                                  |                    | ok                | +6.0°C     | 0min                                  |                    |                                   |
| 8   | 09.07.2025        | 10:27                | +5.0°C        | ok                | +4.5°C     | 0min                                  |                    | ok                | +6.0°C     | 0min                                  |                    |                                   |
| 9   | 08.07.2025        | 10:21                | +5.0°C        | ok                | +4.3°C     | 0min                                  |                    | ok                | +6.0°C     | 0min                                  |                    |                                   |
| 10  | 07.07.2025        | 10:34                | +4.9°C        | ok                | +4.1°C     | 0min                                  |                    | ok                | +5.7°C     | 0min                                  |                    |                                   |
| 11  | 06.07.2025        | 10:35                | +4.9°C        | ok                | +4.3°C     | 0min                                  |                    | ok                | +5.7°C     | 0min                                  |                    |                                   |
| 12  | 05.07.2025        |                      | +4.9°C        | ok                | +4.3°C     | 0min                                  |                    | ok                | +5.4°C     | 0min                                  |                    |                                   |
| 13  | 04.07.2025        |                      | +4.7°C        | ok                | +4.1°C     | 0min                                  |                    | ok                | +5.8°C     | 0min                                  |                    |                                   |
| 14  | 03.07.2025        |                      | +4.7°C        | ok                | +4.3°C     | 0min                                  |                    | ok                | +5.2°C     | 0min                                  |                    |                                   |
| 15  | 02.07.2025        |                      | +4.7°C        | ok                | +4.2°C     | 0min                                  |                    | ok                | +5.8°C     | 0min                                  |                    |                                   |
| 16  | 01.07.2025        | 10:49                | +4.7°C        | ok                | +4.1°C     | 0min                                  |                    | ok                | +5.4°C     | 0min                                  |                    |                                   |
| 17  | 30.06.2025        | 10:53                | +4.8°C        | ok                | +4.2°C     | 0min                                  |                    | ok                | +6.1°C     | 0min                                  |                    |                                   |
| 18  | 29.06.2025        |                      | +4.9°C        | ok                | +4.5°C     | 0min                                  |                    | ok                | +6.2°C     | 0min                                  |                    |                                   |
| 19  | 28.06.2025        | 13:44                | +4.6°C        | ok                | +4.0°C     | 0min                                  |                    | ok                | +5.8°C     | 0min                                  |                    |                                   |
| 20  | 27.06.2025        |                      | +4.6°C        | ok                | +4.0°C     | 0min                                  |                    | ok                | +5.8°C     | 0min                                  |                    |                                   |
| 21  | 26.06.2025        | 10:37                | +4.6°C        | ok                | +4.0°C     | 0min                                  |                    | ok                | +5.9°C     | 0min                                  |                    |                                   |
| 22  | 25.06.2025        | 10:14                | +4.7°C        | ok                | +4.0°C     | 0min                                  |                    | ok                | +6.0°C     | 0min                                  |                    |                                   |
| 23  | 24.06.2025        |                      | +4.9°C        | ok                | +4.3°C     | 0min                                  |                    | ok                | +5.8°C     | 0min                                  |                    |                                   |
| 24  | 23.06.2025        | 14:58                | +4.8°C        | ok                | +4.0°C     | 0min                                  |                    | ok                | +6.1°C     | 0min                                  |                    |                                   |
| 25  | 22.06.2025        | 10:35                | +4.8°C        | ok                | +3.8°C     | 0min                                  |                    | ok                | +5.8°C     | 0min                                  |                    |                                   |
| 26  | 21.06.2025        |                      | +4.8°C        | ok                | +4.3°C     | 0min                                  |                    | ok                | +5.9°C     | 0min                                  |                    |                                   |
| 27  | 20.06.2025        | 10:49                | +4.9°C        | ok                | +4.3°C     | 0min                                  |                    | ok                | +6.0°C     | 0min                                  |                    |                                   |
| 28  | 19.06.2025        | 10:51                | +5.0°C        | ok                | +4.3°C     | 0min                                  |                    | ok                | +6.6°C     | 0min                                  |                    |                                   |
| 29  | 18.06.2025        | 10:55                | +5.1°C        | ok                | +4.4°C     | 0min                                  |                    | ok                | +7.0°C     | 0min                                  |                    |                                   |
| 30  | 17.06.2025        | 10:54                | +5.2°C        | ok                | +4.6°C     | 0min                                  |                    | ok                | +6.6°C     | 0min                                  |                    |                                   |

1) Sampling and data analysis every minute  
2) (+/- time / date changed, 0:00min = status checked

Date and place: 2082-07-02 Palpa  
Butwal

Signature: \_\_\_\_\_

(Signature)  
निमित्त निदेशक

# Device Report

Time 2025-07-16 15:46

Ashar 2082  
海尔生物医疗  
Haier Biomedical

## Base Information

Device Name Haier WIC(40mg)      Device Id BA558444000432881664  
 Device Model Ucool      Device Status Abnormal  
 Company Nepal      Administrator PHLMCLumbini(PHLMCLumbini)  
 Department Province Health Logistic Management Center, Lumbini      Date of Use 2024-11-13 00:17:05  
 Brand Haier      Firmware Version 9C620361-None; 9C640513-None; 9C602039-None; 9C602255-None; 9C602233-None; 9C602300-None; 9C602052-None  
 Time Zone UTC+05:00

## Sensor - Front Right Side 1

### - Basic Configurations

Sensor Name Front Right Side 1      Collector Code 9C602255  
 Sensor Routes 1      Sensor Type Temperature  
 Temperature Upper Limit 8      Temperature Lower Limit 2

### - Information Summary

| No. | Status             | Duration       | Duration Ratio | Alarm Times |
|-----|--------------------|----------------|----------------|-------------|
| 1   | Temperature Normal | 31 d15 h46 min | 100.0%         | —           |
| 2   | High Temp Alarm    | 0 min          | 0.0%           | 0           |
| 3   | Low Temp Alarm     | 0 min          | 0.0%           | 0           |

Start Time 2025-06-15 00:00      End Time 2025-07-16 15:46      Cumulative Time 31 d15 h46 min  
 Temperature Max 7.10      Temperature Min 3.30      Temperature Average 5.29  
 MKT<sup>1</sup> 5.33      Data Amount 4659

<sup>1</sup> MKT Mean Kinetics Temperature, which reflects the fluctuation of temperature during the process of product storage and transportation.

### - Device Curve

(ms)  
निमित्त निदेश



लुम्बिनी प्रदेश सरकार  
प्रदेश स्वास्थ्य आपूर्ति व्यवस्थापन केन्द्र  
मासिक स्वास्थ्य कार्यक्रम समीक्षा प्रतिवेदन

|  |  |            |                           |                          |                     |                           |
|--|--|------------|---------------------------|--------------------------|---------------------|---------------------------|
| स्थान:   | प्रदेश स्वास्थ्य आपूर्ति व्यवस्थापन केन्द्र बुटवल                            |            |                           |                          |                     |                           |
| समीक्षा अवधि:  | २०८२/०३/०१ देखि २०८२/०३/३२   |            |                           |                          |                     |                           |
| समीक्षा कर्ताहरू:  | नि.निर्देशक राजेन्द्र कुमार गिरी/कोल्डचेन असिस्टेन्ट पार्वती क्षेत्री झाक्री |            |                           |                          |                     |                           |
| मिति:  | २०८२/०४/०५   |            |                           |                          |                     |                           |
| समीक्षा अवधिमा क्षति भएका भ्याक्सिनहरू अभिलेखमा चढाउँनुहोस, जसलाई निसर्ग/मिलान प्रतिवेदनहरूमा औपचारिक रूपमा अभिलेख   |  |            |                           |                          |                     |                           |
| उपकरण न  | उपकरण मोडल   | मिति       | क्षति-मिलान प्रतिवेदन     | प्रभावित भ्याक्सिनको नाम | क्षति पुगेको डोजहरू |                           |
| १  |  |            |                           |                          |                     |                           |
| २  |  |            |                           |                          |                     |                           |
| भण्डारणमा तापक्रम सिफारिस गरिएको सिमा भन्दा बाहिर रहेको अवस्थामा समीक्षा अवधिको सबै उदाहरणहरूको अभिलेख राख्नुहोस ।   |  |            |                           |                          |                     |                           |
| उपकरण न  | उपकरण मोडल   | मिति       | अधिकतम तापक्रम र समय      | भ्याक्सिनको नाम          | भ्याक्सिन जोखिममा   | घटनाको क्रममा चालिएको कदम |
| १  | WIC Haier (15m)  | 2025.07.02 | (+) 14.4 °C (19 min)      | ARV, ASV, Sickle Cell    | छैन                 | समस्या नभएको              |
| २  | WIC Foster(40m)  | 2025.06.17 | (+) 10.4 °C (1 Hr, 3 min) | Oxytocin, Amphotericin   | छैन                 | समस्या नभएको              |
| ३  | WIC Haier (40m)  | 2025.07.16 | (+) 7.0 °C                | Routine Vaccine          | छैन                 | समस्या नभएको              |
| ४  | VLS 504A AC  | 2025.06.29 | (+) 16.8 °C (21 min)      | ARV                      | छैन                 | समस्या नभएको              |
| ५  | VLS 504A AC  | 2025.07.16 | (+) 6.9 °C                | No Vaccine               | छैन                 | समस्या नभएको              |
| ८  | HBD 286  | 2025.07.15 | (-) 15 to (-) 25          | bOPV                     | छैन                 | समस्या नभएको              |
| <p>कथन: माथि उल्लेखित Cold chain Equipment को तेरिज अनुसार भ्याक्सिन भण्डारण व्यवस्थापनको लागि निर्धारित तापक्रम भन्दा बाहिर केहि समयको लागि गएको देखिएता पनि Average temp मा केहि समस्या देखिएको छैन। भ्याक्सिन भण्डारण तथा वितरण गर्दा केहि समय तापक्रम बढेको अवस्था । bOPV भ्याक्सिन बाहेक अन्य सबै भ्याक्सिनहरू VVM १ मा रहेको अवस्था एकिन गर्न सकिन्छ र कुनै पनि खोप भाइलहरू जोखिममा छैन। bOPV भ्याक्सिन केन्द्रबाट प्राप्त गर्दा नै VV२ मा रहेको अवस्था । २४ घण्टा विद्युतिय सप्लाई व्यवस्थापनको लागि जेनेरेटर चालु अवस्थामा रहेकोले विद्युतिय समस्या नभएको।</p> |  |            |                           |                          |                     |                           |
| सिफारिसहरू: भ्याक्सिन वितरण गर्दा छोटो समय अन्तरालमा व्यवस्थापन गर्ने । धेरै समय कोल्ड चेन उपकरण खुला नराख्ने । कोल्ड चेन रुममा काम गर्दा सेपती ज्याकेट लगाएर काम गर्ने ।  |  |            |                           |                          |                     |                           |

