

Establishing Demonstration Sites for Routine Immunization

Background:

Maternal and Child Health Integrated Program (MCHIP) is USAID's flagship program which aims to accelerate progress towards achieving Millennium Development Goals (MDGs) 4 and 5. In India MCHIP has been providing technical support to the Government to strengthen the Universal Immunization Programme (UIP) in the states of Jharkhand and Uttar Pradesh.

In both the states technical assistance is being provided in the focus districts to improve and sustain systems and processes for Routine Immunization (RI) service delivery. In Jharkhand the focus districts include Deoghar and Jamtara, having a total population of nearly 2.3 million (Census India 2011) with nearly 57.5 thousand target infants.

A key objective of the program is the establishment of Model Demonstration Center¹ for RI in the focus districts. MCHIP India envisages setting up Demonstration centers for key thematic areas of Program Management, Cold Chain & Vaccine Management, Recording & Reporting and Injection Safety.

¹ A demonstration site is a block level health facility (CHC or PHC) where immunization thematic area/s related best practices are being implemented, and which serve as a cross learning site for interactive visualization of correct processes, thereby providing opportunity for building capacity of program managers and functionaries through demonstrations and hands on exercises

² A best practice is one that has been innovated, demonstrated and validated in multiple contexts to produce results, and is seen as potential solution to operational problems.



The centers are aimed at serving as sites for cross learning: enabling on site trainings and accelerating scale up of proven evidence based interventions and best practices² using available resources.

The present document outlines the processes involved in identifying, developing a demonstration site and organizing cross learning visits at Jamtara CHC (district Jamtara) which was developed as a composite demonstration site for all four thematic processes outlined above.

Establishment of demonstration sites:

The selection of facilities to be developed as demonstration sites was done following a detailed analysis of all the sub district cold chain point in the district. A scoring system was devised to grade the facilities across the following components and a composite score generated for each facility³:

- Structural details / Infrastructure
- Human resources
- Level of Commitment (subjective criteria)
- Equipment and Logistics
- Processes for all four thematic areas

Scores for individual indicators were generated as follows:

- 0 – Services / Facilities Unavailable
- 1 – Minimal facilities / functional
- 2 – Available but less than 30 %
- 3 – Available but less than 60 %
- 4 – Available but less than 80 %
- 5 – 80-100 %

Scores for individual cold chain points as generated by the matrix

Particulars	Jamtara Block PHC	Nala	Narayanpur	Kundahit
Structural details				
Availability of Rooms				
Cold Storage Room (3.5m x 3m)	3	4	3	3
Vaccine Logistics Room (3.5m x 3m)	3	0	0	0
Availability of space in Rooms	3	4	2	3
Availability and functional status of Genset	2	4	3	4
Human resource				
MOIC /MO	4	4	4	4
Cold Chain & Vaccine Logistic Assistant	5	5	4	4
Other Support Staff (BAM, BPM, Cleaners)	5	4	4	5
Level of commitment of key personnel (subjective)				
MOIC /MO	5	2	1	1
Cold Chain & Vaccine Logistic Assistant	5	2	1	2
Other Support Staff (BAM, BPM, Cleaners)	5	2	3	1
Equipment / Logistics (Functioning)				
Microplan availability	4	4	3	2
Cold Chain (Equipments Availability & Functionality)	5	4	4	4
Vaccine & Diluents Availability	5	5	5	5
Injection Availability	5	5	5	5
Registers / Records / Reports	5	3	4	3
Disinfection logistics	4	0	0	0
Safety Pit	4	2	3	4
Processes				
Thematic area (Programme Management)	4	3	3	2
Thematic area (Cold chain)	5	3	3	3
Thematic area (Injection Safety)	4	1	2	2
Thematic area (Records & Reports)	4	3	3	3
Total	89	64	60	60

³ Indian Public Health Standards (IPHS), relevant Govt. of India (GOI) guidelines and SS checklists were utilized to develop the guidelines

In addition two rounds of RAPID (Regular Assessment of Program Implementation in District) / Supportive Supervision (SS) had been conducted in the district before finalizing the facility to be developed as demonstration site. Scores from the two rounds were coupled with the scores generated through the matrix and the facility with the best scores was selected to be developed as the demonstration site.

