# INTRODUCTION OF MEASLES-RUBELLA VACCINE (CAMPAIGN AND ROUTINE IMMUNIZATION)

# National Operational Guidelines 2017 (Second Edition)









# भारत सरकार स्वास्थ्य एवं परिवार कल्याण विभाग स्वास्थ्य एवं परिवार कल्याण मंत्रालय Government of India Department of Health and Family Welfare Ministry of Health & Family Welfare

## **MESSAGE**



India is committed to the goal of measles elimination and control of rubella/CRS (congenital rubella syndrome) by 2020. To achieve this goal, Measles-Rubella (MR) campaign is being launched in the country covering all children of 9 months to below 15 years of age group.

This campaign will be the largest ever measles-rubella campaign launched in the world. About 41 crore children will be covered under this campaign and it will be a truly massive effort which will require partnership at all the levels.

The determined efforts of the various Ministries, State Governments, partners, health managers and health personnel would guarantee safety and the success of this public health activity.

The rubella vaccine, which is being introduced for the first time in India as Measles-Rubella (MR), prevents children being infected with the rubella virus. If women become infected during early pregnancy, they risk giving birth to babies with Congenital Rubella Syndrome (CRS), thus, with introduction of MR vaccine we will be protecting the future generation of the country too.

The MR campaign marks the end of several months of careful planning by the Immunization Division under the Ministry of Health and Family Welfare. In Routine Immunization, MR vaccine will replace measles vaccine and will be given as two doses schedule.

These guidelines are developed for program managers at each level based on lessons learned from earlier measles catch-up campaigns conducted in selected states. This practical guide will enable program managers and medical officers to plan and implement high quality measles-rubella vaccination campaigns with safety including simultaneous switch form measles to measles-rubella vaccine.

My best wishes for a successful measles-rubella campaign.

(C.K. Mishra)





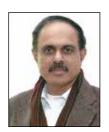
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### **MESSAGE**



Measles is a highly infectious disease that continues to kill many of our infants and young children. Rubella Infection in pregnant women disables a child for life with congenital rubella syndrome (CRS) that may result in deafness, blindness and heart defects. Measles and rubella can, however, be prevented with a safe and effective measles-rubella (MR) vaccine that gives long term immunity. Measles immunization directly contributes to the reduction of under-five child deaths and with combination of rubella vaccine will control rubella and prevent CRS in country population, thereby reducing the disabilities.

Government of India (GoI) introduced measles vaccine in its Universal Immunization Programme in 1985. Since then the disease burden due to measles in India has reduced significantly. The reduction was further accelerated by providing a second opportunity for measles vaccination since 2010 in the country.

Based on recommendations from expert committees, the measles-rubella vaccine is being introduced in our country through a phased MR vaccination campaign in all the states covering 9 month to <15 year old children and simultaneous introduction of MR vaccine in the national immunization schedule through Universal Immunization Programme in all the states across the country. A massive public health initiative, the MR vaccination campaign will target over 400 million children in 36 states and UTs in next two years.

MR vaccination campaign guidelines have been developed to assist national, state and district level programme managers to successfully plan and implement the MR vaccination campaigns. The guidelines are extremely practical and have listed in detail the tasks and responsibilities to be completed by functionaries at all levels during the different stages of the MR vaccination campaigns. GOI gratefully acknowledges the technical support provided by WHO, UNICEF and other agencies in developing these guidelines.

This campaign will be a major step towards reducing measles burden in the country and controlling Rubella/CRS.

I wish this endeavour all success.

(Dr. Arun K. Panda)

Healthy Village, Healthy Nation





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# **Foreword**



India, along with other WHO-SEAR countries, in September 2013, resolved to eliminate measles and control rubella/congenital rubella syndrome (CRS) by 2020. In that direction, Ministry of Health & Family Welfare is introducing Rubella vaccine in its Universal Immunization Programme (UIP) as Measles-Rubella (MR) vaccine.

The vaccine will be introduced as Measles-Rubella campaign, targeting children from 9 months to below 15 years, in a phased manner over a period of two to three years. This will be followed by provision of MR vaccine in routine immunization, replacing the

currently given measles vaccine, at 9-12 months and 16-24 months of age. This wide age range campaign, as recommended by NTAGI, will rapidly build up immunity for both measles and rubella and reduce measles and rubella transmission in the community.

The Measles-Rubella campaign is one of the massive public health undertakings targeting nearly 41 crore children across the country over a period of two to three years. The vaccination will be provided through sites at schools and outreach session sites. This will be a major step towards reducing measles mortality burden in the country and reducing disabilities among children due to (CRS) congenital rubella syndrome.

These guidelines have been developed to help national, state, district and block level programme managers to successfully implement the planned measles-rubella vaccination campaigns followed by immediate switching to measles-rubella vaccine in their routine immunization program so that a high population coverage is achieved to eliminate measles and rubella virus transmission in the country.

It is gratifying to note that these guidelines are truly practical and have been developed based on country's experience from the past measles catch-up campaigns. This has in detail the tasks that the functionaries at various levels need to do in the measles-rubella catch-up campaign, in order to achieve high coverage with safety.

I wish this campaign every success.









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# **Preface**

Measles is a highly infectious disease and causes a lot of childhood morbidity and mortality among under five children. Rubella infection, although mild, can lead to foetal death, spontaneous abortion and a set of serious birth defects known as congenital rubella syndrome (CRS) when an unimmunized woman is infected during early pregnancy, resulting in huge health burden to the family and the society. Both these diseases can be prevented by highly effective vaccines.

Government of India expanded measles vaccine across the country in 1985 under the Universal Immunization Programme (UIP). In 2010, second dose of measles was introduced at 16-24 months of age of child, which led to significant reduction in the measles disease burden in the country.

As recommended by the National Technical Advisory Group on Immunization (NTAGI), rubella vaccine is in the process of introduction, as combination of Measles-Rubella (MR) vaccine, under UIP. The vaccine will be introduced as MR campaign in a phased manner across the country, targeting children in the age group of 9 months to below 15 years to knock out the susceptible cohort. This will be followed by introduction of the vaccine in routine immunization, replacing the measles vaccine. While adding one more vaccine as rubella, the number of injections per child and other logistics will not increase.

The MR campaign targets around 41 crore children across the country, the largest ever in any campaign. Vaccination will be provided through schools and outreach sites. The Operational Guidelines are meant to enhance the capacity of the Immunization programme managers at the state, district and sub-district levels on planning and implementation of the campaign and subsequent introduction of MR vaccine in routine immunization. I sincerely appreciate the contribution of all partners in development of the operational guidelines.

This campaign will be an important step towards reducing measles and rubella morbidity and mortality in the country, and also outlines the country's efforts to its commitment to eliminate measles and control rubella & congenital rubella syndrome by 2020.

(Dr. Pradeep Haldar)



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# **ACRONYMS**

ADS	auto-disable syringe
AEFI	adverse events following immunization
AFP	acute flaccid paralysis
ANM	auxiliary nurse midwife
ASHA	accredited social health activist
AV	audio-visual
AVD	alternate vaccine delivery
AWW	anganwadi worker
AYUSH	Ayurveda, Yoga and Naturopathy, Unani, Siddha and Homoeopathy
BDO	block development officer
BEE	block extension educator
ВНМ	block health manager
вмо	block medical officer
ВРНС	block primary health center
CDO	chief development officer
CES	coverage evaluation survey
CFR	case fatality ratio
CDPO	child development project officer
СНС	community health center
СМО	chief medical officer
сМҮР	comprehensive Multi-Year Plan
COG	central operations group
СРСВ	Central Pollution Control Board
CRS	congenital rubella syndrome
CS	civil surgeon
DAVP	Directorate of Advertising and Visual Publicity
DC	district collector
DEO	district education officer
DF	deep freezer
DHR	Department of Health Research
DIO	district immunization officer
DLHS	district level household survey
DM	district magistrate
DPM	district program manager



DPO	district program officer
DTF	district task force
DTFI	district task force for immunization
DUDA	District Urban Development Authority
EPI	Expanded Programme on Immunization
EVM	effective vaccine management
FAQ	frequently asked question
GAVI	Global Alliance for Vaccines and Immunization
Gol	Government of India
GVAP	Global Vaccine Action Plan
НА	health assistant
HI	health inspector
HIV	human immunodeficiency virus
HRA / P	high-risk area / population
HW	health worker
IAP	Indian Academy of Pediatrics
IAPSM	Indian Association of Preventive and Social Medicine
ICDS	Integrated Child Development Scheme
IDSP	Integrated Disease Surveillance Project
ILR	ice-lined refrigerator
IM	intramuscular
IV	intravenous
IMA	Indian Medical Association
IPC	interpersonal communication
IPHA	Indian Public Health Association
ITSU	Immunization Technical Support Unit
JRF	joint reporting format
LHV	lady health visitor
M&E	monitoring and evaluation
MCV1	measles-containing vaccine first dose
MCV2	measles-containing vaccine second dose
MD	mission director
MDG	Millennium Development Goal
MMR	measles, mumps and rubella
МО	medical officer
MOI/C	medical officer in-charge (block PHC / PHC)
MoHFW	Ministry of Health and Family Welfare
MR	measles-rubella
MRCV	measles- and rubella-containing vaccine
NCC	National Cadet Corps



NCDC	National Centre for Disease Control
NGO	non-governmental organization
NHM	National Health Mission
NSC	National Steering Committee
NSS	National Service Scheme
NTAGI	National Technical Advisory Group on Immunization
NYK	Nehru Yuva Kendra
PHC	primary health center
PHN	public health nurse
PRI	panchayati raj institution
RCA	rapid convenience assessment
RCH	reproductive and child health
RCM	rapid convenience monitoring
RCV	rubella-containing vaccine
RI	routine immunization
RMNCH+A	Reproductive, Maternal, Newborn, Child and Adolescent Health
SAGE	Strategic Advisory Group of Experts
SBCC	social and behavior change communication
SEARO	South-East Asia Regional Office (WHO)
SEPIO	State Expanded Programme Immunization Officer
SIA	supplementary immunization activity
SIO	state immunization officer
SM	social mobilization
SMO	surveillance medical officer
SOG	state operations group
SSC	state steering committee
STFI	state task force for immunization
ТоТ	training of trainer
TSS	toxic shock syndrome
UIP	Universal Immunization Programme
UNICEF	United Nations Children's Fund
VHND	village health and nutrition day
VHSNC	Village Health Sanitation & Nutrition Committee
VPD	vaccine-preventable disease
VVM	vaccine vial monitor
WCD	women and child development
WHO	World Health Organization
WIC	walk-in cooler
WMF	wastage multiplication factor





# **GLOSSARY**

# High-risk areas / populations

These refer to the following types of areas:

- **Hard-to-reach areas** due to difficult geographical locations, e.g., forests, tribal, far-flung isolated pockets, tea estates, riverine-islands;
- Unserved or underserved areas or areas with shortage / prolonged vacancy of health workers;
- Some parts of urban areas especially unauthorized slums, railway / bus stations, make-shift huts, brothels, floating populations such as street children;
- Migratory populations or internally displaced populations including nomads, temporary harvesters, rice mill / brick kiln workers, daily wage laborers at large construction sites;

# Security compromised areas.

Measles-Rubella vaccine introduction campaign

A MR campaign refers to a mass vaccination campaign organized to introduce a MR vaccine. MR vaccination campaign targets a wide age group of children (9 months to <15 years). The target age group depends on the susceptibility profile of the population. During the introduction campaign, all children in the target age group receive an additional dose of the vaccine, regardless of previous vaccination status or history of illness.

# Measles-Rubella follow-up campaign

A follow-up campaign refers to a mass vaccination campaign organized as a periodic event (every 3–5 years, depending on the accumulation of susceptible cohorts) guided by country-specific surveillance data. The periodicity depends on the routine immunization (RI) coverage, existence of pockets of unprotected children and considering vaccine efficacy. These follow-up campaigns target children born after the last campaign to achieve and sustain a high level of population immunity. The target age group for immunization in these campaigns includes all children aged above 9 months who were born after the previous MR vaccination campaign.

# Generic epidemiology - definitions

**Disease control:** Reduction of disease incidence, prevalence, morbidity or mortality to a locally acceptable level where it is a much reduced public health burden; continued intervention is still required.

**Disease elimination:** Reduction of the incidence of infection (disease) caused by a specific agent to zero in a defined geographical area, ideally in a World Health Organization (WHO) region (with no endemic transmission persisting); continued measures to prevent re-establishment of transmission is required.



**Disease eradication:** Permanent reduction of the worldwide incidence of infection caused by a specific agent to zero; intervention measures are no longer required.

Disease extinction: The specific infectious agent no longer exists in nature or in laboratory.

# **Programmatic definitions (ref.)**

Measles elimination: The absence of endemic measles transmission in a defined geographical area (region or country) for ≥12 months in the presence of a well-performing surveillance system.

Rubella elimination: The absence of endemic rubella virus transmission in a defined geographical area (e.g., region or country) for >12 months, as well as the absence of congenital rubella syndrome (CRS) cases associated with endemic transmission in the presence of a well-performing surveillance system.

**Rubella and CRS control:** A 95% reduction of rubella and CRS as compared with the 2008 baseline nationally and for the Region.

**Measles / rubella eradication:** Worldwide interruption of measles or rubella virus transmission in the presence of a well-performing surveillance system.

**Routine immunization:** Regular provision of immunization services to successive cohorts of infants through vaccination at outreach and fixed sites.

**Supplementary immunization activity (SIA):** Mass vaccination campaigns targeting all children in a defined age group, with the objective of reaching a high proportion of susceptible individuals.

South-East Asia Regional Office of WHO. Strategic Plan for Measles Elimination and Rubella and Congenital Rubella Syndrome Control in the South-East Asia Region 2014–2020. New Delhi: WHO SEAR. 2014



# **EXECUTIVE SUMMARY**

India has attained impressive milestones through immunization and continues with its efforts to achieve comprehensive immunization coverage for a birth cohort of 27 million children through the Universal Immunization Programme (UIP). Immunization is one of the most effective public health interventions for protection of children, especially under 5 years of age, from life-threatening conditions which are preventable. Despite high vaccination coverage levels for individual vaccines, India's full immunization coverage has plateaued around 65% (RSOC 2013-14) in the last few years with slow progress, thus contributing to continued high burden of morbidity and mortality in children from vaccine-preventable diseases (VPDs).

Measles is one of the most common vaccine-preventable diseases among the under-five children in India, for which the country has been providing vaccination under UIP, since 1985 across all states.

As per the administrative reported coverage in Health Management Information System (HMIS), the country-wide coverage of measles-containing vaccine first dose (MCV1) stands at ~90%. The 2014 Joint Reporting Format (JRF) data from India reported 83% MCV1 coverage at the national level as against the current global target of 95% at the national level as well as state-district. Although it has been more than 2 years post introduction of measles-containing vaccine second dose (MCV2) across the country, the HMIS administrative reported national average for MCV2 is ~66% (in 2014), whereas routine immunization monitoring data shows the MCV2 coverage to be ~40% , which is far below the expected 95% in an elimination setting.

Most measles-related deaths are caused by serious complications including blindness, encephalitis, severe diarrhoea and related dehydration, ear infections, or severe respiratory infections such as pneumonia. In addition, rubella transmission is highly prevalent across the country, which can affect susceptible pregnant mothers in communities and may lead to CRS in children. CRS is a complex of congenital anomalies that can affect multiple organ systems, causing spontaneous abortions and still-births as well as lifelong disabilities in a child. Although there is no specific treatment for both measles and rubella, these diseases can be very well prevented by immunization with the available highly efficacious and cost-effective MR vaccine.

Following the South-East Asia (SEA) Regional Committee resolution in September 2013, setting the goal for measles elimination and rubella / congenital rubella syndrome (CRS) control by 2020, India has geared up and accelerated its key elimination strategies.

The National Technical Advisory Group on Immunization (NTAGI) in June, 2014, had recommended the introduction of measles-rubella vaccine in routine immunization program, following a nation-wide MR campaign. Both doses of measles vaccine provided at 9-12 months and 16-24 months, will be replaced by MR vaccine under routine immunization, immediately after the campaign.

MR vaccine introduction campaign is being rolled out in a phased manner, targeting children aged 9 months to <15 years irrespective of their previous vaccination status with MCV or history of illness. The phased MR campaigns will target to vaccinate approximately 410 million (41 crores) children across the country and will be a massive public health undertaking.

This wide age-range campaign as recommended by the NTAGI will provide a second opportunity for those children who were left out due to either vaccine failure or failure to vaccinate. Further, follow-up



campaigns may be required to sustain high population immunity against both measles and rubella besides maintaining high routine immunization coverage for both the antigens. The interval and need for follow-up campaigns will be determined based on routine immunization coverage and quality of MR campaigns, and must be guided by laboratory-supported MR surveillance data including epidemiology from across the states.

### WHO SOUTH-EAST ASIA REGIONAL STRATEGIC PLAN 2014–2020

# **GOAL**

Elimination of measles and control rubella / CRS by 2020.

- achieve and maintain at least 95% population immunity with two doses against measles and rubella within each district of each country in the Region through routine and / or supplementary immunization;
- develop and sustain a sensitive and timely case-based measles, rubella and CRS surveillance system in each country in the Region that fulfils recommended surveillance performance indicators; Develop and maintain an accredited measles and rubella laboratory network that supports every country or area in the Region;
- strengthen support and linkages to achieve the above three strategic objectives.

### **INDIA**

As per specific strategies in terms of operationalization, India has to ensure the following:

- high coverage with MR vaccine first dose in routine immunization (to reach >95% population immunity);
- high coverage with MR vaccine second dose through either or both of the following:
  - routine second dose vaccination with MR vaccine (to reach >95% population immunity);
  - supplementary immunization activity (through campaign) with MR vaccine (>95% coverage);
- laboratory supported case-based MR surveillance system and sentinel site CRS surveillance system;
- case management with vitamin A, antibiotics and referral services integrated with outbreak response;
- research and studies to guide country strategies towards the elimination goal and develop linkages with other child health interventions.

Within the national guidelines, certain flexibilities will be permitted considering local geographical limitations and specific requirements to conduct quality immunization campaigns with safety.

### STRATEGY FOR MR CAMPAIGNS

Based on the recommendations, India has developed these operational guidelines to ensure effective introduction of MR, with the following key strategies:

 MR vaccine will be introduced through a campaign in a phased manner across the country without sub-phasing within the states;



- MR vaccination will be given at fixed and outreach session sites. Mobile teams will be deployed to cover high-risk areas / populations (HRA / P) during the campaign;
- during the MR campaign, routine immunization activities will be continued for all other antigens as per schedule (Refer chapter 6);
- MR vaccine is being introduced through a campaign and will be immediately followed by introduction in the routine program by replacing two doses of measles vaccine currently administered under national immunization schedule;
- the changing over measles to MR vaccine in the routine schedule will be monitored by supervisors as well as external monitors at each level;
- guidelines and SOPs for the changing over measles to MR in the routine program is part of this operational guideline (Refer to chapter 6);
- the MR dose received during the campaign will be counted as the campaign dose and no MCV to be provided in the Routine Immunization sessions during campaign period;
- a communication plan should be prepared and strictly implemented at every level so that adequate visibility can be ensured before and during campaign. Social and behavioral change communication (SBCC) will be given priority for creating demand and achieve maximum coverage in the community;
- cold chain system will be strengthened to ensure vaccine potency and safety during the campaign;
- the duration of MR campaign will be for a minimum of 3-4 weeks, depending on injection load (@150 injections per vaccinator per day in outreach session sites and @ 200 injections per vaccinator per day in school session sites);
- the micro-plan of the district will determine the campaign duration which will vary according to number of vaccinators available in the district,
  - first week in educational institutes / school campaigns;
  - second and third week in existing health facilities and all other additional outreach and mobile sites;
  - the fourth week will be planned for sweeping activity to cover left out / suboptimal coverage areas.
- each vaccination team will comprise of four members: one vaccinator (ANM), one ASHA, one AWW and one local volunteer. Only trained and qualified vaccinators will be deployed for vaccination;
- for fixed, outreach and mobile sessions, ASHAs / AWWs / volunteers will mobilize the targeted children, help ANMs organize vaccination sessions and manage the crowd;
- for vaccination sessions in educational institutes / schools, institution authorities / school
  teachers and parents will play a key role in ensuring that targeted students are well informed
  and immunized during the campaign;
- stringent adverse events following immunization (AEFI) surveillance protocol will be followed to ensure prompt management and reporting of AEFI cases;



 Preparedness and implementation of the MR campaigns will be meticulously monitored at all levels for regular review and mid-course corrections. Post-implementation evaluation will also be undertaken.

# **Key points**

- Primary purpose of the MR campaign is to attain high levels of population immunity by reaching wide age group, including children missed under routine immunization program.
- High quality campaigns with at least 95% coverage (confirmed by coverage surveys) will ensure population immunity.
- Early planning and preparation is the key to a quality MR campaign.
- MR vaccine is being introduced through a campaign and will be simultaneously introduced in the routine program by replacing measles vaccine currently administered under national immunization
- Guidelines and SOPs for the changing over from measles to MR in the routine program are to be strictly followed (Refer to chapter 6).
- The last week of the campaign will be planned for sweeping / repeat activity to cover suboptimal coverage areas / schools based on administrative coverage and monitoring findings. This must ensure all missed children are identified and mobilized for immunization.

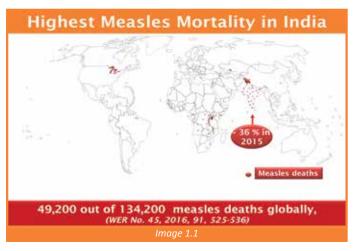


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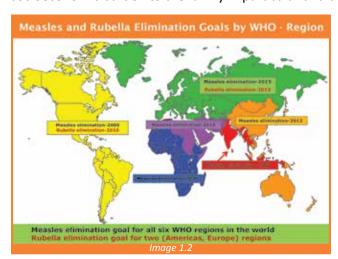
# **INTRODUCTION**

Measles is highly infectious, potentially fatal and mostly affects children. In recently conducted case—fatality ratio (CFR) studies in Bihar, the measles CFR was observed to be around 1%. Even at this CFR, the mortality burden of measles is high because the un-immunized individuals form a cohort of susceptible for measles infection, that are often of a very young age.

Rubella transmission is widespread in the communities across India. Rubella disease is a mild viral infection affecting both children as well as adults in both the sexes. When rubella infection occurs during the first trimester of pregnancy, it affects the embryo *in utero* that can cause fetal death in the form of spontaneous abortions and stillbirth. A child can be born with serious congenital anomalies like congenital cataract, glaucoma, cardiac defects, deafness, hepatosplenomegaly, hematological disorder, microcephaly and mental



retardation. This can lead to severe lifelong disabilities in the child known as CRS, causing a huge socioeconomic burden to the family in particular and the society in general.



The virus is transmitted via the respiratory route, and symptoms usually appear 2–3 weeks after exposure. In children, the disease is usually mild, with low-grade fever, nausea and a transient rash. Adults may develop lymphadenopathy and painful joints.

Deaths from measles occur mainly due to post-measles complications. Infants and young children, especially those who are malnourished, are at the highest risk of dying. With the introduction of measles vaccine in the national programme under



UIP since 1985, that was administered at 9 to 12 months of age, the disease burden had reduced and this reduction is being further accelerated by improving the coverage of the first dose of measles that stands at 83% as per the JRF 2014data.

The country provided a second opportunity for measles vaccination through a mixed approach of both routine and supplementary immunization in the form of campaigns since 2010. The administrative coverage of second dose of measles vaccination at the national level stands at around 60% (HMIS 2015). A coverage level of more than 95% is required to achieve the measles elimination goal in the country and as such there is a need for urgent measures to raise the administrative coverage of measles containing vaccine second dose (MCV2).

In controlled studies, it has been found that measles vaccine efficacy is of the order of 89% when given at 9 months of age and approximately 99% when given at 12 months or more of age. Actual vaccine effectiveness under field conditions is usually lower. It is of the order of 85% when given at 9 months and 95% when given at 12 months or more of age. Rubella vaccine is even more efficacious, providing more than 95% seroconversion rates when administered at 9–12 months or more of age and more than 99% seroconversion when given beyond 12 months of age.

The current global goal under the Global Vaccine Action Plan (GVAP) for Measles control as endorsed by World Health Assembly2012 was to reduce measles deaths by 95% by the end of 2015 as compared to the estimated number in the year 2000. Global measles mortality has reduced from 546, 800 in 2000 to 114,900 in 2014 (79% reduction). The Immunization Strategic Advisory Group of Experts (SAGE-2013) and WHO currently recommends two doses of measles vaccine or measles in combination with rubella or mumps as the gold standard for national immunization program around the world.

As of 2014, all 194 Member States of WHO provide two doses of measles vaccine in their national immunization program, including India. As per the comprehensive Multi Year Strategic Plan (cMYP, 2010–17) for immunization in India, the country targeted measles mortality reduction of 95% as compared to the year 2000 estimates.

The key immunization program strategies being followed to achieve the above goals are:

Improving and sustaining high RI coverage for two doses of MR vaccine;

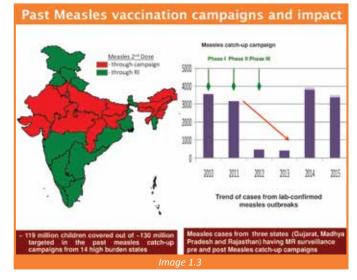
Providing a second opportunity for MCV through MR vaccination campaigns and routine second dose, including follow-up immunization campaigns;

Intensifying sensitive laboratory supported MR surveillance system;

Appropriate case management, including administration of vitamin A, integrated into the MR surveillance system;

Sentinel site CRS surveillance in selected sites in states to assess immunization impact.

# Second dose measles vaccine introduction strategy in India



Based on NTAGI recommendations for the country, 14 states introduced MCV2 through phased measles catch-up campaigns starting in 2010, followed by introduction of second dose measles vaccine in their RI schedule. Twenty-two states had introduced MCV2 directly in their respective RI schedules



with a second dose of measles vaccine being given to all children at 16–24 months of age. The 14 measles catch-up campaign states had a clear evidence of reduction in measles transmission following campaigns. The campaign impact on population immunity has waned over a period of 3 years and measles transmission is back as shown in the surveillance data, where the same states are now eligible once again for another wide age-range follow-up campaign to prevent measles outbreaks.

In 2014, NTAGI further recommended rubella-containing vaccine introduction across the country. As per the NTAGI recommendation, there will be a phased MR vaccination campaign targeting all children aged 9 months to <15 years, this will be immediately followed by changing over from measles to MR vaccine in the national immunization schedule in across the state.

The combined MR vaccine will then replace both the current doses of MCV (MCV1 and MCV2) given at 9–12 months and 16–24 months, respectively. Although the MR campaign will be phased out at the

national level, it will not be phased within each state.

Introduction of this new MR vaccine requires changing over from measles to MR vaccine in the states immediately after the campaign. MR vaccine introduction will be completed over a period of 2–3 years across the country. Good quality training of vaccinators and health-link workers, sensitization of the community through proper social mobilization and communication measures including appropriate SBCC (IEC / IPC etc.) prior to the changing over will be critical. MR vaccine introduction into RI will be a key component of the planning and training workshops conducted for the MR campaign.

This "Operational Guidelines for MR Campaign" describes in detail all the different operational components that need to be planned for and need meticulous preparation to successfully implement the MR campaign across all states including changing over to MR vaccine in the RI Program in India.

# **Key points**

- immunization against measles contributes to reducing under-five mortality and morbidity;
- vaccine effectiveness of one dose of measles vaccine at 9 months of age is around 85%.
   vaccine effectiveness goes up to 95% and above when given at >12 months of age;
- GoI has set the goal of measles elimination and rubella/CRS control by 2020;
- MR vaccine will be introduced in all states through a wide age range MR vaccination campaign targeting children in the age group of 9 months to <15 years;
- MR vaccine will be introduced in UIP, replacing the current two doses of measles vaccine in the national immunization schedule for all children between 9 −12 months and 16−24 months of age immediately after the MR campaign.





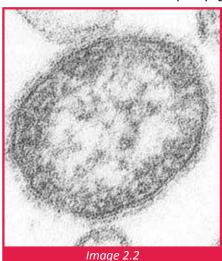


# MEASLES AND RUBELLA DISEASE AND VACCINE

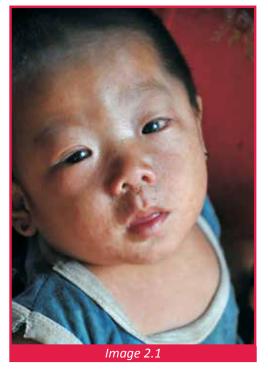
# 2.1 Measles disease

The measles virus is one of the most contagious agents ever known that causes human disease. The virus is an exclusive human pathogen and has no animal reservoirs or vectors. Transmission is by respiratory droplets or direct contact. When the measles virus is introduced into a non-immune population, nearly 100% of individuals become infected and develop a clinical illness. In areas with tropical climates, most cases of measles occur during the dry season and in areas with temperate climates, the peak occurs during late winter and early spring.

The average interval from exposure to onset of rash is 14 days (range 7–18 days). Patients are contagious from 4 days before the onset of rash till 4 days after the onset of the rash. Following inhalation of virus-containing droplets, measles virus infects the nasopharyngeal epithelium and



soon spreads. Five to 7 days after exposure, the infection is spread through



the bloodstream to the skin, conjunctivae and respiratory tract. Towards the end of the incubation period, patients develop the prodromal symptoms of high fever, cough, coryza and conjunctivitis. The typical maculopapular rash appears 3–4 days after the prodrome with a high fever peaking at 39–40°C. The rash spreads from the face and neck to the trunk and extremities, fading after about 3 days. Patients normally improve by the third day of rash and recover fully 7–10 days from the onset of the disease.

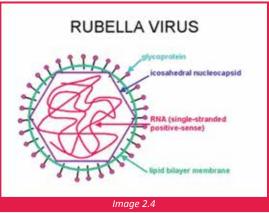


Most persons recover from measles without sequelae. Complications associated with measles particularly in children less than 5 years of age may result in death. Case fatality from measles infection can form a significant and preventable proportion of the under-5 mortality burden. Complications include otitis media (5–15%) and pneumonia (5–10%). In impoverished areas, persistent diarrhoea with protein-losing enteropathy may ensue, particularly in young infants.

# 2.2 Rubella disease

Rubella disease is caused by infection by a Toga virus (RNA virus) with maculopapular rash and fever as the primary symptoms, where the prodromal phase is less symptomatic as compared to measles, but with the same average incubation period of ~14 days. The virus is transmitted via the respiratory route, and symptoms usually appear 2-3 weeks after exposure. In children, the disease is usually mild, with low fever, nausea and a transient rash. Adults may develop arthritis, lymphadenitis and pain in the joints. Although the clinical manifestations are less severe than measles, characteristic lymphadenopathy and arthritis / arthralgia that is more pronounced in adults are the hallmarks of rubella disease. The infectious period in the natural history of illness is 7 days before to 7 days after onset of rash, which disappears after 7-10days. Infections in children are less severe and believed to provide lifelong immunity.





When rubella infection occurs during early pregnancy (first trimester), the virus during primary viraemia infects the placenta along with the fetus, causing fetal pathology due to tissue necrosis involving multiple organ systems at the developmental stage. This infection then can lead to congenital anomalies that may cause death or

premature delivery of the fetus resulting in either spontaneous abortions or stillbirths. The postrubella congenital anomalies are usually a complex set of multi-organ involvement known as congenital rubella syndrome (CRS). CRS usually manifests with congenital cataract, congenital glaucoma, congenital deafness, congenital cardiac defects like ventricular septal defects, atrial septal defects, patent ductus arteriosus, hepatosplenomegaly, microcephaly, haematological disorders like purpura and often having mental retardation due to suboptimal brain tissue development. There is no specific treatment for rubella and the disease can be only prevented through immunization.





# 2.3 Measles-rubella (MR) vaccine

The Measles-rubella (MR) vaccine used in immunization programme is live attenuated vaccine and safe and effective. Measles vaccines are available either as singleantigen vaccines or in combination with either rubella (MR) or mumps and rubella (MMR) vaccines and with mumps, rubella and varicella (MMRV) vaccine. When MR / MMR / MMRV vaccines are used, the protective immune response to each of the components remains unchanged.

Most of the live, attenuated measles vaccines used now originate from the Edmonston strain of measles virus isolated by Enders and Peebles in 1954.

A number of rubella vaccines are available either as single component or combined with measles vaccine (MR) or measles and mumps vaccines (MMR) or measles, mumps and varicella (MMRV). Most of the currently licensed



vaccines are based on the live, attenuated RA 27 / 3 strain of rubella virus propagated in human diploid cells. Other attenuated rubella vaccine strains include the Matsuba, DCRB19, Takahashi, Matsuura and TO-336 strains used primarily in Japan, and the BRD-2 strain used primarily in China. Vaccination results in high (>95%) seroconversion rates and protection is generally assumed to be lifelong, although rubella antibodies may fall below detectable levels.

# 2.3.1 Who should be vaccinated with MR vaccine

- in campaigns, all children in the target age group are vaccinated irrespective of previous immunization status or history of measles / rubella disease;
- in the routine program, MR vaccine will be administered in two doses, replacing the currently given measles vaccine- The first dose is given to children between 9 and 12 months of age and a second dose is given at 16-24 months of age;
- asymptomatic HIV infection not a contraindication for MR vaccination. Ideally, the vaccine should be offered as early as possible in the course of HIV infection;
- HIV-infected infants should receive measles vaccine at 6 months of age, followed by an additional dose of MR vaccine at 9 months, in case they are not severely immune-compromised.

# 2.3.2 MR vaccine characteristics

- MR vaccine (before reconstitution) is stable when stored between 2 °C to 8 °C;
- vaccine potency is dependent on the vial being stored at the recommended temperature. Following
  reconstitution, the vaccine must be stored at +2 to +8°C and used within 4 h. At the session site the
  reconstituted vaccine should be kept inside the well of icepack;
- the open vial policy is NOT applicable to reconstituted MR vaccine;
- the MR vaccine is very sensitive to sunlight. Hence it comes in colored glass vials;
- the vaccine induces both humoral and cellular immune responses, conferring long-term immunity for both measles as well as rubella.



# 2.3.3 MR vaccine dosage, formulation and administration

- MR vaccine is lyophilized and reconstituted with diluent (provided by the manufacturer) immediately prior to administration by injection;
- diluent should be kept at 2–8°C at least 24 h before use and thus should be carried to session site at the same temperature as the vaccine (Inside vaccine carrier);
- each ampoule of diluent for 10-dose vials of MR vaccine contains more than 5ml diluent that
  is used to dilute a single vial of MR vaccine. The entire amount of diluent in each ampoule
  provided by the manufacturer should be used to reconstitute the vaccine;
- each MR dose is 0.5 ml and should be administered subcutaneously in the right upper arm. The site is important for standardization and survey purposes.