तयार गर्नेको दस्तखत

पार्वती क्षेत्री झाक्री

*(Signature)*

प्रमाणित गर्नेको दस्तखत

डा. राजेन्द्र कुमार गिरी

*(Signature)*  
निमित्त निर्देशक

iii. Yearly Temperature Review 2081/82

Lumbini Province Government  
Ministry of Health  
Province Health Logistic Management Center, Butwal, Rupandehi  
Annual Temperature Review Record Sheet

Location: PHLMC Butwal Review Period: Shrawan 2081 to Ashar 2082

| Equipment Type (WIC/ ILR/ DF) | Manufacturer | Model        | Serial No.              | Recording Method (T, 30-day,Logger) | Cold Room or Refrigerator |                    |                 |                 | Freezer Room or Freezer |                  |                |
|-------------------------------|--------------|--------------|-------------------------|-------------------------------------|---------------------------|--------------------|-----------------|-----------------|-------------------------|------------------|----------------|
|                               |              |              |                         |                                     | No. of Low Alarms         | No. of High Alarms | Days below +2°C | Days above +8°C | No. of High Alarms      | Days above -15°C | Days above 0°C |
| Walk-in-Cooler                | Cold Bank    | WICR-15m3    | VCR50-15 T (CBM)        | RTMD/Fridge tag                     | 0                         | 4                  | 4               | 48              | -                       | -                | -              |
| Walk-in-Cooler                | Haier        | WICR-15m3    | HRZK-15G                | RTMD/Fridge tag                     | 0                         | 2                  | 29              | 36              | -                       | -                | -              |
| Walk-in-Cooler                | Haier        | WICR-40m3    | HRZK-40G (40CBM)        | RTMD/Fridge tag                     | 0                         | 0                  | 1               | 6               | -                       | -                | -              |
| Walk-in-Cooler                | Foster       | WICR-40m3    | ADV4343 HT              | RTMD/Fridge tag                     | 0                         | 0                  | 0               | 40              | -                       | -                | -              |
| ILR (5)                       | Vestfrost    | VLS 504 A AC | 20232504559             | Fridge tag                          | 0                         | 0                  | 0               | 9               | -                       | -                | -              |
| ILR (6)                       | Vestfrost    | VLS 504 A AC | 20232504478             | Fridge tag                          | 0                         | 0                  | 0               | 0               | -                       | -                | -              |
| ILR (7)                       | Vestfrost    | VLS 504 A AC | 20232504491             | Fridge tag                          | 0                         | 0                  | 0               | 1               | -                       | -                | -              |
| ILR (4)                       | Vestfrost    | MK 304       | 20132663384             | Fridge tag                          | 0                         | 0                  | 41              | 7               | -                       | -                | -              |
| ILR (10)                      | Vestfrost    | VLS 400      | 20133474481             | Fridge tag                          | 0                         | 0                  | 73              | 29              | -                       | -                | -              |
| ILR (13)                      | Vestfrost    | MK 304       | 20132663412             | Fridge tag                          | 0                         | 0                  | 0               | 41              | -                       | -                | -              |
| DF (2)                        | Vestfrost    | MF 304       | 74114192                | Thermometer                         | -                         | -                  | -               | -               | 0                       | 0                | 0              |
| DF (3)                        | Haier        | HBD 286      | BE04F 4E260 OQEH8 20003 | Thermometer                         | -                         | -                  | -               | -               | 0                       | 0                | 0              |
| DF (5)                        | Haier        | HBD 286      | BE04F OGASO OQELC N0075 | Thermometer                         | -                         | -                  | -               | -               | 0                       | 0                | 0              |
| DF (7)                        | Haier        | HBD 286      | BE04F OGASO OQELC N0067 | Thermometer                         | -                         | -                  | -               | -               | 0                       | 0                | 0              |
| DF (9)                        | Vestfrost    | MF 314       | 20231525033             | Thermometer                         | -                         | -                  | -               | -               | 0                       | 0                | 0              |
| DF (8)                        | Vestfrost    | MF 314       | 20231525048             | Thermometer                         | -                         | -                  | -               | -               | 0                       | 0                | 0              |
| DF (13)                       | Haier        | HBD 286      | BE04F OGASO OQEM1 V0123 | Thermometer                         | -                         | -                  | -               | -               | 0                       | 0                | 0              |
| DF (14)                       | Haier        | HBD 286      | BE04F OGASO OQEM1 V0030 | Thermometer                         | -                         | -                  | -               | -               | 0                       | 0                | 0              |
| IPF (16)                      | Electrolux   | TFW 791      | 17044                   | N/A                                 | -                         | -                  | -               | -               | 0                       | 0                | 0              |

Notes:  
1) Temperature recording methods: T = thermometer; T + FI = thermometer plus freeze indicator; 30-day = 30 day electronic recorder; Chart = chart recorder; Logger = computerized monitoring system. If more than one method was used during the period, enter all types used, e.g. T/30-day or Chart/Logger  
2) If the recording method has an alarm system, record number of high or low alarms from the daily temperature records.  
3) If the daily temperature record shows any excursion(s) above the correct storage temperature range, count this as 1 day.  
4) If the daily temperature record shows any excursion(s) below the correct storage temperature range, count this as 1 day.

iv. Physical Count Record

भौतिक मोजात गणना

भौतिक मोजात नं. : 4906A/81/82/010  
भौतिक मोजात मिति : 2082/4/2  
स्टर : Province Health Logistic Management Center, Butwal, Cold Chain

| सि.नं. | सामान                          | बिन कोड     | ब्याच नं.     | म्याद सक्रिय मिति | टुक्राई | सफरबेचपमा भएको परिमाण | भौतिक परिमाण | फरक परिमाण |
|--------|--------------------------------|-------------|---------------|-------------------|---------|-----------------------|--------------|------------|
| 1      | B.C.G. 20 Dose #               | -Free Area- | 0373MA090     | 04/30/2026        | Vial    | 13,450                | 13,450       | 0          |
| 2      | DPT + Hep B + Hib 10 Dose #    | -Free Area- | 2864X0098     | 11/30/2026        | Vial    | 771                   | 1,000        | 229        |
| 3      | DPT + Hep B + Hib 10 Dose #    | -Free Area- | 2864X016A     | 02/28/2027        | Vial    | 5,629                 | 5,100        | (529)      |
| 4      | DPT + Hep B + Hib 10 Dose #    | -Free Area- | 2864x023B     | 05/31/2027        | Vial    | 4,200                 | 4,200        | 0          |
| 5      | Japanese Encephalitis 5 Dose # | -Free Area- | 8202494C002-1 | 04/24/2026        | Vial    | 4,000                 | 4,000        | 0          |
| 6      | Japanese Encephalitis 5 Dose # | -Free Area- | 8202404C002-2 | 04/24/2026        | Vial    | 9,080                 | 9,080        | 0          |
| 7      | Measles + Rubella 10 Dose #    | -Free Area- | 0124W059      | 02/28/2027        | Vial    | 7,900                 | 7,900        | 0          |
| 8      | Measles + Rubella 10 Dose #    | -Free Area- | 0124W118      | 06/30/2027        | Vial    | 2,400                 | 2,400        | 0          |
| 9      | Td Vaccine 10 Dose #           | -Free Area- | 222600124A    | 12/31/2026        | Vial    | 6,450                 | 6,900        | 450        |
| 10     | B.C.G. Diluents                | -Free Area- | 070354005     | 06/30/2027        | Vial    | 13,450                | 13,450       | 0          |
| 11     | bOPV 10 dose #                 | -Free Area- | 2052324       | 05/21/2026        | Vial    | 1,410                 | 1,410        | 0          |
| 12     | bOPV 10 dose #                 | -Free Area- | 2052424       | 05/21/2026        | Vial    | 4,010                 | 4,010        | 0          |
| 13     | bOPV 10 dose #                 | -Free Area- | 2053924       | 10/29/2026        | Vial    | 1,500                 | 1,500        | 0          |
| 14     | bOPV Dropper                   | -Free Area- | N/A           |                   | Piece   | 8,220                 | 6,920        | (1,300)    |
| 15     | bOPV Dropper                   | -Free Area- | N/A           | 01/01/1753        | Piece   | 8,220                 | 6,920        | (1,300)    |
| 16     | Japanese Encephalitis Diluents | -Free Area- | 202405C02-1   | 05/06/2027        | Vial    | 4,000                 | 4,000        | 0          |
| 17     | Japanese Encephalitis Diluents | -Free Area- | 202405C02-2   | 05/05/2027        | Vial    | 9,080                 | 9,080        | 0          |
| 18     | Measles + Rubella Diluents     | -Free Area- | 0684S1118     | 03/31/2029        | Vial    | 7,900                 | 7,900        | 0          |
| 19     | Measles + Rubella Diluents     | -Free Area- | 0684S1215     | 05/31/2029        | Vial    | 2,400                 | 2,400        | 0          |