RAPID / SS scores for sub district cold chain points

CHC / PHC	Round 1		Round 2	
	Points	Grade	Points	Grade
Jamtara	30	Avg	56	Good
Nala	27	Poor	40	Avg
Narayanpur	26	Poor	39	Avg
Kundahit	24	Poor	38	Avg

Based on the above two score sets Jamtara CHC was identified to be developed as a demonstration site for all the four thematic areas (site finalized in December 2010).

During the subsequent months, action plan was prepared and specific inputs were given at the identified health facilities in line with the objectives therewith utilizing following approaches:

1. Capacity building of concerned staff members through supportive supervision (on site orientation and hand holding) and system strengthening through use of available NRHM resources and locally feasible solutions in best possible manner.
2. Implementation of correct practices in an integrated manner with enhanced ownership and active involvement of district and block level health officials.
3. Encouraging implementation of local adaptations and innovations at these sites
4. Regular sharing of feedback on observations, progress and way forward with concerned officials and functionaries and making efforts for issue of necessary instructions and guidelines, mobilization of resources and leveraging of funds from within the existing health system.
5. Development of various need based tools as a part of process for orientation of staff members (in form of job aides), checklists for assessing progress during follow up visits and for assessing readiness of sites for cross learning visits.



In the process a close working relationship was forged with the district and the CHC officials and staff. MCHIP India provided only technical assistance in this process and all funds were leveraged through the Government (Rs 80,000/- (approx 1500\$) made available through the Saugaat (The Gift) campaign for development and maintenance of the demonstration site).

Regular inputs by the MCHIP team were provided at the facility over a 10 month period across all four thematic areas. The site was finally declared as a demonstration site following assessment of the facility through readiness assessment checklists. Following this a cross learning visit for officials and functionaries from other cold chain points in the district was organized at the facility.

Development of the Demonstration center:

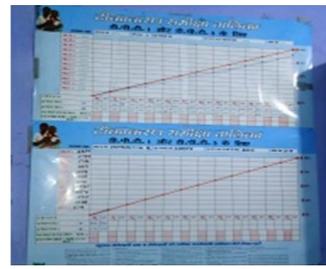
Thematic area: Programme Management



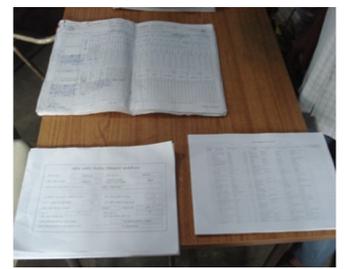
Immunization Calendar



Block Map, CHC Jamtara



RI Coverage monitoring chart



RI Microplan

Thematic area: Cold chain and vaccine Management



Cold chain room



Correct storing of vaccines in ILR



Recording of temperature & power failure in log book



Placement of voltage stabilizer & contingency plan



Reading temperature in DF



Contact no. of key officials and functionaries

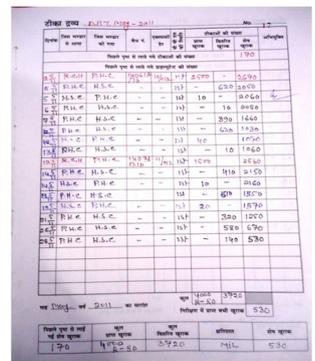


Preparing ice packs in DF



Recording temperature

Thematic area: Recording & reporting



Appropriately filled Vaccine stock and distribution register

Thematic area: Immunization safety

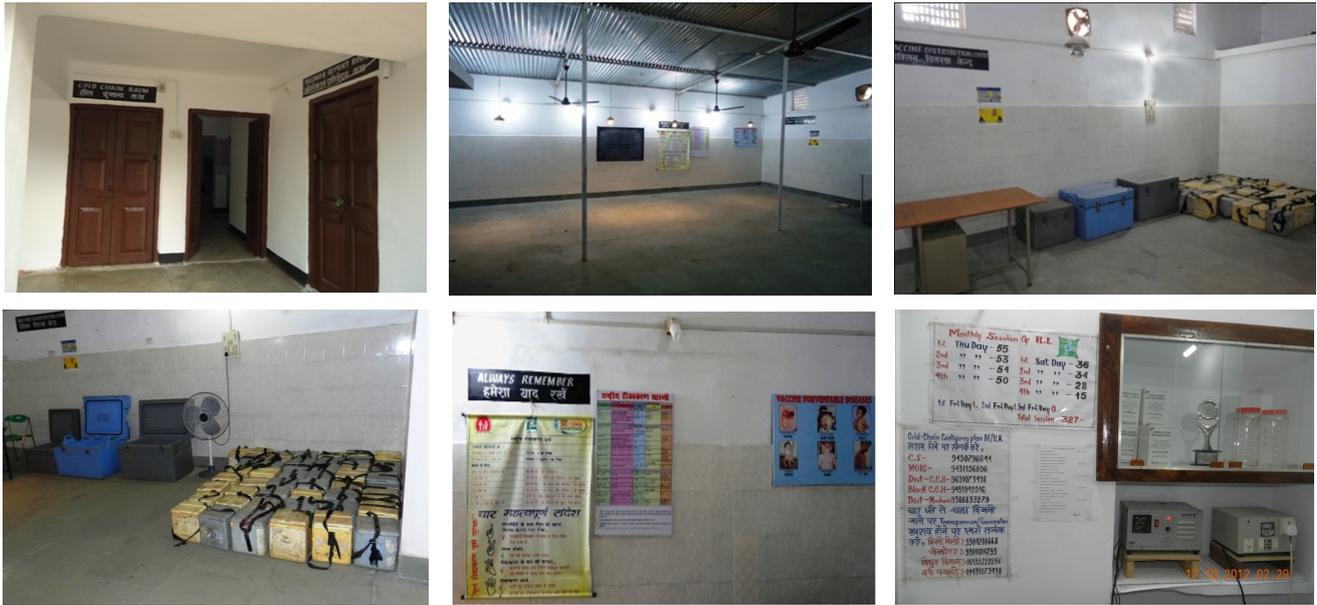


Process of setting up the injection safety corner



Sharp disposal pit at the demonstration site

Glimpses: Model Routine Immunization Demonstration Center



Cross Learning visit at CHC Jamtara:

Jamtara district is a part of the Santhal Parganas division in Jharkhand. The district is divided into four blocks and has a population of around 0.8 million. The district has one CHC in each of the blocks. After focused technical assistance for around 10 months Jamtara block CHC was developed as a composite demonstration site for four thematic areas of programme management, cold chain and vaccine management, recording and reporting and injection safety.

After being declared as a model routine immunization center a cross learning visit was organized at the CHC on 7th December 2011.

The cross learning activity was attended by Medical Officer in charge (MOIC) and staff from the other three blocks in the district and was inaugurated by Dr. Vijay Shankar Prasad (Director Medical Services, Government of Jharkhand).



Photo: Cross learning activity in progress

Agenda for cross visit:

- Inauguration by Director Medical Services GoJ
- Welcome address by District Immunization Officer
- Objectives of the cross learning visit SR, MCHIP



SR, MCHIP explaining the objectives of the activity

Topics discussed during the cross learning visit

Programme Management:

- Preparation of RI microplan, map of catchment area
- Compilation of immunization calendar
- Preparation and use of coverage monitoring charts

Cold chain and vaccine management:

- Arranging cold chain room: correct placement of equipments and stabilizers
- Correct storing of vaccines in ILR, freezing of ice packs in DF
- Conditioning of ice packs
- Packing of vaccine carriers
- Preventive maintenance
- Temperature monitoring and use of thermostat
- Cold chain contingency plan

Recording and reporting:

- Preparation of monthly UIP and HMIS reports
- Use of vaccine and syringe stock registers and vaccine distribution registers
- Use of tickler bags

Injection safety:

- Waste segregation at session site
- Waste disinfection and disposal at facility level

Development of the Demonstration center:



Mr. Binod Kumar, demographer Jamtara Block CHC undertaking session on programme management



Mrs. Anita Baidya and Mr. Mukesh Kumar, CCHs at Jamtara Block CHC explaining the use of vaccine carriers



Session on recording and reporting underway during the cross learning activity



Session on waste segregation and disinfection



Mr. Durga Hari demonstrating waste disposal



The team at Jamtara Block CHC



Dr. Lily Kak, USAID Headquarters felicitating service providers during her visit to Jamtara Block CHC



Director, Health Services felicitating Block Official

Results of Cross learning activity:

A total of 23 officials and functionaries were trained through the cross learning activity. All participants specified that this type of cross visit is important for learning newer guidelines and practices; and that they would like to participate in similar visit again. The participants were highly appreciative of the initiative and MOICs of other blocks were eager to apply similar standards at their own health facilities with continued technical assistance from the MCHIP team. A unique feature of the cross learning activity was that the facilitators were functionaries from Jamtara block CHC and the MCHIP team was passive participant in the entire process.