# 2.3.4 MR vaccine storage and supply

MR vaccine should be stored at 2–8 °C and never left at room temperature. When used in the field, it should be transported in vaccine carriers with four conditioned icepacks.

The MR vaccine is very sensitive and should always be protected from sunlight.

MR vaccine can be safely frozen without loss of potency. However, diluents should never be frozen. It is recommended to store MR vaccine at negative temperature (in deep freezer) only temporarily if storage capacity in the ILR is not sufficient at the health centre level

MR vaccine should always be reconstituted only with the diluent provided by the manufacturer. Before reconstitution, diluents need to be stored in the cold chain between 2 and 8 °C at least 24 h prior to reconstitution and also needs to be transported in the field at 2–8 °C (inside vaccine carriers / cold boxes).

Planning figures for storage purposes are as follows:

MR vaccination strategy	MR vaccine vials	Storage space needed per vaccine dose	Storage space needed per diluents dose	Vaccine / diluent doses stored per L (including secondary packing)
MR campaign and RI	10-dose vials of 0.5 ml / dose	2.6 cm <sup>3</sup>	2.6 cm <sup>3</sup>	384

Other live and inactivated bacterial and viral vaccines can be administered simultaneously on the same day along with MR vaccine, at different sites. They can also be injected at the same site, at least 2 cm apart without any problem.

# 2.3.5 Adverse reactions to MR vaccine

Adverse reactions following MR vaccination are generally mild and transient and can be as follows:

- slight pain and tenderness at the site of injection may occur within 24 h, sometimes followed by mild fever;
- about 7–12 days after vaccination, up to 5% of measles vaccine recipients may experience fever
  of at least 39.4°C for 1–2 days. The fever may occasionally (1 / 3000) induce febrile seizures;
- a transient rash may occur in about 2% of vaccinated children;



- thrombocytopenic purpura occurs in approximately 1 in 30 000 vaccinated individuals;
- one serious but extremely rare adverse effect is anaphylaxis due to measles vaccine. The risk is as low as to 1 in 1 million children vaccinated;
- arthralgia / joint pain can also occur when given in adolescent children or adults;
- adverse events, with the exception of anaphylactic reactions, are less likely to occur after receipt of a second dose of MR containing vaccine.

There is no evidence of an increased risk of encephalitis, permanent neurological sequelae or Guillain–Barré syndrome following MR vaccination.

The virtual disappearance of sub-acute sclerosing pan encephalitis (SSPE) and CRS in countries where measles and rubella have been eliminated strongly suggests that the vaccine protects against SSPE by preventing measles infection and CRS by preventing rubella infection during pregnancy.

There is no evidence to support reports that MR vaccination may be a risk factor for inflammatory bowel disease or for autism. MR vaccine does not exacerbate tuberculosis.

# 2.3.6 Contraindications to MR vaccine

- MR vaccinations should be avoided in any person having high fever (>102 °F / 38–39 °C) or serious disease or pregnancy;
- persons with a history of an anaphylactic reaction to neomycin, gelatin or other components of the MR vaccine should not be vaccinated;
- persons who are severely immune-compromised as a result of congenital disease, HIV infection (full blown AIDS), advanced leukemia or lymphoma, serious malignant disease, or treatment with high-dose steroids, alkylating agents or antimetabolites, or in persons who are receiving immunosuppressive therapeutic radiation should not be vaccinated;
- administration of immunoglobulins or other antibody-containing blood products may interfere
  with the immune response to the vaccine. Vaccination should be delayed for 3–11 months after
  administration of blood or blood products, depending on the dose of MR antibody. Following MR
  vaccination, administration of such blood products should be avoided for 2 weeks, if possible.

# 2.3.7 Following are not contraindications for MR vaccination

*Malnutrition:* In fact, malnutrition is an indication to immunize. Malnourished children should be referred to the nearest health centre for assessment and treatment after they have been immunized.

*Minor illness:* such as mild respiratory infection, diarrhoea and low-grade fever for less than 3 days without any hospitalization. These children should be referred to nearest health facility after they have been immunized.

Asymptomatic HIV-infected children.

# 2.3.8 Immunity to measles and rubella

In controlled studies, measles vaccine efficacy is 89% when given at 9 months and 99% when given at >12 months of age. Actual vaccine effectiveness under field conditions is usually lower. It is 85% when given at 9 months and 95% when given at >12 months of age.



Rubella vaccine is even more efficacious than measles, where the seroconversion rate is very high (<95% when given at 9 months and >99% when given after 1 year).

Both the development and the persistence of serum antibodies following MR vaccination are lower than, but parallel to, the response following natural measles / rubella infection.

The peak antibody response occurs 6 to 8 weeks after infection or vaccination. Immunity conferred by vaccination against MR has been shown to persist for at least 20 years and is generally thought to be lifelong for most individuals.

# **Key points**

- measles is a highly infectious viral disease, which can cause complications and death;
- rubella is a mild viral infection, which in an unprotected pregnant woman during her first trimester of pregnancy can cause abortion, stillbirth or a set of serious birth defects knows as congenital rubella syndrome (CRS);
- MR vaccine is a live attenuated vaccine for both measles and rubella. It is safe and effective and provides long-term immunity for both diseases (mostly lifelong);
- MR vaccine is heat sensitive, especially after reconstitution;
- MR vaccine should be always reconstituted with diluent supplied from the same manufacturer;
- reconstituted MR vaccine should be always kept at +2 to +8 °C, should be used within 4 h of reconstitution and must be discarded thereafter.





# KEY LESSONS LEARNT FROM PHASE I MEASLES-RUBELLA CAMPAIGN

Based on pre-campaign assessments and monitoring findings, many critical issues were identified and lessons learned following the implementation of the first phase of the nationwide Measles-Rubella campaign in the states/union territories of Goa, Karnataka, Lakshadweep, Puducherry and Tamil Nadu. Measures were undertaken to fill these gaps through mid-course corrections in phase-I and through revised planning in phase-II stage.

Some of the critical challenges identified were lack of interdepartmental coordination (especially education & health), insufficient time for operational planning, sub-optimal advocacy and acceptance of campaign vaccination due to inadequate sensitization of private/government school principals and some leading private pediatricians and clinicians, weak social mobilization, inadequate preparation to handle negative messages on social media (e.g. WhatsApp) and inadequate communication material for parents/teachers including absence of national-level brand ambassador for campaign.

Although the states undertook intra-campaign mid-course corrections to optimize acceptance and achieve high coverage during this phase, it is important that these issues and key lessons learnt from the first phase of the campaign be documented and addressed in planning, before implementation of the next phases on a priority basis.

# Strengthening inter-sectoral coordination mechanism

This interdepartmental coordination involves optimizing national, state and district task forces for convergence, and ensure extensive involvement and coordination between various stakeholders from all corners ranging from three key departments of Health, Education and Women and Child Development (WCD) to program officers, block and area medical officers at ground level, pediatricians, medical college representatives, Indian Academy of Pediatricians (IAP), Indian Medical Association (IMA) representatives at district level and partners & non-governmental organizations such as Lions Club International, Red Cross, etc. It is important that all stakeholders should collectively work in coordination and synergy to get good results in terms of campaign coverage.

In this direction, the Ministry of Health & Family Welfare, Govt. of India, has constituted a National Taskforce on Measles and Rubella under the chairpersonship of Joint Secretary and included members from WHO, UNICEF, BMGF, ICMR, National CDC to monitor and review campaign planning & surveillance data, and guide national action plan development for measles elimination & rubella/CRS control.

Under the national measles-rubella task force, the government constituted a Measles-Rubella operations group led by WHO and comprised representatives from UNICEF, ITSU, UNDP, GHS,



JSI, BMGF, Lions, SEPIO/Municipal Corporation Officers for developing a focused implementation strategy for better schools involvement, urban areas, private sector and under-served population. The group was entrusted with the responsibility of developing a detailed phasing plan for the MR campaign, keeping in mind the geographical contiguity, vaccine supply, WHO medical officers surge capacity, as well as suitable window taking into account local festivals, school holidays, weather conditions and other major state priorities/engagements.

In addition, a Measles-Rubella Communications group has been constituted led by UNICEF and comprise representatives from UNICEF, GHS, ITSU, WHO, IAP to develop communication and media strategy plan. Chief Media, MoHFW, is part of the group. The group has been instrumental in the development of videos/package for school involvement, strategy on IEC including measures to ensure adequate visibility to the campaign, action plan for roping in local leaders or local practitioners for parents trust-building, among others. Good communications-specific learnings from the phase I

# Joint Ministrial support for MR campaign at state level





Image 3.1

# Convergence Meetings with all key stakeholders at district level







Image 3.2

states have also been incorporated to mitigate the risk of negative social media campaigns and also making it the point to take certain famous opinion leaders and celebrities on board for propagating right messages. In that direction, the entire IEC material was revamped- various factoids, short videos, GIFs for WhatsApp were developed, new IEC material was developed and old material was redesigned, wherever appropriate. Audience- specific IEC material was developed. Mr. Amitabh Bachchan was roped in as national ambassador for MR campaign.

It felt pertinent that, besides national level, states should also identify and reach out to local celebrities/ famous personalities to support MR campaign.

It is important to understand that high level political support through state-level joint ministerial coordination is the key to achieve success in meeting MR vaccination targets, which was demonstrated by Karnataka (pic above) and Telangana to name a few.

Principal Secretary and Mission Director (NHM) should be the responsible authority for spearheading and providing oversight to the state-level intersectoral coordination mechanisms. State Immunization Officers should be tracking state task force meeting, organizing state planning workshops 8 weeks and state media workshops 2-4 weeks prior to campaign and undertaking state post campaign review meetings immediately post campaign. Regular scheduled meetings should be held with clear objectives and reports of actions taken from previous meetings. This should include review of progress, problems encountered, proposed solutions and new action points with clearly defined responsibilities and deadlines. Minutes of the meetings and action points should be shared with all participants.

- With other Ministries of the government: Home Affairs, Human Resource Development, Women & Child Development, Information & Broadcasting, Urban Development, Railways, etc.
- With professional bodies: Indian Academy of Pediatrics, Indian Medical Association, Lions Clubs (being official partners for MR campaign)
- With religious bodies, including schools run by them
- With medical colleges

The district immunization officer should be responsible for providing oversight to the district-level intersectoral coordination mechanisms through district/urban area micro-planning meeting (4-6 weeks prior to the campaign); block & sub-block level microplanning review meetings (2-4 weeks prior to the campaign); district/block level orientation of medical officers for AEFI management (1-2 weeks prior to the campaign); PHC-level training of supervisors, vaccinators and volunteers (4 weeks prior to campaign); daily evening review meetings during the campaign; district-level post campaign review meetings to plan sweeping activity immediately post campaign. It is important to ensure strong involvement of state government and other stakeholders in these convergence meetings at state/district level in order to take cognizance of the persistent difficulties/issues faced during the preparedness and implementation of the programme for on-the-spot corrective actions.

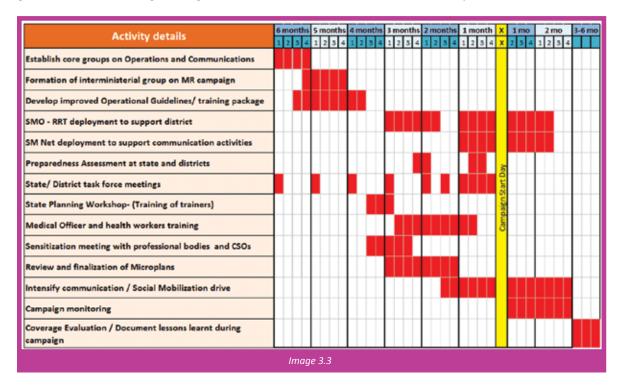
# Sufficient preparatory time for Measles-Rubella Supplementary Immunization Activities (SIAs)

Lessons learned from the phase I MR campaign showed that the states implementing MR campaign should be given adequate time to thoroughly prepare for planning and communications activities, before the next phase begins and for each subsequent phase to achieve high coverage. Based on the IEAG-MR recommendations, adequate duration (3-4 months) is required to allow sufficient time for planning and communications, before the next phase begins and for each subsequent phase. Sufficient time to thoroughly prepare for the MR campaign is critical to achieving high coverage.



The Ministry of Health & Family Welfare in collaboration with WHO and other development partners devised the following Gantt chart of activities to ensure sufficient planning time for a well-organized MR campaign across the country in line with the WHO MR campaign guidelines.

Campaign preparedness assessments should be conducted by independent partners as per WHO guidelines with clear "go / no-go" criteria that are reviewed and followed by both States and Gol.



The campaign experience in five states/UTs indicates that the presence of adequate manpower (including deployment of surveillance medical officers from WHO-NPSP & SMNet from UNICEF) in the field is critical to good quality and coverage of campaign.

# Improved school strategy

# Critical Point for Successful Implementation of School-based Strategy

- Involvement of key stakeholders is important.
  - Education Department
  - WCD (ICDS)
  - Health Department
  - Urban Development
  - Panchayati Raj
  - IAP/IMA
  - Partners
  - Others

Key lessons to improve coverage at schools are:

Duration of activity: Increase duration of school phase to at least for two week.



Ensure complete listing of school: ASHA/ AWW complete listing of schools including religious schools such as madrasa, day care centers etc in their areas. Education department provide list of all government and private schools in district with details of class-wise number of students aged less than 15 years. Medical Officer of planning unit consolidate list of schools and use the same for microplanning.

Enhanced involvement of school: Identify principle and one nodal person to support MR vaccination planning and implementation at



schools. School nodal person will be responsible for coordination with health department and also identify class lead/class teacher (teacher) and 2-3 MR warriors (students) from each class to support MR campaign.

Capacity building of schools: Arrange for training of principal and school nodal person from each school utilizing the standardized training material. School nodal person will brief class lead/class teacher and MR warrior.

Prior to campaign: Students should be informed about campaign in such a way that they feel proud of fighting deadly virus disease, their engagement may be enhanced by involving them in drawing, painting, singing competitions against MR diseases.

Students should be given assignments on preparing paintings/photos related to Measles-rubella disease and steps being taken to curb these diseases. An exhibition of these paintings should be put up for parents during parent-teacher meetings to prime them on the MR campaign and its importance for their children. Schools should create awareness among parents using special video packages on MR campaign showing previous experiences from MR campaign states where children can be seen smiling and posing for happy pictures post MR vaccination.

Parents should be informed through PTMs, notices, text messages, social media platforms etc.

During campaign: Arrange separate place for waiting, vaccination and for observation. Keep students engage in waiting and observation rooms in playful activities such as singing, dancing, drawing, storytelling etc. At the time of injection arrangement should be made in such a way that students do not see injections being given to their colleagues, this will reduce panic.

## Robust communication, media strategy, including and social media management & revised IEC materials

Communication and social mobilization efforts aim to foster community ownership and demand for immunization, to increase coverage and help achieve measles, rubella, and CRS goals. Vaccinating over 95% of the target population against measles and rubella requires well-conceived, professionally implemented communication strategies linked directly to programme goals.

Based on the phase I lessons learned, a renewed emphasis has been given on effective communication and public engagement with parents and schools, health professionals, community leaders and the media, to gain their trust, understand and address vaccine concerns and support vaccine acceptance. The National Core Group on Communications, aligned with the IEAG recommendations, revised



the existing comprehensive national level communications and social mobilization plan to reflect advocacy with decision-makers, including political leaders, health-care professionals, teachers and other educators, religious and traditional leaders, and professional associations and other influential groups — to explain the benefits of immunization, address community concerns and invite their active participation. It focuses on the following components:

- Digital engagement strategy (using groups with this expertise)
- Messaging to explain elimination of measles and prevention of rubella and CRS
- National brand ambassador
- Engagement of influential community leaders and institutions
- Tailored messaging and activities for schools
- Clear guidance for district and field level inter-personnel communication (IPC)
- Activities for professional bodies like IAP, IMA and community service organizations such as Lions Clubs International and Rotary International
- Clear guidelines, materials, preparedness and procedures for responding to negative media
- Awareness programs in Radio and TV panel discussions and live phone in programs

For the phase II MR campaign, the following need-based IEC materials have been developed based on the revised MR communications strategy:

- Advocacy for MR campaign
- Handbook on MR campaign for health workers
- Handbook on MR campaign for teachers
- Message sheet/Leaflets for ASHA/AWW, other frontline workers & community leaders
- Religious leaders' handbook
- Posters school, community & session site listing
- Hoardings & Banners
- Leaflets for religious leaders
- IAP (private practitioners) poster
- Myths & Facts booklet
- MR Information card
- Celebrity involvement: TV commercial- generic and featuring Mr. Amitabh Bachchan
- MR vaccination certificate card
- Appeals & endorsements for MR campaign from religious leaders
- Addressing critical FAQs
- Radio spots
  - Factoid videos on Measles-Rubella
  - Videos of religious leaders
  - WhatsApp messages as GIFs















# CORE OPERATIONAL COMPONENTS OF THE MR VACCINATION CAMPAIGN

The following are the different core operational components of an MR campaign. The guidelines given for each of the components has been taken from earlier measles catch-up campaigns including various technical handbooks for Expanded Programme on Immunization (EPI) in India, and is also the result of the lessons learnt from previous campaigns in the country which highlighted the key issues that define success of a campaign:

Subsequent sub-chapters (4.1 to 4.9) describe all the key operational components of MR campaign as follows:

- 4.1 Coordination and High Level Oversight (including Roles and Responsibilities)
- 4.2 Operational Planning (Macro Planning Micro Planning)
- 4.3 Communication and Social Mobilization
- 4.4 Cold Chain and Vaccine Management
- 4.5 Safe Immunization Practices
- 4.6 Managing Adverse Events Following Immunization (AEFI)
- 4.7 Supervision Monitoring and Evaluation
- 4.8 Recording and Reporting
- 4.9 Orientation Training
- 4.10 Task List for Functionaries at Different Levels

## 4.1 COORDINATION AND HIGH LEVEL OVERSIGHT (INCLUDING ROLES AND RESPONSIBILITIES)

#### 4.1.1 Overall strategy for MR campaign

The highest level of political and administrative ownership, commitment and support needs to be sustained for successfully implementing the MR Campaign. The Central Government, the State Governments and international and national development partners need to work together,



complementing and supplementing each other's strengths. The MR campaign coverage must be more than 95% in the target age group to have the desired impact on disease transmission and rapidly build up population immunity to prevent MR outbreaks.

In general, this target age group may be nearly a third of net population, that will very from state to state. This target population will be based on the best estimate available.

The target age group for MR Campaigns will be all children in the age group of 9 months to <15 years (not reached their fifteenth birthday) irrespective of their prior vaccination status or history of Measles / Rubella illness.

The following approach will be used for the MR Campaign in India:

- during the campaign period, immunization activities for the campaign will be conducted on 4–5
  working days of the week without disturbing the RI micro-plan / Village Health and Nutrition
  Days (VHNDs) planned during that week;
- to ensure safety, all children will be immunized at fixed posts / MR vaccination session sites (at schools, hospitals, outreach – rural villages / urban wards). Additional special / mobile sites will be planned for HRA / P wherever required in the micro plans;
- on an average, a district will be able to complete the campaign in around three to four weeks' time. Immunization session sites will operate in schools during the first week and at outreach and mobile sites in the community in the second and third weeks with local flexibility, depending on the district micro-plans that is determined by number of vaccinators available and injection load. The fourth week will be for sweeping / repeat activity. The micro-plan also needs to include that at least one vaccinator must be present for the duration of the campaign at the primary health centers (PHCs), community health centers (CHCs) and other hospitals / health institutions acting as fixed sites throughout the campaign;
- one village or an urban ward or a school should preferably be covered in a single day by the team / teams. If the target population of the village or urban ward is too large / spread over huge geographical area, then multiple teams will be deployed to cover the area. A vaccination team will return from conducting activities at two different session sites in a day under normal circumstances. However depending on scattered population, hamlets their may be exception to this but must be part of the micro plan and under supervision of a medical officer;
- several such vaccination teams will work simultaneously in a block or an urban municipality to complete the immunization activities in the shortest possible time without compromising on quality and safety of vaccination;
- in schools, the vaccinations need to be coordinated considering school timings and holidays. This needs to be reflected in the campaign micro-plans;
- an outreach site in a village / ward will operate from 8 AM to 2 PM or until the last child has been vaccinated. The ANM will do her scheduled work in that area for that day after 2 PM. This will also ensure that the ANM is available in the area for at least 1 h after the last injection to attend to any potential AEFI;
- special mobile sites / teams will be used for strengthening the outreach strategy to cover the
  HRAs / Ps. These are one or more of the following types of areas: hard-to-reach areas due to
  difficult geographic location; unserved or underserved areas or areas with shortage of HWs;
  urban areas, especially slums; migratory populations including temporary harvesters, brick-kiln



workers and construction laborers in large construction sites; and security compromised areas. These special mobile teams / sites will immunize children at a well-chosen fixed location in those HRAs / Ps and similar settlements. During the planning workshops, managers have to pay extra attention to these high-risk areas and plan for special innovative measures and strategies;

- these mobile teams will not go from house-to-house but will immunize children from a fixed strategic location in these HRAs / Ps and such settlements as per micro-plan;
- team supervisors (1 per 3 teams) will support the vaccinator teams on the day of activity and assess coverage on the day after the completion of activity using a standardized checklist;
- supervisors have to ensure that areas having less than 90% coverage are visited again by immunization teams to vaccinate the missed children. These "sweeping" activities should not compromise the daily activity plan for the vaccinator teams; rather, sweeping activity will be planned in the fourth week after school and outreach sessions are over.

Ensuring safe injection practices will be of paramount importance during the campaign and only trained vaccinators must be allowed to vaccinate children. Based on the experience of earlier measles campaigns, it is planned to vaccinate 100–150 children per vaccinator per day at an outreach site and 150–200 children per vaccinator in a school session site, with local variations.

### 4.1.2 Establishing MR campaign implementation committees

Establishing MR campaign implementation committees at national, state, district and sub-district levels for all aspects of the campaign are critical for success. MR campaigns need coordination and participation of other departments at all levels for successful implementation and the achievement of high coverage. Regular scheduled meetings should be held with clear objectives, agendas and reports of actions taken from previous meetings. This should include review of progress, problems encountered, proposed solutions and new action points with clearly defined responsibilities and deadlines. Minutes of the meetings and action points should be shared with all participants. The committees should ensure that activities are completed, adhering to guidelines and timelines.

#### **National level**

At the national level there will be two committees.

#### **National Steering Committee (NSC)**

Will be chaired by the Secretary (Health and Family Welfare), Government of India (GoI). The role of the Steering Committee is to:

coordinate activities among government ministries / departments



/ institutions like National Institute of Health and Family Welfare (NIHFW), National Cold Chain & Vaccine Management Resource Centre (NCCVMRC), National Health Mission (NHM), National Centre for Disease Control (NCDC), Education, Women and Child Development (WCD), Social Welfare, Department of Health Research (DHR), AYUSH, Home Affairs, Defence, Youth Affairs, Urban Development, Railways, Civil Aviation, Shipping, Commerce, Labour, Panchayati Raj Institutions (PRIs), etc. to mobilize human and other resources;

- Partner coordination
  - With WHO India (NPSP), UNICEF, Indian Red Cross (IRC), UNDP, Bill & Melinda Gates Foundation, ITSU (Immunization Technical Support Unit) and other organizations;



- Professional bodies like IMA, IAP, National professional bodies of public health, paediatrics, ophthalmology, ENT, obstetrics and gynecology, etc.;
- Civil society organizations like Rotary, Lions, GAVI-CSOs (Aii) etc.

#### **Central Operations Group**

A Central Operations Group (COG) will be established to coordinate the technical aspects of the activity. It will comprise officials from GoI, WHO-India (NPSP), UNICEF, IRC, B&MGF, ITSU, NIHFW and other partners at the national level chaired by the Joint Secretary (RCH) / DC-Immunization / DC-UIP, Ministry of Health and Family Welfare (MoHFW), GoI.

The role of the COG is to meet on a regular basis to:

- provide technical and logistic support to plan, implement, monitor and evaluate the MR campaign at national and state levels;
- provide oversight to ensure proper planning and implementation of changing over from measles to MR vaccine in the RI programme;
- ensure interdepartmental coordination with donor coordination division, vaccine procurement Division and SBCC (IEC / IPC etc.) division to;
- develop and finalize media management plan with timeline;
- monitor implementation of SBCC / social mobilization activities at national, state and district levels;
- coordinate with Directorate of Advertising and Visual Publicity (DAVP), Song and Drama Division,
   Doordarshan, AIR, Field Publicity, etc.;
- provide feedback to the Secretary and obtain timely approvals within the Government (Immunization Division in the Ministry);
- review supervision and monitoring reports and draft timely advisories for corrective measures to be disseminated by the National Steering Committee (NSC).

#### **MR Campaign – National Control Room**

A control room will be established at Immunization Division (ITSU) under MoHFW for planning, monitoring, coordination and implementation of activities during the MR campaign with members of the COG.

#### State level

At the state level there will be two committees as below.

#### **State Steering Committee**

At the state-level, the State Steering Committee (SSC) for the campaign will be established under the chairmanship of the State Chief Secretary. The role of the SSC is to mobilize human / other resources and coordinate planning and implementation of activities with other government departments and partner agencies.





The SSC will coordinate campaign activities and decisions among:

- Government departments like Education, WCD, Social Welfare, NHM, Department of Health Research (DHR), NCDC, AYUSH, Home Affairs, Defence, Youth Affairs, Urban Development, Railways, Civil Aviation, Shipping, Commerce, Labour, PRI, etc. to mobilize human and other resources;
- partner coordination:
  - with WHO-India (NPSP), UNICEF, Red Cross ,UNDP, B&MGF, Immunization Technical Support Unit (ITSU), State Reproductive, Maternal, Newborn, Child and Adolescent Health (RMNCH+A) partners and other organizations;
  - professional bodies like IMA, IAP, national professional bodies of public health, paediatrics, ophthalmology, ENT, obstetrics and gynecology and representatives from medical colleges;
  - civil society organizations like Rotary, Lions, GAVI-CSOs, Alliance for Immunization initiative (Aii), etc.

#### State Operations Group / State Task Force for Immunization

The State Operations Group (SOG) / State Task Force for Immunization (STFI) will lead planning and implementation activities in the state. The Health Secretary / Mission Director / DG / Director Health & Family Welfare will chair the SOG. The State Immunization Officer (SIO / State Expanded Programme on Immunization Officer (SEPIO) will be the Member–Secretary. State level representatives of State Program management unit (NHM), State Programme Management Unit (SPMU) and other key departments such as Social Welfare, Education, private schools Association, Integrated Disease Surveillance Project (IDSP), Panchayati Raj Institutions (PRIs), WCD, Transport, Media and partners such as WHO-India (NPSP), UNICEF, Red Cross, Professional bodies like IMA, IAP, State RMNCH+A partners, religious leaders, etc. should be invited to attend the coordination committee and subcommittee meetings.

#### The role of the Committee is to:

- provide technical and logistic support to plan, implement, monitor and evaluate the MR campaigns at district level;
- provide oversight to ensure proper planning and implementation of changing over from measles to MR vaccine in the RI programme;
- ensure intersectoral coordination and full utilization of resources from government and partners;
- provide feedback to the State Secretary / MD-NHM and obtain timely approvals within the Government;
- develop a communication plan to:
  - utilize all available resources and channels for delivering simple and clear messages to the community, which will help to ensure full turnout of children on the days of MR campaign;
  - draw up state-specific SBCC (IEC / IPC etc.) plans for effective communication strategies;
  - monitor implementation of SBCC and social mobilization activities in the states;
  - respond appropriately to the media regarding programme implementation, progress, safety and AEFI;
- Coordinate national advisories with the districts and assure implementation.



#### MR Campaign - State Control Room

The control room will be set up in each state by the State EPI Officer. Following will be the members of the State Control Room: State EPI Officer, State Cold Chain Officer, WHO-India (NPSP), UNICEF, State RMNCH+A unit and representatives from other development partners. They will be involved in planning, monitoring, coordination and implementation of activities during the MR campaigns.

The role of the control room should be to monitor preparedness on a day-to-day basis, especially mobilization of human and other resources like transport, ensure intersectoral coordination and full utilization of resources from partners, government and nongovernment departments. It should also monitor implementation of the programme during the activity. The control room should provide feedback to the State Steering Committee and State Operations Group / STFI on progress being made and also on any obstacles being faced.

#### **District level**

#### **District Task Force for Immunization**

Already existing DTFIs should be sensitized and activated under the chairmanship of the District Collector / Magistrate in each district. The Chief Medical Officer (CMO) / District Immunization Officer (DIO) should be the Member–Secretary. District level officers from administration, health including District Programme Management Unit (DPMU) members, education, ICDS, media, police, transport, PRI, District Urban Development Authority (DUDA), local bodies like municipalities, councils, etc. professional bodies and partner organizations along with representatives from religious groups and opinion leaders should be the participating members of DTFI.

The role of the District Task Force is to support, supervise, monitor and ensure implementation of the highest quality MR campaigns in the district.

#### **District Task Force Meetings**

The District Task Force should start meeting intensively at least 4 weeks prior to the start of the MR campaign to start planning for all operational aspects of the campaign. From 1 month prior to the start of the campaign, the District Task Force should meet every week to review and correct preparations of all operational aspects of the campaign. Weekly meetings must also take place after the start of the campaign to review progress of the immunization activities, review administrative coverage, review supervision and monitoring reports and implement corrections where coverage is low, identify pockets of missed children and report problems concerning operational aspects of the campaign.

#### MR Campaign - District Control Room

A control room should be set up at the district level by the DIO to monitor preparedness of blocks / PHCs / urban areas on a day-to-day basis, monitor implementation of the programme during the activity and give feedback to the State Control Room. It will also collate, compile, analyses and report administrative coverage. The DIO will be in charge of the control room. Other members of the District Control Room will be District Program Officers, urban nodal officers and District Cold Chain Officer including partner representatives.

## **4.1.3** Roles and responsibilities of District Magistrate / Chief Medical Officer / District Immunization officer

 regularly monitor the preparedness, progress and implementation of MR campaign and ensure that timely corrective actions are taken;



- provide leadership to the programme and coordinate with other departments through the DTFI. He / she will also;
- deploy senior officials from the administration and other departments to supervise planning and implementation of the programme in various blocks and urban areas of the district;
- sensitize leading private practitioners and key paediatricians along with school principals in the district to get their cooperation in advance, so that they can give the right advice to parents for their children to receive the MR vaccine in their respective public and private schools;
- meet with religious and community / social leaders to advocate for the MR campaign and to seek assistance with communication, social mobilization and transportation as appropriate;
- chair the district media sensitization workshops and designate a media spokesperson (CMO / DIO) to represent the health department.

#### Chief Medical Officer / District Health Officer / Civil Surgeon / District Medical and Health Officer

- ensure the preparedness in the district to include micro-planning, training, supervision, communication, cold chain, interdepartmental coordination and AEFI management to conduct a quality campaign;
- make supportive supervision visits to sub-district levels to review preparedness and supervise implementation. Provide on the job training there where appropriate;
- release funds in time to the blocks;
- ensure organization of DTF and district media sensitization workshops.

#### **District Immunization / RCH Officer**

- ensure review and finalization of micro-plans including SBCC (IEC / IPC etc.) of all blocks and urban areas before the start of activity;
- ensure all vaccinators and supervisors have undergone training and orientation as required;
- forecast, indent and distribute vaccine and other logistics;
- make supportive supervisory visits to sub-district levels to review preparedness and monitor implementation. Provide on the job training there where appropriate;
- collect, compile and transmit administrative coverage data to state;
- analyze feedback data and present it to DTFI and at district review meetings for corrective actions.

## 4.1.4 Conducting pre-campaign meetings, training and workshops

To ensure that the micro-planning guidelines are followed, logistics and supplies properly arranged for and personnel involved at all operational levels clearly understand their roles and activities to be undertaken, training / meetings listed below must be conducted before the MR Campaign at each level. A meetings / training plan and timeline should be included in the micro-plan for each state, district and block.



## National MR planning – training workshop for state level health functionaries and state level master trainers

- familiarize the participants with the MR Operational Guidelines and train all participants on all operational aspects;
- prepare the state level macro plan based on previous campaign experience and the information provided in the planning section of this Operational Guidelines (section 4.2);
- train a pool of trainers in training of trainers (TOTs) to enable them to conduct training at the state level.

## State MR planning – training workshop for district level health functionaries and district level trainers

- familiarize the participants with the MR Operational Guidelines and train participants on all operational aspects;
- prepare the district-level macro plan based on previous campaign experience and the information provided in the planning section of this operational guideline (section 4.2);
- train a pool of trainers in TOTs to enable them to conduct training at the district level.

#### District (micro) planning – training workshop for block level MOs

- familiarize the participants with the MR Operational Guidelines and most relevant operational aspects;
- orient MOs in development of micro-plans based on local realistic data and situation with special emphasis on designing innovative measures to reach the high-risk areas / populations.

#### Micro-planning / training workshop at block and sub-block levels

These planning / training sessions will be utilized to develop the micro-plans as well as to train all vaccination teams, supervisors and volunteers on the operational aspects of the MR campaign at PHC level.

#### Urban area planning meeting

The objective of these meetings will be to train and sensitize the urban area MOs, other support staff and urban area planners on how to develop and implement micro-plans for their planning units for the upcoming MR Campaign. Special attention should be paid to developing area-specific SBCC (IEC / IPC etc.) strategies for problematic pockets, including areas having high-risk groups / populations.

#### **District advocacy meetings**

The objective of these meetings is to sensitize media (print and electronic), community and religious leaders, professional bodies' representatives like IMA,IAP, heads of relevant govt. departments, nongovernmental organizations (NGOs) and school principals as appropriate. These meetings should be conducted 2–3 weeks before the start of the Campaign. These sensitization meetings of the triad of media–paediatricians–school principals should be one of the priorities before the campaigns are launched in any district and state. A prototype of an advocacy letter and information sheet is also attached as annex 6.



### 4.1.5 Post MR campaign review

#### State / district review meetings

A meeting should be organized immediately after completion of the MR campaign activities to review the performance of the activities based on the feedback from monitors, state supervisors and district supervisors. Data analysis from the MR campaign should also be presented at these meetings.

**Note:** Specific tasks at different levels have been listed in section 4.10. The detailed roles and responsibilities of sub-district level functionaries and other key departments and stakeholders, (including a time line matrix) that have been provided in Annex 10.

### 4.1.6 Social and behavioral change communication

Given below are some minimal roles that each group is expected to play for SBCC.