(म) निमित्त निर्देशक

v. Stock Adjustment Record



Stock Adjustment Detail Report

Fiscal year : 2081/2082  
 Warehouse Name : Province Health Logistic Management Center Butwal Cold Chain  
 Adjustment No : 4906A/81/82/003  
 Adjustment Date : 22/12/2024

Description:

| SN | Product Description            | Unit | Quantity | Cost Per Unit | Total Cost | Batch No/ Lot No | Expiry Date | VVM Stage | Reason             | Remarks |
|----|--------------------------------|------|----------|---------------|------------|------------------|-------------|-----------|--------------------|---------|
| 1  | Japanese Encephalitis 5 Dose # | Vial | 1,040    | 4.03          | 4,191.20   | B202305C003-2    | 12/05/2025  | N/A       | Physical Inventory |         |
| 2  | Japanese Encephalitis 5 Dose # | Vial | 1,040    | 4.03          | 4,191.20   | B202311C005-1    | 01/11/2025  | N/A       | Physical Inventory |         |
| 3  | Japanese Encephalitis Diluents | Vial | 1,040    | 0.00          | 0.00       | 202305C03-2      | 19/05/2026  | N/A       | Physical Inventory |         |
| 4  | Japanese Encephalitis Diluents | Vial | 1,040    | 0.00          | 0.00       | 202311C06-1      | 21/11/2026  | N/A       | Physical Inventory |         |
| 5  | PCV 10-4 Dose #                | Vial | 1,900    | 11.60         | 22,040.00  | ASP4A426AA       | 31/03/2026  | N/A       | Physical Inventory |         |

vi. Vaccine Batch Card Practice

Vaccine / Diluent Batch Card (New for each batch)

Vaccine Name: DPT+HepB+Tub

| Consignment Arrival Details |                                | Vaccine Details (Vials) |            | Diluent Details (Vials) |  | Temperature Status |                |
|-----------------------------|--------------------------------|-------------------------|------------|-------------------------|--|--------------------|----------------|
| Date and time:              | 09/23/2024                     | Vial size:              | 10 dose    | Ampoule size:           |  | Electronic:        | Fridge tag RTM |
| VAR/HAFA No.:               | 4906A/81/82/003                | Batch No.:              | 284X006    | Batch No.:              |  | CCM card:          |                |
| Manufacturer:               | Secun Institute                | Expiry date:            | 2026/08/08 | Expiry date:            |  | VVM:               | 1              |
| Country:                    | India                          | Quantity:               | 9,900      | Quantity:               |  | Freeze Indicator:  |                |
| Storage location:           | House WIC (15cm <sup>3</sup> ) | Remarks:                |            |                         |  | Follow up info:    |                |

| Vaccine issued (including diluents if applicable) |                          |             |                   |                |         |   |         |           |   |
|---|--------------------------|-------------|-------------------|----------------|---------|---|---------|-----------|---|
| Date  | Received from/ Issued to | Voucher No. | Quantity in vials |                |         |   | Remarks | Signature |   |
|   |                          |             | Received / Issued | Loss/ Adjusted | Balance | 1 |         |           | 2 |
| 09/23/2024  | CW Teku                  | 007         | 9,900             |                | 9,900   | 1 |         |           |   |
| 10/21/2024  | Ayuthan                  | 215         | 50                |                | 9,850   |   |         |           |   |
| 10/21/2024  | Rupandehi                | 216         | 400               |                | 9,450   |   |         |           |   |
| 10/22/2024  | Rupandehi                | 220         | 50                |                | 9,400   |   |         |           |   |
| 10/25/2024  | Rupandehi                | 229         | 50                |                | 9,350   |   |         |           |   |
| 10/25/2024  | Arghakhurd               | 231         | 100               |                | 9,250   |   |         |           |   |

Note: This document should be stored safely for at least 3 years along with the vaccine stock records.

### vii. Expiry Chart Practice

| Vaccine Name/Month             | Year 2025 |     |     | Year 2026 |     |     |     |     |     |     |     |     |     |     |     | Year 2027 |     |     |     |     |     |     |     |     |     |     |     | 2028 |
|--------------------------------|-----------|-----|-----|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
|                                | Oct       | Nov | Dec | Jan       | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan       | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | More |
| B.C.G. Vaccine                 |           |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| B.C.G. Diluent                 |           |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| Rota Vaccine                   |           |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| BOPV Vaccine                   |           |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| BOPV Dropper                   |           |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| FIPV Vaccine                   |           |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| PCV Vaccine                    |           |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| DPT-HepB-Hib Vaccine           |           |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| MR Vaccine                     |           |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| MR Diluent                     |           |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| JE Vaccine                     |           |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| JE Diluent                     |           |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| TCV Vaccine                    |           |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| TD Vaccine                     |           |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| HPV Vaccine                    |           |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| Salmonella Typhi Vaccine       |           |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| Haemophilus Influenza Vaccine  |           |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| Pneumococcal Conjugate Vaccine |           |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| Influenza Vaccine              |           |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| Meningococcal vaccine          |           |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| Anti-Rabies Vaccine 0.5 ml     |           |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| Anti-Rabies Vaccine 01 ml      |           |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| Rabies Antiserum 1500IU IP     |           |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| Anti-Snake Venom               |           |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |

Lumbini Province Government  
PHLMC Butwal  
Expiry Chart for Vaccines & Syringes

| S.N. Vaccine Name/Month                | Year 2025 |     |     |     |     | Year 2026 |     |     |     |     |     |     |     |     |     |     |     | Year 2027 |     |     |     |     |     |     |     |     |     |     |     | 2028 |
|--|-----------|-----|-----|-----|-----|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
|  | Aug       | Sep | Oct | Nov | Dec | Jan       | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan       | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | More |
| 1 B.C.G. Vaccine                       |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 2 B.C.G. Diluent                       |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 3 Rota Vaccine                         |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 4 BOPV Vaccine                         |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 5 BOPV Dropper                         |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 6 FIPV Vaccine                         |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 7 PCV Vaccine                          |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 8 DPT-HepB-Hib Vaccine                 |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 9 MR Vaccine                           |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 10 MR Diluent                          |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 11 JE Vaccine                          |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 12 JE Diluent                          |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 13 TCV Vaccine                         |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 14 TD Vaccine                          |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 15 HPV Vaccine                         |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 16 AD Syringe 0.05 ml                  |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 17 AD Syringe 0.1 ml                   |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 18 AD Syringe 0.5 ml                   |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 19 Rec. Syringe 2 ml                   |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 20 Rec. Syringe 5 ml                   |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 21 AD Syringe 0.2 ml                   |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 22 AD Syringe 0.3 ml                   |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 23 Safety Box                          |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 24 Fridge Tag                          |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 25 Salmonella Typhi Vaccine            |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 26 Haemophilus Influenza Vaccine       |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 27 Pneumococcal Conjugate Vaccine      |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 28 Influenza Vaccine                   |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 29 Meningococcal vaccine               |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 30 Pfizer 6 Dose (Monovalent)          |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 31 Anti-Rabies Vaccine                 |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 32 Rabies Antiserum 1500IU IP (VINRIG) |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 33 Anti-Snake Venom                    |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |
| 34 Syringes for ARV                    |           |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |      |

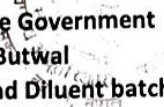
Updated Date: 2082/03/22

Prepared By  
Parbati Chhetri Jhankri

Approved By  
Dr. Rajendra Kumar Giri

निमित्त निदेशक

viii. Vaccine & Diluent Batch Management Practice


  
**Lumbini Province Government**  
**PHLMC Butwal**  
**Vaccine match and Diluent batch**


Date: 2082/03/22

| S.N | Vaccine     | Batch No  | Expiry Date | Diluent     | Batch No  | Expiry Date |
|-----|-------------|-----------|-------------|-------------|-----------|-------------|
| 1   | BCG Vaccine | 0373MA090 | 30/04/2026  | BCG Diluent | 0703S4005 | 30/06/2027  |
|     |             |           |             |             |           |             |

|   |            |          |            |            |           |            |
|---|------------|----------|------------|------------|-----------|------------|
| 2 | MR Vaccine | 0124W059 | 28/02/2027 | MR Diluent | 0684S1118 | 31/03/2029 |
|   |            | 0124W118 | 30/06/2027 |            | 0684S1215 | 31/05/2029 |

|   |            |               |            |            |             |          |
|---|------------|---------------|------------|------------|-------------|----------|
| 3 | JE Vaccine | B202404C002-2 | 24/04/2026 | JE Diluent | 202405C02-2 | 5/5/2027 |
|   |            | B202404C002-1 | 24/04/2026 |            | 202405C02-1 | 6/5/2027 |

