

## COLD CHAIN LOGISTICS IMPROVEMENT PLAN – LAKHISARAI

| Work plan for Cold Chain and Vaccine Logistics Management Strengthening |          |               |  |                      |   |            |            |                      |                            |  |
|---|----------|---------------|--|----------------------|---|------------|------------|----------------------|----------------------------|--|
| Criteria; Vaccine Storage Temperature                                   |          |               |  |                      |   |            |            |                      |                            |  |
| What needs to be done   | Priority | Activity Code | Activity   | Implementation Level | Responsibility  | Start Date | End Date   | Fund Needed (in Rs.) | Funding Source             | Remarks  |
| 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/MOI C/DIO/SIO                                | 1.10.2014  | 31.12.2014 | --                   | RKS                        | --   |
|   | Med      | E2            | Capacity building of cold chain handler in reading thermometer.                                      | DVS,BVS              | MOIC/DIO monthly and quarterly RI meeting at district and block | 1.11.2014  | 31.12.2014 | --                   | NRHM, PIP-2014-2015 part C | RI Training/Meeting monthly and quarterly RI meeting at district and block.  |
|   | Med      | E2            | Update temperature log book including remarks such as review by MISC/DIO, power failure, defrosting. | DVS,BVS              | Cold chain handler/MOI C/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). |



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|---|------|----|--|----------|------------------------------|-----------|------------|---------------------------------|---------------------|--|
|   | Med  | 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.                        |
|   | Med  | 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.  |
|   | Med  | 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 | 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. |
|   | Med  | 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 2015-2016  |
|   | Med  | E4 | Condemnation of obsolescent 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)                        |

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|   |      |    |  |          |               |           |            |    |                                     | Dt.15/05/14)   |
|   | Med  | E4 | Generator back-up to all cold chain Stores.                              | DVS, BVS | SC, DIO       | 1.11.2014 | 31.12.2015 | -- | NRHM-PIP 2014-2015                  | Generator outsource to Dist. , POL for generator of cold chain store (State PIP 2014-2015).        |
|   | Med  | 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 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 | --   |
| <b>Maintenance of building , CCE and Vehicles</b> | 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.   |
|   | Med  | E5 | Preventive maintenance and overhaul program for vehicle (TEEKA Express). | District | DM, CS, DIO   | 1.11.2014 | 31.12.2015 | -- | --                                  | Half yearly 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 level.  |
|                          | Med  | 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)   |
|                          | Med  | E7 | Implementation of MDVP.  | DVS, BVS | DIO, Cold Chain Handler,                        | 1.10.2014 | 31.03.2015 | -- | --     | MDVP guideline letter issued by SHSB  |

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|                             |      |    |  |                 | health worker                  |           |            |    |   | (SHSB/RI/348/10/1538 dated 22.02.2013)   |
|                             | Med  | 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 immunization and cold chain. | District        | DIO, Development Partner       | 1.11.2014 | 31.12.2015 | -- | NRHM, PIP 2014-2015 part C / Development Partner  | 3 days RI Training of Medical Officer and 2 day training in Cold chain handler 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.                           |
|                             | Med  | 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 2014-2015 Part C / Development partners | Supportive supervision using android based technology.                                 |



|                              |      |    |  |                 |  |           |            |    |                          |   |
|------------------------------|------|----|--|-----------------|--|-----------|------------|----|--------------------------|---|
|                              | Med  | 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. |
|                              | Med  | 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, CCT 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.                |
|                              | Med  | -- | Recruitment of regional vaccine Logistic manager   | State           | SHSB, Development partner                              | 1.04.2015 | 31.03.2016 |    | NRHM/Development Partner | For proposal in NRHM – PIP 2015-2016.   |