#### **Central level planning**

The COG ensures the following:

- approves the communication and social mobilization operational framework within the Operational Plan for MR Introduction;
- provides states with clear and timely financial guidelines to ensure all communication activities are carried out as per plan;
- identifies and approves the estimated amount of budget needed for communication activities based on the plan provided by the states, and communicates its approval accordingly to the states;
- provides clarity between the roles and responsibilities of different partner organizations to avoid duplicity of interventions;
- carries out national-level activities as indicated in the communication operational framework such as:
  - national level launch
  - intersectoral advocacy
  - parliamentary advocacy
  - media advocacy
- coordinates with the Central AEFI Committee and ensures that the Committee members are welloriented to respond to any unforeseen crisis situations related to communication;
- spokesperson(s) are in place and there is consistency in messaging at each level;
- the SSC and SOG are fully oriented to the importance of effective communication, the strategies, tools, and all related aspects so that they are enabled to operationalize communication for MR introduction at the state level;
- prepares a periodical information-seeking protocol with SOG on the preparedness and progress of the campaign.



#### State level planning

SOG, jointly with the DTFIs, will:

- carry out a situation analysis to prepare a communication plan by engaging the communication coordinators from the DTFIs based on the national communication framework, and oversee effective implementation;
- map and identify human resources at state, district, and block level and fill gaps, if any;
- ensure communication operationalization training is conducted and documented and that concerned officials participate in the training sessions. Officials are given timely clarity regarding the financial guidelines for replicating, translating, disseminating and printing the materials and tools;
- facilitate district-level supportive supervision mechanism for community mobilization
- ensure communication planning tools developed for the campaign are available well in time, reviewed, and adapted to meet state-specific needs;
- map and identify available development partners and Civil Society organization, support wherever required and put processes in place for their engagement;
- ensure that the necessary financial resources are available and accessible to each district based on the plans.

#### **District level planning**

The DTFI will ensure that:

- a district level mapping exercise has been carried out and staff responsible for communication are available at different levels and have the requisite skills and resources;
- training sessions related to communication are organized and district and block level staff participate in all training activities;
- a clearly laid out communication activity and monitoring plan is developed / available using planning tools provided in the annex 11 (Form-7);
- the communication activities plan is well communicated to various levels and among all the different layers at block and village level so that everyone engaged is well aware of their roles and responsibilities;
- communication tools and materials indicated in the plan are available and reach the concerned people in the desired quantity with proper guidelines on its use
- permissions required at different levels are taken;
- meetings related to planning, approvals and progress review are held as planned at different levels in districts, blocks and villages and the discussions are minuted, shared and action plans acted upon.



## **Key points**

- high level coordination at national, state and districts levels must be established for effective cooperation and collaboration among the key departments of Health, Education and WCD;
- national-state steering committees and operational groups including STFI-DTFI must be used as key platforms for effective coordination;
- emphasis on the high-risk areas/populations need to reflect in the micro-plans at all levels;
- scale-up communication and coordination efforts with the education department and heads of schools is crucial to improve campaign coverage;
- emphasis on private schools is needed. Include heads of private schools in the planning meetings. Include teachers as supervisors/monitors;
- identify a large pool of supervisors and monitors with focus on the high-risk areas/ populations;
- scale up the communication and social mobilization strategies and efforts as the most frequent reason for non-vaccination is "Did not know about the campaign";
- it is crucial to engage with frontline health-link workers like AWWs and ASHAs for optimal social mobilization.



Table 4.1: Timeline for MR campaign activities

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Si Level of Action	f Action	Activity details	Responsibility	Time frame 24	8765432	2
1 National		Develop action plan, incl. Logistics timeline (central operations eroup)	Central Ops. group	6 months prior		
2 National		Budget and operational costs for MR campaign estimated	Contral Clos. group 6 months prior	6 months prior		
-		Logistics timeline /costs etc. For MR campaign finalized	Central Ops. group	6 months prior		
		Procurement of vaccines and other logistics initiated		6 months prior		
5 National		Operational guidelines and vaccinators hand book developed	Gol/WHO & other Partners	3 months prior		
6 National		Communication package, branding for MR campaign including development of IEC/SBCC materials-methods completed	ef & ITSU	3 months prior		
7 National / state	ate	Operational guidelines and IEC prototypes printed-distributed	Gol/WHO/Unicef	2 months prior		
8 National/State	2	Disseminate financial guidelines to states	Gol, Imm. Division	Will be through NHM PIP		
9 National		National/Regional workshops conducted	GOI/WHO/Unicef	2 months prior		
10 State / District	t	State workshops & trainings at district/sub-districts completed	Govt./WHO/Unicef	1.5 months prior		
11 District / Block	*	Micro plans prepared & reviewed	Govt. (DIO/BMD)	1 months prior		
12 District / Block	*	Training of vaccinators and ASHA/ AWW completed	(TOT) Trained MOs	1 months prior		
13 State / District / Block	ct / Block	Cold chain systems at district/sub-district levels reviewed and strengthed	State cold chain officer & Unicef	2-1 months prior		
14 National		National level coordination meetings conducted	9	2 months prior		
			_	2 months prior		
16 District		District level coordination meetings (DTFI) initiated	DTFI	1 months prior		
17 District / Block	¥	Sensitization workshop/meeting for the private pediatricians and leading physicians in the district completed	CMO/DIO/Partners	two weeks prior		
18 District / Block	*5	District level advocacy meetings with local government, community / religious leaders, NGO's, civil groups conducted	CMO/DIO/Partners	1 months prior		
19 District / Block	¥	Sensitization meeting for the prindpals from all private and public schools completed	CMO/DIO/Partners	1 months prior		
20 District / Block	*	Information on traget children form schools compiled	DIO/BMO	1 months prior		
21 District / Block	*	Teachers orientation by principals/Nodal points completed	Principals	2 weeks prior		
22 National/State/District	te/District	Communication and social mobilization drive (EC/IPC/SBCC) Initiated	Govt IEC cell/ Bureau/ Unicef	2 months prior		
23 National / state	ate	Distribution of vaccines and other logistics to state-districts completed	сма/вю	2-3 weeks prior		
24 District / Block	*	Reorientation/sensitization of all MOs (Govt and Pvt) on AEFI management completed	CMO/DIO/Partners	1 week prior		
25 State/District		Media sensitization workshop to be completed	Govt./Unicef	1 week prior		
25 National / Star	ate / District	National / State / District Pre-campaign monitoring	Govt. and partners	1 months prior		
		Establishing MR campaign control -coordination center	Govt nodal officers			
		Starting of the MR campaign	Govt, and partners	Asperstate		
29 National / Star	ate / District	National / State / District Intra- campaign monitoring	Govt. and partners	4 weeks duration		
30 National / State / District	ate / District	Post campaign review at district and state level	STFI & DTFI	Immediately after campaign		
31 District		Sweeping activities based on campaign monitoring findings (post campaign)	CMO/DIO	Immediately after campaign		
32 National / State	ate	Post-campaign review and proposed coverage evaluation survey planning/implementation	GOI & Partners	1-2 months post campaign		



#### 4.2 OPERATIONAL PLANNING (MACROPLANNING AND MICRO-PLANNING)

#### 4.2.1 Macro planning

A macro plan is to be prepared at the national, state and district levels and is needed for preliminary resource planning and other operational planning purposes. It is later to be adapted with precise and realistic data, through micro-planning, starting from the lowest level up, for the purpose of delivering vaccines, supplies and funds as expected and calculated by the lower levels. Therefore, micro-planning is always a bottom up approach.

Actions to be taken as part of the macro plans at various levels are discussed below.

#### National level

- develop an activity plan including a timeline, taking into account all the activities to be carried out at the national level;
- develop a plan for preliminary calculation of resources (vaccines, diluents, ancillary products, and funds) based on previous campaigns and in coordination with the states. (For detailed calculation of resources, see table with all components listed in the Micro-plan chapter 4.2.2;
- develop a plan for national / state meetings and planning workshops to conduct of training of trainers;
- develop a strategy and plan for advocacy and communication;
- develop prototypes for SBCC (IEC / IPC etc.) materials including key messages and FAQs;
- develop a logistics plan for timely distribution of resources to the state level (dissemination
  of guidelines and vaccinators' field handbooks, vaccines, diluents, ancillary products, SBCC
  materials, funds);
- develop a training curriculum, agenda and training materials;
- develop supervision and monitoring plan;
- other activities as part of the overall National Macro Plan development:
  - solicit high-level political commitment;
  - establish appropriate intersectoral sub-committees for operations and social mobilization;
  - establish a National Control Room with specific terms of reference for the persons posted.
     One or two contact numbers should be always accessible to facilitate fast and efficient communications with the states;
  - define roles of other departments and development partners;
  - identify national supervisors and external monitors.

#### State level

- develop an activity plan including a timeline taking into account all of the following activities to be conducted at the state level;
- develop a plan for preliminary calculation of resources (vaccines, diluents, ancillary products, and funds.) based on previous campaigns and communicate the same to the national level. (For



- detailed calculation of resources, see table with all components listed in the Micro-plan chapter Section 4.2.2);
- develop a plan for state coordination meetings and planning workshops for conduct of training for the districts;
- develop a strategy and plan for advocacy and communication (in coordination with the national level);
- develop SBCC materials including key messages and FAQs, based on the prototypes received from the national level;
- develop an implementation plan taking into account the target age group, geographic areas and timing for the various activities;
- develop a logistics plan for timely distribution of resources to the district level (dissemination
  of guidelines and vaccinators' field handbooks, vaccines, diluents, ancillary products, SBCC
  materials, funds);
- develop the training curriculum, agenda and training materials, by suitable adaptation of the material disseminated by the national level;
- develop supervision and monitoring plan (for all stages of the campaign) including TORs for supervisors and monitors.
  - supervise and monitor district level preparedness (micro-plan, funds, logistics, training);
  - supervise and monitor implementation on a daily basis during the campaign and ensure midcourse corrections through State Control Room;
  - assess and review performance and document lessons learnt from the campaigns.
- other activities as part of the overall State Macro Plan development:
  - solicit high-level political commitment;
  - establish appropriate intersectoral sub-committees for operations and social mobilization;
  - establish a State Control Room with specific TORs for the persons posted. One or two contact numbers should be always accessible to facilitate fast and efficient communications with the districts;
  - define roles of other departments and development partners;
  - identify state level supervisors and external monitors.

#### **District level**

- the district macro plan is created using a bottom-up approach on the basis of previous campaigns with the factual inputs from the planning workshops held at various levels. An activity plan including a timetable is generated. Inclusions in the activity plan are listed below;
- develop a plan for preliminary calculation of resources (vaccines, diluents, ancillary products, funds, HR, session sites, days of campaign) based on previous campaigns and communicate the same to the national level. (For detailed calculation of resources, see table with all components listed in the Micro-plan chapter Section 4.2.2);



- estimate availability and requirements of the following human resources and logistic items by block:
- human resource by category supervisors, vaccinators, ASHAs, AWWs, volunteers;
- vaccine including diluents and syringes, etc.;
- other logistics, e.g. ice-packs, indelible ink marker pens, vaccination cards, etc.;
- count of session sites and days of activity;
- logistic support for vaccine distribution;

(Format: District Vaccine, logistics and Human Resource plan)

- develop a plan for district coordination meetings and planning workshops and training for the sub-districts and blocks;
- develop a strategy and plan for advocacy and communication (in coordination with the state level);
- develop the SBCC (IEC / IPC etc.) and Media Management Plan (refer to Section 4.3);
- develop an implementation plan taking into account the target age group, geographic area and timing for the various activities;
- develop a logistics plan for timely distribution of resources to sub-district level (dissemination
  of guidelines and vaccinators' field handbooks, vaccines, diluents, ancillary products, SBCC
  materials, funds);
- develop an adaptation of the training curriculum, agenda and training materials disseminated from the state level;
- develop a supervision (monitoring and evaluation) plan for all stages of the campaign including TORs for supervisors and monitors, based on national guidelines;
  - supervise and monitor sub-district level preparedness (micro-plan, funds, logistics, training);
  - supervise and monitor implementation on a daily basis during the campaign and ensure midcourse corrections;
  - assess and review performance and document lessons learnt from the campaigns.
- other activities as part of the District Macro Plan development:
  - solicit high-level political commitment;
  - establish appropriate intersectoral sub-committees for operations and social mobilization;
  - establish a District Control Room with specific TORs for the persons posted. One or two
    contact numbers should be always accessible to facilitate fast and efficient communications
    with the sub districts and blocks;
  - define roles of other departments and development partners;
  - identify district level supervisors and external monitors;
  - identify available and required cold chain space (Section 4.4 / District cold chain plan format);



data and information flow plan: In the preparatory phase, all information must be submitted to the district level (logistics requirement, training plans, etc.) according to the timeline indicated earlier. During the days of activity, coverage reports must be submitted daily from blocks to district by the same evening. District will send daily coverage reports to the state latest by next morning and the state will send the same to the Central level the same day. A consolidated coverage report mentioning that this is the final report must be submitted by district to state and from state to centre within 2 weeks of completion of activity. The coverage compilation formats for different levels are given in the annex 11.

### **Key points**

- a macro plan is the advanced preliminary resource calculation, which is later refined by micro-plan information, collected through bottom-up approach from the block level;
- apart from resource calculation (estimated numbers of human resources, logistics, SBCC materials, campaign forms, transportation to enable financial resource mobilization and in-time ordering of supplies), macro/micro-plans are also to contain plans for all other operational components including communication plan, cold chain contingency plan, logistic distribution plan, waste management plan and AEFI management plan;
- all levels need to make an inventory and estimate available cold chain space by type of equipment;
- cold chain plans need to consider space needed for all RI vaccines as per the new national immunization schedule (Refer National Immunization Schedule chapter 6);
- at the district level, explore all sources for personnel skilled in safe injection practices.



#### 4.2.2 Micro-planning

The micro-plan is the basis for any operational and budgetary planning and is to be made at lower levels through a bottom-up approach. The micro-plan must contain (i) calculation of resources, using standard micro-plan templates; and (ii) other operational planning components, using standard templates and forms as outlined below.

#### **Resource calculation**

Each block / planning unit should fill-in the information available based on the actual ground situation. This information is to be prepared and compiled during district / urban area and block planning / training workshops.

Table 4.2 contains all planning components, necessary details and formulae to enable calculation of all necessary resources to complete the micro-plan templates.

Table 4.2: Compilation of micro-plan templates

Activity - Item	Details	Calculation Method
Target population for MR campaign		9 months - <15 years; The total number can vary between districts / states. Take the highest of the available estimates for planning based on national census / state statistics and other micro / macro plans available at the district and state level cross cutting program areas.  Target children is nearly one third of the net population (calculated from best estimates)
Calculation of resources	<del>-</del>	
Vaccines		
	Wastage Multiplication Factor (WMF)	MR vaccine and AD syringes for MR campaigns = 1.11
	MR dose	target population (TP) X 1.11 as wastage multiplication factor (WMF)
	MR vials (10 doses)	Total MR doses / 10
Diluents	MR diluent (10 dose vial)	Total no of MR diluent vials = Total number of MR vaccine vials
Ancillary products	AD syringes	Target population for MR X 1.11 (WMF)
	5 ml mixing syringes	Number of MR vaccine vials X 1.11 WMF
	Hub cutters	One per vaccinator during the MR campaign
Vaccination teams	Facility based team	1 vaccinator team can vaccinate 150- 200 children / day
	Mobile / special site	1 vaccinator team / site can vaccinate 50-100 children / day in setting of markets, bus stations, factories, brick kilns, points of entry / exit, floating, migrating and unregistered population
	Outreach team	1 vaccinator team can vaccinate ~ 150 children per day in village setting, hard to reach areas
	School team	1 vaccinator can vaccinate~ 200 children in a day
Number of personnel	Supervisors	1 team supervisor covering 3 teams



Activity - Item	Details	Calculation Method
	Vaccination team composition	1-2 vaccinator (ANM / Male HWs / LHV / retired ANMs, s / pharmacists / nurses / doctors)  1 ASHA / Link worker or equivalent staff (for urban areas)  1 AWW
		1 local volunteer
Other Team Supplies	Red plastic garbage bags	1 per 50 syringes
	Black plastic garbage bags	2 per session site per day
	Indelible markers	1 per approximately 500 target children
	AEFI kits	1 per every AEFI treatment / management center
Tools and guidelines	Operational guidelines for MR campaign	1 per MO / BMO / DIO / SEPIO / Key programme managers / Senior level supervisors / nodal officers and International external monitors at each level
For health-link workers	Training module and FAQ for Health link workers / vaccinators	1 per vaccinator / team supervisor / monitor
Tools / Formats	Tally sheets	1 per day per team
	Supervisory checklists pre-intra-post campaign	1 per supervisor per day X 10 days pre-campaign 1 per supervisor per day X 20 days intra-campaign
	Reporting form from session site to Block	Once a day intra campaign
	Reporting form from Block to district	Once a day intra campaign
	Reporting form from District to State	Once a week intra campaign
	Reporting form for State to National	Once a week intra campaign
	RCM forms	5 per day per monitor X 20 days intra campaign
	Monitoring checklist intra campaign	2 per monitor per day X 10 days pre-campaign 2 per monitor per day X 20 days intra-campaign
Cold chain storage requirements – total volume needed	MR vaccine 10 dose per vial	Approx. 384 doses of measles-rubella vaccine can be stored in 1 liter (based on 2.6 cm3 per dose of MR vaccine
(packed volume, secondary package)	Cold chain volume requirement for MR vaccine 10 dose vial	= (Total MR vaccines doses required / 384) in liters
	MR diluents for 10 dose MR vial	Calculation same as MR vaccine dose
	Cold chain volume requirement for MR diluent for 10 dose vial	Calculation same as MR vaccine dose (ideally diluent for one day should be stored 24 h prior to immunization session)
Cold chain space	required for fully immunized child	69 cm3 in national / regional / state vaccine stores And 90.8 cm3 in PHCs / Peripheral stores
Cold chain equipment	ILR	Minimum 1 per PHC
	Deep Freezers	Minimum 1 per PHC
	Cold boxes	Variable based on requirement
	Vaccine carriers	Ideal 2 per vaccinator and 1 for team supervisor



Activity - Item	Details	Calculation Method
	Icepacks	4 per vaccine carrier (4 icepacks per carrier + 4 icepacks per day replacement = 8 icepacks per day) and 20 – 40 per cold box (depending the size)
Daily ice pack requirement		= (Number of vaccinators X 12) + (Requirement for supervisors and cold boxes)
Total ice pack requirement (including freezing cycle)		= Daily ice pack requirement X 3
ice pack requirement for MR campaign	Daily (including freezing cycle) X3	= (Number of vaccinators X 24) + (Number of team supervisors X 24) + (Number of cold boxes X 60 to 120)
SBCC (IEC / IPC etc.) materials team visibility and social mobilization	Information / Message sheets	On the basis of 5 per target population
	Posters	5 per session site
	Hoardings	5 per district and 1 per block
	Banners	2 per session site
	Advocacy letter	1 per school principle and 1 per medical practitioner
	street banners	variable and at the discretion of the state
	Team identity card	variable and at the discretion of the state based on local needs
	Radio and TV spots	variable and at the discretion of the state based on local needs
	Press ads.	For national and state level
	Internet and social media	variable and at the discretion of the state
Transport	to transport teams	Make transport plan and special plan for hard to reach areas / population
	to transport equipment	National level to deliver to State. State to deliver to district.  District to deliver to sub-district, Sub-district to deliver to block, Block to deliver to sites
	to transport waste	To carry and dispose of at block level at PHC / CHC having a safety-pit for the purpose
	Mode of transport	Specify mode of transport per defined area inside the district if different from 1 area to another
Maps of the catchment areas	Maps at different levels	For team supervisors and vaccinator teams on the ground
Estimated costs	For operations	Based on higher level Macro plans and lower level Micro Plans

## Micro-planning process at the district level

The district micro-plans must be developed using a bottom-up approach and should take into account the ground realities in different blocks and urban areas.

The first step is to collect and compile the following background information. Please refer to the micro-planning formats provided in annex 11. In order to fill in the micro-plans for resource calculation, refer also to the calculation in Table 4.2:

• reliable estimates of target population (9 months to <15 years) by blocks / municipalities. Use the highest of the available estimates;



- estimate requirement of logistics vaccine / diluents, auto disable (AD) syringes, etc. as per norms given in Table 4.2 by block and by PHC (block and PHC logistic format in annex 11);
- names and location of schools (Govt., Private, Madarsas, Kindergarten, Montessori schools, etc.) and number of students enrolled in each school who fall within the target age-group;
- block-wise counts of available human resources qualified to give safe injections. An indicative
  list is as following: ANMs, LHVs; alternate vaccinators involved in RI; male health workers
  trained to give injections, pharmacists; nurses on clinical duty; trained personnel from the
  private sector available and willing to participate; staff from medical and nursing colleges.
  Explore support from different sectors for urban areas: municipal health departments, NGOs,
  etc.;
- block-wise list of NGOs, youth groups—Nehru Yuva Kendra (NYK), National Cadet Corps (NCC),
   National Service Scheme (NSS), youth clubs, etc.;
- estimate functioning cold chain space available at district, block / municipality and PHC levels separately and estimate cold chain space required for vaccine and diluents (refer to Section 4.4);
- available waste disposal facilities available in each block / PHC.

#### Micro-planning process at the block level

The basic unit of micro-planning will be the PHC / sub-centre area. The following will apply to the block micro-plan.

#### **Human resource calculation**

Resource calculation should be done according to Table 4.2. In addition, to be able to plan and calculate for the human resources take the following into consideration:

- vaccination team: Generally a vaccination team will have;
  - 1 vaccinator (ANM / male HW / LHV / retired ANM / pharmacist / nurse / doctor);
  - 1 ASHA / link worker or similar staff (for urban areas);
  - 1 AWW;
  - 1 volunteer.
- ASHA or AWW will work in her usual area of work. In case neither ASHA nor AWW has been appointed for a village, she can be substituted by an additional volunteer;
- number of teams needed to cover a school in one day = target population / 200;
- number of teams needed to cover a village / urban area in one day = target population / 150;
  - for larger villages, separate teams will be strategically placed in different areas of the village to maximize reach in the community. This will enable greater reach for both vaccinators as well as target children, to enhance coverage;
  - in some places, where the number of target beneficiaries is large (>150) but can





be covered from one site, a vaccination team may have two vaccinators plus 2–3 support staff (ASHAs / AWWs / local area specific volunteers);

- plan to complete MR vaccination in one day in a village or an urban area (mohalla / hamlet)
   or in a school by one or more vaccinator teams as required;
- in order to ensure injection safety, no team will conduct sessions at two different sites in one day under normal circumstances. There may be exceptions to his practice, depending on the topography and scattering of the target population in certain areas. This has to be factored into the micro-plans to enable maximum coverage with safety.



#### Types of session sites

Vaccines will be administered from four types of session sites during the MR campaign.

session sites at educational institutes

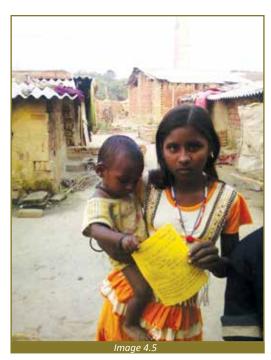
All types of educational institutes where children below 15 years of age attend will be used as vaccination sites. These sites will be covered in the first week of the campaign.

Urban wards may need extra vaccinators since they have a higher number of schools. Temporary skilled vaccinators (nurses, intern doctors, private doctors, senior nursing students, etc.) may be assigned to complete the vaccination in a school in one day.

 outreach site (regular RI sites and additional sites in village / urban mohalla)

Children who do not go to school or those left out during the vaccination week in schools will be covered from regular RI / UIP sites during the second and third weeks. Vaccinators will provide RI services on two scheduled days of the week. During the remaining four / five days of the week, they will conduct campaign sessions.

Note: In some schools, the target population may be less than 100 and there may also be an adjacent village with a very small target population. In such situations, the school and the village out-reach sessions can be combined together at the school, provided the total target children per vaccinator does not exceed 200. Wherever this is done, it should be clearly recorded in the session site micro-plan.



Special mobile sites / teams placed in high-risk areas / population through (special) additional sites

 mobile teams, and to a certain extent outreach teams for hard-to-reach villages, will be used for covering high-risk areas / populations. These are one or more of the following types of areas:



- hard-to-reach areas due to difficult geographic location (periurban, forest, hillsides, fields, farms, far-flung isolated pockets, mountainous villages, tea estates, river-islands);
- unserved or underserved areas or areas with shortage of HWs;
- urban areas, especially unauthorized slums, railway / bus stations, ferry ghats, makeshift huts, brothels, children in prison, floating / street children;
- migratory populations or internally displaced persons including temporary harvesters, rice mill and brick kiln workers and construction labourers in large construction sites;
- security compromised areas;
- special mobile sites / teams will immunize children from a fixed location in high-risk and hard-to-reach population settlements. During the planning workshops, managers have to pay extra attention to such high-risk areas and plan for special innovative measures and strategies;
- street children and other high-risk populations in urban areas may not attend school or community vaccination sites. These groups are most likely to have missed the routine dose in their infancy and may also miss the MR campaign dose if proper micro-planning is not done. Such groups require special approaches;
- places where these groups stay at night (e.g. railway station, bus stations, ferry ghats, unauthorized slums, construction sites, brick kilns, overnight temporary makeshift huts, brothels, etc.) should be identified in advance. Additional teams need to be assigned to reach them, and should work at unconventional times such as very early morning or at night. These operations to reach high-risk target children and remote populations need extraordinary planning and additional supervision and monitoring.

#### Facility based session site

All health facilities at PHC level and above will function as session sites throughout the campaign duration to immunize any children in the target age group coming to the health facility, for whom MR vaccine is indicated as per campaign guidelines.

#### **Duration of session**

- MR campaign sessions sites will run from 8.00 AM to 2.00 PM. The vaccinators and ASHAs / AWWs will then perform their routine activities until 4:00 PM at the site;
- sessions in educational institutes will run as per school timings and all immunizations will be completed in one day;
- mobile teams may have to work at unusual hours to reach high-risk areas / populations described above. The time of activity for each day and area should be specifically recorded on the microplan for such activity;
- parents / guardians of children who accompany the child to the vaccination centre will be requested to wait for at least half an hour after administering the vaccine to observe whether any serious AEFI happens, e.g. anaphylaxis;



#### Additional operational planning as part of the local micro-plan

The following components are to be planned at block / PHC level in addition to the resource calculations. Details are given in relevant chapters:

- session site and human resource plan, with vaccine and logistic estimates by session sites;
- map showing location of session sites;
- supervisor map, vaccination team map;
- cold chain plan including ice pack freezing plan at block / PHC level;
- logistics distribution plan with route charts on map;
- waste management plan;
- training plan;
- · communication / social mobilization plan;
- AEFI reporting and management plan;
- supervision and monitoring plan (pre-campaign and intra campaign);
- plan for covering missed children (plan for sweeping / repeat activity based on the intra campaign rapid convenience monitoring [RCM]);
- contingency plans for human resources, logistics and cold chain.

#### Session site and human resource plan

- based on the number of teams required, identify human resources by name, including support staff to be provided by the school and the date of activity in each school;
- based on the number of teams required, identify human resources (supervisors, vaccinators) by name and the date of activity for each outreach and mobile site;
- plan for extra mobile teams and resources to assure proper immunization coverage in the highrisk areas / populations;
- identify the location of the session site for each team on the map;
- take into account that nearly70F% of the target children may be vaccinated in school and rest
  of the target may be vaccinated at outreach / mobile sites. This should be adjusted upwards or
  downwards depending on local situations like school enrolment, coverage achieved in schools, etc.;
- block and district level planners should monitor the school coverage closely to fine tune the vaccine supplied to the outreach sessions.

(Formats: Block PHC logistics, outreach micro-plan, education facility, mobile sites micro-plan)

#### **Mapping**

A map needs to be made for each vaccination team. Each team supervisor should also have his / her own map. Maps should have the following features:

• village boundaries with target children in the catchment area within the block;



- major access routes / roads;
- educational institutes (including government and private schools, crèches, daycare centres, madarsas);
- health facilities (PHC / additional PHC) and current RI vaccination sites (both fixed and outreach);
- possible additional sites planned for the MR Campaign at school and outreach sites. These sites should be planned to reach all communities, including special mobile sites in the high-risk areas / populations, which will need special efforts;
- cold chain points and drop-off points for logistics;
- AEFI treatment / management sites (see below);
- indication of day-wise activities.

#### Cold chain plan (See Section 4.4 / cold chain and CC contingency formats)

- vaccine and diluents storage plan at state, district and sub-district levels based on calculation of
  available storage minus required storage which will give the availability of surplus storage to
  store diluents or indicate a shortage of storage space;
- calculate storage capacity, requirement and shortfall according to formulae provided in Section 4.4;
- contingency plan in case calculation of required storage space has indicated a shortage;
- ice pack freezing plan at sub-district (block / PHC) levels according to the numbers of ice packs needed as indicated in Section 4.4.

#### Logistics distribution plan (See Form – PHC vaccine distribution plan)

- estimation of vaccine and other logistics by session site, by vaccination team, by day and according to the estimated target population for that particular day;
- personnel movement plans including pick-up and drop-off points;
- mention dates of distribution in the plan;
- mention means of transport for the distribution.

#### Waste management plan (See Format waste management plan)

- identify where immunization waste will be collected;
- how it will be transported;
- how it will be disinfected and disposed off;
- who will be responsible for the different steps in the process of collection, transportation and disposal.

#### **Training plan (Section 4.8)**

- schedule for MR campaign planning TOT workshop at national level for state level trainers;
- schedule for MR campaign planning TOT workshop at state level for district level trainers;
- schedule for training of vaccinators and supervisors with date, time and venue at block / PHC / municipality level;



 schedule for training of volunteers / AWWs / ASHAs with date, time and venue at block / PHC / municipality level.

## SBCC – Communication and social mobilization plan, and format for PHC / block / district communication plan (Section 4.3)

- identify all key partners available to assist in SBCC (IEC / IPC etc.);
- identify in the plan whom to inform / whom to educate / whom to communicate with;
- mentioning advocacy / information meetings with partners / local government / community leaders / minority leaders / religious leaders / women groups;
- identify all SBCC materials (see micro-plan table of calculations);
- identify social and religious events which can be used as a platform to advocate and mobilize the population;
- include key messages and disseminate them through partners, media and SBCC materials (general SBCC messages will be standardized from the Central level);
- identify media and make schedules for regular emissions and ads;
- develop special measures to reach the targets in the high-risk areas / populations;
- specify roles for health volunteers.

In this campaign, the day of immunization activity will vary from village to village. Specific plans must be made for communicating dates to the parents individually through interpersonal communication by ASHA and / or AWW staff on the ground.

- date of immunization activity for each village / urban area will be prominently displayed at block PHC / CHCs, PHC, health sub-centre and AWW centre;
- the micro-plan should enlist the names of the ASHA against the village / wards with day / dates;
- IPC through distribution of invitation cards by ASHA / AWW will be completed one week prior to campaign start date (refer to Section 4.3);
- supervisors / block level staff should conduct random visits to field for validation of the micro plan and to verify, if IPC has been conducted as per IPC plan by Health link workers.

#### **AEFI** management plan (Section 4.5)

- all government health facilities and centres participating in the national immunization programme (except sub-centres) will be AEFI management centres;
- all MOs (both government and private) will be trained in AEFI management;
- additional private clinics / hospitals should be identified as AEFI management centres as required.
   Medical personnel of these facilities should also be trained in AEFI management protocols;
- the contact details of the closest AEFI management centre should be available at every session site and mentioned clearly on the team's tally sheet;
- referral mechanisms (including transport support for referral).



#### Supervision and monitoring plan (Section 4.6)

- on an average, there will be one first-line supervisor per three teams. They should be identified by name in the micro-plan. Their tasks have been outlined in Section 4.6;
- available first line supervisors: Health Inspector (HI), Assistant Health Inspector (AHI), Sanitary Inspector (SI), NGO supervisors, if suitable;
- intensive supervision and monitoring needs to be conducted to identify areas with low coverage (< 95%) for corrective action;
- second line supportive supervisors from state and district level will be identified to supervise at least for 2 weeks pre-campaign and during the campaign;
- in the plan, add the dates, names of the supervisors and monitors including the locations of their activity, to avoid overlap;
- remember that supervisors are internal to the immunization programme and monitors are independent and external to the national immunization programme (monitors are ideally external to the local government immunization programme).

#### Plan for covering missed children (sweeping / repeat activity)

Supervisors and external monitors will monitor areas immediately on completion of activity and check at least 20 target age-group children from at least 20 houses. Block Medical Officer (BMO) should review supervisors' checklists and monitors' RCM forms and feedback on a daily basis to identify areas requiring action as below:

- if less than 4 children are found "missed" (un-immunized) out of 20 children checked / verified by any supervisor / monitor during campaign, then the missed children will be mobilized to the nearest campaign session site or hospital where campaign MR dose can be provided to them;
- if 4 or more children are found un-immunized, a vaccinator team should revisit or sweep the team area for repeat activity to immunize all the missed children (not just limited to the children identified in the samples, in fact, they will mobilize and vaccinate all missed children from the entire area as a sweeping activity in last week of campaign).

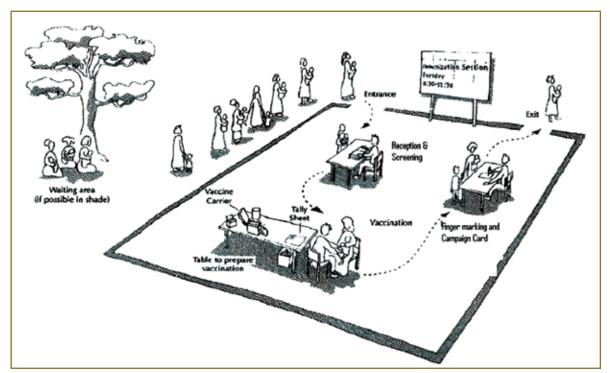
Sweeping activity: At the end of campaign activity, BMO and DIO should collate all data from coverage reports, supervisors' reports and monitors' feedback to identify areas with low coverage. These areas with low coverage must be targeted separately for sweeping activity to identify and immunize the missed children by mobilizing to the vaccine site. This sweeping activity is not limited to the children identified in the RCM samples. This activity must be properly planned and implemented and must be validated again by external monitors by the end of activity RCM / out of house spot check. Sweeping activity must be reviewed by the respective DTFI and STFI.

#### Contingency Plans for cold chain, logistics and human resources

Plans are to be prepared to describe how the blocks and PHCs will fill in the gaps identified in the micro-plans for cold chain storage, power failures, human resources needs, transportation means and eventual need for funding extraordinary measures to cover high-risk areas / populations.