Prepared By  
Parbati Chhetri Jhankri 

Approved By   
Dr. Rajendra Kumar Giri



ix. Generator Logbook Record



FY: 2081-82

|   |       |  |                                  |   |      |      |      |      |      |      |      |      |      |                  |      |            |      |      |      |      |      |       |           |      |      |
|---|-------|--|----------------------------------|---|------|------|------|------|------|------|------|------|------|------------------|------|------------|------|------|------|------|------|-------|-----------|------|------|
| जनरेटर संचालन भएको समय                  |       |  |                                  |   |      |      |      |      |      |      |      |      |      | फारम संख्या      |      | 5          |      |      |      |      |      |       |           |      |      |
| Location: स्थान                         |       | प्रदेश स्वास्थ्य आपूर्ति व्यवस्थापन केन्द्र, बुटवल |                                  |   |      |      |      |      |      |      |      |      |      | जनरेटर           |      | Kirloskar  |      |      |      |      |      |       |           |      |      |
| Model: मोडल                             |       | KOEL GREEN 62.5 KVA                                |                                  |   |      |      |      |      |      |      |      |      |      | जडान गरिएको बर्ष |      | २०७८।११।२७ |      |      |      |      |      |       |           |      |      |
| चालु भएको घण्टामा<br>(Service Interval) |       | 125  | 250                              | 375   | 500  | 625  | 750  | 875  | 1000 | 1125 | 1250 | 1375 | 1500 | 1625             | 1750 | 1875       | 2000 | 2125 | 2250 | 2375 | 2500 | 2625  | 2750      | 2875 | 3000 |
|   |       | 3125   | 3250                             | 3375  | 3500 | 3625 | 3750 | 3875 | 4000 | 4125 | 4250 | 4375 | 4500 | 4625             | 4750 | 4875       | 5000 | 5125 | 5250 | 5375 | 5500 | 56125 | 5750      | 5875 | 6000 |
| जनरेटर संचालन भएको अन्तिम समय           |       |  |                                  |   |      |      |      |      |      |      |      |      |      | Ashar 32, 2082   |      |            |      |      |      |      |      |       |           |      |      |
| चालु घण्टा                              |       | 792  |                                  | अर्को सर्भिस गर्नु पर्ने मिति (सर्भिसिड अन्तराल तालिका हेर्नुहोस) |      |      |      |      |      |      |      |      |      |                  |      | 875, 1000  |      |      |      |      |      |       |           |      |      |
| महिना                                   | घण्टा | जम्मा चलेको  | संक्षिप्त विवरण                  |   |      |      |      |      |      |      |      |      |      |                  |      |            |      |      |      |      |      |       | हस्ताक्षर |      |      |
| श्रावण                                  | 12    | 804  |                                  |   |      |      |      |      |      |      |      |      |      |                  |      |            |      |      |      |      |      |       |           |      |      |
| भाद्र                                   | 11    | 815  |                                  |   |      |      |      |      |      |      |      |      |      |                  |      |            |      |      |      |      |      |       |           |      |      |
| असोज                                    | 13    | 828  | असोजमा गते नियमित सर्भिसिड गरेको |   |      |      |      |      |      |      |      |      |      |                  |      |            |      |      |      |      |      |       |           |      |      |
| कार्तिक                                 | 11    | 839  |                                  |   |      |      |      |      |      |      |      |      |      |                  |      |            |      |      |      |      |      |       |           |      |      |
| मंसिर                                   | 10    | 849  |                                  |   |      |      |      |      |      |      |      |      |      |                  |      |            |      |      |      |      |      |       |           |      |      |
| पुस                                     | 33    | 882  |                                  |   |      |      |      |      |      |      |      |      |      |                  |      |            |      |      |      |      |      |       |           |      |      |
| माघ                                     | 37    | 919  |                                  |   |      |      |      |      |      |      |      |      |      |                  |      |            |      |      |      |      |      |       |           |      |      |
| फाल्गुन                                 | 10    | 929  |                                  |   |      |      |      |      |      |      |      |      |      |                  |      |            |      |      |      |      |      |       |           |      |      |
| चैत्र                                   | 18    | 947  | चैत्रमा नियमित सर्भिसिड गरेको    |   |      |      |      |      |      |      |      |      |      |                  |      |            |      |      |      |      |      |       |           |      |      |
| बैशाख                                   | 20    | 967  |                                  |   |      |      |      |      |      |      |      |      |      |                  |      |            |      |      |      |      |      |       |           |      |      |
| जेष्ठ                                   | 14    | 981  |                                  |   |      |      |      |      |      |      |      |      |      |                  |      |            |      |      |      |      |      |       |           |      |      |
| असार                                    | 28    | 1009   |                                  |   |      |      |      |      |      |      |      |      |      |                  |      |            |      |      |      |      |      |       |           |      |      |

