COLD CHAIN LOGISTICS IMPROVEMENT PLAN – MUZAFFARPUR

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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** | **Fund Needed**  **(in Rs.)** | **Funding Source** | **Remarks** |
| Improve temperature recording of all cold chain equipment’s | 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 |  | RKS |  |
| Medium | E2 | Capacity building of cold chain handler in reading thermometer. | DVS,BVS | MOIC/DIO monthly and quarterly RI meeting at dist and block | 1.11.2014 | 31.12.2014 |  | NRHM, PIP-2014-15 part C | RI Training/Meeting monthly and quarterly RI meeting at dist and block |
| Medium | E2 | Update temperature log book including remarks such as review MISC/DIO, power failure, defrosting, | DVS,BVS | Cold chain handler/MOIC/DIO | 1.10.2014 | 31.12.2014 | - | - | - |
| Storage capacity | High | E3 | Provision of additional ILR and DF 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 and display of vaccine emergency preparedness Plan | DVS,BVS | DIO and development partners | 1.11.2014 | 31.01.2015 |  | Development Partner | Prototype given in cold chain handler’s module. |
| Medium | E3 | Proper storage of vaccine in ILR | DVS, BVS | DIO and UNICEF | 1.11.2014 | 31.01.2015 |  | UNICEF | SIGNAGES 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 NRHM-PIP 2015-16 |
| High | E4 | Supply of Cold Chain equipment – repair tool kit and float 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. |
| Medium | E4 | Renovation of existing cold chain store to meet required standard for ventilation cleanliness, cracks and free from water seepage.  Electrical refitting were required | DVS, BVS | DM, CS (PWD) | 1.11.2014 | 31.12.2015 | - | NRHM | To be incorporated in PIP 2015-16 |
| Medium | E4 | Condemnation of obsolete equipment | DVS, BVS | Cold Chain Technician | 1.11.2014 | 31.03.2015 |  | - | Letter issued by State Health Society, Bihar. Letter no (SHSB/RI/414/13/3570 Dt.15/05/14) |
| Medium | E4 | Generator back-up to all cold chain Stores | DVS, BVS | SC, DIO | 1.11.2014 | 31.12.2015 |  | NRHM-PIP 2014-15 | Generator outsource to Dist. , POL for generator of cold chain store (State PIP 2014-15) |
| Medium | E4 | Functional Voltage Stabilizer for every Cold Chain Equipment. | DVS, BVS | CS, DIO, DFID | 1.11.2014 | 31.03.2015 |  | AMC / DFIT | Repair of existing non-functional Voltage stabilizer or purchase of new Voltage Stabilizer needed. |
| Low | E4 | Provision of Land Line Telephone with Broadband internet connectivity. | DVS, BVS | DM and CS | 1.11.2014 | 31.12.2015 |  | Incorporation in NRHM, PIP 2015-16 |  |
| Maintenance of building , CCE and Vehicles | High | E5 | Regular preventing 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 program for vehicle (TEEKA Express) | District | DM, CS, DIO | 1.11.2014 | 31.12.2015 |  |  | Six monthly preventive maintenance of vehicles (Outsourcing) |
| Low | E5 | Preventive maintenance of buildings | District | DM, CS | 1.11.2014 | 31.12.2015 |  | - | Coordination with PWD |
| Vaccine Stock Management | High | E6 | Computerized vaccine stock management (BBLMS) | DVS, BVS | DIO, DEO, Cold Chain Handler, MOIC, BHM, UNICEF | 1.10.2014 | 31.12.2015 | - | 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, Cold Chain handler | 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, Cold Chain Handler, health worker | 1.10.2014 | 31.03.2015 | - | - | MDVP guideline 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, health workers, Cold Chain handler, Cold Chain manager, in various aspects of routine immunisation and cold chain | District | DIO, Development Partner | 1.11.2014 | 31.12.2015 |  | NRHM, PIP 2014-15 part C /Development Partner | 3 day “RI Training of Medical Officer and 2 day training in “Cold chain handlers module” |
| High | E8 | Capacity building of Data Entry Operator and managers in NCCIS, HMIS, MCTS. | District | DIO, UNICEF | 1.11.2014 | 31.12.2015 | - |  | One day reorientation training on NCCIMS, BVLMS, HMIS, MCTS |
| Medium | E8 | Training of DIO MOIC in using “Immunization data for action” | District |  | 1.11.2014 | 31.03.2015 | - |  | Half day training of DIO MOIC in using “Immunization data for action” |
| MIS and supportive function | High | E9 | Supportive supervision for RI and Cold Chain by line supervisors, development partner, Medical College faculty. | District, Block | SIO, DIO, Development Partners | 1.11.2014 | 31.03.2015 | - | NRHM, PIP 2014-15 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 | SO, DIO, Development partners (UNICEF as lead partner) | 1.11.2014 | 31.12.2015 | - | UNICEF | Dissemination through supportive “Supervision cell”, Department of PSM, AIIMS, Patna |
| Medium | E9 | Cold Chain Supportive management. Capacity building of PIO, data Entry Operator in using EVM Dashboard. | State | SIO, UNICEF | 1.11.2014 | 31.12.2014 | - | UNICEF | One day training on EVM dashboard. |
| Deployment of human resource | High | - | Deployment of dedicated full Time DIO, Cold Chain tech. 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 | 31.03.2015 | - | - | Trained dedicated ANM to be given full charge as cold chain handler. |
| Medium | - | Recruitment of regional vaccine Logistic manager | State | SHSB, Development partner | 1.04.2015 | 31.03.2016 |  | NRHM/Development Partner | For proposal in NRHM – PIP 2015-16. |