Figure 4.2.1: Measles Rubella immunization at session site



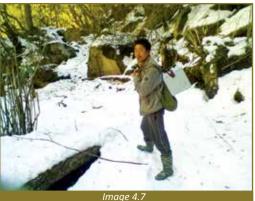
#### Reaching the unreached

The main objective of MR campaigns are to vaccinate all target children in all areas of the country. In order to ultimately eliminate measles and control rubella, it is important to immunize children in the high-risk areas that are often missed by routine vaccination. Clearly, it is necessary to know who these children are, where they are and why they are missed, so that managers can be helped to develop effective strategies for reaching them along with reaching all other areas where the population has easier access to the immunization services. Those strategies should reflect in the micro-plans.

The high-risk areas / populations include:1

- hard to reach areas due to difficult geographic location (forest, tribal, far flung isolated pockets, tea estates, riverine-islands);
- unserved or underserved areas or areas with shortage / prolonged vacancy of health worker;
- urban areas, especially unauthorized slums, railway / bus stations, makeshift huts, brothels, children in remand home, floating street children as well as peri-urban new settlements;
- migratory populations or internally displaced persons including temporary harvesters, rice mills and brick kiln workers and construction labourers in large construction sites;
- security compromised areas.

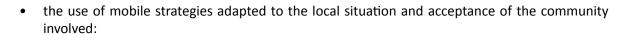
Any community may contain population / area that fit more than one category.





#### Key strategies for high-risk areas

- identifying and listing of areas and sites along with development of detailed maps to facilitate careful planning of the extra logistics and social mobilization needed to reach these populations; (see also guidelines for mapping out the catchment areas);
- detailed micro-planning with involvement of local, social and religious leaders;
- understanding and overcoming cultural, educational, logistical, political, linguistic, ethnic or religious barriers that prevent underserved populations from bringing their children for immunization;



- locating extra posts at highly visible and / or highly convenient sites;
- locating extra posts at strategic sites such as markets and major transit points in order to reach migratory populations;
- providing additional logistic support;
- deployment of extra monitors and conducting extra RCMs;
- housetohouse interpersonal communication with caregivers are critical while distributing invitation-cards and identifying HRA / Ps;

Three to five days before the start of the MR campaign, first line supervisors, health-link workers volunteers and community and partner NGO workers should go to the most underserved areas in order to verify that mothers are aware of the impending activities and distribute the invitation card having the date and place of session sites. Before and during the MR campaign, the supervisors and monitors should actively and frequently oversee preparations and efforts aimed at reaching underserved populations along with preparations in all other areas.

#### Why the above populations are a risk for continuing measles transmission?

- children in geographically difficult-to-reach areas, dense urban areas and areas with migrants are not adequately protected, because they are often missed out on routine and supplementary immunization rounds;
- children, especially of densely populated urban areas and migrating children, are at greater risk
  of carrying and spreading the measles virus as they live in very close contact with each other or
  transit through areas with virus circulation;
- migrant children are likely to have sub-optimal immunization as compared to other children living in endemic areas and hence they dilute population immunity when they move into those areas.



#### Characteristics of migratory / mobile settlements

The following migratory settlements are commonly recognized:

- **slums with migration:** Settlements in urban / periurban areas or slums situated close to industrial areas including mining / stone crushing sites or agriculture fields. These settlements are typically found listed as slums with urban development or district authorities. These areas are densely populated with substandard housing and invariably have poor sanitation. Some of these areas are unauthorized and / or are not recognized by urban development authorities. The socio economic status of the residents in these areas is low;
- construction sites: Migrant families living in sites where construction is going on. Generally they
  live in *jhuggies* or brick sheds in and around the under-construction buildings. The number of
  families and children present in these sites vary according to the size of the construction site;
- **brick kilns:** Migrant labour camping in brick kilns and the "Pather" fields where raw bricks are prepared;
- **nomads:** Populations such as Mangtey, Kanjar, Fakirs, Natts, Banjara, Shah, Shahbali, Albi, Gadhia, Luhar, Ghumantu, etc. often move from place to place for livelihood, usually setting up "deras" wherever they stop. They are normally found in between or at the end of big colonies, railway stations, along rail tracks, open fields, market places and in urban / periurban slums.

Detailed key actions for improving coverage of migratory / mobile populations during the MR campaign

#### Identifying and listing all sites with migratory / mobile populations

- a district level meeting should be organized with participation of the MO in charge from urban area and PHCs catering to periurban areas. The meeting should be facilitated by CMO / Civil Surgeon (CS) / District RCH Officer. The meeting should discuss the steps to be taken at the urban health centres / PHCs for identification and coverage of migratory / mobile populations;
- all block PHCs / CHCs / urban health centres should identify and map pockets of migratory / mobile settlements in their area. MOs should list all migratory settlements as characterized above with the help of health / ICDS / sanitation workers such as ANMs, health supervisors, ASHAs, AWWs and sanitation workers. The workers must walk through their areas, particularly the urban and periurban areas to identify all pockets of migratory populations and estimate the number of households and target population. If the migratory areas are a part of the MR microplans, this data may also be collected from previous measles catch-up campaigns in the area;
- a template for identifying and listing areas with migrant / mobile populations (Planning Forms 1 and 4) should be used for identifying and listing of these populations.

#### Preparation of micro-plans for coverage of migratory populations

- the number of vaccinators and supervisors required to conduct the vaccination in each area may be higher than in normal areas and should be estimated using planning form;
- as in the other areas, each vaccination team should have four members and each team supervisor should supervise three teams. On an average, each vaccination team can vaccinate 100 to 150 children per day. The duration of activity will depend on the number of households in the area and availability of manpower;



- each team should have a well-defined area to cover each day with the number of children expected to be vaccinated. A micro-plan giving details of each team's work area for each day should be prepared on a planning form by the supervisors and MOs;
- in some instances, where the target population is floating / unregistered, then mobile teams should be operating through planned, temporary vaccination sites to cover such population. literally "mobile" there. Each mobile team should have independent mobility and should have a detailed daily activity plan.

#### Operation of a special / mobile vaccination team for covering Migratory population / HRA

"Each mobile and special team-site for high risk area population will be included in the microplan and must operate from a centrally located place in the community, where MR vaccine can be administered to children safely. All age eligible target children living around the area must be mobilized to this special-site through house visits by the support staff like ASHA / AWW / Volunteer. A special / mobile site under normal circumstances will not move from the planned fixed location, to a next site in a single day. At special geographical areas like desserts, forests, hilltops and farm land having extensive scattered population with minimal children spread over huge area, then they can move to the next location but only after waiting for an hour after the last child has been vaccinated. Moving to the next mobile-special site will be contingent upon strict monitoring by the supervisor / medical officer and the team must discard the vaccine vial at the last session site and will start with reconstituting a new / fresh MR vaccine vial at the subsequent session-site."

#### **Reviewing preparedness: DTFI meeting**

DTFI meetings should be organized in each district to identify issues and discuss actions to ensure high quality implementation of the programme in the high-risk areas / populations. The DTFI needs to meet on a regular basis.

#### **Supervision and monitoring**

State and district officials should prioritize the HRAs / Ps. They should visit these areas to assess preparedness and supervise implementation of the MR Campaign.

Independent external monitors should be assigned to known priority areas to conduct RCMs as much as possible to detect pockets of population left out of the MR campaign.

### **Key points**

- all vaccination needs to be conducted by trained personnel from fixed vaccination sites (including by special mobile sites/teams (temporary vaccination sites) in the high-risk areas);
- ideally one village/urban ward to be covered in one day. No vaccinator will work at two session sites on the same day under normal circumstances although there will be some exceptions depending on the distribution of scattered population;
- ANM will conduct RI and other activities on scheduled days of the week as per RI micro plan;



## **Key points**

- in case of very remote community with small population and school having <100 injection load, both school and outreach activity can be clubbed together in a single day;
- special innovative measures must be undertaken to reach the previously unreached, identified in the high-risk areas/populations, that must be part of the campaign micro plan;
- each beneficiary will wait for at least 30 mins after MR vaccination. Vaccinators must
   wait for at least 1 hour at the site after vaccinating the last child;
- accurate, complete and realistic micro-plans will be critical for success of the MR campaign and must be reviewed and validated before the start of the campaign;
- all injection waste materials must be disposed as per Central Pollution Control Board (CPCB) norms as described under UIP;
- sweeping/repeat activity must be planned in areas with a significant number of missed children found during monitoring;
- the last week will be planned for sweeping/repeat activity to cover left out and suboptimal coverage areas based on reported coverage and RCM monitoring findings, this needs to be reviewed by DTFI and STFI
- in a sub-centre area, there will be one ANM (trained vaccinator) for an average of 7500 population, this may vary from state to state;
- for example, number of vaccinator-days needed to cover the eligible population in one sub-centre area = 2250/150 = 15 vaccinator days. Depending on the availability of trained vaccinators in a planning unit the number of campaign days will vary;
- a proportion of these children will be immunized in schools within the first week of the campaign and the rest through outreach or mobile or fixed session sites in the second and third week, depending on the area-specific micro-plans. Proportion of children immunized in schools will depend upon school enrollment and school attendance (nearly 70% of the net target population in schools);
- on an average a panning unit may require 15-20 working days (3-4 calendar weeks) to complete both school and outreach activity, while preparing micro plans for the campaign routine immunization days will be excluded;
- the last week will be planned for sweeping/repeat activity to cover left out/ suboptimal coverage areas, based on reported coverage and RCM monitoring, whichshould be reviewed by DTFI and STFI



#### 4.3 Communication and Social Mobilization for Measles-Rubella Introduction

#### 4.3.1 Communication Strategy and Plan

India is a signatory to South-East Asia regional goal to eliminate mesales and control rubella / CRS by 2020. As key elimination stratigies MoHFW plans to launch the MR campaign in February 2017.

Strategic communication is the program's steering wheel, guiding it towards its goals. A well-planned communication strategy has been developed to ensure that the launch of MR campaign is well accepted by the communities and achieves a high coverage of the target population.



#### The objectives of the MR communication plan are:

- 1. Positive positioning of MR campaign among the stakeholders, partners, communities and media.
- 2. Strengthen capacity of health workers on interpersonal communication (IPC) skills to ensure effective mobilisation and facilitate acceptance of MR vaccination campaign.
- 3. Facilitate community acceptance of MR vaccination during the campaign.
- 4. Build an enabling environment through positive media reporting and involvement of key stakeholders and influencers.

#### The components of the communication strategy are:

- 1. Building an enabling environment for MR.
  - launch of MR at the state and district levels: Launch ceremony with participation from state government departments (Education, WCD, Railways, Transport etc.), professional bodies such as IAP, IMA, development partners, nongovernmental organizations (NGOs), CSOs, Rotary and Lions club, media and others;
  - media briefings through specialized MRrelated media kit;
  - release of MR operational guidelines, SBCC (IEC / IPC etc.) materials, etc.
- 2. Advocacy with key stakeholders such as schools, public representatives, government, private medical networks and doctors, religious leaders, media, etc.
- 3. Social mobilization for MR by engaging panchayatiraj institutions, religious leaders, social and community groups, women's groups, self-help groups, milk cooperatives, agriculture produce committees, youth clubs, NGOs, community-based organizations (CBOs) and other network of polio influencers.

#### **Key Communication role**

- inform and sensitize all stakeholders on the importance of MR vaccine and campaign;
- promote confidence in the vaccination schedule, its safety and effectiveness;
- address rumours and misinformation;
- influence decision making of communities to accept the MR vaccination for their children;
- enhance detection and reporting of possible AEFI.



- 4. Community mobilization to create awareness and demand for MR vaccine.
  - training of master trainers on MR introduction ToTs at state / district levels;
  - cascade training of frontline workers on joint micro planning including communication and information related to MR vaccine & campaign;
  - micro planning and tracking of target children for MR vaccination;
  - holding mothers' meetings for MR introduction;
  - holding influencer meetings and announcements from mosque / religious institutions;
  - identifying and engaging the influencers for the campaign;
  - engagement with the institutions to facilitate the conduct of the campaign at their sites.
- 5. Maximizing the reach through mass media and ensuring visibility for MR introduction through an SBCC (IEC / IPC etc.) package.
  - newspaper advertisement;
  - tv / radio spots on MR campaign;
  - miking / announcements on MR campaign;
  - posters for MR introduction;
  - banners / hoardings;
  - leaflets for health workforce including, ASHA, AWW, Social Mobilization network, etc.
- 6. AEFI communication plan.

# 4.3.2 Launch of MR vaccination campaign

A successful launch of MR campaign will include effective communication components as well as capacity building of health workers on IPC skills in order to respond to queries posed by the community. Other related government departments, local media and NGOs should also be briefed and brought on board, so that they may also spread the message and motivate the community to benefit from the immunization programme.

A well-publicized launch ceremony should be planned for MR introduction to improve general awareness about UIP and specific knowledge related to MR vaccine introduction. The state and district task forces on immunization should steer the planning, coordination, implementation and monitoring of the programme.

The following steps should be undertaken for the launch events:

- 1. Preparatory phase
  - identify and brief key stakeholders, guests and invitees including public representatives, government, professional bodies, media, NGO partners, religious leaders, etc.;
  - identify suitable venue and date in consultation with officials concerned;
  - prepare materials for launch event;



- prepare talking points for key speakers;
- prepare agenda for the event from the prototype provided;
- dentify photographer and equipment required for the launch.

#### 2. Event

- check event venue prior to the event and ensure equipment is in working order;
- ensure orderly and timely conduct of the event;
- ensure folders with materials are available for all participants;
- ensure release of SBCC (IEC / IPC etc.) materials for MR launch;
- prepare press release based on the draft provided.

LAUNCH KIT: A standardized launch kit has been developed for the MR introduction. This launch kit, containing the following materials, will be provided to state governments:

- 1. Prototypes for backdrop/banner/ key message leaflets
- 2. Draft agenda for event
- 3. PowerPoint slides/other materials for use
- 4. Operational guidelines for MR
- 5. Microplanning formats
- 6. Frequently asked questions on MR
- 7. Draft press release

#### 4.3.3 Briefing media

It is important to ensure that the media is well briefed about the MR launch and has access to the correct information so that wrong or incorrect reporting in mass media is minimized.

The following simple steps can be followed at the state and district level for media briefing:

#### 1. Preparatory phase

- identify spokespersons at state and district levels. These can be the SIO / CMO / District Magistrate. Ensure spokespersons have the requisite media skills. Organize training on media skills for spokespersons, if necessary, on MR introduction-related facts;
- prepare list of state and district media staff covering health issues, with the latest contact numbers, emails and official addresses; editors of major newspapers and TV channels, radio; district-wise list of local cable operators;
- prepare key message sheets on immunization / MR and share with spokespersons;
- prepare a press release from the prototype press release that has been provided in the media kit.

# 2. Implementation phase

• organize media briefing with key reporters on MR introduction using PowerPoint slides and media kit that is provided;



- PRE LAUNCH PHASE: Hold media collaboration workshops, including state-level journalists. The workshops should be done at least 2 weeks in advance and not immediately before the launch. Else, the news value of the launch goes down. The messaging in the workshop should include RI messaging as well and not only on the new vaccine so as the give the journalists an overall perspective. There can also be formal / informal briefings with key media persons both at the state and district level;
- hold media collaboration workshops, including state-level journalists;
- heep them regularly informed of all immunization-related developments through faxes and emails.

# 3. Monitoring and evaluation phase

- track reporting on MR introduction through media (newspapers, TV, radio) for tonality of reporting;
- in case of negative or incorrect reporting, ensure that the reporter has access to correct information. The reporters will have to be reached out to for the same;
- maintain news clippings of news reports by publication, date and placement.

**Media toolkit:** A standardized media kit has been developed for the MR introduction. This media toolkit, containing the following materials, will be provided to state governments for dissemination:

- 1. Background note on MR introduction
- 2. Key messages on MR
- 3. Draft press release
- 4. Format for maintaining media reports on MR

#### 4.3.4 Advocacy

Advocacy is a well-defined process based on demonstrated evidence to influence decision-makers, stakeholders and audiences to support and / or implement policies or actions related to the advocacy goal. In case of MR introduction, advocacy should be done to ensure that MR campaign is smoothly executed and covers the vast target of children from 9months to <15 years of age group and is accepted well by the community.

Advocacy with these groups is important for promoting immunization and MR introduction.

- Local public representatives (members of parliament, members of legislative assemblies, members of legislative councils, zilapanchayat chairman and members, ward members for urban areas)
- 2. Key officials of the government and medical fraternity at the state, district and block levels:
  - state level: Chief Secretary, Principal Secretary Health, Mission Director, National Health Mission,
    Directorate of Health and Family Welfare, State Immunization Officers, medical colleges,
    officials of department of Education, women and child development, railways, large public
    sector companies / townships, eminent private paediatricians / experts, medical institutions
    and networks (such as the IAP—Indian Academy of Paediatrics; IMA—Indian Medical Association;
    IAPSM Indian Association of Preventive and Social Medicine);



- district and block level: District Magistrates, Chief Development Officers, Block Development
  Officers, Chief Medical Officers, District Immunization Officers, medical officers, private
  practitioners, etc.
- 3. Influencers such as religious leaders, teachers, self-help groups
- 4. NGOs and CBOs
- 5. Media
- 6. Teachers and principals(especially for the private schools) have to be included in the group as they may influence the parents directly. FAQs for teachers and the principals should be developed and provided at the school so that they can deal with the queries of the parents.
- 7. Parent teacher association (PTA) meetings should also be utilized for advocacy. Information should be given out to the parents before the vaccination round which includes the date of the vaccination advocating for the children to not miss school on that day.
- 8. Principal DIETs or groups, wherever established, could also be utilized for advocacy.

Prepare an advocacy plan to reach out to the relevant groups using tools and materials. Assess your existing resources and adapt them with MR-related messages. Document the proceedings with action points for the future. Keep IMA informed and prepare and share PowerPoint / SBCC (IEC / IPC etc.) materials on MR with IAP / IMA members.



# Table: Indicative planning matrix for advocacy activities

	Indicative planning matrix for advocacy activities						
S. No.	Audience	Desired Action	Modalities of engagement (activities)	Tools required			
1	Policy makers (state / district / block)	review and support for MR introduction	<ul> <li>meetings / briefing sessions</li> <li>launch workshop</li> <li>debriefing on MR campaign</li> </ul>	<ul><li>briefs</li><li>reports</li></ul>			
2	Partnership with other Ministry / department (Education, Railways, Transport, WCD, Tribal affairs, urban development,) local elected members, ZilaParishad, Panchayati Raj leaders, etc.	support the MR campaign by engaging their workforce	<ul><li>workshop</li><li>meetings / briefing sessions</li></ul>	<ul> <li>background material on MR introduction</li> <li>advocacy letters</li> <li>message sheets / leaflets</li> </ul>			
3	Medical Officers, Institutions and professional bodies such as IMA, IAP and other private medical institutions.	orientation about MR introduction in the campaign	<ul> <li>workshop</li> <li>meetings / briefing sessions</li> </ul>	<ul> <li>PowerPoint slides</li> <li>background material on MR introduction</li> <li>operational guidelines</li> <li>key messages for responding to any AEFI</li> <li>fact sheets</li> <li>advocacy letters</li> </ul>			
4	Public representatives Influencers: religious leaders, teachers, self-help groups, NGOs, CBOs	<ul> <li>awareness about         MR introduction in a         campaign</li> <li>knowledge about         benefits of MR vaccine</li> <li>advocacy with the         community about full         immunization, MR         vaccine</li> </ul>	<ul> <li>meetings / briefing sessions</li> <li>community meetings</li> </ul>	<ul> <li>advocacy Letters</li> <li>fact sheets</li> <li>message sheets / leaflet</li> </ul>			
5	Media	<ul> <li>awareness about MR introduction</li> <li>knowledge about benefits of MR vaccine positive reporting</li> </ul>	media briefings /     workshop	Media kit containing:     press release     background material     on MR launch			
6	Partnership with Education Department / Schools formal and informal, government, private and autonomous schools; State Madarsa board and institutions covering Madarsas	<ul> <li>identifying where children are in non-formal education</li> <li>prepare plan for potential resistance by parents</li> </ul>	orientation of school staff / meetings	<ul><li>letters</li><li>fact sheets</li></ul>			



# 4.3.5 Community engagement and social mobilization

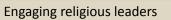
Community engagement and social mobilization are critical activities for success of the MR introduction. This requires dynamic information flow with communities, answering their questions and clearing misconceptions / fears if any. Social mobilization utilizes the influencers within the community to convince and instil confidence move refusal or resistant communities / families towards behaviour change. Social mobilization can make a huge difference in reaching out to all the target children.





Using mid-media







Taking a pledge





Briefing media

Image 4.10



The frontline workers play the pivotal role in community engagement and it is important to ensure that ANMs, ASHAs, AWWs and community volunteers are well trained before the MR launch. Health workers, if properly trained and informed, can motivate and generate community interest in the UIP and the MR vaccine campaign. They are the main source of information for the general public. It is, therefore, critical to ensure that all ANMs, ASHAs, AWWs and link workers are trained on key aspects of MR, including the four key messages.`

#### Steps for community / social mobilization

#### 1. Preparatory phase

- survey the community listing all educational institutions including government and private schools, crèches, daycare centers, Madarsa, etc.;
- prepare a micro plan including communication plan jointly with ANM / AWW / ASHAs for MR campaign.

#### 2. Mobilization for the MR campaign

- influencer meetings on MR introduction before launch, to facilitate the campaigns in the areas;
- connect with the school authorities with the letter issued by the state / district authorities;
- be part of the orientation sessions for the teachers / influencers;
- make home visits and hand the MR campaign notice / information to the educational institutions;
- mothers' meetings for RI and discussion about MR introduction campaign and address misconceptions and fears;
- facilitate church / temple / mosque / other institution announcements and auto miking a few days prior to date of MR campaign in the place / village.

# 3. Service delivery

- provide information on the date and venue of the MR campaign
- mobilization of beneficiaries from 9 months till <15 years of age for the MR campaign.
- coordinate with staff of the schools / institutions to organise and manage the beneficiaries at the campaign site.
- ensure updating of immunization card with MR vaccination.
- ensure delivery of the four key messages to the relevant beneficiaries after the immunization.

#### 4.3.6 SBCC materials and resources for MR campaign

The following package of electronic and print materials have been developed for MR campaign:

#### Mass media

- tv / radio spot 30 sec duration
- miking / mosque announcement
- press advertisement
- tv scroll / tickers



#### SBCC (IEC / IPC etc.) materials

- poster for the community and a poster for the school;
- banners / hoardings;
- invitation cards;
- a leaflet of key messages for frontline workers, teachers, caregivers, community and religious leaders etc.;
- appeal / request letters to schools, medical officials, professional bodies and to the influencers;
- handbook on MR campaign for the health and frontline workers.

#### Media

- media kit for training of media personnel
- press release
- leaflet for media

# 4.3.7 AEFI communication plan

- to effectively handle an AEFI, it is best to be prepared in advance and implement the AEFI protocol. Internal communication is most critical while dealing with any reports on AEFIs, especially in the media. Be ready to respond promptly and effectively in case of occurrence of any AEFI;
- set up a communication plan between the AEFI committee members and those working on the ground. Follow the AEFI media protocol;
  - all ANMs / ASHAs / AWWs and MOs must;
  - be sensitized to recognize and report AEFI promptly;
- know what to do in the event of an AEFI and the location of the nearest AEFI treatment centre;
- share single-page AEFI reference material for ANMs / ASHAs on what to do during an AEFI, whom to contact, etc.;
- organize infection prevention and control training for ANMs and ASHAs on what to say to parents about AEFI during vaccination sessions or during door-to-door IPC;
- ensure district AEFI committee is functional and involved;
- if an AEFI occurs, get information out as quickly as possible. The public needs to know that you share their concerns, that the situation is being investigated and that you will keep them informed;
- for media management, have a trusted spokesperson identified (refer to the media protocol) in advance to deliver messages;
- key messages and possible / draft AEFI responses will have to be developed and approved in advance – to be used by state and district level spokespersons. These will have to be used if and when the media queries arise. The key thing is to give out immediate response according to the timelines given in the AEFI media protocol;
- have a trusted spokesperson identified in advance to deliver messages during an AEFI. This spokesperson may not necessarily be the senior-most person in the district;



- ensure the spokesperson has been trained in media handling. If not, organize training on mediahandling skills in advance;
- call partners' meetings and discuss how messaging must be communicated during an unfortunate AEFI;
- demand for information increases from many quarters be prepared with information;
- coordination is crucial take charge! Prepare a coordination plan. Constantly update it when people move out of the system and new people come in;
- workload increases keep advance resources ready to quickly access the resources;
- it is important to publish positive articles on immunization, disease burden and need for vaccines in newspapers and magazines in the form of opinion articles. The state and district experts could be roped in for these;
- the opinion articles (esply on the disease burden) should start appearing well before the launch of the vaccine itself. This will create a positive environment in the media.

# 4.3.8. Media communication guidelines during AEFI

During an AEFI, the media likes a quick response, accuracy and simplicity, statistics with explanation, context (part of a wider picture), comments or explanation from the highest authority, and multiple sides of the story.

The AEFI committee / immunization programme managers may follow the guidelines given below for effective management of media during a crisis:

- prepare a media database of journalists (print and electronic media) and regularly update;
- identify in advance an appropriate spokesperson and share contact details of spokesperson(s) with all focal points concerned at the district, state and national levels. The spokesperson should have had the media training and should be articulate and technically competent to handle the questions that arise;
- an information package may contain the following documents both in hard copy and electronic files:
- · fact sheet FAQs on MR; and
- contact addresses of spokespersons (experts) that media can talk to;
- media release: The draft media release must specifically answer who, what, when, where, why and what action is being taken;

#### **Important AEFI Messages**

- benefit of immunization in preventing disease is well proven;
- it is very risky not to immunize (risk of disease and complications);
- before the introduction of vaccines, vaccine-preventable diseases caused millions of death and/or disability. That situation would return without continued use of vaccines;
- AEFI surveillance is primarily child health surveillance. Reporting of AEFIs do not necessarily mean that the vaccine has caused it. AEFIs could occur due to multiple reasons and are investigated by the program thoroughly by various experts at the district, state and national level. Reactions to vaccines are very rare. Medical help is provided to the family immediately;
- we have well-established immunization safety surveillance in place. Immunization safety is very important, and any case which is reported is taken seriously m is investigated;
- all AEFIs are investigated thoroughly.
   Meanwhile, vaccination must continue to keep the population safe from diseases.



- mention the name and contact details of the spokesperson. The AEFI Committee may also support with information should the journalists have more questions (at the end).
- Note: Measles vaccine has been known to the community and the media but Rubella is a new vaccine. So specific advocacy should be done around it.

# **Communications Plan template: MR Introduction**

This communication plan template is intended to offer an outline of the communications activities that should be considered in preparing to introduce MR. The table below should be completed along with a descriptive communications plan as suggested in the accompanying guidance document. Not all types of activities are essential although recommended to support a successful introduction.

Category of activities	Activities (Examples)	Target audience	Budget for activity	Timeline	Person responsible
1.Coordination: This may include consultation and review meetings with Government and partners and formation of MR Communication Subgroup at the state / district levels.	1.1 Activate MR communication subgroups at state / district level national steering committee (NSC) at national level.  1.2 Organize consultation meetings with Government and partners 1.3 Organize Communication Plan review meetings	National and State level partners.			
2. Adapting materials from english prototypes of Posters and leaflets of key messages for health workers will be provided. States will need to ensure language translations and printing locally.	2.1 Print / adapt relevant communication materials - leaflets, posters, banners, hoardings	Target audience -caregivers / Mothers, -Mothers- in-law, -Grandmothers -Fathers, - Community leaders -Religious leaders -Health workers - Teachers - Media			
3. Issues management (crisis communications)	3.1 Designate spokespersons for AEFI / Issues Management	Designated spokesperson			
protocol.	3.2 Develop standard operating procedures for AEFI / Issues Management				
	3.3 Organize media training for spokesperson				
	3.4 Develop FAQs and Key Message briefs for spokesperson			1 month before launch	



4. Media planning: This section may include a mass media plan, activities and	4.1 Develop Press Release for MR launch introduction	Media	1 month before launch	
the development of materials (e.g. press release, statement) to effectively deliver key messages through	4.2 Adapt the press ad given as part of the package and use to give advertisement in the news paper	Print media		
forms of media. This may also include training activities for local journalists to build an understanding and support for immunization.	4.3 TV / Radio spots developed at the national level to be used in the local channels. Ensure scroll / tickers on the local cable channels	TV / Radio / scrolls		
minumzation:	4.4Adapt key message documents and briefing docs for those briefing the media	Subject matter experts	1 month before launch	
	4.5 Organize briefings of journalists	Key journalists including antivaccine journalists	1 week before launch	
	4.6 Organize editors round table meetings	influential editors and journalists	1 month before launch	
5. Advocacy and stakeholder engagement: This section may include	5.1 Develop advocacy plan			
advocacy activities, events and materials to build the commitment of in-country partners and stakeholders for	5.2 Develop advocacy package with print materials (including FAQs, key messages)			
MR introduction. For any print materials, the budget should reflect production, printing and dissemination costs. For events, the budget should reflect all costs, including those associated with travel and administration.	5.3 Organize # advocacy events with Parliamentarians	Parliamentary Health Committee members, Officials from Education, WCD, railways, transport department, Professional bodies of IAP, IMA, public sector companies / townships,		
	5.4 Organize # advocacy events with Religious leaders and key influencers	Religious leaders, community elders, music artists, sportspersons, film stars etc.		



6. Capacity building: Trainings for health workers such as ANMs,	6.1 Training of relevant Government staff and partners in MR campaign	Core C4D team at national and state / district level		
ASHAs, AWWs, government staff, institutions and community mobi-	6.2 Training of health workers in IPC skills	Health workers		
lizers.  As this applies to MR introduction, oppor-	6.3 Training of social mobilisers in community mapping and IPC skills	social mobilisers and key influencers at community level		
tunities should be considered to strengthen capacity across appropriate areas of routine immunization implementation.	6.4 Training in crisis communications for designated team at national / provincial / district level	EPI-Communi- cations Team members		
7. Social mobilization: This should include all social mobilization activities and efforts	7.1 Identify NGOs / CBOs operating in underserved communities for social mobilization		2 Months before launch	State / district authorities
targeted to community leaders, institutions and stakeholder groups who will deliver IPC	7.2 Develop state and district level social mobilization plan			
messages, distribute print materials, and engage with communities in relation to MR introduction.	7.3 Organize # of community meetings, focus underserved areas, with a focus on marginalized groups	Caregivers, young men and women in marginalized groups		
	7.4 Organize or leverage public events –rallies, mosque announcements, auto miking, etc. to engage communities	Caregivers, young men and women		
	7.5 house hold visits by the frontline workers and give invitation cards to the families.			
8. Monitoring and Supportive supervision: Include plans and activities for the monitoring and supportive supervision of selected MR communications activities.	8.1 Identify indicators for monitoring based on the micro plans of the community mobilizers and frontline workers: - no of trainings - IPC activities (meetings, etc.) - social mobilization activities (no of influencers, schools involved, oriented)	NGOs Mobilisers, FLW / Health workers		State / district / block au- thorities and partners
	8.2 Deploy monitors to monitor the campaign including the communication part 8.3. Review the plans and provide supportive supervision to the health workers			
	8.4 quality and quantity of the media coverage			



# Sample template for block / district communication planning

# DISTRICT / BLOCK / PLANNING UNIT / CHC / PHC IEC / BCC MICROPLANNING FORMAT for MR Campaign Name of District / Block / Planning Unit / CHC / PHC: Name of DIO / MOIC: Name of IEC nodal Officer: Type of activity Quantity (If applicable) Budget (if applicable) Timeline from date of MRC **Mass Media Activities** TV program Radio Program Newspaper ads Scroll / Ticker on Local cable channels Twitter, SMS, WhatsApp Messages Advocacy and sensitization Sensitization with Private practitioners – IAP / IMA members Sensitization with heads / principal of public and private schools Sensitization of district / Block / Coordination meetings / Convergence meeting of partners at district level Media spokespersons training Media sensitization workshops Capacity building & Advocacy IPC training of frontline workers Training of teachers Orientation of IEC / BCC staff **Community Mobilization Activities** Identification of high risk areas & population and develop plans Community / Mothers meeting Awareness Rallies Miking / Drum beating in Communities Mosque / Temple / church announcement Identification and training of key Influencers School painting competition **IEC Print** Community: Posters School: Pamphlets / Leaflets - IPC Invitation Cards Hoardings Banners Wall paintings



# **Prototypes of IEC materials**

# Guidelines on production and use of IEC prototypes for Measles-Rubella Campaign

These are indicative locations. You may identify additional strategic locations in different areas of your district / block and sites / villages. Seek permission from local municipalities / premise owners / other authorities before displaying. Advice your vendor / poster-pasting-agency strictly not to paste posters on any signage put up by the local municipality that may cause inconvenience to the public.

IEC Material	Use of the IEC	Timeline
Advocacy Letters	1. Print the advocacy letter given in the Operational Guideline for school principals and medical practitioners on department letterheads. (Translate into local language, if necessary.)  2. Attach Information / Message Sheet / FAQ given in the Operational Guideline to the Advocacy letter.	<ol> <li>Advocacy letters must reach school principals / medical practitioners at least 4-5 weeks before the campaign start date.</li> <li>Follow up on with the advocacy and planning activities for IEC / BCC.</li> </ol>
Posters(@ 5per MR campaign site) Distribution to FLWs, NGOs, Schools, institutions, through vendors, professional bodies, other departments, (railways, transport, etc) influencers and volunteers	<ol> <li>District hospital / Pvt. Hospitals</li> <li>CHCs, PHCs, Sub-centres, Anganwadi centre(ICDS)</li> <li>VHND sites</li> <li>School notice boards / main gate / fee counter / prayer ground / classrooms</li> <li>Medical Institutions / other institutions</li> <li>Bus stands (and waiting room) bus shelters</li> <li>Railway stations (and waiting room)</li> <li>District Collector's office</li> <li>District Courts</li> <li>Panchayat Bhawan</li> <li>Market / Mandi area</li> <li>Ration shops (PDS stores)</li> <li>Chemist shops</li> <li>Tea stalls, dhaba</li> </ol>	Should be ready for printing at least 15 days before day of campaign: Display posters at least 10 days before campaign. Repeat where removed or torn at least 2 days before campaign
Hoardings (@ 5 per district) &(@ 1 per block)	To be displayed at places which provide high visibility from far:  1. District hospital / Pvt. Hospitals  2. Bus / Railway stations  3. Bus shelters  4. Market / Mandi area  5. Near cinema theatres  6. Panchayat bhawan  7. Village choupal  8. District Collector office  9. District Courts  10. Schools  11. Medical Institutions / other institutions  Any other place where people gather in large numbers	Print anddisplay10daysbefore campaign begins.
MR campaign session site Banners(@ 2 per site)	<ol> <li>Market place</li> <li>Bus stand</li> <li>Railway stations</li> <li>Entry roads of villages, at choupals</li> <li>Milk booth, grocery shops</li> <li>Near hospitals and chemist shops</li> </ol>	Display 3-4 days before start of campaign date.