तयार गर्ने:  
पार्वती क्षेत्री झाक्री

प्रमाणित गर्ने:  
डा. राजेन्द्र कुमार गिरी  
निमित्त निर्देशक

x. Repair & maintenance Record

Lumbini Province  
List of CC Equipment for maintenance

| S.N. | District         | Palika             | Health Facility     | ILR              |                | Deep Freezer     |             | Repaired Status | Remarks |
|------|------------------|--------------------|---------------------|------------------|----------------|------------------|-------------|-----------------|---------|
|      |                  |                    |                     | Manufacturer     | Model No.      | Manufacturer     | Model No.   |                 |         |
| 1    | Rukum East       | Sisne RM           | DVS                 |                  |                | Celfrost         | BFS-150     | Not Repaired    |         |
| 2    |                  | Ramgram M          | DVS                 |                  |                | Esteem           | ESTD 102    | Repaired        |         |
| 3    |                  | Pratappur RM       | Pratappur HP        |                  |                | Vestfrost        | SB 302      | Not Repaired    |         |
| 4    | Nawalparasi West | Sunwal M           | Sunwal HP           | Vestfrost        | MK 304         |                  |             | Not Repaired    |         |
| 5    |                  | Susta RM           | Susta RM            | Godrej           | GVR 99 Lite    |                  |             | Not Repaired    |         |
| 6    |                  | Bardaghat M        | Makar HP            | Godrej           | GVR 99 Lite    |                  |             | Not Repaired    |         |
| 7    |                  | Siddharthanagar M  | DVS                 | Haier            | Walk-in-Cooler |                  |             | Not Repaired    |         |
| 8    |                  | Siddharthanagar M  | DVS                 |                  |                | B Medical System | TCW 3000 AC | Not Repaired    |         |
| 9    |                  | Om Satiya RM       | Basantpur PHC       | Haier            | HBC 80         | Haier            | HBD 116     | Not Repaired    |         |
| 10   |                  | Om Satiya RM       | Hati Farsatkar HP   | Godrej           | GVR 99 Lite    |                  |             | Not Repaired    |         |
| 11   | Rupandehi        | Butwal             | Amda Hospital       | B Medical System | TCW 3000 AC    |                  |             | Not Repaired    |         |
| 12   |                  | Siyari RM          | Chhapiya HP         | Haier            | HBC 80         |                  |             | Not Repaired    |         |
| 13   |                  | Marchawari RM      | Rayapur PHC         |                  |                | Haier            | HBD 116     | Not Repaired    |         |
| 14   |                  | Sammarimai RM      | Sammarimai RM       | Haier            | HBC 80         | Haier            | HBD 116     | Not Repaired    |         |
| 15   |                  | Sainamaina M       | Parroha HP          | Haier            | HBC 80         |                  |             | Repaired        |         |
| 16   |                  | Ribdikot RM        | Khasauli PHC        | Haier            | HBC 80         | Haier            | HBD 116     | Not Repaired    |         |
| 17   | Palpa            | Ribdikot RM        | Khasauli PHC        | Vestfrost        | MK 304         |                  |             | Repaired        |         |
| 18   |                  | Rambha RM          | Tahu PHC            | Vestfrost        | MK 304         |                  |             | Repaired        |         |
| 19   |                  | Nisdi RM           | Mityal HP           | Haier            | HBC 80         |                  |             | Not Repaired    |         |
| 20   |                  | Mathagadhi RM      | Jhadewa HP          | Haier            | HBC 80         | Haier            | HBD 116     | Not Repaired    |         |
| 21   |                  | Purbakhola RM      | Birkot HP           | Vestfrost        | VLS 204 AC     |                  |             | Repaired        |         |
| 22   |                  | Rolpa              | DVS                 | Haier            | HBC 200        |                  |             | Not Repaired    |         |
| 23   |                  | Rolpa              | District Hospital   | Dometic          | TCW 1152       |                  |             | Not Repaired    |         |
| 24   | Rolpa            | Rungtigadi RM      | Holeri PHC          | Haier            | HBC 70         |                  |             | Repaired        |         |
| 25   |                  | Paribartan RM      | Palika, Putalachaur | Haier            | HBC 70         |                  |             | Repaired        |         |
| 26   |                  | Sunchahari RM      | Powang HP           | B Medical System | TCW 4000 AC    |                  |             | Not Repaired    |         |
| 27   |                  | Lugri RM           | Lugri RM            | Vestfrost        | VLS 204 AC     |                  |             | Not Repaired    |         |
| 28   |                  | Pyuthan M          | DVS                 | Vestfrost        | MK 304         |                  |             | Not Repaired    |         |
| 29   |                  | Pyuthan M          | DVS                 | Vestfrost        | VLS 400        |                  |             | Not Repaired    |         |
| 30   | Pyuthan          | Pyuthan M          | DVS                 |                  |                | Zero Appliances  | GF 230 IP   | Not Repaired    |         |
| 31   |                  | Naubahini RM       | Naubahini RM        |                  |                | Haier            | HBD 116     | Not Repaired    |         |
| 32   |                  | Gaumukhi RM        | Puja HP             | Haier            | HBC 80         |                  |             | Not Repaired    |         |
| 33   |                  | Jhimruk RM         | Okharkot HP         | Haier            | HBC 80         |                  |             | Repaired        |         |
| 34   |                  | Resunga M          | DVS                 | B Medical System | TCW 4000 AC    |                  |             | Repaired        |         |
| 35   |                  | Resunga M          | DVS                 | Vestfrost        | VLS 504 AC     |                  |             | Not Repaired    |         |
| 36   | Gulmi            | Kali Gandaki RM    | Purtighat HP        | Haier            | HBC 80         |                  |             | Repaired        |         |
| 37   |                  | Ishma Rajasthal RM | Isma Rajastal       | Haier            | HBC 80         | Haier            | HBD 116     | Not Repaired    |         |
| 38   |                  | Resunga M          | Resunga M           |                  |                |                  |             | Not Repaired    |         |
| 39   |                  | Musikot M          | Wami Taksar HP      | Haier            | HBC 80         |                  |             | Repaired        |         |
| 40   |                  | Sandhikharka M     | DVS                 | Vestfrost        | MK 304         |                  |             | Not Repaired    |         |
| 41   |                  | Sandhikharka M     | DVS                 |                  |                | Dometic          | TFW 800     | Not Repaired    |         |
| 42   | Arghakhanchi     | Sitganga M         | Thada PHC           | Godrej           | GVR 100 DC SDD |                  |             | Not Repaired    |         |
| 43   |                  | Malarani RM        | Khana HP            | Haier            | HBC 80         |                  |             | Not Repaired    |         |
| 44   |                  | Chhatradev M       | Argatosh HP         |                  |                | Vestfrost        | MK 114      | Not Repaired    |         |
| 45   |                  | Bhumikasthan M     | Bhumikasthan M      | Haier            | HBC 80         |                  |             | Not Repaired    |         |
| 46   | Kapilvastu       | Krishnanagar M     | Krishnanagar HP     |                  |                | Esteem           | ESTD 102    | Not Repaired    |         |
| 47   |                  | Bijaynagar RM      | Gugauli HP          |                  |                |                  |             | Repaired        |         |
| 48   |                  | Maharajgunj M      | Maharajgunj PHC     | Haier            | HBC 80         |                  |             | Not Repaired    |         |
| 49   |                  | Suddhodhan RM      | Labani HP           | Haier            | HBC 80         | Haier            | HBD 116     | Not Repaired    |         |
| 50   | Dang             | Tulsipur SMC       | Tulsipur SMC        | Haier            | HBC 80         |                  |             | Not Repaired    |         |
| 51   |                  | Dangisharan RM     | Srigaun PHC         | Haier            | HBC 80         |                  |             | Not Repaired    |         |
| 52   | Banke            | Rapti Sonari RM    | Rapti Sonari RM     |                  |                | Haier            | HBD 116     | Not Repaired    |         |
| 53   |                  | Narainapur RM      | Narainapur RM       | Haier            | HBC 80         |                  |             | Not Repaired    |         |
| 54   |                  | Khajura RM         | Khajura RM          |                  |                | Godrej           | GMF 200     | Not Repaired    |         |
| 55   | Bardiya          | Gulariya M         | DVS                 |                  |                | Godrej           | GMF 200     | Not Repaired    |         |
| 56   |                  |                    |                     | Haier            | HBC 260        |                  |             | Not Repaired    |         |
| 57   |                  |                    |                     | Vestfrost        | VLS 400        |                  |             | Not Repaired    |         |
|      |                  |                    |                     | Vestfrost        | MK 304         |                  |             | Not Repaired    |         |

Date: 2081/09/28

Prepared By  
Hari Prasad Acharya  
CCI

Approved By  
Dr. Rajendra Kumar Giri  
Director

xi. Contingency Plan for Vaccine Management

| आपतकालीन अवस्था   | पहिलो योजना  | दोस्रो योजना  | जिम्मेवार व्यक्तिहरू                                  | कौफियत (पूर्व तयारी)  |
|---|--|---|---|---|
| विद्युत आपूर्ति नभएमा (लगातार २ घण्टा वा सो भन्दा बढी)                        | VVM र Fridge Tag जाँच गरी तापक्रम अनुगमन पश्चात आवश्यकता अनुसार जेनेरेटर संचालन गर्ने ।  | तत्काल कोल्ड बक्समा कन्डिस्निड गरेको आईसप्याक राखी भ्याक्सिन व्यवस्थापन गर्ने ।   |   | जेनेरेटरको आवश्यकता अनुसार मर्मत तथा सर्भिसिड ६/६ महिनामा गर्ने ।<br>जेनेरेटरको लागि पर्याप्त ईन्धन जगेडा राख्ने ।                  |
| विद्युत प्राधिकरण संग सम्पर्क गरी समयमै विद्युत आपूर्तिको लागि अनुरोध गर्ने । | समयमै विद्युत आपूर्ति नभए नजिकको जिल्ला भ्याक्सिन स्टोर/केन्द्रिय भ्याक्सिन स्टोरमा समन्यय गरी भ्याक्सिनको व्यवस्थापन गर्ने ।                                      | समयमै विद्युत आपूर्ति नभए नजिकको जिल्ला भ्याक्सिन स्टोर/केन्द्रिय भ्याक्सिन स्टोरमा समन्यय गरी भ्याक्सिनको व्यवस्थापन गर्ने ।                                   | निर्देशक/फा<br>मेंसी<br>अधिकृत/<br>सुपरवाइजर          | नजिकको जिल्ला भ्याक्सिन स्टोर/ केन्द्रिय भ्याक्सिन स्टोर संग समन्वय गर्ने ।   |
| WIC/WIF/रेफ्रि जेरेटर/फ्रिजर विग्रेमा   | स्टोरमा रहेको अर्को उपयुक्त WIC/रेफ्रिजेरेटरमा भ्याक्सिनको व्यवस्थापन गर्ने ।<br>सो नभए कोल्ड बक्समा कन्डिस्निड गरेको आईसप्याक राखी भ्याक्सिनको व्यवस्थापन गर्ने । | कोल्ड चैन उपकरणमा जडान भएको भोल्टेज स्टेबिलाइजर बिग्रेको छ कि छैन यकिन गर्ने ।<br>कोल्ड चैन उपकरणमा के कारणले बिग्रेको हो यकिन गरी स्थानिय स्तरमै मर्मत गर्ने । | कोल्ड चैन<br>अधिकृत/सा<br>ह्यक<br>/कार्यालय<br>सहयोगी | मर्मत हुन नसके केन्द्र समन्यय गरी टेक्सिसियनको व्यवस्थापन गर्ने ।<br>प्रत्येक रेफ्रिजेरेटरमा भोल्टेज स्टेबिलाइजर जोडेको हुनुपर्ने । |
| प्राकृतिक प्रकोप भएर WIC/WIF/रेफ्रि जेरेटर/फ्रिजरको विद्युत आपूर्ति नष्ट भएमा | तत्काल कोल्ड बक्समा कन्डिस्निड गरेको आईसप्याक राखी भ्याक्सिन व्यवस्थापन गर्ने ।  | नजिकको जिल्ला भ्याक्सिन स्टोर/ केन्द्रिय भ्याक्सिन स्टोरमा समन्यय गरी भ्याक्सिन व्यवस्थापन गर्ने ।  |   | तत्काल धुवानीको लागि कार्यालयमा रहेको साधन वा सार्वजनिक साधनको व्यवस्थापन गर्ने ।   |

|  |                                   |  |   |
|--|-----------------------------------|--|---|
| आग लागि भएमा   | Fire Extinguisher को प्रयोग गर्ने | दमकल सेवामा सम्पर्क गरी व्यवस्थापन गर्ने | Fire Extinguisher को म्याद सकिए पछि वा प्रयोग भएपछि पुन चर्चा गर्ने |
| माथी उल्लेखित वा जुनसुकै अवस्थामा पनि Temperature Log Book मा नियमित रूपमा दिनको दुई पटक तापक्रम रिकोर्ड गर्ने । |                                   |  |   |

|  |
|--|
| <p><b>कोल्ड बक्स/लगजम्बर मा भ्याक्सिन भण्डारण गर्ने तरिका:</b></p> <ul style="list-style-type: none"> <li>➤ कन्डिसनिङ गरेको आइस प्याक लाइ कोल्ड बक्स को सतह र भित्ता वरिपरि मिलाउने</li> <li>➤ भ्याक्सिन भाइल लाइ बक्स वा जिपलग ब्यागमा राख्ने र राम्रो संग हावा खेल्ने गरी भण्डारण गर्ने</li> <li>➤ थर्मोमिटर वा फ्रिज ट्याग लाई भ्याक्सिन बक्सहरूको विचमा राख्ने र आवश्यक नहुन्जेल कोल्ड बक्स नखोल्ने</li> <li>➤ भ्याक्सिन बक्स मिलाई सके पछि २ तह कन्डिसनिङ गरेको आइस प्याक लाई माथि पट्टी राखी कोल्ड बक्स प्याक गर्ने</li> <li>➤ याद राख्नुहोस: फ्रिज सम्बेदनसिल (DPT-HepB-Hib, PCV, Td, FIPV, Rota, TCV, HPV, OCV) भ्याक्सिनहरू आइस प्याकको प्रत्यक्ष सम्पर्कमा राख्नु हुदैन</li> </ul> |
|--|