CASES LEARNING VIST - JAMTARA - 7/12/2011
DAINIK JAGARAN - 8/12/2011



Print media coverage:



List of participants:

S N	Name	Designation	Facility
1	Dr S K Jha	Medical Officer In Charge	CHC Nala
2	Dr S P Mandal	Medical Officer In Charge	CHC Narayanpur
3	Dr B B P Singh	Medical Officer In Charge	CHC Kundahit
4	Samresh Kumar	District Program Manager	Jamtara
5	Anandi Mondal	Cold Chain Handler	CHC Narayanpur
6	Kalipada Das	Multi Purpose Worker	CHC Narayanpur
7	Biswaranjan	Block Program Manager	CHC Narayanpur
8	Sapna Singh	Cold Chain Handler	CHC Kundahit
9	Bijendra Lal	Block Program Manager	CHC Kundahit
10	Manoj Kumar Prajapati	Block Accounts Manager	CHC Kundahit
11	Md Gayasuddin	Demographer	CHC Nala
12	Shyambav Kr Singh	Cold Chain Handler	CHC Nala
13	Suraj Kumar	Cold Chain Assistant	CHC Nala
14	Suraj Kumar Verma	Block Accounts Manager	CHC Nala
15	Mukesh Kr Sinha	Block Program Manager	CHC Jamtara
16	Kumari Abhilasha	Auxillary Nurse Midwife	CHC Jamtara
17	Chhabi Kumari Rauth	Store Clerk	CHC Jamtara
18	Binod Kumar Sinha	Demographer	CHC Jamtara
19	Falguni Karmakar	Block Accounts Manager	CHC Jamtara
20	Kaushik Kr	Data Operator	CHC Jamtara
21	Biren Chandra Murmu	Multi Purpose Worker	CHC Jamtara
22	Ajoy Kumar Chand	Block Health Worker	CHC Jamtara
23	Vicky Sinha	Pharmacist	CHC Jamtara

List of facilitators:

S N	Name	Designation	Facility
1	Dr Vijay Shankar Prasad	Director, Medical Services, GoJ	Ranchi
2	Dr A K Ghosh	District Immunization Officer	Jamtara
3	Dr Ashok Kumar	Medical Officer In Charge	CHC Jamtara
4	Dr Vijay Kiran	Immunization Team Leader, MCHIP	New Delhi
5	Dr Sumant Mishra	State Representative, MCHIP	Ranchi
6	Dr Gunjan Taneja	Technical Officer, RI & NBC, MCHIP	Ranchi
7	Dr V Narayana Holla	Technical Consultant, MCHIP	Deoghar / Jamtara
8	Binod Kumar Sinha	Demographer	CHC Jamtara
9	Anita Baidya	Cold Chain Handler	CHC Jamtara
10	Mukta Sarkar	Auxillary Nurse Midwife	CHC Jamtara
11	Mukesh Kumar	Cold Chain Handler	CHC Jamtara
12	Durga Hari	4th Grade Staff	CHC Jamtara

Acknowledgement

MCHIP team would like to acknowledge the support of Late Dr. L. N. Sharma (Civil Surgeon), Dr. A.K.Ghosh (DIO) and partner representatives from UNICEF and WHO/NPSP for providing support in development of demonstration site. We would also like to appreciate support of Dr. A. Kumar (Medical Officer in Charge), Mr Binod Kumar Sinha (Demographer), Ms. Anita Baidya, Mr. Mukesh Kumar, Ms. Mukta Sarkar (Cold Chain Handlers) and other staff members of CHC Jamtara for their efforts and hard work in developing this facility as a demonstration site. Above all, we also thank all the officials and functionaries who participated in this cross visit and ensured improvement at their own health facilities in the coming days.