Press ads Quarter / half page	English and local languageadvertisement in State / District level newspapers, magazines, vernacular publications	Release in national newspapers on Campaign Day. Release at least 3 times in local newspapers: 7 days before the campaign date; 3 days before campaign date; and on campaign day
Information / Message leaflets	<ol> <li>Translate into local language and print in bulk.</li> <li>Distribute to children in schools and institutions where children collect.</li> <li>Distribute to parents during parent-teacher meetings.</li> <li>Distribute to parents in hospitals.</li> <li>Keep in chemist shops, local grocery stores, milk booths, panchayat bhawan, etc with instructions to shopkeepers to distribute to parents.</li> </ol>	<ol> <li>Printed copies should be ready for distribution at least 15-20 days before distribution begins.</li> <li>Start distribution at least 10 days before the campaign dates and continue through the campaign period.</li> </ol>
Media kit for pre-during and post engagement on MR campaign	<ul> <li>At the state launch of the MR campaign</li> <li>Media at state / district / local level to be engaged</li> </ul>	Translated media kit template must reach SIO / DIO and IEC official responsible for local media engagement three weeks before the launch.  To be tailored as per local requirements into print, radio and audiovisual formats.  Knowledge base to be developed in local languages and made easily available to media.
Scroll / Tickers	- To be used in the local TV channels to promote MR campaign information	3-4 days before and during the campaign weeks
SMS	In partnership with the mobile service providers, mass SMS can be sent to the caregivers	1-2 days before the campaign
Tweets / Facebook page	- Social media through Twitter and Facebook	Through the campaign period, posting the snippets / pictures of the campaign on the facebook.



# **Prototypes of MR IEC materials** Banner / hoarding We can beat two diseases with one vaccine MEASLES **Key Message leaflets FLW** Caregivers Community leaders Drum beating Teachers O Sales CO SHARE Poster for the community Poster for school Poster for the session site MEASLES 4 RUBELLA MEASLES PARIMELLA Invitation and vaccination card for MR campaign : MEASLES To be distributed to all eligible children in Communities To be distributed to all students in schools TV Scroll / ticker MEASLES





#### 4.4 COLD CHAIN AND VACCINE MANAGEMENT

# 4.4.1 Ensuring effective vaccine logistics

Logistics planned well in advance are critical to the success of the MR Campaign. The major steps in ensuring excellent logistics during an immunization campaign are as follows:

- order vaccines in advance;
- make a written distribution plan from PHC to session sites. The plan should include;
  - specified responsible person at each post;
  - specify when and how supplies will be distributed and returned;
  - return of unused vaccines in reverse cold chain;
  - return of injection wastes from session sites and their disposal as per CPCB norms.
- pay particular attention to logistics needs for HRAs / Ps;
- ensure that vaccine and diluent are from same manufacturer, and that AD syringes, reconstitution syringes and injection safety equipment are always distributed together in matching quantities.

# 4.4.2 Maintaining the cold chain system

MR vaccine can be stored in either ILRs or deep freezers (DFs). In general, MR vaccine should be stored in a walk-in cooler (WIC) or ILR at +2°C to +8°C temperature. If there is shortage of ILR space, MR vaccine can be stored in a walk-in freezer (WIF) or DF only for campaign activity. However, diluents should never be stored in a freezer or in minus temperatures because of threat of micro cracks in the ampoule and thus risk of contamination. Diluent ampoules can be stored in ambient temperature until the day before the actual campaigns starts. To optimally utilize cold chain space, only the diluents that will be used for the



forthcoming session will have to be stored in ILR for at least 24 h before session timing to match their temperature with vaccine during reconstitution.

#### 4.4.3 Estimation of cold space

During the supplementary immunization activities, a substantially larger cold chain capacity is needed than for RI activities.

Volume of cold chain space available for vaccine supplies for MR campaign = total available cold chain space minus estimated volume of space required for RI services.

This requires an updated inventory of the working cold chain equipment available, and a review of the cold space provided by each type of equipment. If MR vaccine is delivered in 10-dose vials, every 384 doses of vaccine require approximately 1 L of storage space, stored in the secondary packing; and 384 diluent doses will occupy another 1 L of cold chain space (based on 2.6 cm³ volume per dose of MR vaccine / diluents).



At the district level, cold chain space will mainly be utilized for storing vaccines. At the sub-district level (block / PHC), cold chain space will be needed for freezing ice packs and storing vaccines and diluents. With current cold chain infrastructure, storage space for vaccine (routine and campaign) will not be a big problem at sub-district levels (block / PHC), but there may be constraints at district level.

In case of inadequate space, vaccine can be supplied in multiple supply cycles. Since activity may spread over nearly 4 weeks, vaccines can be supplied in aliquots (50% before activity, 25% at the end of the first week and 25% at the end of the second week) if there is a constraint of cold space.

#### **Example:**

If 10-dose MR vaccine vialsare delivered (1 L space can store 384 doses in secondary packing):

- 1 small ILR with net vaccine storage volume of 45 L can store 17 280 doses of MR vaccine without diluents (1728 10-dose vials) which is adequate for immunizing 15 568 children (WMF = 1.11);
- 1 large ILR with net vaccine storage volume of 108 L can store 41 472 doses of MR vaccine without diluents (4147 10-dose vials) which is adequate for immunizing 37 362 children (WMF = 1.11).

#### Contingency measures for vaccine storage:

At all levels of cold chain points / vaccine stores, in case of shortage of cold chain space in ILRs for storing MR vaccines, following options may be explored in advance.

- deep freezers
- cold boxes
- ice- factory
- private cold storage facilities
- vaccine vans can also act as temporary storage



#### Example 1:

**Cold chain space need for a District of 20 lakh population** (Considering 3 months storage of routine vaccines including buffer stock and lead time etc., that comes to 2.75 months of net storage space).

With birth rate of 25/1000 and number of estimated infant to be immunized annually 50,000 for Routine Immunization in the district (Example if 10 dose MR vaccine is delivered):

- total number of children to be immunized every month i.e. 50,000/12=4167;
- tor every child to be fully immunized cold chain space need is 63.9 cubic cm (cm³);
- cold chain space needed for maximum stock (2.75 months) is 63.9\*4167/1000 \*2.75 = 732 liters,

#### MR Campaign (Example: target calculation based on the best estimates available in district)

- age group for MR campaign is 9 months to <15 years which is less than a third of the net population;
- as an example: Total children to be immunized with MR vaccine ie.2000000\* ~30/100 = ~ 6,00,000;
- vaccine doses required = 600,000\*1.11 (WMF) = ~ 6,66,000;
- total cold chain space needed (in liters) for storage of MR campaign vaccine (2.6 cm³ per dose): 666000\*2.6/1000 = 1732 litres;
- hence total cold chain capacity requirement in district including RI and MR Vaccination Campaign: 732 liters + 1732 liters = 2464 liters (vaccine alone).

This is equivalent to 23 large ILRs, each of 108 liters net storage capacity (combined storage)

Or

12 large Deep Freezer of 200 litres net vaccine storage capacity for MR vaccine only.

Options: To optimally utilize cold chain space, distribute vaccines and diluents (50-100%) from district store to Blocks and PHCs immediately.

Note: if 10 doses MR vial are used, will require nearly half of cold chain space for campaign vaccines as compared to traditional 5 dose measles vaccine supplied under UIP.



#### Example 2:

Cold chain space needed for a block PHC of 1 lakh population (considering 1 month's storage of routine vaccine, with a birth rate of 25/1000 and estimated infant population of 2500) for RI.

#### **Example if 10-dose MR vaccine is delivered:**

- total number of children to be immunized every month = 2500/12 = ~ 210;
- for every child to be fully immunized, cold chain space needed is  $\sim$  90.8 cubic cm and total cold chain space need is 90.8 x 210/1000 =  $\sim$  19 L.

# MR Campaign (As an example target children should be based on best estimates available in PHC)

- age group for MR Vaccination Campaign is 9 months to <15 years;</li>
- as an example: Assuming  $\sim$  30% of the total population, net children to be immunized with MR vaccine is  $100\ 000\ x\ \sim 30/100 = \sim 30\ 000$ ;
- vaccine doses required = ~ 30 000 x 1.11 (WMF) = ~ 33 300;
- total cold chain space need (in L) for storage of MR vaccine (2.6 cubic cm per dose) =
- ~ 33 300 x 2.6/1000 = ~ 87 L.

Hence total cold chain capacity requirement in a PHC including RI and MR campaign = 19 L + 87 L = 106 L

Three small ILRs of 45 L net capacity or 1 large ILR of 108 L net capacity is adequate for both routine and MR Campaign in the block.

Note: Storage for diluent one day requirement must be taken into consideration. As per guideline that diluent must be stored in the cold chain at least 24 hours before start of the vaccination session.

#### Specifications of cold chain equipment

Equipment	Temperature	Storage Capacity	Holdover Time
		Electrical	
Deep Freezer (Large)	-15°C to -25°C	Ice packs or OPV stock for 3 months (275 to 300 Litres)	At 43°C for 2 hrs 30 mins (minimum)
ILR (Large)	+2°C to +8°C	BCG, OPV, IPV, RVV, TT, Measles / MR, Hep-B, Penta, IPV, Vaccine stock for 3 months (135 to 160 litres)	At 43°C for 2 hrs (minimum)
Deep Freezer (Small)	-125°C to -25°C	Ice packs (105 to 125 litres)	At 43°C for 2 hrs 30 mins (minimum)
ILR (Small) +2°C to +8°C		BCG, OPV, IPV, RVV, DPT, TT, Measles / MR, Hep-B vaccine stocks for one month (90-105 litres)	At 43°C for 20 hrs (minimum)
		Non-electrical	
Cold Box (Large)	+2°C to +8°C	All vaccines stored for transport or in case of power failure (20 to 25 litres)	At 43°C for 96 hrs (minimum)
Cold Box (Small)	+2°C to +8°C	All vaccines stored for transport or in case of power failure. (5 to 8 litres)	At 43°C for 48 hrs (minimum)
Vaccine carrier (1.7 litres)	+2°C to +8°C	All vaccines carried for 12 hours (4 conditioned Ice packs & 16-20 vials)	At 43°C for 36 Hrs. (minimum)



# Storing vaccines in ILR

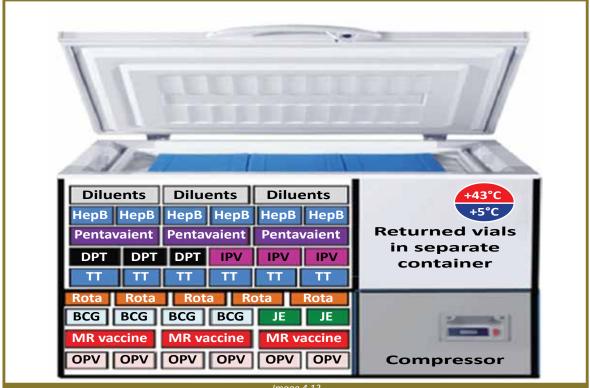
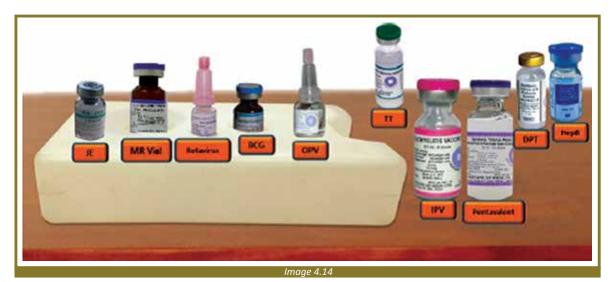


Image 4.13

# Placement of vaccines at session site





#### Sensitivity of vaccines to heat, light and freezing

Vaccinee	Vaccinee Exposure To heat / light					
Heat and light sensitive vaccines						
OPV	Sensitive to heat	Not damaged by freezing				
Measles / MR	Sensitive to heat and light	Not damaged by freezing				
BCG, RVV and JE Relatively heat stable, but sensitive to light		Not damaged by freezing				
	Freeze sensitive vaccines					
HepB / Penta	Relatively heat stable	Freezes at -0.5°C (Should not be frozen)				
IPV, DPT and TT	Relatively heat stable	Freezes at -3°C (Should not be frozen)				

#### AT the PHC Level, all vaccines are kept in the ILR for a period of one month at temperature of +2°C to +8°C

#### Vaccines sensitive to heat Vaccines sensitive to freezing BCG (after recostitution) Most Most OPV Sensitive Sensitive IPV Measles, MR HepB Rotavirus Penta JE **IPV** DPT DPT BCG (before reconstitution) TT Least Least TT, Sensitive Sensitive Penta, HepB

#### REMEMBER:

- each level needs to calculate storage space requirement and compare with present (operational) capacity, deducting space for airflow;
- calculation of cold chain capacity is along with a plan on how to substitute for shortages of capacity. If capacity (due to malfunctioning or any other reasons) is not sufficient, this needs to be reported during the planning meetings;
- if shortage of cold chain materials cannot be completely substituted from the national/ state level, solutions must be found locally with partners, or shifting around of equipment within the district must be considered;
- vaccine presentation and package will define your cold space required. 10-dose MR vaccine vials + diluents will require half the storage space than when 5-dose traditional measles vaccine vials were used.



#### 4.4.5 Icepack requirements

Sufficient icepacks should be available for transporting the vaccines to the field and keeping the vaccines and diluents cool during the day. To sufficiently freeze icepacks, the icepacks need to be kept in the freezer for a minimum of 24 h.

Vaccines carriers require 4 icepacks each and each team will need 2 vaccine carriers, i.e. 8 icepacks per vaccinator per day initially and at least one replacement set (4 ice packs) during the day.

Daily ice pack requirement = No. of vaccinators x 8 icepacks + replacement set of 4 icepacks = 12 icepacks Additional ice packs for supervisors = No of supervisors x 4 + replacement set of 4 icepacks = 8 icepacks and cold boxes = 20 to 40 icepacks per load

Total ice pack requirement (freezing cycle) = Daily icepack requirement x 3

#### **EXAMPLE:**

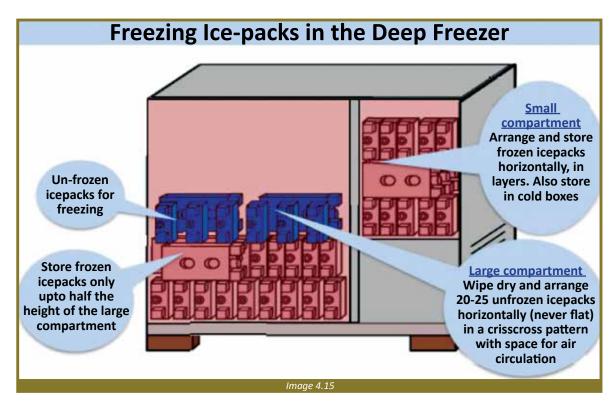
A PHC has 6 teams with 6 vaccinators. Each vaccinator requires 2 vaccine carriers with 4 icepacks each plus 4 replacement icepacks for 1 day of activity. The total requirement for 1 day at the PHC is

- 6 vaccinators x 12 = 72 ice packs
- 2 Supervisors x 8 = 16 ice packs
- Additional icepacks for cold boxes for storage and transportation of vaccine and diluents = 40

Total icepack requirement for PHC (including freezing cycle):  $(72 + 16 + 40) \times 3 = 384$ 

Additional icepacks are required to transport vaccines from state to districts and from districts to block / health centre level.





Freezer capacity is needed to have required number of adequately frozen icepacks. The number of icepacks that each equipment can freeze is detailed below.

Table 4.4.1: Freezing and storage capacities of icepacks for deep freezers

Manufacturer	Туре	Model	Net Storage capacity (in L)	Icepack freezing capacity	Icepack storage capacity
Haier	DF –large	HBD-286	200	39	350
Vest frost	DF –large	MF-314	264	60	380
Haier	DF –small	HBD-116	80	18	140
Vest frost	DF –small	MF -114	72	25	130

Table 4.4.2: Net vaccine storage volume of electrical and non-electrical cold chain equipment of different makes

Net storage capacity, using MR 10-dose vials (1 L of storage space can take 384 doses of 10-dose MR vaccine)

Cold chain equipment	Storage vol. (in L)	Vaccine storage capacity (No. of dosages)	No. of vials that can be stored without diluents
ILR-small	45	17 280	1728
ILR – large	108	41 472	4148
DF – small	72	27 648	2765
DF – large	213	81 792	8180
WIC – small (16 m³)	6930	2 661 120	266 112
WIC – large (32 m³)	13 440	5 160 960	516 096



Cold chain equipment	Storage vol. (in L)	Vaccine storage capacity (No. of dosages)	No. of vials that can be stored without diluents		
Cold box – large	20.7	7949	795		
Cold box –small	6.5	2496	250		
Vaccine carrier 1 384 38*					
* Vaccine carrier can contain up to 19 vials of vaccines and diluents each					

# 4.4.6 Maintaining the cold chain from central store to health facilities

#### Cold boxes

In the absence of adequate ILRs or DFs, cold boxes can be used for storage of vaccines during a short period (2–7 days). Cold boxes can also be used for keeping diluents cool 24 h before vaccination if adequate space is not available in the ILR.

# Vaccine carrier packing

Only standard vaccine carriers with four icepacks should be used by vaccination teams during MR campaigns. Ensure that vaccines and diluents are kept cool during the whole day; replace melted icepacks immediately.



In theory, one can load 38 MR vials (10-dose) in one large vaccine carrier with 1 L net storage capacity. Take into account, however, that if using 10-dose vials, this represents in theory 384 doses (packed in secondary packing). Cold chain and logistic managers need to carefully plan how to load the vaccine carriers, taking into account the presentation of the vaccine vial and the target children to be vaccinated that day. (Note that by removing the secondary packing, more vials can be loaded but then the risk exists that vials can be broken easier by pressure of one vial against the other. Note also that it is a good practice to always keep a bit of a margin by loading a slightly more number of vials than the target for that day.

As an example, in school vaccination, target for the day is 200 children = 222 doses needed:

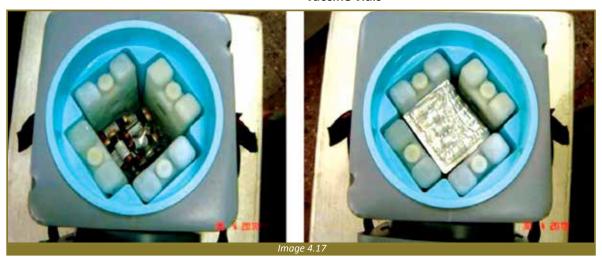
- using 10-dose MR vials:
  - vaccine carrier 1 can be loaded with 24 vials MR vaccine (240 doses) or 12 vials of MR vaccine (120 doses) and 12 vials diluents;
  - vaccine carrier 2 can be loaded with 24 vials of diluents or 12 vials of MR (120 doses) and 12 vials diluents.

During packing, a vaccine carrier puts the diluents with paper packing box or original blister packs at the centre of the vaccine carrier and vaccine vials around it. This is to avoid diluent ampoules from coming in direct contact with frozen icepacks.



Figure 6.1: Vaccine vials in zip lock bags

Figure 6 6.2: Diluents in blister packs above vaccine vials



#### Maintaining cold chain during vaccination session

- MR vaccine is very sensitive to heat and sunlight. Never expose the vaccine carrier, the vaccine vial or icepack to direct sunlight;
- all vaccines and diluents should be kept inside the vaccine carrier with the lid closed until a child comes to the centre for vaccination;
- the vaccine vial monitor (VVM) on the cap of the vaccine vial indicates whether the vaccine is
  usable or not. Keep the vaccines always in a zip lock plastic bag away from water to protect the
  labels and the VVM;
- at the time of reconstitution, the diluents must have the same temperature as of the vaccine. Ideally, diluents are kept in the cold chain 24 h prior to reconstitution;
- MR vaccine becomes more sensitive to heat after reconstitution. Reconstituted vaccine must be kept between +2 to +8 °C, away from sunlight and must be discarded 4 h after reconstitution or at the end of the session, whichever is earlier;
- the vaccinator should take out one ice pack from the second vaccine carrier (with smaller stock)
  to keep one vial of reconstituted vaccine in the well of the ice pack. Once the ice pack melts fully,
  it should be replaced with a fresh conditioned ice pack from the same vaccine carrier;
- once the reconstituted vial is finished, the next vial should be taken out of the vaccine carrier
  for reconstitution only after arrival of another child in the vaccination session site or if a child is
  waiting for vaccination;
- at the end of the session, the vaccine carrier with all icepacks, unopened vaccine vials and diluents inside, should be sent back to the concerned cold chain point (vaccine distribution centre);
- intact sealed vials returned on the previous day should be clearly marked and kept separately in the ILR on the top layer so that these will be the first to be used on the following day.





# The vaccine vial monitor says... The inner square is lighter than the outer circle. If the expiry date has not passed, USE the vaccine.

At a later time the Inner square is still lighter than the outer circle. If the expiry date has not

passed, USE the vaccine
Discard point: the colour of the inner square

matches that of the outer circle.

DO NOT use the vaccine.

Beyond the discard point the inner square is darker than the outer circle.

DO NOT use the vaccine

NB: for measl er vaccine, the VMM only indicates the at exposure of the dry vaccine; not after reconstitution.

Image 4.18

# Ensuring adequate supplies and cold chain space for storing vaccines

- supplies of vaccines should match the available cold chain capacity at state / district / block level;
- readiness of the functional cold chain system to receive the stocks is required through repair and maintenance of the existing cold chain equipment, i.e. WICs, WIFs, DFs, ILRs and stabilizers at all levels. Training of the cold chain handlers on cold chain and vaccine management should be ensured;
- while distributing the vaccines and logistics from the SEPIO to the districts, oversight is needed.
   Supply quantities should be based on the beneficiary estimates per planning template and not on basis of the demand by the districts;
- in the states where phasing is planned, the districts which have completed the first phase should send the residual stock to the state for redistribution to other districts;
- redistribution of vaccine stock during activity, both intra-state and within districts and blocks / PHCs based on requirement will be essential to minimize vaccine wastage.

# How to reduce vaccine wastage and improve vaccine management

#### Following are REMINDERS on how to reduce wastage of vaccines:

#### During transport / storage / distribution

- assure adequate transport means and adequate transport boxes;
- keep MR vaccines in their original pack aging as much as possible;
- always keep the MR vaccines at the correct temperature;
- store vaccines in cold chain equipment supplied under the immunization programme and do not store any other item except UIP vaccines;
- always check expiry date and VVM and use the EEFO principle or VVM highest heat exposure.



#### **During vaccination sessions**

- never reconstitute different MR vaccine vials at the same time;
- never pre-fill any large amount of syringes;
- never expose a reconstituted MR vaccine vial to direct sunlight;
- use all vaccine contents in a vial before opening a new vial.

#### VACCINES COST MONEY AND SAVE LIFES... DON'T WASTE THEM

# **Key points**

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- additional cold chain space will be required for MR vaccine, diluents and ice pack freezing;
- 10-dose MR vaccine vials will take half the cold-chain space, as compared to 5-dose measles vaccine vials used at present;
- at district level, cold chain space will be used mainly for vaccine storage; at sub-district level, cold chain space will be needed for both vaccine and diluent storage and for ice pack freezing;
- MR vaccine can be stored in either ILRs or DFs, if required, for the duration of MR campaign;
- diluents must only be stored in ILR. To conserve cold chain space, only one day's supply of diluents can be kept in ILR;
- if the district has a WIC for the division/region then it can be used for storage of MR vaccine with separate documentation;
- as activity will take place within 3–4 weeks, district level stores can supply vaccines and diluents to district and sub-district level stores in 2–3 supply cycles (50% 25% 25%);
- ice pack requirement including freezing cycle = ice pack required for a day x 3;
- rational vaccine stock management at every stage through constant oversight by SEPIO, DIO and BMO at state, district and block/PHC level, respectively will be highly critical for minimizing vaccine wastage.



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#### 4.5 SAFE IMMUNIZATION PRACTICES

#### 4.5.1 Safe immunization practices

Lessons learnt from previous vaccination campaigns show that errors are still being made in managing vaccines and diluents, reconstitution of the vaccine and injection practices. These errors can lead to minor and serious AEFIs and must be avoided at all cost.

Steps which will prevent immunization errors with MR vaccine are enumerated in succeeding paragraphs.

#### **Before reconstitution**

- check expiry date and VVM on seal of vaccine vial. Do not use if VVM is not in usable stage or if vaccine has expired;
- check expiry date on diluent ampoule. Do not use if diluent has expired;
- check that both diluent and vaccine have been supplied together, are from the same manufacturer and the label on the diluent vial states that the diluent is for MR vaccine;
- check that both diluent and vaccine vials are free from visible dirt outside and that no extraneous particles are visible inside either vaccine or diluent vials;
- check that cold chain has been maintained for both vaccine and diluent and both are at the same temperature.

#### **During reconstitution**

- reconstitute only one vial at a time;
- use a new reconstitution syringe (5 ml) to reconstitute each vial of vaccine, maintaining full aseptic precautions. Do not use the same syringe to reconstitute vaccine in another vial;
- use full amount of diluent in the ampoule to reconstitute the MR vaccine vial;
- do not touch the needle or rubber cap during reconstitution;
- after reconstitution, the vial should not be rolled between the palms. The vial should be shaken gently upside down a few times, holding the neck for mixing appropriately;
- record the time of reconstitution on MR vaccine vial label;
- use only AD syringe to administer vaccine to every child;
- do not withdraw vaccine from vial to pre-fill AD syringes.

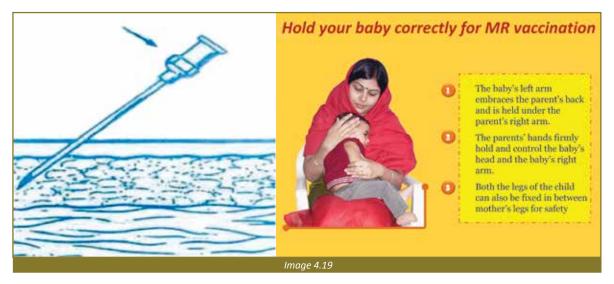
#### After reconstitution

- always keep reconstituted vaccine in one of the wells in the conditioned ice pack to maintain temperature at +2 to +8 °C;
- never use reconstituted MR vaccine beyond 4 h after reconstitution. Using MR vaccine beyond 4 h after reconstitution may result in toxic shock syndrome (TSS), leading to death;
- never carry and use reconstituted vaccine from one session site to another;
- reconstituted vaccine must be discarded immediately if:
  - there is any suspicion that the opened vial has been contaminated, such as any visible dirt in the vial, the vial dropped on the ground, accidentally touching the rubber cap, and contact with water;



- the cold chain has not been maintained at any point prior to administering the vaccine to the child:
- there is visible evidence of contamination, such as change in appearance and floating particles, which means that the cold chain is obviously broken.

Fig. 4.5.1: Angle for subcutaneous injection Fig. 4.5.2: Holding the child properly



### **Ensuring injection safety**

As in routine service, all vaccinators will use only AD syringes during the MR campaign. These syringes prevent person-to-person transmission of blood-borne pathogens. Remember:

- use a new sterile packed AD syringe for each injection for each child;
- use the same syringe to draw and administer the vaccine;
- do not pre-fill syringes;
- do not attempt to recap the needle. This practice can lead to needle-stick injuries;
- immediately after injecting the child, the AD syringe must be cut



from the hub (plastic part at base of needle) using the hub cutter, and cut part of the syringe put in the red bag. Do not put the syringes on the table or on a tray after the injection;

- do not use AD syringes that have damaged packaging, or have passed the manufacturer expiry date;
- wash your hands with soap before and after the vaccination session.



#### Safe disposal of injection waste

- cut the hub of the AD syringe immediately after administering the injection using the hub cutter;
- the cut needles will get collected in the punctureproof translucent container of the hub cutter;
- store broken vials in the same hub cutter;
- segregate and store the plastic portion of the cut syringes and unbroken (but discarded) vials in the red bag;



- all other non-infectious wastes will go into black bag;
- carry the immunization waste generated in the outreach sessions and hand these over to the PHC for further disposal;
- wash the containers properly for re-use.

#### **Returning used and unused supplies**

All vials (used, unused and partially used) must be returned through Alternate Vaccine Delivery (AVD) to the vaccine distribution / ILR point. Supplies that remain unused at the end of session, including unopened vaccines and diluents, should be returned to the centre from where they were distributed (PHC / UHC) maintaining a reverse cold chain for the vaccine. Completed and signed tally form should also be returned with vaccine carrier. It is important to ensure the following:

- returned unopened vials must be properly marked and stored immediately at the correct temperature;
- on the next day, these marked vials must be supplied and used first;
- ensure that all used reconstituted MR vaccines are discarded at the end of the day and kept ina a separate zip lock bag to return back to ILR point;
- always keep both used and reconstituted MR vaccine returned from the field separately contained in a zip lock bag / box with proper cold chain till the next session or 48 hours which ever earlier.



# 4.6 Managing adverse events following immunization

Programme managers and implementers of the MR campaign must plan in advance to prevent and minimize AEFIs and be ready to respond promptly and effectively in case of occurrence of any AEFI.

#### **Definition**

An AEFI is any untoward medical occurrence which follows immunization and which does not necessarily have a causal relationship with the usage of the vaccine. The adverse event may be any unfavourable or unintended sign, abnormal laboratory finding, symptom or disease.

Occurrence of an AEFI does not necessarily imply that the vaccine is the cause of the adverse event. (For details please see AEFI Surveillance and Response to Operational Guidelines – 2015, Government of India).

## **AEFI during MR campaigns**

Live attenuated MR vaccines currently in use have an excellent track record for safety and efficacy. However, a few children may experience some adverse events from MR vaccine as listed in below table 4.6.1. Fortunately, most adverse effects are minor and transient (local reaction, fever, rash) with no long-term sequelae. One serious but extremely rare adverse effect of MR vaccine is anaphylaxis following vaccination.

During a MR campaign, AEFIs must be rapidly detected and promptly responded to or else it can



undermine confidence in the vaccine and immunization programme. This will ultimately have a negative impact on immunization programme and the objectives of MR campaign (high coverage and mortality reduction) will not be achieved.

Programme managers should be aware of the following:

- a MR campaign involves a large number of doses given over a short period of time. As the
  number of MR vaccine doses administered will be far above than that administered in RI in a
  year, this may lead to increase in absolute numbers of reported AEFI cases. However, the rate of
  these events per dose administered will not increase;
- immunization errors which might lead to AEFI must be prevented at all costs through intensified training and adherence to proper vaccine / diluent handling and injection practices;
- interactions with media are of crucial importance in managing the media repercussions of serious AEFIs. A separate media plan should be in place beforehand. Please refer to Section 4.3 on SBCC (IEC / IPC etc.).



Table 4.6.1: List of AEFIs that may occur following MR vaccination #

Reaction*	Onset interval	Adverse reactions: case to dose ratio	Adverse reactions: incidence (%) or per million doses
Local reaction at injection site	0–2 days	1 in10	(10%)
Fever	6–12 days	1 in 6 to 1 in 20	(5–15%)
Rash	6–12 days	1 in 20	(5%)
Febrile seizures **	6–12 days	1 in 3000	330
Thrombocytopaenia (low platelet count)	15–35 days	1 in 30 000	30
Anaphylactic reaction (severe hypersensitivity reaction)	0.24	1 in 100 000	10
	0–2 h	1 in 100 000	10
Anaphylaxis	0–1 h	1 in 1 000 000	1
Encephalopathy	6–12 days	<1 in 1 000 000	<1

<sup>\*</sup> Reactions, (except local reactions and anaphylaxis) do not occur if already immune.

# Source: World Health Organization. Mass MR immunization campaigns: reporting and investigating adverse events following immunization (Revision May 2002). Geneva: Immunization Safety Priority Project, Vaccine Assessment and Monitoring, Vaccines and Biologicals, WHO; 2002.

The risk of complications from natural MR infection and disease is much higher than the risk of AEFI after vaccination as shown in Table 4.5.2. This is a powerful advocacy tool for programme managers.

Table 4.6.2: Risk of complications after natural measles infection and selected AEFI after MR vaccination\*

Complications	Risk after natural disease # (events / nb. of cases)	Risk after vaccination (events / nb. of doses)
Otitis media (middle ear infection)	7–9% of cases	0
Pneumonia	1–6%	0
Diarrhoea	6%	0
Post-infectious encephalomyelitis	0.5-1 / 1000 cases	1 / 1 000 000 doses
SSPE	1 / 100 000	0

<sup>\*</sup> Source: Pless RP,Bentsi Enchill AD, Duclos P. Monitoring vaccine safety during measles mass immunization campaigns: Clinical and programmatic issues. J Infect Dis 187 Suppl 1. 2003; S291–8.



<sup>\*\*</sup> Seizure risk is age-dependent and lower for older children. Children over 6 years are unlikely to have febrile seizures.

<sup>#</sup> Risk as measured in developed countries. Risk likely higher in developing countries.

#### **AEFI** due to immunization errors

AEFI due to immunization errors are by definition caused by an error in vaccine preparation, handling or administration. This is not due to the vaccine per se, but due to human error and must be prevented at all costs through intensive training and by following safe injection practices. Two common causes of AEFI due to immunization error with MR vaccine are the use of wrong diluents and using reconstituted vaccine beyond the recommended time of 4 hours (Table 4.6.3).

Table 4.6.3: Immunization errors leading to adverse events

Immunization errors	Adverse event	
Vaccine prepared incorrectly		
Vaccine reconstituted with incorrect diluent or with drugs substituted for vaccine or diluent, e.g. muscle relaxant, insulin	Effect of drug, e.g. muscle relaxant, insulin can even result in death	
Non-sterile injection		
Improperly sterilized syringe or needle Contaminated vaccine or diluent	Infection, e.g. local suppuration at injection site, abscess, cellulitis, transmission of blood borne virus—HIV, hepatitis B or hepatitis C	
Reuse of reconstituted vaccine at subsequent session	Systemic infection, sepsis, TSS	

#### AEFI monitoring and management plan during MR campaigns

SOPs have been laid out by the GoI for responding to AEFI (AEFI Surveillance and Response Operational Guidelines, 2015) and they should be followed during the MR campaign. During MR Vaccination Campaign, AEFI detection, management and reporting should be done according to the following protocol.