## xii. Contact Details

भ्याक्सिन व्यवस्थापनसँग सम्बन्धित जिम्मेवार व्यक्तिको नाम र सम्पर्क नम्बर

| सि. नं. | नाम                       | पद                   | कार्यालय                         | सम्पर्क नम्बर |
|---------|---------------------------|----------------------|----------------------------------|---------------|
| १       | डा. राजेन्द्र कुमार गिरी  | निर्देशक             | प्रादेशिक भ्याक्सिन स्टोर, बुटवल | ९७६६२७८९९२    |
| २       | पुष्प राना क्षेत्री       | फार्मसी अधिकृत       |                                  | ९८४८९९२९२     |
| ३       | मरिचमान खड्का             | कोल्ड चैन असिष्टेन्ट |                                  | ९७४२८८०५८६    |
| ४       | पार्वती क्षेत्री भ्राक्री | कोल्ड चैन असिष्टेन्ट |                                  | ९८६७२९३९७६    |
| ५       | मोहन देव जोशी             | कोल्ड चैन विशेषज्ञ   | यूनिसेफ                          | ९८४९६८५६२९    |

| सि.नं | नाम                 | पद                 | कार्यालय                  | सम्पर्क नम्बर |
|-------|---------------------|--------------------|---------------------------|---------------|
| १     | संजीव कट्टेल        | फार्मसी अधिकृत     | केन्द्रिय कोल्ड रुम, टेकु | ९८४३२४८९६३    |
| २     | स्वातन्त्र राज जोशी | मेकानिकल इन्जिनियर |                           | ९८४९३४७६४९    |

कोल्डरुम, विद्युत प्राधिकरण, दमकल लगायत संस्थाहरूको विवरण

| सि.नं. | कार्यालय                          | सम्पर्क नम्बर                    |
|--------|-----------------------------------|----------------------------------|
| १      | जिल्ला विद्युत कार्यालय           | ०७९५४०२७७                        |
| २      | जिल्ला दमकल सेवा अमरपथ, बुटवल     | ०७९५४०९९९                        |
| ३      | जिल्ला भ्याक्सिन स्टोर, रुपन्देही | ९८४४७९९४९५                       |
| ४      | मुकुन्द बेलबासे (इलेक्टिसियन)     | ९८४७२६८५३६                       |
| ५      | जेनरेटर सेवा                      | ०७९४३७२७६, ९८९८४५५९८४, ९८४९५९३०५ |
| ६      | कृष्ण थापा (कोल्ड चैन उपकरण)      | ९८४९४६९४२२                       |

### xiii. Plan Preventive Maintenance

#### कोल्डचेन उपकरण, भवन र जेनेरेटरको हेरचाह, मर्मत सम्भार तथा व्यवस्थापन

| कार्य अवधि    | कोल्डचेन उपकरणको हेरचाह   | भण्डार भवनको हेरचाह   | भोल्टेज स्टेबलाईजर र जेनेरेटरको हेरचाह   |
|---------------|---|---|--|
| दैनिक कार्य   | <ol style="list-style-type: none"> <li>१. रेफ्रिजेरेटरको तपक्रम दैनिक बिहान र बेलुकी अनुगमन साथै Fridge tag मा देखिने अधिकतम र न्युनतम तापक्रमको अभिलेख राख्ने ।</li> <li>२. यदि तापक्रम +८ से. भन्दा माथि र +२ से. भन्दा कम छ भने उचित उपाय अवलम्बन गर्ने ।</li> <li>३. कोल्ड चेन उपकरणको सरसफाई गर्ने ।</li> <li>४. भ्याक्सिन-डाईलुन्ट लाई भण्डारण गर्दा रेफ्रिजेरेटरको बास्केटमा हावा खेल्ने गरी राख्ने ।</li> <li>५. रेफ्रिजेरेटर र फ्रिजरमा विधुतिय लाइन गएको छ कि छैन यकिन गर्ने ।</li> </ol> | <ol style="list-style-type: none"> <li>१. भुईँ बढार्ने तथा पुछ्ने ।</li> <li>२. काम नलान्ने प्याकिङ्ग समग्री र अन्य फोहोरहरूलाई हटाउने र नष्ट गर्ने ।</li> <li>३. भवनको वरिपरी सरसफाई भएको सुनिच्छित गर्ने ।</li> <li>४. शौचालय र वास बेसिन सफा गर्ने र साबुन, टवाइलेट पेपर, टावल आदिको व्यवस्थापन गर्ने ।</li> </ol>   | <ol style="list-style-type: none"> <li>१. भोल्टेज स्टेबलाईजरको उचित पावर सप्लाय जाँच गर्ने ।</li> <li>२. जेनेरेटर दिनहु कम्तीमा १० मिनेट सञ्चालन गर्ने ।</li> <li>३. जेनेरेटरमा प्रयोग भएको इन्धनको र संचालन घण्टाको रेकर्ड राख्ने ।</li> <li>४. जेनेरेटरको इन्धन आवश्यकता अनुसार जगेडा राख्ने ।</li> <li>४. आकस्मिक अवस्थाको समेत व्यवस्थापन गर्ने ।</li> </ol>         |
| सामाहिक कार्य | <ol style="list-style-type: none"> <li>१. आईस प्याक फुटेको वा चुहिने जाँच गरी पानी भर्ने र आईस प्याक फ्रिजरमा जमाउनको लागि राख्ने ।</li> </ol>  | <ol style="list-style-type: none"> <li>१. रेफ्रिजेरेटर, फ्रिजर र स्टेबलाईजरको माथि र साइडसहित अन्य ठाउँमा रहेको धुलो सफा गर्ने ।</li> </ol>   | <ol style="list-style-type: none"> <li>१. भोल्टेज स्टेबलाईजर र जेनेरेटरको धुलो सफा गर्ने ।</li> <li>२. जेनेरेटरको इन्धन र इन्जिन आयलको मात्रा चेक गर्ने ।</li> </ol>   |
| मासिक कार्य   | <ol style="list-style-type: none"> <li>१. यदि ILR भित्र बरफ जमेको, DF भित्र 5mm भन्दा बाक्लो बरफ जमेको भए डिफ्रस्ट गर्ने ।</li> <li>२. फ्रिजर-रेफ्रिजेरेटरको ढोकाको म्याँसकेटलाई सफा गर्ने ।</li> <li>३. फ्रिजर-रेफ्रिजेरेटरको कण्डेन्सर जाली सफा गर्ने ।</li> <li>४. कोल्ड बक्स, भ्याक्सिन क्यारियर, आईस प्याक र फ्रिजरको आईस प्याक च्याम्बर सफा गर्ने ।</li> </ol>  | <ol style="list-style-type: none"> <li>१. स्टोरका इयालहरू सफा गर्नुपर्दछ ।</li> <li>२. किरा लागेका संकेतहरू जाँच गर्ने । यदि त्यस्तो केहि पाइएमा उपयुक्त किरा नियन्त्रण उपायहरू अवलम्बन गर्ने ।</li> <li>३. उपभोग्य समानहरूको मौज्दात (सरसफाईका साधन, साबुन, बल्ब आदि) अध्यावधिक गर्ने ।</li> <li>४. माकुराको जालो सफा गर्ने ।</li> </ol>   | <ol style="list-style-type: none"> <li>१. जेनेरेटरको व्याट्रीमा पानीको मात्रा चेक गर्ने ।</li> <li>२. जेनेरेटरको नट र बोल्ट खुकुलो भए नभएको जाँच गर्ने ।</li> <li>३. जेनेरेटरमा प्रयोग भएको इन्धनको मासिक प्रतिवेदन तयार पार्ने ।</li> </ol>   |
| बार्षिक कार्य | <ol style="list-style-type: none"> <li>१. फ्रिजर-रेफ्रिजेरेटरमा खिया लागेको भए सफा गरेर पेन्ट गर्ने ।</li> <li>२. कोल्ड चेन उपकरणको मौज्दात अध्यावधिक गर्ने ।</li> <li>३. फ्रिज ट्यागको प्रिन्ट बाट बार्षिक High Alarm Rates र Low Alarm Rates को रिकोर्ड राख्ने ।</li> <li>तपक्रम रेकोर्डको फाइल कार्यालय प्रमुखबाट प्रमाणित गर्ने ।</li> </ol>  | <ol style="list-style-type: none"> <li>१. छतसहित भवनको सामान्य निरीक्षण गर्नुहोस् र तत्काल ध्यान दिनुपर्ने कुनै खराबी भएमा मर्मत गर्ने ।</li> <li>२. आकाशको पानी तह लगाउने प्रणाली को जाँच गर्ने र छत तथा जमिनको पानी जाने सबै खुला राख्ने ।</li> <li>२. आकाशको पानी तह लगाउने प्रणाली को जाँच गर्ने र छत तथा जमिनको पानी जाने सबै स्थान खुला गर्ने ।</li> <li>३. मेकानिकल भेन्टिलेसन प्रणाली जाँच गरी त्यो सहि तरिकाबाट चलिरहेको सुनिश्चित गर्ने ।</li> <li>४. आगो निभाउने Fire Extinguisher को Re-filling र पुनःप्रमाणित गर्ने कार्य गर्ने</li> </ol> | <ol style="list-style-type: none"> <li>१. २५० घण्टा सञ्चालन पश्चात ÷ बढीमा प्रत्येक ६ महिनामा जेनेरेटर सर्भिसिङ्ग गर्ने र संचालन घण्टाको रेकर्ड राख्ने ।</li> <li>२. जेनेरेटरमा प्रयोग भएको इन्धनको बार्षिक प्रतिवेदन तयार पार्ने ।</li> <li>३. साना समस्या आईपरेमा यस मर्मत सम्भार कार्यलाई छोटो अन्तरालको आधारमा, कम्तीमा वर्षको एक-पटक कार्यान्वयन गर्ने ।</li> </ol> |
| अन्य कार्य    | <ol style="list-style-type: none"> <li>१. फ्रिजर-रेफ्रिजेरेटरलाई प्लाष्टिक वा काठको प्यालेटमा सतह मिलाएर राख्ने ।</li> </ol>  | <ol style="list-style-type: none"> <li>१. फुटेका बल्ब र स्ट्रूप लाइट आवश्यकता अनुसार परिवर्तन गर्ने ।</li> <li>२. प्राथमिक उपचार बक्सका समानहरू अध्यावधिक गर्ने ।</li> </ol>  | <ol style="list-style-type: none"> <li>कार्य समयको बेला कुनै दुर्घटना भएमा प्रथमिक उपचारका लागि फस्ट एड किटको व्यावस्थापन गर्ने ।</li> </ol>   |

