COLD CHAIN LOGISTICS IMPROVEMENT PLAN – DARBHANGA

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| Work plan for Cold Chain and Vaccine Logistics Management Strengthening | | | | | | | | | | |
| Criteria: Vaccine Storage Temperature | | | | | | | | | | |
| What need to be done | **Priority** | **Activity code** | **Activity** | **Level of Implementation** | **Responsible Person and Organisation** | **Start Date** | **End Date** | **Funds needed (in Rs)** | **Funding source** | **Remark** |
| Improve temperature recording of all cold chain equipment | High | E2 | Ensure alcohol stem thermometer/data logger in every cold chain equipment | DVS, BVS | Cold chain handler/MOIC/ DIO/SIO | 1.10.2014 | 31.12.2014 | - | - | - |
| Medium | E2 | Capacity building of cold chain handlers in reading thermometer | DVS, BVS | MOIC/DIO | 1.11.2014 | 31.12.2014 |  | NRHM PIP 14-15 Part C | RI Training/ Meeting (Monthly and quarterly RI meeting at district and block) |
| Medium | E2 | Update temperature logbook including remarks such as power failure, defrosting, make and model number of cold chain equipment. | DVS, BVS | Cold chain handler/MOIC/ DIO | 1.10.2014 | 31.12.2014 |  | RKS |  |
| Storage Capacity | High | E3 | Provision of DF and ILR as per target population | DVS, BVS | SIO and Govt. of India | 1.10.2014 | 31.03.2015 | - | - | Govt. of India to supply additional cold chain equipment to the state (Bihar). |
| Medium | E3 | Development of dedicated dry space | DVS, BVS | DM/CS/DIO | 1.11.2014 | 31.03.2015 |  | NRHM  (Annual maintenance grant) | A partition needed in existing cold chain store to develop dry storage space. |
| Medium | E3 | Development of Vaccine Emergency Preparedness Plan | DVS, BVS | DIO and development partners | 1.11.2014 | 31.03.2015 |  | Development Partner | Prototype given in Cold Chain Handlers Module |
| Medium | E3 | Proper storage of vaccine in ILR | DVS, BVS | DIO and UNICEF | 1.11.2014 | 31.03.2015 |  | UNICEF | Signage for ILR and DF to be developed by UNICEF |
| Building, Cold Chain Equipment and Transport | High | E4 | Development of separate RVS, Building, Equipment, Human Resource | State | SIO, DM, CS, DIO | 1.04.2015 | 31.03.2016 | - | NRHM | For proposal in NRH PIP 2015-2016 |
|  | High | E4 | Supply of Cold Chain Equipment – repair Toolkit and floating assembly | District | SIO, UNICEF | 1.11.2014 | 31.03.2015 |  | NRHM, UNICEF | Each District should have Tool Kit and Cold Chain Float Assembly to reduce cold chain sickness rate. |