# **AEFI surveillance during campaign**

- all ANMs / ASHAs / AWWs and MOs must be sensitized to recognize and report AEFIs promptly.
   They must know what to do in the event of an AEFI and the location of the nearest AEFI treatment centre. All AEFIs (Minor / Serious / Severe) should be recorded by ANM in the block AEFI register.
- the District AEFI Committee must be informed and involved from the beginning of the campaign;
- the District AEFI Committee will investigate all reported serious / severe AEFIs and also contribute to managing the media during crises and otherwise;

#### **AEFI** management centres

- during the MR campaign, every Government health facility from the PHC level upwards which has at least one MO posted will function as an AEFI management site;
- in addition, BMO in consultation with CMO will explore the possibility of setting up AEFI management centres in the clinics of physicians in the private sector or other government





departments. Such AEFI management sites should be geographically dispersed within the block so that in the event of an AEFI the child can be taken to the nearest AEFI management centre quickly;

- all such AEFI management centres should be listed out in the micro-plan with telephone number and addresses and all vaccinators and supervisors must know the contact details of the nearest AEFI centre from their area of activity for that day. This must be part of the micro-plan;
- all clinicians at the block level (block PHC and PHC), district level (district hospitals and subdivisional hospitals) and the designated clinicians in the AEFI management centres in the private sector will be trained in standard AEFI management and reporting procedures;
- all MOs acting as supervisors will carry an emergency AEFI management kit;
- all AEFI management centres will be provided with AEFI treatment kits and AEFI reporting forms;
- for the duration of the campaign, utilization of services of 102 and 108 ambulances may also be considered by the states;
- BMO and PHC MOIC will be provided mobility support to quickly respond to reported AEFI;
- AEFI management centres will report the AEFI as per laid out procedures in the national guidelines.

**Note**: Vaccinator teams need to segregate potential recipients from those who have received the vaccines and are under observation for 30 minutes post vaccination, from those standing in line to receive the vaccine so that they do not interact with each other and form anxiety clusters. Beyond 30 minutes also if there is an AEFI, there should be one person from either the team members or PHC MO to report the AEFI.

As adrenaline is a drug with short expiry ensure that all adrenaline ampules are checked for expiry dates.

#### Response to an AEFI

- serious / severe AEFIs should be immediately referred to the nearest health facility / AEFI centre and reported to the appropriate authority;
- the vaccinators and the supervisors at the vaccination site will provide primary management of AEFIs;
- if needed, they will refer serious / severe AEFIs to the nearest AEFI management centre;
- transportation costs will be borne through untied funds with Village Health and Sanitation Committee (VHSC).



#### Contents of an AEFI treatment kit

- injection adrenalin (1:1000) solution 2 ampoules;
- injection hydrocortisone (100 mg) 1 vial;
- disposable syringe (1 ml tuberculin or 40 unit insulin) and 24/25 G IM needle 2 sets;
- disposable syringe (5 ml) and 24/26G IM needle 2 sets;
- scalp vein set 2 sets;
- tab paracetamol (500 mg) 10 tabs;
- I/V fluids (Ringer lactate/normal saline): 1 unit in plastic bottle;
- I/V fluids (5% dextrose): 1 unit in plastic bottle;
- IV drip set: 1 set;
- cotton wool, adhesive tape: 1 each;
- AEFI reporting form (CRF);
- label showing date of inspection, expiry date of Inj. adrenaline and shortest expiry date of any of the components;
- drug dosage tables for Injection adrenaline and hydrocortisone;
- **a**t hospital settings, oxygen support and airway intubation facility should be available.

Figure 4.6.2: Contents of AEFI kit





## Recognition and treatment of anaphylaxis

Anaphylaxis is a very rare (estimated as once every million doses of MR vaccine given) but a severe and potentially fatal allergic reaction. When anaphylaxis does occur, the patient must be diagnosed properly and treated and managed urgently by trained staff and transferred to a hospital setting.

There is a high risk that HWs who lack training will misdiagnose faints (vasovagal syncope) and dizziness following immunization for the onset of anaphylaxis. Vaccinators, paramedics and physicians should be adequately trained so that they are able to distinguish anaphylaxis from fainting (vasovagal syncope), anxiety and breath-holding spells, which are common benign reactions.

During fainting, the individual suddenly becomes pale, loses consciousness and collapses to the ground. Fainting is sometimes accompanied by brief clonic seizure activity, i.e. rhythmic jerking of the limbs, but this requires no specific treatment or investigation. Fainting is relatively common after immunization of adults and adolescents, but very rare in young children. It is managed by simply placing the patient in a recumbent position. Recovery of consciousness occurs within a minute or two, but patients may take some more time to recover fully.

An anxiety spell can lead to pale, fearful appearance and symptoms of hyperventilation (light-headedness, dizziness, tingling in the hands and around the mouth). Breath holding occurs in young children and will lead to facial flushing and cyanosis. It can end in unconsciousness, during which breathing resumes.

Table 4.6.4: Signs and symptoms of anaphylaxis

Clinical Progression	Signs and symptoms of anaphylaxis
Mild, early warning signs	Itching of the skin, rash and swelling around injection site. Dizziness, general feeling of warmth
	Painless swelling in part of the body, e.g. face or mouth. Flushed, itching skin, nasal congestion, sneezing, tears
	Hoarseness, nausea, vomiting
	Swelling in the throat, difficulty in breathing, abdominal pain
Late, life-threatening Symptoms	Wheez irregular weak pulsing, noisy, difficulty breathing, collapse, low blood pressure, irregular weak pulse

#### **Recognition of anaphylaxis**

Anaphylaxis is a severe reaction of rapid onset (usually 5–30 minutes after the injection) characterized by circulatory collapse. The early signs of anaphylaxis are generalized erythema and urticaria with upper and / or lower respiratory tract obstruction. In more severe cases, limpness, pallor, loss of consciousness and hypotension become evident in addition. Vaccinators should be able to recognize the signs and symptoms of anaphylaxis in Table 4.5.5.

In general, the more severe the reaction, the more rapid is the onset. Most life-threatening reactions begin within 10 minutes of immunization. That is why it is advised that the beneficiary be kept under observation for at least 30 minutes after the injection.

Unconsciousness is rarely the sole manifestation of anaphylaxis – it only occurs as a late event in severe cases. A strong central pulse (e.g. carotid) is maintained during a faint, but not in anaphylaxis.



Anaphylaxis usually involves multiple body systems. However, symptoms limited to only one body system, e.g. skin itching can occur, leading to delay in diagnosis. Occasional reports have described reactions where symptoms recur 8 to 12 h after onset of the original attack and prolonged attacks lasting up to 48 h.

Table 4.6.5: Distinguish anaphylaxis from fainting (vasovagal reaction)

	Fainting	Anaphylaxis
Onset	Usually at the time or soon after the injection	Usually some delay, between 5 to 30 minutes after injection
System		
Skin	Pale, sweaty, cold and clammy	Red, raised and itchy rash; swollen eyes, face, generalized rash
Respiratory	Normal to deep breaths	Noisy breathing from airways obstruction (wheeze or stridor)
Cardiovascular	Bradycardia, transient hypotension	Tachycardia, hypotension
	Nausea , vomiting	Abdominal cramps
Neurological	Transient loss of consciousness, good response once prone	Loss of consciousness, little response once prone

## **Treatment of anaphylaxis**

Once the diagnosis is made, consider the patient as being in a potentially fatal condition, regardless of the severity of the current symptoms. Begin treatment immediately, and at the same time make plans to transfer the patient immediately to the hospital (if not already in a hospital setting).

## Role of adrenaline

Adrenaline (epinephrine) stimulates the heart, reverses the spasm in the lung passages, and reduces edema and urticaria, thus countering the anaphylaxis. But this very potent agent can cause irregular heartbeat, heart failure, severe hypertension and tissue necrosis if used in inappropriate doses.

Every health facility should have health staff trained in treatment of anaphylaxis and should have rapid access to an emergency kit with adrenaline, and be familiar with its dosage and administration. The expiry date of the adrenaline should be written on the outside of the emergency kit and the whole kit should be checked three or four times a year. Adrenaline that has a brown tinge must be discarded. Adrenaline has a short expiry life, so monitor the expiry date on regular basis.

#### Steps in initial management

- if already unconscious, place the patient in the recovery position and ensure that airway is clear;
- assess heart rate and respiratory rate (if the patient has a strong carotid pulse, he / she is probably not suffering from anaphylaxis);
- if appropriate, begin cardiopulmonary resuscitation (CPR);
- give adrenaline 1:1000 (see below for correct dose for age or weight) by deep intramuscular injection into the opposite limb to that in which the vaccine was given (subcutaneous



administration is acceptable in mild cases) and give an additional half dose around the injection site subcutaneously (to delay antigen absorption);

- if the patient is conscious after the adrenaline is given, place his / her head lower than the feet and keep the patient warm;
- give Inj. hydrocortisone IM or slow IV per dosage chart below:
- give oxygen by facemask, if available;
- call for professional assistance, but never leave the patient alone. Call an ambulance (or arrange other means of transport) after the first injection of adrenaline, or sooner if there are sufficient people available to help you;
- if there is no improvement in the patient's condition within 10–20 minutes of the first injection, repeat the dose of adrenaline up to a maximum of 3 doses in total. Recovery from anaphylactic shock is usually rapid after adrenaline;
- record, or get someone to record, vital signs (pulse rate, respiratory rate and blood pressure)
  as well as time and exact dose of any medication given. Make sure the details accompany the
  patient when s / he is transferred;
- mark the immunization card clearly so the individual never gets a repeat dose of the offending vaccine. At a suitable moment, explain to parents or relatives the importance of avoiding the vaccine in the future;
- report the occurrence of anaphylaxis to the appropriate officer by phone followed by the reporting form.

**Adrenaline dosage:** 1:1000 adrenaline (epinephrine) at a dose of 0.01ml / kg up to a maximum of 0.5 ml injected deep intramuscularly.

If the weight of the patient is unknown, an approximate guide is given in below table.

Table 4.5.6 Injection adrenaline (1:1000 solution) dosage chart IM		
Age group	Dose in mL (tuberculin syringe)#	Equivalent volume in insulin syringe#
0-1 year	0.05	2
1-6 years	0.1	4
6-12 years	0.2	8
12-18 years	0.3	12
Adults	0.5	20

# Based on type of syringe available (tuberculin/insulin), choose relevant volume of adrenaline for administration

Table 4.5.7 Injection hydrocortisone (IM or slow IV): dosage chart		
Age	Dosage	
Less than 6 months	25 mg	
6 months to 6 years	50 mg	
6–12 years	100 mg	
>12 years	200 mg	

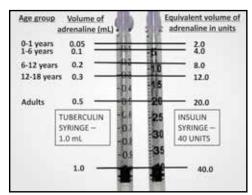
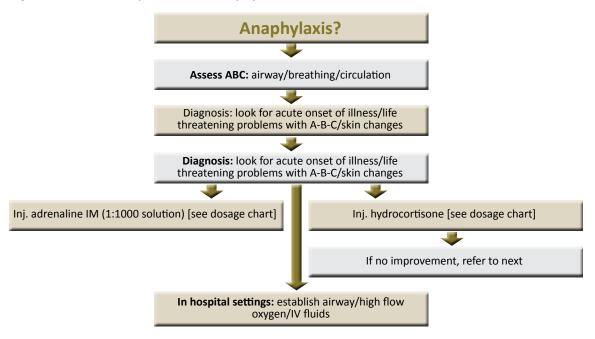




Fig. 4.6.3: Treatment protocol for anaphylaxis



## Severe/Serious AEFI

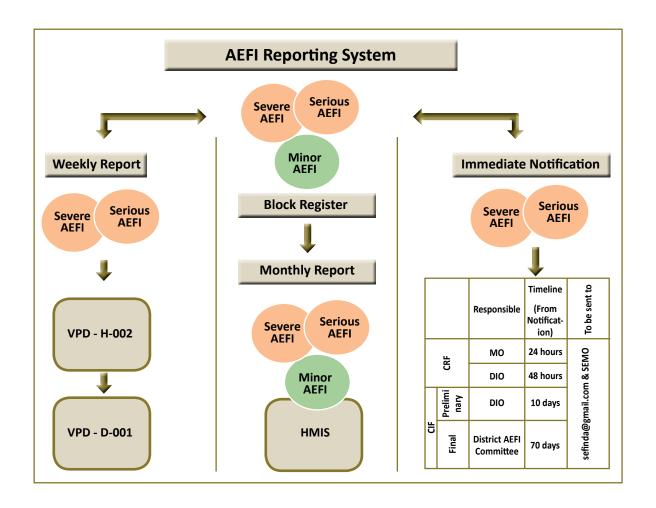
- anaphylactic reaction (acute hypersensitivity reaction)
- anaphylaxis
- persistent (more than 3 hours) inconsolable screaning
- hypotonic hypo responsive episode (HHE)
- toxic shock syndrome (TSS)
- severe local reaction
- sensis
- injection site abscess (bacterial/sterile)
- lymphadenitis
- disseminated BCG infection
- osteitis/Osteomyelitis
- thrombocytopenia (15-35 days after measles/MMR)
- encephalopathy (6-12 daya for measles/MME; 0-2 days for DTP
- acute flaccid paralysis (4-30 days for OPV recipient: 4-75 days for contact)
- brachial neuritis (2-28 days after tetanus containing vaccine)
- intussusception (commonly within 21 days after rotavirus vaccines)
- seizures, including febrile seizures (6-12 days for measles/MMR; 0-2 days for DTP)

## **Serious AEFI**

Any untoward medical event that Results in

- death
- Requires inpatient hospitalization
- Results in persistent or significant disability
- AEFI cluster







## **Communication regarding AEFI**

Although serious AEFIs due to MR vaccine per se are extremely rare, occurrence of an AEFI and sensational media coverage may seriously undermine an MR campaign. Programme managers must therefore plan a special communication strategy regarding AEFI in advance. Please refer to section 4.3.7 on AEFI and annex for technical details. There are two stages to AEFI communications—(i) Preparedness and (ii) Response.

AEFI communic	AEFI communication objectives		AEFI communication Indicators	
of the AEF	e managers and outreach workers are fully aware protocol AEFI, information flow is correct and timely o AEFI is rapid and as per protocol	1. 2. 3. 4.	State and district AEFI committees are formed and functional  AEFI Communication Protocol converted into customized formats before sharing  AEFI Management Protocol is readily available on demand with the Programme Manager / outreach worker  AEFI Committee and MR campaign staff undergo training in AEFI preparedness and response  Programme Manager / outreach worker is able to narrate the protocol process correctly on demand application of the protocol process correctly on de	



#### **AEFI** communication activities

#### Internal preparedness

- Ensure state and district AEFI committees are formed and functional
- Review and check each component in the AEFI Communication Protocol to ensure it is updated
- 3. Map all MR campaign staff at different levels who must be familiar with AEFI Communication Protocol
- 4. Customize AEFI Communication Protocol into suitable formats before sharing
- Check and receive confirmation that AEFI Communication Protocol has reached the concerned people
- Hold training at each level on the AEFI Communication Protocol (hold a mock if time and support is available; however, it needs to be planned very carefully)

#### **External preparedness**

For easier management, this has been divided into two groups: (i) News media and (ii) Community groups

#### News media preparedness

- Maintain a database of local journalists with their updated contact information
- Ensure information packages with FAQs on MR Immunization and Fact Sheet on VPDs is provided to journalists
- 3. Keep media informed with regular updates on any plans, programmes and decisions through e-mail or hardcopy
- Organize regular orientation workshops and field visits for journalists to immunization sites
- Identify, fix, communicate and train two key spokespersons at State and at district levels, one from government and second from private health sector / development partner
- Provide AEFI Spokespersons' kit (not to be shared with the media)containing: (i) potential and frequently asked questions by media; (ii) suggested answers.
- Keep a steady flow of opinion articles through local influential spokespersons on the importance of MR
- 8. Identify and engage local impactful, equity focused media prior to the launch of a campaign

#### **Community preparedness**

- 9. Develop strong partnership with community leaders and influencers and orient them to AEFI protocol
- Motivate community groups / influencers to identify one or two key members to act as representatives with the health team during an unfortunate AEFI
- 11. Keep communities and partners constantly involved and informed of the progress of MR campaign
- 12. Remember to thank community representatives during and after any AEFI incident, no matter how small.

#### Community response

When communicating with parents / caregivers during an AEFI, it will be useful to do the following:

- Reach out to the patient's family / bereaved family as soon as possible
- 14. Listen patiently and sympathetically to caregivers and their concerns
- 15. Reassure and support caregiver or patient but do not make false promises
- 16. Assist caregiver with taking patient to PHC / hospital facility in case of an AEFI
- $17. \quad \text{Keep parent / guardian / community representative routinely} \\ \text{informed of progress being made by patient.}$

#### Media

- Follow the media response protocol and guidelines for response to media queries in case of AEFI
- Provide regular updates to media if required and keep access to knowledge base on the MR campaign available and easily accessible to media

#### Resources:

- 1. AEFI Committee
- 2. AEFI Protocol
- 3. Customized AEFI formats
- 4. AEFI training plans at all levels
- 5. AEFI trainers from media
- 6. AEFI kit for media
- 7. Media information sheet
- 8. AEFI media handling guide for spokespersons

#### Accountability:

COG: Director Media, IEC Division, MoHFW, with

Commissioner UIP

SOG: Director IEC Bureau / SEPIO

DTFI: District Media Officer / DIO / CMHO Block: BMO

## Timeline:

- Starting at least 6 weeks before start of MR campaign
- 2. Ending at least two weeks before start of MR campaign
- Check and verify degree of readiness and repeat weak areas.



## **Key points**

- MR vaccine is a safe and effective vaccine;
- vaccine handlers and vaccinators must understand that most AEFIs are due to immunization errors and must be prevented at all costs;
- very rarely, MR vaccine can cause serious AEFI (e.g. anaphylaxis), which must be treated promptly using adrenaline followed by hydrocortisone;
- all government facilities from PHC level upwards will function as AEFI management centres with designated MOs;
- all AEFI management centres must be fully equipped with AEFI kits and have copies of treatment protocols prominently displayed in the hospital (OPD/IPD).



## 4.7 SUPERVISION – MONITORING AND EVALUATION

Difference between (supportive) supervision and (independent) monitoring for MR campaign:

## (Supportive) supervision

(Supportive) supervision is active support by the vaccine programme managers during the preparation phase (at least 1 month prior) and during the implementation phase (entire 1 month) of the MR campaign.

Focus of the supportive supervision is the management and operational aspects of the MR campaign with immediate corrections, problem solving and on-the-job training. This will ensure medical officers, vaccinators and other HWs comply with the highest quality standards recommended in the MR campaign operational guideline.

## (Independent) monitoring

(Independent) monitoring is done by persons external to the national or local immunization programme (UIP) observing the management and operation practices of the preparation phase (1 week prior) of the MR campaign, along with the intended results during the campaign and (i) Suggesting recommendations to correct qualitative issues generally observed, and (ii) Suggesting, through RCM, areas for "sweeping" or identifying areas or population groups to be immunized that have not been covered

The supervisor and the independent monitors will be as under:

- national level supervisors UIP supervisors from MoHFW
- state level supervisors 1 supervisor from UIP for each district
- district level (second line) supervisors 1 supervisor from UIPfor each block
- team (first line) supervisors 1 supervisor from UIP per every 3 teams
- independent external monitors from national, state, district level both Government and nongovernment partners (externally hired field monitors by WHO / UNICEF, NGOs, donors)
- external monitors from international level: WHO UNICEF US CDC other partners.

Following the State workshop, National level observers will visit the States / UTs to assess the preparedness and implementation activities.

## Tools to be used for supervision – monitoring

Following forms are part of the annexes of the Operational Guidelines. It is necessary to orient all supervisors and monitors on the methods for supervision and monitoring and on the use of the forms and reporting methods of all findings.

- pre-campaign Checklist for supervisors and monitors (refer to accountability matrix and monitoring tool);
  - to be used 1 month before the start of the MR campaign by second level and higher-level supervisors;
  - to be used 1 week before the start of the MR campaign by monitors.
- intra-campaign Checklist for supervisors / monitors (refer to accountability matrix and monitoring tool);



- to be used by higher level supervisors in priority districts / blocks / sites;
- to be used by team supervisors covering all of their teams supervised.
- intra-campaign Checklist for monitors (refer to accountability matrix and monitoring tool);
  - to be used by external independent national and international monitors during the implementation of the campaign with priority to HRAs / Ps.
- RCM by monitors (refer to accountability matrix and monitoring tool);



to be used by external national / sub-national and international monitors (during implementation of the MR campaign with priority to high-risk areas / populations.

## 4.7.1 Supportive supervision

National observers will be monitoring the planning and implementation activities after the state / district workshops have been conducted. National, state and district UIP officers should be allotted districts / blocks / urban areas that should be meticulously visited before the activity to supervise the preparedness and during the activity to supervise the implementation of the activity. The supervisors should identify any constraints that are likely to affect the implementation of the programme in terms of quality and safety, including providing solutions and on-the-job training to remove any bottlenecks for enhancing quality and coverage.

## **Preparatory phase**

During the preparatory phase, all state UIP supervisors should attend DTF meetings, support the district health team, and report back to the State Family Welfare Secretary on the quality and effectiveness of these meetings.

Supervisors should also review the micro-plans to ensure that:

- all components are present;
- all geographical areas have been included;
- resource / logistic calculations and cold chain plan are realistic and adequate;
- team composition is appropriate with trained vaccinators and assistants identified;
- HRAs / Ps requiring special attention have been identified and plans with extraordinary measures have been developed to cover them;
- training has been planned for all vaccinators, supervisors and assistants;
- SBCC (IEC / IPC etc.) / social mobilization plans have been developed and documented;
- for the pre-campaign supervision, programme managers at various levels should use the pre campaign supervisory checklist for timely and appropriate action based on preparedness status of the concerned block / district / state that must be reviewed by STFI / DTFI.



UIP programme managers at all levels should use the pre-campaign checklist given in annex (pre-campaign checklist at multiple levels) to supervise preparedness, undertake mid-course corrections and provide on-the-job training.

## Implementation phase

All UIP officers and supervisors should again visit their allotted districts / blocks / urban areas during the implementation phase to assess the quality and the completeness of coverage of children 9 months to <15 years of age. They will again review the operational planning components to confirm completion and will visit vaccination posts / teams to support and supervise the activities.

UIP program managers at all levels should use the intra-campaign checklist given in annex 11 (session site monitoring tool (form 17) and RCM tool (form 18)) to supervise and support vaccination team performance at the different sites. They will provide corrections, conduct on-the-job training and advise sweeping activities based on the outcome of the house-to-house visits as outlined in the guidelines at the bottom of the supervisory form (refer to annex 11).

## 4.7.2 External monitoring

## **Preparatory phase**

External, independent monitors will be assigned from international, national, state and district levels to monitor and observe activities four week prior to the start of the MR campaign. They will debrief on their findings to the UIP managers of the level monitored and will report key issues back to the national level for eventually formulating official advisories to all states. Priority areas for monitoring will be the HRAs / Ps as defined in Section 4.2 (A set of pre campaign preparedness assessment tool have been developed for use by monitors / observers for this purpose (Refer annexed checklists State (A), District (B), Block (C), School (D).

## Implementation phase

External, independent monitors will use standardized monitoring formats to assess: (i) quality of session activity, and (ii) coverage through rapid convenience assessments (RCM). They will be briefed about the methodology of monitoring and conducting RCM before the MR Campaign. The RCM tool (form 18) is given in annex 11.

## **Process of conducting RCM (methodology)**

Area selection for RCM: National or Independent observers / external monitors are expected to conduct as many RCMs as possible. Conduct assessment only in areas where MR campaign sessions have already taken place. Do not combine different areas in same format. Try to identify missed communities, especially in isolated areas, at the farthest point from the vaccination site, socially segregated groups, street children, working children in small enterprises or markets, etc. Start in a central location, and pick a starting direction at random by tossing a coin. Begin with the first house facing you. Identify and tally 20 target age children (9 months to < 15 years) in 20 households (1child per household). If a household has more than one eligible child, validate the oldest child in the eligible age group who is physically present at the time of visit.

**Child selection and response during RCM:** You may have to visit more than 20 houses if any of the houses does not have any eligible children. If up to three children are found unvaccinated, inform the supervisor / authority to motivate and mobilize all missed children to visit the nearest campaign session-site that day or to the fixed site of that area. If four or more children are found unvaccinated, report to the supervisor and the vaccination team should revisit the area to immunize all the missed children in the entire area through a sweeping activity that is planned in the last week of the ongoing



MR campaign. All such missed children found unvaccinated must be identified and mobilized to the vaccination site. If any AEFI is noticed, direct the guardian to the nearest health facility / AEFI management-treatment centre and also report to concerned authority.

RCM is an extremely useful tool to uncover pockets of unimmunized children and take corrective actions.

## 4.7.3 Post-campaign assessments

#### **Process level assessment**

Following the MR campaign, review meetings should take place at district, state and national levels to identify the strengths and weaknesses of the activities. Supervision and monitoring questionnaires used during the campaign should be collected and analyzed in order to provide quantitative information related to the process of implementing the activity. In addition, it will be important to qualitatively document the impressions and experiences from the field. It is important that all stakeholders – personnel and staff involved in the planning and service delivery aspects of the activity as well as the community beneficiaries – participate in this process to document best practices and lessons learned, to ensure the highest quality of campaigns in the future.

## **Output level assessment**

The outcome of the MR campaign is measured by the proportion of the target population (children 9 months to <15 years) who were vaccinated during the campaign. There are two approaches to estimate MR Campaign vaccination coverage:

- administratively based, on campaign field reports and estimated target populations;
- conventional household surveys using cluster sampling methodologies.

The first approach can be problematic if target population – denominator information – is not current or up to date. The second approach is often used to validate administrative coverage and is seen as the gold standard for assessment of the coverage attained during a MR Campaign.

## Evaluation of the impact of the campaign

Impact of the campaign is related to the reduction in MR-related morbidity and mortality as a result of the MR Campaign and the increased immunity of the population to these viruses. This is measured through sensitive laboratory supported MR surveillance data.

## Monitor and document MR Campaign SBCC (IEC / IPC etc.) activities

- 1. Refer table communication plan template for SBCC Monitoring (chapter 4.3)
- 2. Prepare a monitoring team and monitoring plan containing list of monitors at different levels, geographical areas to be monitored, date and time, mobility plan (along with mobility cost), contact number of MR Control Room
- 3. Hold training of all monitors, orient them to the indicators and teach them how to submit findings and in what format
- 4. Document all major activities to report progress. This documentation can range from simple observation and text noting to digital documentation such as:
  - photographs
  - audio / video interviews with parents, service providers, influencers



- vaccination centre and IEC material
- events
- 5. All documentation must be submitted with the DTF / District Control Room and then forwarded to the SOG for analysis and presentation.

#### **Monitor SM activities**

1. Social mobilization activities must always be monitored. Have a monitoring plan and key monitoring indicators.

## **Key points**

- second line supervisors from district and above should start supervising preparedness well before the campaign using the pre campaign checklist;
- unbiased and reliable observations by external monitors will help pinpoint problems prior to and during the campaign for any corrective actions;
- monitor communication and SM activities at every level;
- supervisors should do on-the-job training. They should be supportive and help solve problems that are identified, as a mid course correction;
- RCM is a useful tool to identify pockets of missed children/areas and take corrective actions on the ground based on the RCM findings to enhance campaign coverage;
- the last week will be planned for sweeping/repeat activity to cover left out/suboptimal coverage areas based on reported coverage and RCM monitoring, reviewed by DTFI and STFI;
- post-activity coverage evaluation surveys should be planned in advance.



## 4.8 Recording and Reporting

## Recording of incoming and outgoing vaccines and logistics

Each level must record the incoming vaccines, diluents and ancillary products in their designated registers and electronic data bases:

- Record quantities received / dispatched , date received / dispatched, batch numbers, expiry dates, VVM status when received / dispatched
- PHC / ILR points must record on a daily basis the quantities of vaccines and ancillary supplies that are dispatched to the vaccination teams and that come back at the end of the day
- Returned vaccine from the vaccination sites need to be labelled and dispatched first the next day. Such returned / dispatched vials need to be recorded again in the designated register book and electronic database.
- Recordings of received, dispatched and returned vaccines and other logistics need to be part of the daily / weekly / end reports to the next level.
- Temperature recordings twice a day at all times and at every level.

## Recording methods at vaccination team level

- The recorder in the vaccination team must record the MR dose given immediately after it is administered (in real time), and use the daily tally sheet form in annex (not before and not at the end of the day)
- Vaccination team leader must calculate the total MR vaccines given and write the totals on the same form in the right hand side column.
- Vaccination team leader must report at the bottom of the Tally Sheet, the received, used and returned vaccines and other supplies.

## Reporting forms to be used at every level

The reporting forms for every level need to be filled out by the MO responsible.

## **Sequence of reporting:**

- From vaccinators to team supervisors daily
- From team supervisor to PHC daily
- From PHC to block (BMO) daily
- From block to district (DIO) daily
- From district to state (SEPIO) daily
- From state to national level –daily (district wise) and consolidated final report at the end of the campaign.

During the MR campaign, coverage is to be reported manually. Following the campaign, under routine immunization, MR vaccine coverage is to be reported in HMIS under measles. Final signed consolidated report is to be submitted by the State / UT within 7 days of completion of MR campaign activity.



## Electronic data management inside the command post

It is advised that every level of operation establishes a control room in which administrative results are followed up, posted and supervisors' / monitors' reports are compiled, analyzed and followed up. Every control room should input the administrative coverage electronically and constantly check for errors, as most errors occur in reports between the different levels.

## Analysis of data to determine areas for total sweeping activities

Daily reported RCM results will help to validate administrative results or to identify need for followup actions and local sweeping activities.

At the end of the MR Campaign, a comprehensive and full analysis of administrative data needs to be done at every level to identify eventual areas for large-scale sweeping activities.

## Final report by the state

At the end of MR campaign activity, states / UTs will submit a signed copy of the final consolidated report to the National level.

## **Key points**

- recording incoming and outgoing vaccines and logistics is to be done at every level;
- recording of temperature needs to be done twice a day at all storage sites at every level;
- coverage reports of numbers must be checked for data errors;
- reports must be sent up from every level in a timely manner (daily) to the next level up.



## 4.9 Training and Orientation

All key players in the MR Campaign should be a part of the training sessions. These should include the CMO, DIO, all other MOs, key programme managers, supervisors, identified vaccinators, cold chain handlers, data handlers and other health staff directly or indirectly involved with the campaign.

## 4.9.1 Objectives

The overall objectives of the training are to ensure that:

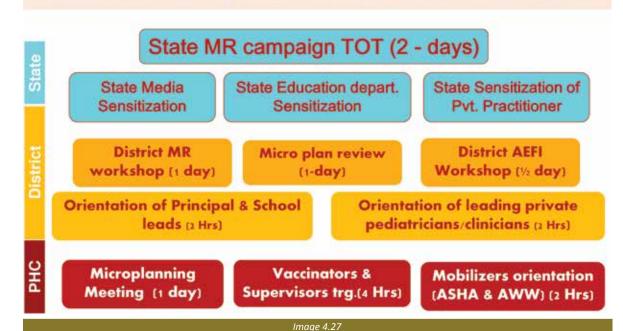
- all staff involved in the MR Campaign understand their role;
- micro-plans at the sub-centre level are completed;
- all vaccinators have appropriate knowledge and skills to conduct the MR Campaign in their respective catchment areas;
- the batch size for all training at any level should not be more than 30; for orientation at block level, it should not be more than 40.



## 4.9.2 The training cascade

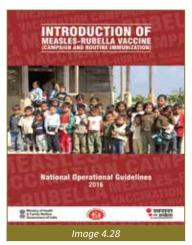
Planning for training for the MR Campaign should occur as a cascade as given below. A training plan / schedule / calendar should be developed well in advance by the states, districts and blocks based on the information and training load and availability of trainers.

# Types of Training for MR Vaccination Campaign





## National and state level training of trainers



In the first stage, master level ToT course for state health functionaries including deputy health directors, SIOs, other identified state-level master trainers at state training institutes and medical colleges will be conducted at the national level by the Central team. The duration of the course will be three days. The facilitators will be resource persons from Immunization Division, GoI and experts from partner organizations (WHO-India, UNICEF). This ToT will be completed at least 3 months prior to the MR Campaign in each phase.

In the second stage, ToT course will be conducted at state level for district level trainers. These would be identified by each district from among district-level health officers, MOs (MOs), health assistants and cold chain officers. The state level master trainers will facilitate this ToT. Duration will be two days. This training will be completed

at least 5-8 weeks prior to the campaign in each phase.

In the third stage, each district will conduct a district MR Campaign training-cum-planning workshop of trainers for all block-level trainers like MOs, cold chain handlers, data handlers and other block level functionaries. This will be a one day training and should be competed at least 5–8 weeks before the campaign in each phase.

## **Vaccinator and supervisor training**

All vaccinators (ANMs, HWs [M / F], nurses and others) of each vaccination team and supervisors (health assistant [HA], LHV, block extension educator [BEE], HS) will be trained in "Injection skill and micro-planning" by the BMO and team for 4 h at the block level. This training will be completed 2 weeks prior to the MR campaign. Training Handbook with FAQs for health link workers will be made available to each participant.

## Vaccinator / ASHA / AWW / volunteer orientation

All vaccinators, ASHAs, AWWs and volunteers will be trained in "IPC and Session Site Responsibilities" by the MO and team for half a day at the block level. This training will be completed at least 2 weeks prior to the MR campaign. Booklets on "Measles—Rubella"



**Teekakaran Abhiyaan"** containing the tasks of the vaccinators, ASHAs, AWWs and volunteers and "Frequently Asked Questions on measles—rubella" will be distributed during this training.

## 4.9.3 Responsibilities at each level

#### **National level**

- develop and finalize the training module, materials and plans;
- make necessary arrangements for printing of training material and ensure distribution to all field units;
- obtain approval for the training plan and budget, ensure disbursement of funds and provide the necessary logistics;



• provide master level training to state-level trainers and facilitate and supervise both state level and district level training.

#### State and district level

- form training teams and obtain necessary master level training from the Central / state teams;
- obtain necessary training material, guidelines and funds and distribute them to the district / block level;
- plan and organize district level training for block level MOs and teams; facilitate and supervise the training at blocks.

## Block / PHC level trainers (Block / PHC MOs and teams)

- plan the schedule for the micro planning training and invite all vaccinators and supervisors for the training. Advise the vaccinators to bring data for micro plans to be prepared;
- ensure adequate space for the participants so that they can sit in a "U" or semicircle and have good eye-to-eye contact during the training. The venue should be clean, airy and allow speakers to be heard by all participants;
- ensure that the number of participants for the training of vaccinators and supervisors do not exceed 30. For health-link workers / ASHAs / AWWs / volunteers orientation, the batch size should not exceed 40.