|                       |   |  |  |
|-----------------------|---|--|--|
|                       | <p>२. फ्रिजर-रेफ्रिजेरेटरलाई एकआपस र भित्ता देखि कम्तीमा 10 cm को दुरीमा राख्ने ।</p> <p>३. कोल्ड चेन उपकरणको मोडल नं., सिरियल नं., भ्याक्सिन भण्डारण गर्ने क्षमता, आदि कुराको अभिलेख देखिने गरी राख्ने ।</p> <p>४. कोल्ड चेन उपकरण विग्रिएमा तुरुन्तै सम्बन्धित निकायमा मर्मत सम्भारको लागि खबर गर्ने ।</p>  | <p>३. सम्पन्न भएका सबै नियमित मर्मत-सम्भार र आपतकालिन मर्मत कार्यहरू सम्मिलित एउटा बार्षिक मर्मत-सम्भार प्रतिवेदन तयार गर्ने ।</p> | <p><b>साधारण खराबी:</b> २४ घण्टाभित्र समस्याको समाधान गरेर जेनेरेटरलाई पुनः चालु गर्ने ।</p> <p><b>ठूलै खराबी:</b> जेनेरेटरले काम नगरेको र खोप भण्डारमा दुई घण्टाभन्दा बढी समयसम्मको विद्युत कटौती भएको जानकारी विद्युत वितरक संस्थालाई गराउने र सात दिनभित्रमै जेनेरेटरको समस्या समाधान गर्ने ।</p> |
| <p><b>रिपोर्ट</b></p> | <p>१. मासिक रुपमा भ्याक्सिन, डाईलुन्ट र सिरिन्जको भौतिक गणना गरी अभिलेख राख्ने ।</p> <p>२. मासिक प्रतिवेदन रिपोर्ट तयार गर्ने र सम्बन्धित निकायमा समयमै पठाउने ।</p> <p>३. Fridge Tag र RTMD को रिकोर्ड प्रिन्ट गरी कार्यालय प्रमुख बाट प्रमाणित गराई राख्ने ।</p> <p>माग फारम, ह.फा. र दाखिला दुरुस्त राख्ने साथै ७ दिन भित्र दाखिला गरी पठाउने ।</p> <p>५. भ्याक्सिन माग तथा वितरण गर्दा अनिवार्य रुपमा माग वितरण तथा प्राप्त फारमको (ISR Form) प्रयोग गर्ने ।</p> <p>६. PAMS System बाट माग, ह.फा तथा दाखीला गरी दैनिक जिन्सी खाता अध्यावधिक गर्ने ।</p> <p>७. जिन्सी निरिक्षण फारम अध्यावधिक गर्ने ।</p> <p>८. व्याच कार्ड मा भ्याक्सिन, डाईलुन्ट र सिरिन्जको अभिलेख राख्ने ।</p> <p>९. EVM/SOP अनुसारको सबै कार्यहरू नियमित रुपमा सम्पन्न गर्ने ।</p> <p>१०. मातहतका सबै संस्थामा अनुगमन गरी माथिका सबै कार्य गर्न र रिकोर्ड दुरुस्त राख्न सहयोग गर्ने ।</p> |  |  |

नोट: सम्पन्न भएका सबै नियमित रिपोर्ट, प्रतिवेदन, मर्मत-सम्भार र आपतकालिन मर्मतकार्यहरू सम्मिलित मासिक प्रतिवेदनहरूको अभिलेख ३ बर्ष सम्म सुरक्षित राख्नु पर्दछ ।

# भ्याक्सिन भण्डारण तथा वितरण गर्दा अनिवार्य रूपमा पालना गर्नुपर्ने कार्यहरू

## खोप भण्डारण गर्ने तरिका

| भ्याक्सिन                | केन्द्रीय भ्याक्सिन स्टोर                  | प्रादेशिक भ्याक्सिन स्टोर                | जिल्ला भ्याक्सिन स्टोर                   | भ्याक्सिन सव-स्टोर                       | भ्याक्सिन वितरण गर्ने स्वास्थ्य संस्था   |
|--------------------------|--|--|--|--|--|
|                          |  | भण्डार राख्न सकिने अधिकतम मौज्जातको अवधि | भण्डार राख्न सकिने अधिकतम मौज्जातको अवधि | भण्डार राख्न सकिने अधिकतम मौज्जातको अवधि | भण्डार राख्न सकिने अधिकतम मौज्जातको अवधि |
|                          | ६-१२ महिना                                 | ४-५ महिना                                | २-२५ महिना                               | १-२५ महिना                               |  |
| ओ.पी.सी.                 | -१५° से. देखि -२५° से. तापक्रममा राख्ने।   |  |  |  |  |
| डी.सि.जि.                | २° से. देखि +२° से. तापक्रममा राख्ने।      |  |  |  |  |
| दादुरा-रुभेला            | विशेष १५° से. देखि २०° से. तापक्रम राख्ने। |  |  |  |  |
| जे.इ.                    |  |  |  |  |  |
| टी.सी.                   |  |  |  |  |  |
| डी.पि.टी. हेप-बी वि.डि.व |  |  |  |  |  |
| आई.पी.सी.                |  |  |  |  |  |
| पि.सि.सी.                |  |  |  |  |  |
| रोटा                     |  |  |  |  |  |

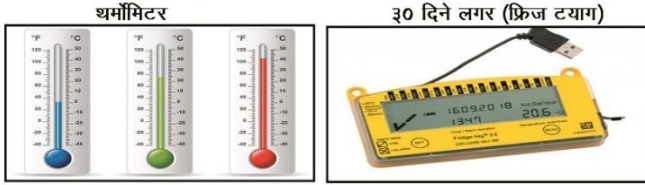
| तातोले क्रमअनुसार छिट्टो बिग्रिने |                          | धेरै चिसोबाट बिग्रिने   |                          |
|-----------------------------------|--------------------------|-------------------------|--------------------------|
| संवेदनशीलता                       | भ्याक्सिन                | संवेदनशीलता             | भ्याक्सिन                |
| सबै भन्दा बढी संवेदनशील           | पोलियो                   | सबै भन्दा बढी संवेदनशील | डी.पि.टी. हेप-बी वि.डि.व |
|                                   | दादुरा रुभेला            |                         | टी.सी.                   |
|                                   | बी.सि.जी.                |                         | पि.सि.पि.                |
|                                   | रोटा                     |                         | आई.पि.पि.                |
|                                   | डी.पि.टी. हेप-बी वि.डि.व |                         | रोटा                     |
|                                   | टी.सी.                   |                         |                          |
|                                   | पि.सि.पि.                |                         |                          |
| सबै भन्दा कम संवेदनशील            | आई.पि.पि.                | सबै भन्दा कम संवेदनशील  | रोटा                     |

सम्झनुहोस्: तातोबाट सबै भ्याक्सिन बिग्रिन्छन् र जमेर पनि केही भ्याक्सिन बिग्रिन्छन्। त्यसैले भ्याक्सिन +२° से. देखि +८° डिग्री से. तापक्रममा भण्डारण गर्ने र दैनिक बिहान बेलुका अनिवार्य रूपमा तापक्रमको अनुगमन घाट गर्ने र मासिक रूपमा कार्यालय प्रमुखबाट प्रमाणित नवी राख्नु पर्दछ। आईसप्याक कण्डिसनिङ्ग (बरफ र पानी छुटिएको) किन ?