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|  | Medium | E4 | Renovation of existing cold chain stores to meet required standards for ventilation, cleanliness, safety, free from cracks, seepage and safe electrical refitting where required. | DVS, BVS | DM/CS | 1.11.2014 | 31.03.2015 |  | NRHM | To be incorporate in PIP 2-15-16 |
| Medium | E4 | Condemnation of obsolete cold chain equipment | DVS, BVS | Cold Chain Technician | 1.11.2014 | 31.03.2015 |  |  | Letter issued by State Health Society (SHSB/RI/414/13/3570 Dt. 15.05.2014) |
| Medium | E4 | Generator backup up to all cold chain stores | DVS, BVS | CS/DIO | 1.11.2014 | 31.03.2015 |  | NRHM PIP 2014-2015 | Generator outsource to district, POL for generator of cold chain store (State PIP 2014-2015) |
| Medium | E4 | Functional voltage stabilizer for every cold chain equipment | DVS, BVS | CS/DIO/DFID | 1.11.2014 | 31.03.2015 |  | AMC/DFID | Repair of existing non-functional voltage stabilizers or purchase of new voltage stabilizer where needed |
| Low | E4 | Provision of landline telephone with broadband internet connectivity | DVS, BVS | DM/CS | 1.11.2014 | 31.03.2015 |  | Incorporation in NRHM PIP 2015-2016 |  |
| Maintenance of building, cold chain equipment and vehicles | High | E5 | Regular preventive maintenance of cold chain equipment | District | SIO, SHSB | 1.11.2014 | 31.03.2015 |  | NRHM/UNICEF | Each district to have dedicated cold chain technician |
| Medium | E5 | Preventive maintenance and overhaul programme for vehicles (Teeka Express) | District | DM/CS/SIO | 1.11.2014 | 31.03.2015 |  |  | Six monthly preventive maintenance of vehicles (outsourcing) |
| Low | E5 | Preventive maintenance of buildings | District | DM/CS | 1.10.2014 | 31.03.2015 |  | - | Coordination with PWD |
| Vaccine stock management | High | E6 | Computerised vaccine stock management (BVLMS) | DVS, BVS | DIO/DEO/ Cold Chain Handler, MOIC,BHM, UNICEF | 1.10.2014 | 31.03.2015 |  | UNICEF | Scale up of BVLMS up to block |
| Medium | E6 | Use of standard vaccine stock register, indent form, issue voucher, and issue register | DVS, BVS | SIO/DIO | 1.10.2014 | 31.03.2015 | - | - | New vaccine register, passbook, challan, issue register supplied to all DVS, BVS. Training imparted to all cold chain handlers by UNICEF |
| Low | E6 | Development of system for vaccine arrival notification, issue of arrival voucher and regular physical count of vaccine and diluents. | DVS, BVS | DIO/Cold Chain Handler | 1.11.2014 | 31.03.2015 | - | - | Monthly physical count of vaccine and diluents and match with the stock register. |
| Vaccine distribution | High | E7 | Development of effective vaccine distribution plan and its execution | DVS, BVS, | DIO/DEO/CCH | 1.11.2014 | 31.03.2015 | - | - | Regular distribution of vaccines from higher level to lower level. (RVS to DVS, DVS to BVS) |
| Medium | E7 | Implementation of MDVP | DVS, BVS, | DIO/CCH/HW | 1.10.2014 | 31.03.2015 | - | - | MDVP guidelines letter issued by SHSB (SHSB/RI/348/10/1538 Dated 22.02.2013) |
| Medium | E7 | Determination of reorder level for each antigen and lead time for each facility | DVS, BVS | DIO/DEO/BHM | 1.10.2014 | 31.03.2015 | - | - | Maximum minimum inventory control mechanism to be developed |
| Vaccine Management | High | E8 | Capacity building of DIO, MOIC, HW, CCH, CC Technicians and managers in various aspects of routine immunisation and cold chain. | District | DIO and Development Partners | 1.11.2014 | 31.03.2015 | - | NRHM PIP, 201402015/Development Partner | Training on three day “RI Training of Medical Officers” and two day training in “Cold Chain Handlers Module” |

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|  | High | E8 | Capacity building of data entry operators and managers in NCCMIS, BVLMS, HMIS, MCTS | District | DIO, UNICEF | 1.11.2014 | 31.03.2015 | - | - | One day re-orientation training on NCCMIS, BVLMS, HMIS, MCTS |
| Medium | E8 | Training of DIO, MOIC in using “Immunisation data for action” | District | DIO, UNICEF | 1.11.2014 | 31.03.2015 |  | - | Half day training of DIO, MOIC in using “Immunisation data for action” |
| MIS and Supportive functions | High | E9 | Supportive supervision for RI and Cold Chain by line supervisors, development partners, medical college faculties | District, Block | SIO, DIO, Development Partners | 1.11.2014 | 31.03.2015 | - | NRHM PIP 2015-2015, Part C/Development Partners | Supportive supervision using android based technology |
| Medium | E9 | Availability of real time data for evidence based decision-making. Use of android technology in supportive supervision | District, Block | SIO, DIO, Development Partners (UNICEF as lead partner) | 1.11.2014 | 31.03.2015 | - | UNICEF | Dissemination through “Supportive Supervision cell”, Dept. of PSM, AIIMS, Patna |
| Medium | E9 | Cold chain supportive management. Capacity building of DIO, DEO in using EVM dashboard. | State | SIO, UNICEF | 1.11.2014 | 31.14.2014 | - | UNICEF | One day training on EVM dashboard |
| Deployment of human resource | High | - | Deployment of dedicated full time district immunisation officer, cold chain technician in each district | State | Govt. of Bihar, SHSB | 1.04.2015 | 31.03.2016 | - | - | Regular/NRHM |
| High | - | Reorganization of cadre of CCH | State | SIO, DIO | 1.11.2014 | 31.14.2014 | - | - | Trained dedicated ANM to be given full charge as cold chain handler |
| Medium | - | Recruitment of regional vaccine logistic manager | State | SHSB, Development Partners | 1.04.2015 | 31.03.2016 | - | NRHM/Development Partners | For proposal in NRHM 2015-2016 |
|  | Low | - |  |  |  |  |  |  |  |  |