## 4.9.4 Contents of training

Ensure that the following topics are covered during the training sessions:

- objectives, rationale and strategy of the MR Campaign, with focus on the high-risk areas / populations;
- dates of campaign and target age group;
- micro planning, including preparation of sub-centre maps showing schools and outreach clinics;
- task allocation for each participant, detailing roles and responsibilities;
- social mobilization including importance of IPC and registration of all target children;
- organization and management of a vaccination / session site;
- cold chain and vaccine management including VVM, care of the vaccine and diluent during transportation and session period;
- reconstitution of MR vaccine, recording time of reconstitution and need to discard MR vaccine within 4 h after reconstitution;
- injection technique with hands-on skills training;
- safe disposal of vaccination site wastes including sharps;
- AEFI management including recording and reporting;
- use of tally form and reporting forms;
- supervision of campaign activities including rapid convenience monitoring;
- logistics arrangements for receiving vaccine and supplies for vaccination sites;
- financial arrangements.



## Essential training material at block level

- MR Campaign Handbook for Vaccinators and Supervisors;
- booklets on "Measles-Rubella Rakshak Abhiyaan" with FAQs;
- sub-centre micro-planning templates and sample sub-centre map;
- note pads for participants and the trainer (to be used for recording participant's responses, questions and own observation about the training session).

## **Monitoring of training**

- each training session held at block level must be reported to the district level in a training workshop reporting format (annex);
- at least 10% of all block level training should be monitored by district programme officers and their feedback must be documented at the district level by CMO / DIO (annex).

## 4.9.5 Training / capacity building for SBCC (IEC / IPC etc.) for MR campaign

Training in SBCC is an extremely important component of the MR Campaign operations. Almost every level of programme staff, ranging from programme managers to outreach workers need their capacity to be built on understanding and operationalizing communications at the large level of the MR Campaign.

Training objectives	Training indicators		
	Process indicators		
<b>Objective 1:</b> Develop capacity of programme managers for	Training manual developed		
conducting cascade-level training in SBCC planning and	2. Training calendar developed		
operationalization	3. Master trainers / district-based trainers list prepared		
Objective 2: Develop capacity	4. ToTs held		
of programme managers to lead planning of SBCC strategy for MR	5. Planning tools for state, district and block prepared		
Campaign	Output and outcome indicators		
Objective 3: Improve capacity and	Supervisory checklist prepared / revised		
motivation of frontline service providers (vaccination teams)	Evidence-based SBCC plans available at state, district and block level		
through IPC training	3. Increase in positive perceptions by caregivers about ANMs / ASHAs and AWWs:		
	a. ANMs / ASHAs and AWWs are knowledgeable about MR and RI		
	b. ANMs / ASHAs and AWWs answer any questions		
	c. ANMs / ASHAs and AWWs are friendly and		
	encouraging		
	d. ANMs / ASHAs and AWWs are trustworthy e. ANMs / ASHAs and AWWs encourage you to go the		
	health facility / fixed post for other vaccines		



Training activities	Resources / accountability / timeline	
Resources: State and district level trained trainers		
	Accountability: MOIC / BMO / DIO	
	Timeline:	
	Starts at least 6 weeks before start of MR Campaign	
	Ends at least 2 weeks before start of MR Campaign	

## **Ensure training in social mobilization**

- Organize training for HWs and social mobilization teams to identify and maximize the effects of the communication interventions
- Have a supportive supervision plan for social mobilization teams.

## **Key points**

- planning and training are combined in one workshop on all levels
- cascade strategy for planning training with training of trainers at each level;
- batch size should not exceed 30 for vaccinators training and 40 for orientation of vaccinator / ASHA / AWW / Volunteer;
- ANMs and supervisors will develop and review micro-plans during Block level training sessions;
- training sessions will be monitored for quality, contents and respect for proposed agenda and timelines;
- training sessions should be mostly practical, hands-on based and role plays with a minimum of presentations (standard health workers module must be used);
- separate hands-on training on injection skills can be conducted on RI session day for new and weak performing vaccinators including nursing student trainees.

## Table 4.8.1: Training workshop reporting format

Name of training site	
Dates of training workshop	
Number of participants expected	
Number of participants attended	
List of participants with designation, address and place of work (attach registration copy)	



Attach a copy of training programme (agenda) including:		
Name of sessions		
Time allotted		
Name of resource person		
Methodology		
Mention the training materials used		
List training and other materials given to all participants in local language	MR training and book Handouts from training materi- als FAQs Others	
Remarks on the workshop indicating good experiences and problems / constraints faced		
Remarks by facilitators / training organizers regarding:  - Trainings materials  - Release of funds  - Facilities available at the training venue		

## Table 4.8.2: Checklist for monitoring the quality of training

Date of visit	
Place of visit (location of training venue)	
Names and designation of persons who conducted the monitoring visit	
Number of participants nominated / expected	
Number of participants attended	
Who were the trainees? Vaccinators / supervisors / MOs / volunteers / others	Vaccinators (HWs)
Attach a copy of training programme / agenda	
Training and other materials given to all participants in local language	<ul> <li>MR training</li> <li>handbook</li> <li>Handouts from training materials</li> <li>FAQs</li> <li>Others</li> </ul>
Feedback received from trainees and action taken?	Yes / no
Sessions assessment Whether session objectives were fulfilled Appropriate use of audio-visual (AV) aids Methodology – one way, interactive, role play, questions and answers	



## 4.10 Tasks List for Functionaries at Different Levels

A MR Campaign is a one-time opportunity and must be of high quality to attain more than 95% coverage. This will only be possible if:

- realistic and detailed micro-plans are drawn up well in time;
- micro-plans are reviewed and refined in the run-up to the activity;
- supportive supervision at district and block levels is conducted from the time of planning itself till the end of activity;
- all health functionaries including doctors, ASHAs / AWWs and volunteers are trained well before the activity;
- proactive engagement with local government, social and religious leaders, NGOs and other partners, media and targeted SBCC strategies with community are implemented prior to the campaign;
- during implementation, appropriate corrective actions are taken based on feedback from monitoring reports.

This chapter outlines the tasks that programme managers and implementers at district and subdistrict levels will perform before, during and after the MR Campaign.

#### 4.10.1 District level

The chief MO has overall accountability for the programme and the DIO will be the programme officer at the district level.

## Pre-campaign tasks

- through the mechanism of the DTFI, coordinate with district authorities and other departments, minute action points and circulate for implementation;
- at least 2 months before starting the campaign, CMO should assign block / municipal level responsibilities to deputy CMOs. Deputy CMOs should make regular visits to the blocks / municipalities, review their preparedness and solve problems faced by BMO;
- at least 1 month before starting the MR campaign, prepare and communicate district plan and logistics orders to the state;
- conduct ToT 4–8 weeks before start of activity;
- finalize block-level micro-plans at least 4 weeks before start of activity.

#### In the week before the activity

- review DTF is arranged;
- block-level trainings are held;
- logistics (vaccines, diluents, AD and mixing syringes) have reached the district;
- other materials SBCC materials, recording formats, etc. have reached or have been procured by the district;



- first consignment of bundled vaccines (vaccines, diluents, syringes) is sent to the blocks as per cold chain plan. Such consignments may have to be sent 2–3 times during the activity depending on cold chain storage and freezing capacities and the electricity situation at the block level;
- SBCC plans have been executed per schedule;
- waste disposal mechanisms at PHC level and other cold chain points are in place;
- AEFI response and management plan is in place;
- prepare for changing over from measles to MR vaccine in RI;
- assure supervisors and monitors are monitoring for correct implementation of measles to MR vaccine transition plan.

## **During campaign tasks**

Activate district control room to:

- monitor logistic utilization and address shortages, if any;
- monitor daily coverage reports and take action in problem areas;
- respond to any AEFI reports promptly and proactively;
- review school based campaign and decide on contingency plans.

District level officers (like Deputy CMOs, District Programme Managers [DPMs], District Public Health Nurse (DPHNs), Health Information Officers) are assigned with block supervisory responsibilities to check block, PHC and sub-centre level implementation through field visits. During such field visits, they will assess the following and solve identified problems:

- coverage using standard data collection tool to identify missed children / areas for corrective action;
- adherence to all injection safety norms by vaccinators;
- effectiveness of SBCC strategies;
- cold chain status including ice pack freezing;
- adherence to safe disposal norms for injection waste materials;
- changing over from measles to MR vaccine and ensure no more measles vaccine is present in the cold chain;
- ensure supervisors and monitors are monitoring correct implementation of measles to MR vaccine transition plan.

## Post campaign tasks

- immediately after the round, make special plans to cover missed children in areas with low coverage (>20% missed children);
- finalize reports to be sent to State level;
- take final stock of all vaccines and other logistics at district, block and sub-block storage sites;
- utilize MR Campaign session site micro-plans to improve RI session micro-plans for district / block level / PHC.



The MOI/C of the PHC will have overall accountability of the PHC area. For municipal areas, CMO in consultation with District Magistrate and municipal authorities will designate an accountable person.

## 4.10.2 Block level

## **Pre-campaign tasks**

- BMO should build a team of MOs, block programme managers and other senior public heath staff in the block to help him supervise and implement the activity;
- BMO should ensure that the block micro-plan complete in all respects (including identification of
  persons by names at session sites, cold chain plan and logistic movement plan) is ready at least
  4 weeks before start of activity;
- review functioning of cold chain equipment available in the block (block level, PHC, additional PHC) and solve problems in consultation with the District.

## **Training**

- draw up session-wise training plans for all persons involved in the activity;
- ensure that training sessions are held with full participation, including training;
- of absentees in later sessions. Training should be completed as per training schedule days before start of activity;
- ensure that doctors designated in the AEFI component of micro-plan are trained in post MR vaccination AEFI management.

## Logistic movement plan

- make a detailed logistic movement plan including plan for hiring of vehicles;
- if needed; Make spot visits to some special areas or areas with high-risk population, especially the hard-to-reach areas, to asses feasibility of logistic movement plan to these areas.

#### SBCC:

- meet with local leaders, religious leaders and opinion leaders in the community and schoolteachers to solicit their support;
- ensure that SBCC materials are displayed as per plan;
- ensure that ASHAs / AWWs carry out local level IPC in the 3 days before the activity begins in the Block:
- AEFI management sites (public and private sectors): Identify, review and train the AEFI management sites.

#### In the week before the activity

- review the status of training;
- all cold chain equipment is ready to receive vaccine and diluents and adequate contingency plans have been made for power failures;
- receive and store logistics (vaccines, diluents, AD and mixing syringes) from district. Redistribute to PHC level as per block cold chain plan;



- receive and distribute other materials SBCC materials, recording formats;
- review that SBCC plans have been executed as per schedule, including local level IPC by ASHA;
- review logistic movement plan.to assess the vaccine distribution schedules and schedules for collecting unused vaccines and injection waste materials;
- review that all waste disposal facilities and mechanisms are in place at Block and PHC levels as per CPCB guidelines.

**IMPORTANT!!** Issue the vaccine only on the day of activity. Do not allow vaccine to be issued on day before the activity under any circumstances.

## **During campaign tasks**

- check that logistics and personnel are in place in the field as per plan;
- check if AEFI management centres are ready with all equipment and medicines;
- by mid-morning check for:
  - any reports of vaccine shortages;
  - any problems reported from any area, such as AEFI;
- monitor logistic utilization and address shortages, if any;
- review school-based campaign (end of second week) and decide on contingency plans in consultation with district;
- make contingency plans for immunizing missed children;
- BMO, PHC M.O and the bloc-level team should make spot visits to some areas. During field visits, they will assess the following and solve identified problems:
  - visit some immunization sessions in progress;
  - assess adherence to all injection safety norms by vaccinators;

Implementation and effectiveness of SBCC strategies;

- verify functionality of cold chain at session sites;
- adherence to safe disposal norms for injection waste materials;
- assess coverage using standard data collection tool and initiate appropriate actions.
- send daily coverage reports to the district;
- conduct daily evening review meetings with supervisors, monitor daily coverage reports and take action in problem areas.

#### Post campaign tasks

• immediately after the MR vaccination round, review the data and make special plans to cover missed children in areas with low coverage (> 20% missed children);



- finalize reports to be sent to district level;
- take final stock of all vaccines and other logistics at block and sub-block storage sites;
- utilize MR Campaign session site micro-plans to improve RI session micro-plans for the block.

## 4.10.3 Tasks of first-line supervisor

First-line supervisors will be accountable for all aspects of the campaign in areas allocated to them. One supervisor will supervise three teams.

Supervisors should be selected from existing health supervisors, block level ICDS and other key block level government functionaries. They should be familiar with the area allocated to them. All supervisors must receive training prior to the activity in the technical as well as operational aspects of the programme. Supervisors should be well motivated, physically fit and supportive of the vaccination teams in the field. Each supervisor should be independently mobile.

## **Pre-campaign tasks**

- Get familiar with the area allocated;
- Assist the BMO / PHCMO in formulating accurate micro plans. This includes:
  - collating all data (villages by population, schools, etc.) for area of responsibility;
  - selecting appropriate session site locations;
  - selecting vaccinators, ASHAs, AWWs and volunteers;
  - rational distribution of teams and session sites according to target population in villages / urban areas;
  - developing maps showing vaccination sites located at schools and outreach sites and for hard-to-reach populations;
  - team supervisors are preferably from the same area where they will be supervising thus they
    will be well aware of the schools and communities in the area that will help in identification
    of missed schools / communities;
- check that logistic distribution plan is realistic and all vaccination teams understand pick-up and drop points for vaccines and logistics;
- ensure that ANMs, ASHAs, AWWs and volunteers attend the training on schedule;
- all team members should know the nearest AEFI management points and their contact details;
- make random visits to the field to ensure that ASHA has completed house-listing of target beneficiaries and has distributed the session site invitation slips / cards. At the same time, assess the preparations for the campaign using the pre-campaign supervisory checklist.

## **During campaign tasks**

Supervisors should use the supervisory checklist to assess the quality of activity at the session sites and coverage in areas where immunization activity has been completed.

Supervisors should be independently mobile and must carry logistic support with them to replenish vaccine, diluents and injection equipment quickly if teams run out of them.



- Supervisors should visit each session site at least twice and check:
  - last minute absenteeism of vaccinators, shortage of vaccines / logistics and solve such issues;
  - vaccinator is adhering to safe injection practices (cold chain, aseptic precautions, safe disposal);
  - record of vaccination is being maintained properly;
  - parents are being provided with record of vaccination (vaccination cards) with clear instructions to retain the same;
  - parents of under-5 children are reminded of other RI doses with instructions to bring the child in the next immunization session in the village;
  - proper information about AEFI is being provided to the parents.
- supervisors will also check for the following:
  - school session site: eligible children from all classes in the school and from the village where the school is situated are being immunized;
  - outreach session sites: local ASHA / AWW are assisting the team by mobilizing children to the session sites;
  - mobile teams for hard to reach / high risk populations: Proactively support the teams working in such areas.
- supervisors will visit all the areas where teams have completed their work the previous day and
  assess the coverage with the help of the supervisors' check list. Based on their findings, the
  BMOH / PHCMO will decide on the appropriate corrective response;
- at the end of the day's activity, supervisors will:
  - collect, compile and analyse data from vaccination teams;
  - attend the evening meeting at block and give feedback to MO.

## Post campaign tasks

- organize repeat immunization activities in areas with low coverage identified through RCA monitoring and as decided at district / block level;
- if there are only a few missed children, ensure that all of them are immunized in the next nearby campaign site or a fixed facility or in the subsequent RI session in the village for campaign dose for missed children.

## 4.10.4 Tasks of implementers at session sites (vaccinators, ASHAs / AWWs, volunteers)

Proper implementation of activities at the vaccination session sites is the key to success. At the session site, a vaccinator team will usually comprise 3 members. Each member has a specific role in MR Campaign as below.

#### Tasks for the vaccinator

## **Pre-campaign tasks**

 provide accurate information regarding her sub-centre area including new settlements (permanent or temporary) and hamlets that have come up after the last review of the RI microplan. She should also provide information about schools in the private and public sectors in her area;



- assist the block level person to prepare micro-plan for her sub-centre area including plans for vaccine delivery and logistics;
- participate in training and coordinate with all ASHAs, AWWs and volunteers in her area to attend the appropriate training sessions;
- liaise with community leaders in the catchment area and ensure that ASHA / AWW distributes invitation cards to all target beneficiaries;
- coordinate with local ANM regarding location of MR vaccination session sites, ASHA, AWW and local leaders;
- check that appropriate plans have been made for delivery and pick-up of vaccines and other logistics during campaign days;
- to ensure safety and accountability, when two vaccinators are working they will work in parallel, that is, each will administer the vaccine independently.

## **During campaign tasks**

- organize MR vaccination session site with help from ASHA / AWWs and volunteers. Ensure that all SBCC material is displayed at the session site properly;
- check that all logistics (vaccines, diluents, tally sheets, immunization cards, marker pens, cotton wool) have been received in appropriate quantities and quality;
- check that MR vaccine and diluents are from same manufacturer and within expiry date;
- administer vaccine following all safety norms. Dose is 0.5 ml and should be administered subcutaneously in the right upper arm. The site is important for survey purposes;
- record campaign dose in tally sheet. Check that tally forms are correctly completed and summarized at the end of each day;
- ensure that every immunized child gets a MR Campaign card;
- supervise and guide ASHA, AWWs and volunteers in her team;
- ask each beneficiary to wait for at least 30 mins after vaccination;
- respond promptly to AEFIs;
- wait for 1 h after vaccinating the last child at the site to respond to AEFIs, if any;
- dispose of all immunization waste material following proper guidelines.

## Post campaign tasks

In the subsequent RI sessions after the campaign activity in the area, when ANM goes to the village where she usually works, she should ask ASHA to mobilize those children (9 months to less than 15 years) who were missed in the MR Campaign to provide their missed MR campaign dose.



## Tasks of ASHA / AWW

## **Pre-campaign tasks**

- participate in training arranged at PHC or block level;
- arrange for proper site and facilities for a session site if it is located at a site where no RI sessions are held;
- IPC to all families through invitation card to target age group children at least 3 days before the activity in the block;
- mobilize the community—get the PRI representative to convene a meeting of the VHSC at least 1 week before the activity in the village.

## **During campaign tasks (at session site)**

- assist ANM to set up and manage the session site;
- arrange local village leader to inaugurate the session site;
- mobilize children to the session site. If turnout is low by mid-morning, she should visit households with children in the target age group and persuade them to get their children immunized;
- assist ANM in running the session site welcome families to the session site, assist mothers to hold their children properly and generally assist in crowd control;
- assist in left thumb marking and tally sheet marking in coordination with ANM;
- remind parents of eligible children to complete routine immunization;
- advise where to report in case of an AEFI and report to ANM if she is aware of any AEFI;
- at the end of the day, she should identify children in her area who have not been immunized.

## Post campaign tasks

• in the next RI session day in her village, arrange with her local ANM to immunize children with campaign dose who have been missed during the MR campaign.

## Tasks of the volunteer

#### Pre campaign tasks

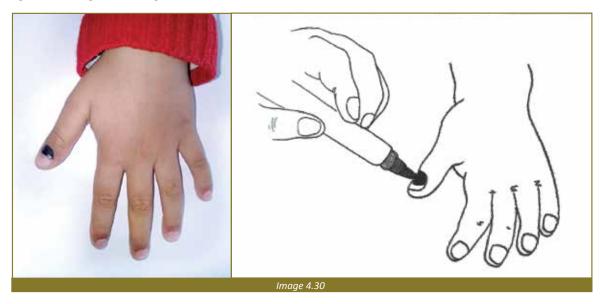
• participate actively in training activities before the campaign.

## **During campaign tasks**

- assist in crowd control;
- fingermark each vaccinated child (left hand, cuticle of the thumb nail bed);
- carry out tally sheet marking for vaccinated children under ANM's guidance;
- give the campaign card to the child / parents accompanying the younger ones.



Fig. 4.9.1: Finger marking with indelible ink ((left hand, cuticle of the thumb)



## Logistics to be supplied to each team

- each day, every vaccination team will receive the following items according to distribution plan:
- adequate amount of MR vaccines and diluents (from same manufacturer) according to the target population for that day;
- vaccines and diluents must be packed in separate zip-lock plastic bags inside the vaccine carrier with 4 conditioned ice packs;
- adequate number of 0.5 ml AD syringes;
- adequate number of 5 ml reconstitution syringes to match the vaccine vials supplied;
- one hub-cutter;
- one or 2 red bags for bio-hazardous waste materials;
- one or 2 black plastic bags for other waste;
- one cotton wool pack (25 gm);
- tally sheets;
- one hundred fifty vaccination cards for each vaccinator;
- one marker pen will be supplied to each vaccinator for 2 days (250–300 children);
- SBCC materials for displaying session site location;
- AEFI case reporting form (CRF).



## **Key points**

- every level campaign manager/worker/vaccinator needs to fully understand his / her role and responsibility through advanced orientation/training with emphasis on simulation/ role play;
- respect towards working hours and taking responsibility for the task assigned will contribute to higher quality of the services provided and higher administrative coverage;
- each HW from national level down to the volunteer in the vaccination team has an important role in the MR Campaign. Taking away one function in the chain of work during planning, preparation and implementation can compromise the success of the MR Campaign;
- the ultimate goal of the MR immunization campaign is to safely and effectively vaccinate each and every child of the target group. It is therefore everyone's responsibility to correctly handle and manage MR vaccines until final administration.







# FREQUENTLY ASKED QUESTIONS ON THE MR VACCINATION CAMPAIGN

## 5.1 Frequently asked questions for HWs

Frequently asked questions (FAQs) are critical for training and communication needs for the planned MR Campaign. A set of such selected questions along with their rational answers are provided below for reference and use by HWs while communicating with the caregivers and community.

## What are measles / rubella diseases?

Measles is a highly infectious disease causing illness and death due to complications in the form of diarrhoea, pneumonia or brain infection mostly among the children less than 5 years of age. Rubella is a mild yet highly contagious disease that can cause crippling birth defects or the death of the unborn child of an infected pregnant woman.

## What is congenital rubella syndrome?

CRS is a set of serious congenital defects a child may be born with when a pregnant women gets rubella infection in her early pregnancy (usually in the first trimester), causing blindness, deafness, heart defects, mental retardation, liver disorders and other hematological disorders incompatible with normal healthy living.

## Why is this measles-rubella vaccine given?

This MR vaccine is given for preventing both measles and rubella disease in the child, as these diseases can be only prevented by vaccination.

## Does this vaccine give lifelong protection?

Yes, MR vaccine gives lifelong protection but vaccine efficacy of MR vaccine is 85% when given below 12 months of age in a child and > 95% efficacy when given above 12 months of age. Rubella vaccine efficacy is more than 95% if administered to a child below 12 months and > 99% if given above 12 months of age.

## Does a combined vaccine of measles and rubella lead to any loss of efficacy of either vaccine?

No, combined vaccine of measles and rubella does not affect the efficacy of either of measles or rubella vaccine and the efficacy of both vaccines remains the same as when administered in a monovalent form..



# Does a child need to be vaccinated if she or he has a history of any fever, rash or illness including measles or rubella?

Yes, every child must be vaccinated with two doses with measles and rubella vaccine at the recommended ages as per the national immunization schedule, irrespective of any past fever, rash, illness or history of measles / rubella vaccination or measles / rubella disease.

# Will the child be vaccinated with the campaign dose if he or she has already received the routine doses of the vaccine?

Yes. As recommended in the current MR Campaign guideline, every child needs to be vaccinated with the campaign dose as an additional supplementary dose, irrespective of previous vaccination history (whether through campaigns or routine services), if the child belongs to the target age group at the time of ongoing campaign.

# If a child has received MR vaccine before 9 months of age, is it necessary to repeat the vaccine later?

Yes. According to the National Immunization Schedule, the MR vaccine needs to be administered after the completion of 9 months until 12 months of age as first dose and at 16–24 months as second dose in RI.

## Up to what age a child can be vaccinated with MR vaccine?

Under the UIP, if the child has not been administered two doses in the recommended ideal age as laid down in the National Immunization Schedule for MR vaccine, it can be administered until 5 years of age in the RI schedule and up to 15 years of age during an MR campaign.

## What is a MR campaign?

This MR campaign is a special campaign to introduce the MR vaccine and to vaccinate all children in a wide age group in a state with one dose of MR vaccine. The MR campaign dose is given to all children, both immunized and unimmunized, who belong to the target age group. The goal of a MR campaign is to accelerate population immunity for both measles and rubella that will reduce deaths from measles and disabilities from CRS. A MR campaign must immunize above 95% of the target age group children (9 months <15 years) in order to help achieve the required population immunity.

## What are MR follow-up campaigns?

These are additional MR campaigns following the initial MR catch-campaign required at periodic intervals to boost and sustain the herd immunity among the country's population depending on the susceptible cohort accumulated over the years. In any follow-up campaign, the targeted children's age group is the cohort born after the completion of last campaign. The intervals between these follow-up campaigns are decided at the country level and are based on the immunization coverage attained in both the MR Campaign and RI, including country epidemiology.

## If a child comes after 2 years for the first dose, can he / she get the second dose?

All efforts should be made to immunize all children at the right age, i.e. first dose at completed 9–12 months and second dose at 16–24 months. However, if a child comes late (beyond 2 years), then two doses of the vaccine can be given at one month's interval until 5 years of age under the UIP.



# If a child received one dose of MR vaccine during the MR Campaign, should he / she receive the routine dose of measles vaccine?

Yes, the child should receive routine doses of MR vaccine according to the National Immunization Schedule, irrespective of any MR campaign dose in the past.

# What should be the minimum time interval between a routine vaccination and campaign vaccination?

If the campaign dose is due as per the guideline, it will be given irrespective of any gap between the last RI received by the child, as this is a one-time activity and there is no harm done to the child with an extra dose.

However, following a campaign vaccination, for the next due RI dose there should be a minimum gap of 4 weeks as a standard recommendation between two doses of live injectable vaccines.

# Why is the amount of diluents provided by manufacturers more than the amount of vaccine doses to be administered?

The manufacturer provides more quantity of diluents than required, e.g. for 10 doses MR the diluent is more than 5 ml. The reason for this is to take care of the unavoidable vaccine wastage that occurs due to:

- some dead space in the hub and needle;
- sticking of the vaccine to the inner wall of the vaccine vial;
- inefficiency of the HWs in drawing the entire amount of vaccine from the vial.

Therefore, it is important to teach all HWs to draw the entire amount of diluent from the ampoule and use it to reconstitute the vaccine vial as a standard practice.

## Why is the MR vaccine given in the right arm?

MR vaccine is given always on the right upper arm as a standardization and uniform practice across the country. This will also help caregivers / mothers recall while doing a coverage evaluation survey in the population.

#### Can MR and JE vaccine be given together?

Yes, In JE endemic districts, both MR and JE vaccine should be given together at the same time but on different arms. When for any reason we are not able to give both the vaccines on the same time / day, then a minimum gap of 4 weeks has to be maintained as a standard practice between any two live vaccines.

## Can any other vaccine be given along with MR vaccine on the same arm at the same time?

Yes. Preferably, to keep it easy and simple for the vaccinators, we should avoid giving two vaccines at the same arm / site at the same time, but when you need to give multiple vaccines / injections at same time, the practice of giving 2 injectable vaccines on the same arm but a minimum of 2.5 cm apart is safe and acceptable.



## 5.2 FAQs for caregivers on MR vaccination campaign

## What vaccine will my child get during the MR campaign?

Every eligible child will get a combined MR vaccine during the wide age range MR campaign.

## Why does my child need to have this MR Campaign vaccination?

To stop transmission of measles and rubella in the country and achieve the goal of measles elimination and rubella control, each and every child needs to be vaccinated with campaign doses, in addition to the routine two-dose schedule.

## Where will I get my child vaccinated during the campaign?

All eligible children will be vaccinated in the schools / outreach sites in the village / wards like health sub-centres, anganwadi centres and other fixed health sites like PHCs / CHCs / other government hospitals.

# Does my child need MR vaccination campaign dose even if she / he has had all her / his routine vaccinations?

Yes, the campaign dose will be administered to all the children falling between the age group of 9 months to <15 years of age, irrespective of any past history of disease or vaccination.

## How will I know the date and place of vaccination?

The local HWs (ANMs / lady health visitors [LHVs]) and community link workers like ASHAs and AWWs will communicate to all families / mothers / caregivers regarding date and place of vaccination and also give out invitation cards that will have the date and place of campaign vaccination site mentioned.

## What are the benefits of this MR vaccination of my child?

Every vaccinated child will be protected from measles and rubella disease and its complications.

## Are there any side effects of MR vaccination on my child?

This MR vaccine is safe and administered worldwide in all countries under RI programme as well as through MR campaigns. Millions of children have been vaccinated with this vaccine safely all around the world and the vaccine is safe for children.

## 5.3 FAQs for HWs on MR vaccination in routine immunization

When will MR vaccine be available for administration under the RI programme?

MR vaccine will be available for administration under the RI programme from the day the MR Campaign is launched in the state.

## Which child is eligible for MR vaccine under the RI programme?

Every child who is eligible for either first dose or second dose of measles vaccine in his / her RI schedule will be provided with combined MR vaccine in place of measles only vaccine.

# What should be the time gap for a child between Measles / MR / MMR vaccine given under RI and MR vaccine given through the campaign?

If the child had his / her RI dose first followed by campaign dose, then time interval between both doses is irrelevant, as the child will be given a campaign dose irrespective of any past RI dose; but if the child comes for his / her scheduled RI dose after receiving the campaign dose, then



ask the mother / caregiver to come a month later, to maintain an interval of 4 weeks gap between two shots of the same live attenuated vaccine. This variation in practice is allowed because campaign dose is a one-time activity and cannot be deferred, whereas RI is an ongoing activity where a child can get window of opportunity again.

### 5.4 FAQs for caregivers on MR vaccination in routine immunization

Can my child receive routine MR vaccine during the MR Campaign along with other due vaccinations? No, a child visiting any RI session site on RI days during campaign period will be given all other due antigens except Measles / MR vaccine. However the child should be given the due MR vaccine in RI as per his / her routine schedule only after the campaign.

## If my child has received her / his routine MCV recently, will she / he get the MR vaccination in the campaign?

Yes campaign vaccination will be an additional vaccine dose provided to each and every targeteligible child (from 9months to <15 years), irrespective of his / her previous vaccination status.

#### FAQs on multiple injections during RI sessions

#### Why does my child need multiple injections at one visit?

Giving a child several vaccinations during the same visit allows your child to be immunized as soon as possible. This provides protection during the vulnerable early months of your child's life. In addition, giving multiple vaccinations at one time means fewer vaccination visits.

#### Is it safe to give multiple injections at one visit?

Yes, it is safe for your child to receive multiple injections at one time. Many countries have immunization schedules where children receive multiple vaccine injections at one visit.

#### Is there any evidence that multiple injections of vaccines may increase the risk of adverse events?

No. Numerous studies have shown that giving multiple vaccinations during the same visit does not result in higher incidence of adverse events.

#### Are multiple injections painful for the child?

While receiving multiple injections at once is painful, having to return for additional vaccines forces the child to experience pain on more visits. It is better for the child to experience one, brief moment of discomfort than pain on separate days.

#### Would it be safer to separate vaccine injections and spread them out?

No, it is safer for your child to receive all of his vaccinations at once. Spreading out vaccinations leaves babies unprotected for a longer time and the child may have to wait for a 4-week gap between two live vaccines.

## If my child receives multiple injections on the same visit, will the vaccines be as effective if given alone?

Yes. MR does not interfere with other vaccines and MR is equally effective when given alone or with other vaccines.

#### Can multiple vaccines given at once "overwhelm" a child's immune system?

No. Children are exposed to numerous bacteria and viruses on a daily basis through eating and playing. Vaccines do not add a significant burden to the immune system.



### 5.5 How to reduce student anxiety at immunization time

#### Helpful hints for vaccinators and school staff

Mass immunization or school immunization of children is the best way to protect against illness and prevent spread of certain VPDs. Most children handle immunization with little difficulty. However, some children find the prospect of immunization anxiety producing. Vaccinators and school staff have asign if icantrolein making school immunizations a positive experience. With your assistance, we can help reduce children's fear and anxiety, encourage their cooperation and help them understand the value of immunization.

#### 5.5.1 Before immunization

- maintain calm. Use a matter of fact approach. This will help normalize immunization asast and ard school-based programme offered to students;
- promote learning about diseases and immunization with class room discussions;
- remind students about the positive benefits of receiving protection through immunization, preventing the spread of communicable diseases and their responsibility to protect themselves;
- reassure students that this vaccine usually has no side effects (they may experience minor discomfort like fever and redness, warmth, or slight swelling at the immunization site);
- **reduce anxiety**. Some ways of dealing with anxiety include—concentrating on relaxing, using distractions, deep breathing, counting and visualizing something pleasant;
- be honest. Don't tell students it won't hurt at all;
- **don't tease or exaggerate**. Encourage (other) school staff and students not to tease or frighten others. Ask students to comfort and reassure each other;
- use alternate words like "fluid" or "immunization" instead of "blood" and "needle";
- encourage students not to skip meals on the day of immunization;
- parents may accompany their children if necessary.

#### 5.5.2 After immunization

- resume regular school work as soon as possible;
- **beware** of the expected reaction sand how to deal with them;
- **notify the school nurse** if students become unusually pale so that an appropriate assessment can be done. Have the student lie down with her / his feet up or sit with their head between their knees. Offering a drink of water, or suggesting that the student have a snack or juice if they have one available can be helpful;
- **encourage students to remain in a group**, or at least in pairs, for the first 15 minutes after being immunized so students are not left alone.

**Call the vaccinator supervisor, remain calm**, and maintain classroom order if a student experiences usual symptoms or faints.





# INTRODUCTION OF MR VACCINE IN ROUTINE IMMUNIZATION

### Introduction and implementation considerations

MR vaccine will be introduced in the national immunization schedule immediately after the campaign is launched in the respective states through a well-coordinated manner to replace both doses of measles vaccine currently administered to every child at 9–12 months and again at 16–24 months with MR vaccine.

#### 6.1 Revised National Immunization Schedule

Under UIP, MR vaccine will be administered as a 0.5ml dose through the subcutaneous route. All children in the 9 months to <15 year age-group will be vaccinated with one dose of MR vaccine in a nationwide MR campaign. MR vaccine will be introduced in RI immediately after launching this wide age range campaign in the states.

In RI, the first dose of MR vaccine will be administered along with the first dose of Vitamin A and first dose of JE vaccine (in JE endemic areas only). The second dose of MR vaccine will be administered along with first booster dose of DPT and OPV, second dose of Vitamin A and second dose of JE vaccine (in JE endemic districts only).