- जमेको आईसप्याक मार्डनस तापक्रममा रहने भएकोले सम्पर्कमा आउने भ्याक्सिनहरू बिग्रिन्छन्।
- भ्याक्सिन वितरण गर्दा आईसप्याक कण्डिसनिङ्ग गरेर मात्र वितरण गर्ने।



### तापक्रम नाप्ने औजारहरू :



भ्याक्सिनको सेकटेस्ट गर्नुपर्ने अवस्थाहरू:

- रेफ्रिजेरेटरमा तापक्रम अनुगमन गर्दा मार्डनस (-) गएमा।
- कण्डिसनिङ्ग नगरिएको आईसप्याक राखी भ्याक्सिन वितरण भएमा।



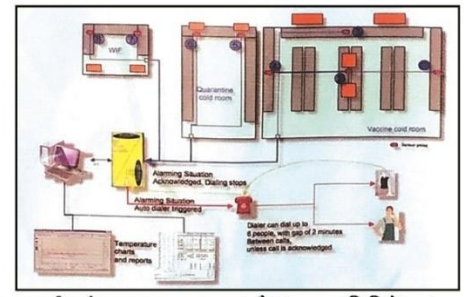
## भ्याक्सिन भायल मनिटर (भी.भी.एम.) मा परिवर्तन हुने संकेत र यसको अर्थ

- बाहिरी गोलकार मित्रको रङ्ग भन्दा चारकुने मित्रको रङ्ग सेतो भएको। भ्याक्सिनको म्याद गुजेको छैन भने प्रयोग गर्ने। पि.पि.एम. अवस्था १
- चारकुने मित्रको रङ्ग अर्धैपनि बाहिरी गोलकार मित्रको रङ्ग भन्दा कम गाढा भएको। भ्याक्सिनको म्याद गुजेको छैन भने प्रयोग गर्ने। पि.पि.एम. अवस्था २
- भ्याक्सिन प्रयोग गर्न नहुने अवस्था : चारकुने मित्रको रङ्ग र बाहिरी गोलकार मित्रको रङ्ग एकैगनासको भएको। भ्याक्सिन प्रयोग नगर्ने र सुपरीवेसकलाई जानकारी दिने। पि.पि.एम. अवस्था ३
- भ्याक्सिन प्रयोग गर्न नहुने अवस्था : चारकुने मित्रको रङ्ग र बाहिरी गोलकार मित्रको रङ्ग भन्दा बढी गाढा (कालो) भएको। भ्याक्सिन प्रयोग नगर्ने र सुपरीवेसकलाई जानकारी दिने। पि.पि.एम. अवस्था ४



- भण्डारण गर्दा:
- फ्रिजर नजिक जमेर बिग्रने भ्याक्सिनहरू नराख्ने।
  - तापक्रम मापन गर्ने औजारहरू प्रयोग गर्ने।
- वितरण गर्दा:
- कण्डिसनिङ्ग गरेको आईसप्याकका मात्रा प्रयोग गर्ने।

### मल्टिलग



नतिजा: बिग्रिएको भ्याक्सिन जमाएको भ्याक्सिन भन्दा छिट्टो वा संगै थिग्रिन्छ। यस्तो भ्याक्सिन प्रयोग गर्नु हुँदैन।

xv. National Immunization Schedule



नेपाल सरकार  
स्वास्थ्य तथा जनसंख्या मन्त्रालय  
स्वास्थ्य सेवा विभाग  
परिवार कल्याण महाशाखा

# राष्ट्रिय खोप तालिका



पूर्ण खोप, सुरक्षित भविष्य

| पटक/भेट | कुन उमेरमा  | कुन खोप  | सुई लगाउने स्थान र माध्यम   | कुन रोगबाट बचाउँछ   |
|---------|---|--|---|---|
|         | गर्भवति महिला   | टि.डी.<br>पहिलो गर्भमा कम्तिमा एक महिनाको अन्तरमा २ पटक र त्यसपछिको प्रत्येक गर्भमा १ पटक                              | बाँया पाखुराको विच बाहिरी भाग मासुमा (Intramuscular)  | मातृ तथा नवजात शिशु धनुष्टंकार र भ्यागुते रोग   |
| १       | <br>जन्मने वित्तिकै सकेसम्म छिटो                        | वि.सि.जी.<br>  | दाँया पाखुराको माथिल्लो भाग छालाभित्र (Intradermal)   | क्षयरोग   |
| २       | <br>६ हप्तामा   | रोटा (पहिलो मात्रा)<br>पोलियो (पहिलो मात्रा)<br>पि.सि.भी (पहिलो मात्रा)<br>डि.पि.टी. हेप-बी हिब (पहिलो मात्रा)<br>     | <ul style="list-style-type: none"> <li>• मुखमा (गालाको भित्री भागमा)</li> <li>• मुखमा दुई थोपा</li> <li>• दाँया तिघ्राको विच बाहिरी भाग मासुमा (Intramuscular)</li> <li>• बाँया तिघ्राको विच बाहिरी भाग मासुमा (Intramuscular)</li> </ul>     | <ul style="list-style-type: none"> <li>• रोटा भाइरसबाट हुने फाडापखाला</li> <li>• पोलियो</li> <li>• निमोनिया (न्यूमोकोकल रोगहरु)</li> <li>• भ्यागुते रोग, लहरे खोकी, धनुष्टंकार, हेपाटाइटिस-बी, हेमोफिलस इन्फ्लुएन्जा-बी,</li> </ul> |
| ३       | <br>१० हप्तामा  | रोटा (दोश्रो मात्रा)<br>पोलियो (दोश्रो मात्रा)<br>पि.सि.भी (दोश्रो मात्रा)<br>डि.पि.टी. हेप-बी हिब (दोश्रो मात्रा)<br> | <ul style="list-style-type: none"> <li>• मुखमा (गालाको भित्री भागमा)</li> <li>• मुखमा दुई थोपा</li> <li>• दाँया तिघ्राको विच बाहिरी भाग मासुमा (Intramuscular)</li> <li>• बाँया तिघ्राको विच बाहिरी भाग मासुमा (Intramuscular)</li> </ul>     | <ul style="list-style-type: none"> <li>• रोटा भाइरसबाट हुने फाडापखाला</li> <li>• पोलियो</li> <li>• निमोनिया (न्यूमोकोकल रोगहरु)</li> <li>• भ्यागुते रोग, लहरे खोकी, धनुष्टंकार, हेपाटाइटिस-बी, हेमोफिलस इन्फ्लुएन्जा-बी,</li> </ul> |
| ४       | <br>१४ हप्तामा  | पोलियो (तेस्रो मात्रा)<br>एफ.आई.पि.भी. (पहिलो मात्रा)<br>डि.पि.टी. हेप-बी हिब (तेस्रो मात्रा)<br>                      | <ul style="list-style-type: none"> <li>• मुखमा दुई थोपा</li> <li>• दाँया पाखुराको माथिल्लो भाग छालाभित्र (Intradermal)</li> <li>• बाँया तिघ्राको विच बाहिरी भाग मासुमा (Intramuscular)</li> </ul>   | <ul style="list-style-type: none"> <li>• पोलियो</li> <li>• पोलियो</li> <li>• भ्यागुते रोग, लहरे खोकी, धनुष्टंकार, हेपाटाइटिस-बी, हेमोफिलस इन्फ्लुएन्जा-बी,</li> </ul>   |
| ५       | <br>९ महिनामा   | एफ.आई.पि.भी. (दोश्रो मात्रा)<br>दादुरा-रुबेला (पहिलो मात्रा)<br>पि.सि.भी (तेस्रो मात्रा)<br>                           | <ul style="list-style-type: none"> <li>• दाँया पाखुराको माथिल्लो भाग छालाभित्र (Intradermal)</li> <li>• बाँया पाखुराको माथिल्लो भाग छाला र मासु बीच (Subcutaneous)</li> <li>• दाँया तिघ्राको विच बाहिरी भाग मासुमा (Intramuscular)</li> </ul> | <ul style="list-style-type: none"> <li>• पोलियो</li> <li>• दादुरा र रुबेला</li> <li>• निमोनिया (न्यूमोकोकल रोगहरु)</li> </ul>   |
| ६       | <br>१२ महिनामा  | जापानिज इन्सेफलाइटिस<br>   | दाँया तिघ्राको माथिल्लो बाहिरी भाग छाला र मासु बीच (Subcutaneous)   | जापानिज इन्सेफलाइटिस  |
| ७       | <br>१५ महिनामा  | दादुरा-रुबेला (दोश्रो मात्रा)<br>टाइफाइड<br>   | <ul style="list-style-type: none"> <li>• बाँया पाखुराको माथिल्लो भाग छाला र मासु विच (Subcutaneous)</li> <li>• बाँया तिघ्राको विच बाहिरी भाग मासुमा (Intramuscular)</li> </ul>  | <ul style="list-style-type: none"> <li>• दादुरा र रुबेला</li> <li>• टाइफाइड</li> </ul>  |
| ८       | <br>कक्षा ६ की छात्रा र विद्यालय नजाने १० वर्षकी किशोरी | एच.पि.भी.<br>  | बाँया पाखुराको विच बाहिरी भाग मासुमा (Intramuscular)  | पाठेघरको मुखको क्यान्सर   |

THANK YOU!!!

**Glimpses:**