Table 6.1. Comparison of current and post MR introduction RI schedule in India for infants and children

Age	Vaccination schedule before MR introduction	Vaccination schedule after MR introduction
At birth	BCG, bOPV-zero dose, Hep B-birth dose	BCG, bOPV-zero dose, Hep B-birth dose
6 weeks	bOPV-1, Pentavalent-1, Rota-1 (if applicable), fIPV-1 (as applicable)	bOPV-1, Pentavalent-1, Rota-1 (if applicable), fIPV-1 (as applicable)
10 weeks	bOPV-2, Pentavalent-2, Rota-2 (if applicable)	bOPV-2, Pentavalent-2, Rota-2 (if applicable)
14 weeks	bOPV-3, Pentavalent-3, Rota-3 (as applicable)	bOPV-3, Pentavalent-3, Rota-3 (if applicable), IPV / fIPV-2 (as applicable)
9 months	Measles-1, Vit A*, JE-1 (where applicable)	MR-1, Vit A*, JE-1 (where applicable)



Age	Vaccination schedule before MR introduction	Vaccination schedule after MR introduction
16-24 months	DPT first booster dose, bOPV-booster dose, Measles-2, JE-2 (where applicable)	DPT first booster dose, bOPV-booster dose, MR-2, JE-2 (where applicable)
5-6 years	DPT second booster dose	DPT second booster dose
10 years	тт	тт
16 years	тт	тт

### 6.2 Injection safety and waste management

Injection safety protocols are incorporated into existing RI guidelines. All health staff dealing with injections including RI injectable vaccines are regularly trained on these protocols. Information from monitoring of session sites is shared with districts and states for appropriate response. During training for MR vaccine introduction, injection safety and its benefits for the HW, beneficiary and community will be reemphasized.

Waste sharps generated from immunization with MR vaccine will be handled as per guidelines prescribed by the Biomedical Waste Management and Handling Rules already in place for RI.

#### 6.3 National coordination mechanism to ensure successful introduction

MoHFW will coordinate the introduction of MR vaccine across the country. The Immunization Division of MoHFW will oversee the process and regularly apprise the Ministry of the state-wise progress. An Indian Expert Advisory Group on Measles and Rubella (IEAG-MR) was formulated by Government of India (GoI) on 01 December 2014 to provide technical oversight to attain the overall objective of measles elimination and rubella control with MR vaccine introduction as one of the critical activities.

The Immunization Division will have the responsibility of deciding the activities and timelines required to ensure implementation of the MR vaccination campaign followed by MR vaccine replacing two doses of measles vaccine in the current UIP schedule. It will issue relevant guidelines and SOPs and conduct sensitization and training meetings / workshops towards this objective.

MR Campaign implementation committees will be formulated at national, state, district and subdistrict levels for reviewing all aspects of the Campaign and coordinate the changing over from measles to MR vaccine in the RI programme immediately after campaign. At the national level a COG will be constituted for providing day-to-day oversight. Similar bodies will be formulated at state and district level for effective planning and close coordination and monitoring of MR Campaign implementation including the changing over from measles to MR vaccine in routine immunization after the campaign.

## 6.4 Affordability and financial sustainability

The GoI has in its comprehensive Multi-year Plan 2013–17 (cMYP) includes the introduction of MR vaccine into RI with government financing as part of its strategic objectives on new vaccine introduction.

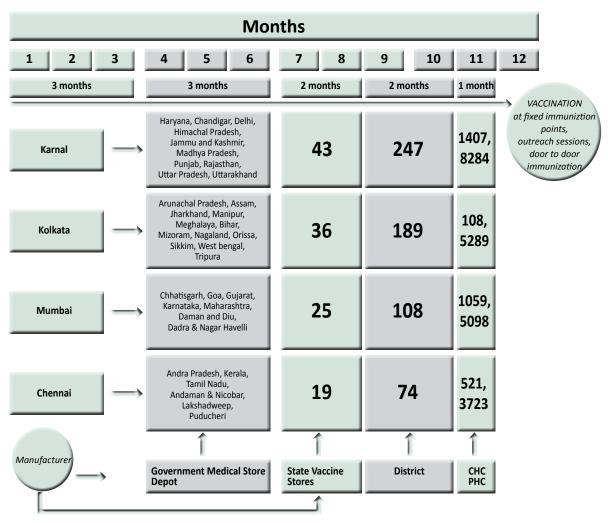
## 6.5 Overview of cold chain capacity at district, regional and central levels

The cold chain infrastructure is a wide network of cold-chain stores consisting of government medical supply depots (GMSDs), State, regional / divisional vaccine stores and district and PHC /



CHC vaccine storage points. Cold chain network in the country has been the backbone to ensure that right quantity and right quality of vaccine reaches the right place at the right time, and ultimately the target population.

Fig. 6.1: Vaccine storage network and storage timelines in India



Source: National Cold Chain Assessment 2008

India has completed a national effective vaccine management (EVM) assessment and has also developed an online system for assessing cold chain equipment functionality and space availability. Since MR vaccine (10 dose vial) will replace the current measles vaccine (5 dose vial) under RI, no additional cold chain space will be required for introducing MR vaccine. India has also conducted measles catchup campaigns between 2010 and 2013 in 14 states of the country and faced no challenges with cold chain space availability. Further strengthening of the existing network has been envisaged in the cMYP 2013–17, which will further enhance cold chain capacity and quality in the country.

## 6.6 Training activities

#### **National training of trainers**

Training activities for the MR Campaign will incorporate MR vaccine introduction in RI. This training will commence at the national level with a 2-day orientation ToT for state-level officers. These



trainers will also get to know about the changing over from measles vaccine to MR vaccine, where the state has to plan gradual depletion of measles vaccine before the campaign launch date and ensure that all cold chain points at every level in the state are informed and are implementing the transition plan.

#### **State level training of trainers**

Training activities for the MR campaign will incorporate MR vaccine introduction in routine immunization. This will be a two-day orientation TOT (training of trainers) for state and district level officers. These trainers will be oriented on changing over from measles vaccine to measles-rubella vaccine. The state has to plan gradual depletion of measles vaccine before the campaign launch date and to ensure that all cold-chain points at every level across the state are informed and implementing the transition plan. Subsequently, these officers will conduct trainings in their respective districts.

#### **District level workshop**

District level officers will conduct a district level training for block MOs of their district as district planning workshops and urban planning meetings. These MOs will, in turn, be responsible for training HWs, including ANMs, supervisors and cold chain handlers for the MR Campaign that will include MR vaccine introduction in to the RI programme in their respective areas. Cascaded training for all levels will be conducted as part of the MR Campaign activity that will act as a launching platform for MR vaccine introduction in RI along with the campaign launch, thus ensuring that subsequently all session sites after the campaign start date in the state and district provide only MR vaccine.

#### **ASHAs and AWWs**

ASHAs and AWWs will play a crucial role in the successful and smooth implementation of the introduction through wide age range campaigns followed by inclusion in the RI programme. The Child Development Project Officers of Department of Women and Child Development, officials from Department of Primary and Secondary Education and ICDS supervisors will also be sensitized on the need and the process for introduction of MR vaccine in the RI programme, before the campaign launch in the state. The state / district health departments, education department and the department of women and child development will have to coordinate their efforts for smooth implementation of such reorientation / training (for ASHAs and AWWs), sensitization and further implementation of a well-coordinated transition plan.

Sensitization of paediatricians / medical practitioners through involvement of IMA, IAP will also focus on supporting the introduction through MR campaigns, alongside introduction in RI programme in their respective areas / districts.

## 6.7 State-wide changing over from measles to MR vaccine

#### 6.7.1 Pre-transition activities

RI vaccine stock management has to be in such a manner that all measles vaccine has to be either used up or returned back in a reverse cold chain to the state vaccine store from the block / district / regional vaccine stores. There has to be a gradual depletion of measles vaccine vials and diluents in the district and block / PHC ILR points, including regulating the vaccine supply process at each level further downstream three months before the campaign. The state has to timely and accurately report the stock of measles vaccine, based on which the vaccine supply will be regulated so that there is only sufficient vaccine to carry out routine immunization till the start of the campaign. State has to ensure that there is no overstocking of measles vaccine. Monitoring plan has to be in place to verify and validate that no measles vaccine stock is held / available at the peripheral levels one week before campaign launch date. In order to ensure that no measles vaccines and diluents are left over



during campaign and to prevent mix-up of vaccine, remaining measles vaccine stock along with its diluent should be segregated and contained in at the cold chain points.

#### 6.7.2 Monitoring the changing over from M to MR in routine immunization

Ideally on the day of the campaign launch, the state-level stores should not have any measles vaccine and diluents stored / distributed at any level of the vaccine chain, starting from the state vaccine store to the regional vaccine store, district vaccine store and block / PHC ILR points. The supervisors and monitors deployed for campaign supervision and monitoring should also cross-check the cold chain points visited to verify if any measles vaccine is available in the ILR points. If any measles vaccine or diluents are observed during the MR Campaign then this should immediately be segregated and contained at cold-chain points.

RI monitoring during the campaign weeks should also be looked into for any aberration in terms of measles vaccine or diluent available at the session-site and do the needful segregation and containment as per SOP.

#### 6.7.3 Post transition monitoring in routine immunization

Following the change over from measles to MR vaccine in the RI programme, timely supervision of RI in the field should continue. During session site supervision, if any mix-up or deviation in vaccine stock management is observed, proactive corrective measures have to be undertaken in coordination with the district immunization officer and state immunization officer to segregate the measles vaccine at the earliest.

### 6.8 Monitoring MR vaccine introduction in the RI programme

As part of the ongoing RI session site monitoring across the states that will include MR vaccination, the new MR vaccine introduction will be specially monitored and tracked with a feedback shared at every level. There should be necessary measures on the ground to ensure smooth transition to replace measles vaccine with MR vaccine in the national immunization schedule under strict supervision and oversight all across the state.

### **6.9 SOPs for Measles vaccine stock management:**

#### Three months prior to start of MR Campaign:

- no direct supply from manufacturers. Supply will be made only on written request / demand by the state;
- state / UTs to reassess and return measles vaccine with diluent which cannot be consumed by the start of MR campaign, in secondary or tertiary packaging.

#### Less than 3 months:

• measles vaccine supply will be made on demand, initially monthly supply, which will further reduce to a week supply. No further supply from 10 days prior to campaign.

Same principle will apply for supply of measles vaccine by state / UT further to Divisions or Districts etc.

MR campaign vaccine distribution will be done from 1 month in advance. States need to ensure
a vaccine distribution plan to utilise all CCPs across the state / UT (all ILRs and DFs).



#### Other vaccines under UIP:

- state to apply due diligence of not overstocking other vaccines in order to free the space for MR campaign;
- if any measles vaccine is left after the campaign, this should be used up through administration a first dose (MCV-1) till last stock.

### 6.10 How can the MR Campaign strengthen the RI and VPD surveillance!

Mass immunization campaigns have been developed and successfully used in the past in many countries including India, to boost and promote the RI programme and to strengthen the VPD surveillance programme.

The current Operational Guidelines for the introduction of MR vaccine through campaign in India contains various chapters with clear references to both programmes. In particular, the components of micro planning, communication and social mobilization, supervision and monitoring and training give an opportunity to improve RI and VPD surveillance programmes.

Introducing the new MR vaccine through a campaign and changing over from measles to MR vaccine in the RI programme after the MR Campaign, creates many opportunities at all levels to boost both doses of MR vaccine coverage.

While the normal RI schedule will continue uninterrupted during the one month implementation of the MR Campaign, there are opportunities to strengthen not only the first and second doses of MR vaccine coverage but coverage of all other antigens in the RI programme.

Following key actions are the special efforts / components that will lead to strengthening the RI programme and MR surveillance, if well planned, prepared and strictly implemented:

#### **Before the MR Campaign**

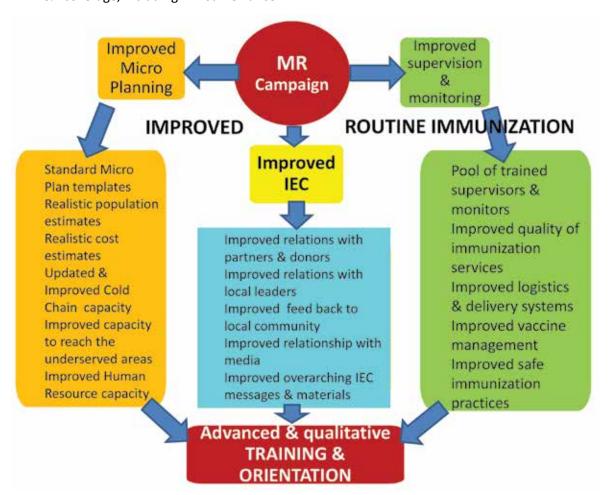
- develop operational guidelines that include development partners for health system strengthening in all coordination structures at all levels;
- advocate / sensitize political / religious / community leaders during the MR planning meetings and provide information on MR Campaign linkage to the RI and surveillance programmes;
- prepare the MR Campaign micro-plans based on the currently used routine micro-plans and revise these after workshops have come out with new realistic information. Especially, focus on the high-risk areas / populations;
- include strategies / ways / messages in the MR Campaign communication plan that includes strengthening the RI programme, especially boosting the MCV1 and MCV2 coverage and messages to the public about the importance of reporting of suspected measles cases at hospitals;
- include hands-on exercises in the MR introduction campaign training curriculum to improve knowledge and skills of vaccinators, team supervisors and community HWs that will improve not only the quality of their RI work but also will boost immunization coverage;
- plan for extra supervisors and external monitors, with focus on the underserved areas and populations to help raise capacity of HWs and help advocacy and social mobilization efforts;
- update cold chain inventory and ensuring functionality of cold chain equipment's;



 update inventories of measles vaccine and needs of MR vaccine while changing over from measles vaccine to MR vaccine.

#### **During the MR campaign**

- vaccinators / supervisors / community health volunteers to provide messages to the caregivers about the importance of RI. Particularly, follow-up on MCV2 and reporting of suspected MR cases;
- supervisors and external monitors should visit health centres / communities with focus on the
  underserved in high-risk areas / populations and carry out briefing / debriefing of political /
  religious / community leaders about introduction of the MR vaccine in RI and boosting of MCV
  1&2 coverage, including MR surveillance.



#### After the MR campaign

- revise the RI micro-plans with more accurate and realistic information based on the MR introduction experience and realistic target registration, tallying and active search for missed children (including HRA / P);
- foster strong relationship with media for supportive supervision to enhance RI coverage;
- correct cold chain systems for RI, based on the information / reports from HWs, supervisors and monitors. Post MR campaign, accurately inventorize and redistribute MR vaccine stocks;



- correct all RI related implementation strategies based on the findings and reports from the MR
   Campaign supervisors and monitors;
- information from the RCM to why the child was missed must be applied to strengthen communication strategies for RI.

Following frameworks graphically show the main MR operational components: micro-planning, SBCC, supervision and monitoring, that can improve both RI and the surveillance programme and to what improvements they may / can / will lead if properly planned and prepared. The operational component of orientation and training is the central vehicle that must be used to constantly reinforce / build capacity to sustain those improvements based on progress assessments within the RI and surveillance programmes.

### **Key points**

- MR vaccine will be introduced in the routine immunization problem after the campaign immediately;
- training of health workers and medical officers before the campaign must also focus on MR vaccine introduction in RI;
- the MR Campaign gives the opportunity to more realistically and accurately adapt the RI micro-plans;
- the MR Campaign is the perfect platform to raise public awareness of the Universal Immunization Programme and will help in reaching the underserved population;
- MR Campaign can link UIP and surveillance programmes and strengthen coordination between their health staff;
- the MR Campaign is the ideal platform for capacity building of staff involved in RI and Surveillance programmes;
- orientation and training are the keys for all other operational components to build capacity to sustain progress based on programme assessments by supervisors and monitors.



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## Annex 1: Measles vaccine coverage in all states (Evaluated and administrative coverage data)

MCV1 & MCV2 coverage, Evaluated & Reported data

IVI			ited & Reported d		(HMIS) data,
	Eval	uated covera	ge data		5-16*
State	%Measles first dose, Most recent survey	Data Source for Measles first dose	%Measles sec- ond dose, 24-35 months, RSOC, 2013-14	%Measles first dose, Apr 2015- Mar 2016	%Measles second dose, Apr 2015- Mar 2016
A&N ISLANDS	76	NFHS4	N/A	98	69
ANDHRA PRADESH	89	NFHS4	44	95	74
ARUNACHAL PR.	86	RSOC	11	71	38
ASSAM	79	RSOC	22	88	75
BIHAR	79	NFHS4	11	88	78
CHANDIGARH	89	DLHS4	N/A	86	95
CHHATTISGARH	86	RSOC	28	87	80
D&N HAVELI	85	DLHS3	N/A	80	68
DAMAN & DIU	91	DLHS3	N/A	79	71
DELHI	85	RSOC	36	106	108
GOA	97	NFHS4	55	99	101
GUJARAT	81	RSOC	25	86	74
HARYANA	79	NFHS4	28	94	91
HIMACHAL PRADESH	93	RSOC	23	95	91
JAMMU & KASHMIR	75	RSOC	24	99	92
JHARKHAND	76	RSOC	27	87	74
KARNATAKA	82	NFHS4	55	93	86
KERALA	93	RSOC	30	96	62
LAKSHADWEEP	92	DLHS3	N/A	105	98
MADHYA PRADESH	80	NFHS4	11	76	67
MAHARASHTRA	93	RSOC	26	98	94
MANIPUR	75	RSOC	22	97	68
MEGHALAYA	72	NFHS4	18	99	73
MIZORAM	95	RSOC	29	108	94
NAGALAND	53	RSOC	15	66	50
ODISHA	76	RSOC	28	84	85
PONDICHERRY	95	NFHS4	N/A	69	72
PUNJAB	87	RSOC	29	97	93
RAJASTHAN	64	RSOC	11	77	63
SIKKIM	93	NFHS4	52	74	66
TAMIL NADU	85	NFHS4	28	85	34
TELANGANA	91	NFHS4	N/A	102	88
TRIPURA	70	NFHS4	38	100	79
UTTAR PRADESH	62	RSOC	18	82	63
UTTARAKHAND	81	NFHS4	20	101	92
WEST BENGAL	93	NFHS4	49	95	94
INDIA	79	RSOC	27	88	74

<sup>\*</sup>HMIS data as on 7 Oct 2016



## Annex 2: Role of other Government departments and other organizations in MR vaccination campaign

#### **Education**

- district education officer sensitize and orient school principals, teachers, parents and students about the importance of MR vaccination campaign in coordination with DIO/CMO;
- prepare school class wise number of campaign eligible children and inform health officer;
- identify school noodle point, class leads and conduct orientation training on MR campaigns;
- organize MR vaccination centres in schools for vaccination of children less than 15 years of age;
- identify a focal person for coordinating school-based vaccination activity, like providing space in the school, mobilizing and controlling the flow of children;
- mobilize school teachers at least two week before to support vaccination teams in school-based activity to achieve high coverage with safety;
- send out prior intimation to parents of school children regarding days of MR immunization at the school and seek their cooperation through parent-teachers meeting;
- enlist name wise missed children after the school campaign and intimate the concern medical officer in charge (BMO) for vaccinating all the missed children.

#### Women and Child welfare

- facilitate use of ICDS centres as MR session sites wherever required;
- ICDS workers should be part of vaccination teams as support staff for mobilization at MR vaccination session sites;
- assign ICDS workers to distribute and display SBCC materials like handouts, posters and banners
  in their areas and mobilize local community leaders / mothers' groups to raise community
  awareness about MR Vaccination Campaign;
- ICDS supervisors and CDPOs must be part of block level coordination plan and can be supervisors in the campaign micro plan.

#### Panchayati raj institutions

- gram panchayat vikas adhikaris (village development secretaries), lekhpals, village pradhans and panchayat members should mobilize the community to attend the MR session site for maximum coverage;
- launch the programme in their areas;
- help to identify and provide suitable locations for MR session sites where RI sessions are not held regularly to reach the unreached;
- village Health Sanitation Committee will support the MR campaign in the following ways:
  - in case there are no regular RI session sites in a village, VHSC should help identify appropriate place for MR session site;
  - provide logistic support to team like chair, benches, water, etc. Identify volunteers to assist on the session day;



- identify and mobilize left-out children to maximize coverage during sweeping activity;
- if needed, utilize untied VHSC funds for transporting AEFI cases to nearest AEFI management centre.

## Other Government departments like Home Affairs, Defence, Telecom, Employees' State Insurance, Information & Broadcasting, etc.

- allow MR session sites to be located in their premises, if needed;
- government workers may be part of vaccination teams and encourage support and ensure coverage in their own residential colonies;
- government offices should display SBCC materials like posters and banners;
- police wireless may be used to convey urgent messages for MR Vaccination Campaign;
- concerned departments should allow the key messages of MR Vaccination Campaign programme to be printed on telephone, electricity and water bills;
- telephone exchanges, mobile service providers (government and private) may be requested to send text and voice messages.

#### **Professional medical bodies**

- national, state and district chapters of all professional bodies (primarily IAP and IMA) should send out a formal communication to all their members requesting them to mobilize their clients;
- all private and public physicians, private practitioners and other health professionals can inform their clients of the campaign dates and the need for all children of 9 months to <15 years of age to receive a additional dose of MR vaccine irrespective of their prior immunization status;
- display SBCC (IEC / IPC etc.) materials at their clinics;
- sensitize their members to manage and report any AEFIs at their facilities;
- assist vaccination teams to convince reluctant parents, if needed;
- health professionals can also help to monitor the MR activities in coordination with local government / partner counterparts.

## NGOs / other voluntary organizations, National Cadet Corps, National Service Scheme and Nehru Yuva Kendra

- create community awareness for MR vaccination campaign by contacting community religious leaders, developing, distributing and displaying SBCC materials;
- MR session sites may be located at their premises / campuses;
- help to mobilize parents to the session site and support vaccination teams during activity.



### **Annex 3: Communication with media regarding AEFI**

- In the event of an AEFI, it is essential to present information to the media in a way that will generate a sense of credibility and confidence by being:
- honest never lie; if you do not know, say so, but assure to find out, e.g. "We don't know at this
  time, but we have taken steps to answer that question". A lie or cover-up can become a bigger
  news story than the initial event;
- **caring** create a strong, compassionate, competent image for yourself and the immunization programme;
- clear- avoid jargon; use simple phrases and give examples to clarify the meaning;
- serious avoid any light coments / humors;
- **responsible** don't be defensive, e.g. "We will see if there is any truth in the report", but accept responsibility appropriate to your position and avoid blaming someone else;
- **responsive** hold a daily press conference if needed to meet the needs of the public and media; regular contact helps build a trusting relationship with the media;
- **positive** reframe the situation in positive terms; use terms such as "vaccine safety" (which has a positive connotation) rather than "adverse event".

#### When facing a hostile interviewer, prepare these techniques:

- **Block** respond to a negative question with a positive answer, e.g., when asked, "How many children have died from immunization?", answer: "Immunization saves lives. Since our immunization programme began, X children have been immunized, and of them Y% might have died from one of these diseases. That is the context in which we must consider the tragic, but thankfully rare adverse events which follow immunization."
- **Bridge** having answered a difficult question, move quickly to something linked but positive (see example below);
- Correct what is wrong immediately correct information from the interviewer that is wrong. Be assertive, not aggressive; and state the facts simply, factually and in a friendly way;
- Stay cool no matter how bad it gets, don't get angry or defensive; stay friendly, polite and warm;
- **Be assertive** state what you want to say in a clear way without getting aggressive; take time to think about the response and don't be rushed or forced.



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## Annex 4: Prototypes of letter from District Health / Education Officer to schools

To

The Principal / head of institution

#### **Subject: Supporting Measles-Rubella Vaccination Campaign**

The state of ......is conducting the MR vaccination campaign as part of the national strategy to eliminate Measles and control Rubella / CRS in the country. All children aged 9 months to less than 15 years will be provided with an additional dose of MR vaccine, regardless of any previous vaccination status or history of measles / rubella—like illness.

Measles is a highly infectious disease caused by a virus. An estimated nearly 49 000 children die from measles annually, making it one of the leading causes of child deaths in India. Measles can be prevented by immunizing children with two doses of measles vaccine, which is safe and effective. A MR campaign offers a second opportunity to ensure population immunity against measles and rubella. The aim of the campaign is to cover 100% of the targeted children.

Rubella is an infectious yet mild viral illness affecting both children and adults that can cause death and disabilities in the newborn if an unprotected pregnant woman gets infected with rubella virus in early pregnancy. Rubella virus has the potential to cause abortions, stillbirths and severe birth defects known as congenital rubella syndrome (CRS), including deafness and blindness in the newborn child. This may lead to serious lifelong disabilities, which is a huge burden to the family and society (nearly 30000 estimated CRS cases in the country per year).

Under the Campaign, the Departments of Health and Education are partnering with schools to bring students and teachers to jointly participate in the MR Campaign. All schools – public and private, including other institutions are receiving this letter, which will be followed by orientation for teachers and students to be conducted by health programme managers / health workers of your area.

The MR campaign will be conducted within a period of 3–4 weeks. Vaccination will be conducted in schools during the first 2 weeks and later on in the community through outreach sessions. Duration of the campaign may vary depending upon the vaccinator's availability Vs injection load, based on district / state micro plans.

Please take the necessary initiative to ensure that all children in the target age in your school get vaccinated during the campaign.

Your active participation in the campaign is requested for the following:

**Inform about the date and time** of the session to students and their guardians.

Prepare list of students less than 15 years of age.

**Assign teachers to help organize** and conduct immunization sessions in the school.

Coordinate with health workers to conduct the session during school timings.



Ensure that teachers **crosscheck left thumb** marking of all vaccinated children.

**Share list of absentee target students** with the health worker for vaccination during the village campaign session.

**Senior students should get involved in motivating** and ensuring the vaccination of those under-15 children who are out of school.

Please also see the attached information sheet on measles and rubella that can be sent to parents and distributed among teachers and children.

Should you have any questions, please call ...... (Tel no) or meet.......

(Names of Immunization Officers / Medical Officers).....



## Annex: 5 Prototype of letter addressed to medical practitioners / paediatricians / members of professional medical associations

To

#### **Subject: Supporting Measles-Rubella Vaccination Campaign**

## 

As you also know, rubella is an equally infectious yet mild viral illness affecting both children and adults. Rubella infection when acquired in the first trimester of pregnancy can causes congenital rubella syndrome (CRS) leading to spontaneous abortions, stillbirths and babies born with serious multi-organ congenital anomalies, including blindness and deafness, etc. causing a life full of disabilities (nearly 30 000 annual incidences of CRS across the country), which is completely preventable with rubella vaccine (as MR vaccine) having > 95% efficacy.

National routine MCV1 vaccination coverage is  $^{83\%}$  (Rapid Survey of Children 2013-14) and even less for MCV2 coverage (70% as per Health Management Information System). Although measles vaccination confers immunity in 85% of children when given at 9–12 months of age and in 95% of children when they get immunized at 16–24 months of age, a substantial number of children remain unprotected even if they are vaccinated. Hence an MR campaign offers an opportunity to the susceptible group of children to get vaccinated and overall to boost population immunity against measles and rubella across the country, through sustaining high MR vaccination coverage in all the states.

The MR campaign will be conducted within a period of 3–4 weeks. Vaccination will be conducted in schools during the first 2 weeks and later on in community through outreach sessions. Duration of the campaign may vary depending upon the vaccinator's availability and injection load, based on district / state micro plans.

For the success of the campaign, your contribution will be critical. Your active participation in the following activities will be highly appreciated:

- providing your clinic as a site for immunization sessions;
- developing your clinic to act as an AEFI management centre. You will be trained to manage AEFIs and will be given AEFI management kits;
- advocating with parents to get their children vaccinated;
- becoming a trainer for the vaccinators and supervisors (if interested) after training at district level and communicating the messages to your colleagues for similar involvement in the campaign.

We thank you in advance for your cooperation and support.

Should you have any questions, please call	. (telephone numbers) or
meet	
(Names of Immunization Officers / Medical Officers)	



## Annex: 6 Prototype letter for local government / religious / social leaders / NGOs

То

#### **Subject: Supporting Measles-Rubella Vaccination Campaign**

Dear
The District / Block / Village / Ward of

There will be a MR campaign in our area as part of the national strategy to eliminate measles and control rubella in our country. To achieve this elimination goal a new MR vaccine will be introduced in the immunization programme across country. Every children aged 9 months to under 15 years will be provided with an additional dose of MR vaccine regardless of past vaccination status or history of Measles/Rubella-like illness.

As you are aware, measles is a highly infectious disease caused by a virus. An estimated nearly 49 000 children die from post-measles complications annually, making it one of the leading causes of child deaths in the country. Measles can be prevented by immunizing children with measles vaccine, which is safe and effective.

Rubella is an equally infectious yet mild viral illness affecting both children and adults. Rubella infection when acquired in the first trimester of pregnancy can cause congenital rubella syndrome (CRS) leading to spontaneous abortions, stillbirths and babies being born with serious multi-organ congenital anomalies, including blindness and deafness, etc. Thus causing a life full of disabilities (estimated nearly 30 000 annual cases of CRS across the country), which is completely preventable with rubella vaccine (as MR vaccine) having > 95% efficacy.

MR campaign offers an opportunity for children at risk of the diseases to get immunized and overall to boost population immunity against measles and rubella in the community, through sustaining high MR vaccination coverage in all areas.

The MR campaign will be conducted within a period of 3–4 weeks. Vaccination will be conducted in schools during the first 2 weeks and later on in the community through outreach sessions. Duration of the campaign may vary depending upon the vaccinator's availability vs injection load, based on district / state micro plans.

For the success of the campaign, your contribution will be critical. Your active participation in the following activities will be highly appreciated:

- advocating with parents to get all their eligible children vaccinated;
- providing your leadership for mobilizing children to the immunization sessions;
- help in inaugurating immunization session sites in your areas with other local leaders;
- support health-link workers team to conduct quality immunization sessions in your areas with safety.

We thank you in advance for your cooperation.	
Should you have any questions, please call	(telephone numbers) or
meet	

(Names of Immunization Officers / Medical Officers).



## **Annex 7 : State / District AEFI Response Template**

DATE / As a part of the Universal Immunization Program, the state / district
vaccinated(number of) children against
vaccine preventable diseases including Polio, childhood TB, Diphtheria, Pertussis, Tetanus,
Hepatitis B, Measles and MR vaccine in the state between the months of The
Government of(specify state), through its ongoing immunization
programme, has achieved an immunization coverage of% in (year).
(number of) doses of BCG / DPT / OPV / Measles / MR vaccine (others specify) (choose the vaccine in question) have been administered between (the dates) / /
vaccine in question, have been duffinistered between the dates,,,
As a part of the routine surveillance, (number of) AEFIs have been reported on / (date) in the district / s (name of district / s), including (details of case / s number of deaths, number of hospitalizations) in / / (months). The AEFI surveillance system records all minor adverse events (such as rashes, swelling at
the injection site, fever etc) and investigates the serious cases (such as death and hospitalization) to strengthen the immunization program.
The State / District AEFI committee is investigating the above cases with support from the state govt.
All medical records are being reviewed / xx samples have been collected / postmortems are being conducted / (please add particulars of the relevant investigation / s).
AEFI surveillance is a reporting system to investigate the potential side effects after vaccination. Reporting an AEFI does not mean the vaccine has caused it. The cause can be determined only after proper investigation. There are wide ranging reasons for most side effects.
Vaccination has been recognized as the most effective public health intervention for child health, preventing disease mortality and morbidity. Every year, (number of) children suffer from (diseases / specific to antigen in question—depending the available data) in the state. Manufacturing of vaccines is a tightly monitored process with multiple checks at different stages of production. Post production, each batch goes through tests to ensure quality and safety before they are released for use.
Contact Details:



## Annex 8: MR Campaign information sheet: protecting children from measles and rubella

Government of India has decided to eliminate Measles and control Rubella / CRS in the country through introducing MR vaccine across all the states. Both first and second dose of measles vaccine currently administered in the RI programme under the national immunization schedule, will be substituted with MR vaccine. All states / UTs will conduct a wide age range MR vaccination campaign in phases, targeting children from 9 months to <15 years, which will be followed by introduction of MR vaccine in their respective Routine Immunization programme.

### What is a MR Vaccination Campaign?

A MR Vaccination Campaign is a special campaign to vaccinate all children in a wide age group with MR vaccine, in all states. The MR campaign dose is given to all children,



(both previously vaccinated and unvaccinated), who belong to the target age group (9 months to <15 years). The goal of the MR campaign is to quickly enhance the population immunity to both measles and rubella in order to reduce deaths from measles and disabilities like CRS due to rubella infection in early pregnancy. A MR campaign must immunize more than 95% of the target age group children in schools as well as outreach session sites with a country goal to achieve 100% coverage of targeted children with safety.

#### Who should be vaccinated?

- all children who have completed 9 months of age and are below 15 years of age (completed 9 months since birth but have not reached their fifteenth birthday), must be vaccinated with this additional dose of MR vaccine,
- a child in the target age group should always get the campaign dose of MR vaccine even if the child was vaccinated earlier,
- a child with a history of having measles / rubella in the past should also be vaccinated if the child is in the target age group,
- malnourished children should be on priority since they have a higher risk of complications and death if they get measles,
- children with minor illnesses such as mild respiratory infection, diarrhoea and low grade fever should always be vaccinated.

#### Where will the children be vaccinated?

Children will be vaccinated at designated vaccinated sites only. There will be no house-to-house vaccination. In the first week, students will be vaccinated in schools. Non-school-going and left out children will be vaccinated in the following 2-3 weeks at designated vaccination sessions sites in villages and urban areas.



### Annex 9: Training of Vaccination teams: Facilitators guide

Duration of training Part 1: For vaccination and supervisors - 4 hours

Participants Vaccinators (ANM / HW-F, HW-M)

Supervisors (LHV, HA-M)

ASHA / AWW / Volunteers (ASHA, AWW and volunteers, if any,

will be trained in the second half of the day for two hours)

Batch Size ANMs (10), Supervisors (4) for part 1, in

addition, ASHAs (10) and AWWs (10) for part 2.

Facilitators Designated district officers trained at state level

ToT. The Medical Officer in Charge of PHC will support the trainer for

both modules.

Facilitators per batch Two

Venue Block / PHC level

#### **Contents of the Training Plan**

Module	Subject / Activity	Who	timing	method
Part 1	Micro Plan development for	Vaccinators (ANM)	2 hours	Presentation /
	sub centre	Supervisors		practical exercise
	Basic principles of cold chain	Vaccinators (ANM)	2 hours	Presentation
	and vaccine management	Supervisors		Demonstration
	Calculating the logistics			Practical Exercise /
	Safe Injection practices			Role play
	through exercise / role play			
Part 2	SBCC (IEC / IPC etc.) (Infor-	ANM + ASHAs,	2 hours	Presentation Practical
	mation – Education – Com-	AWWs* and Volun-		Exercise /
	munication)	teers		Role play
	IPC (Inter-Personal Commu-			
	nication)			

<sup>\*</sup>As there will be 5-10 ASHAs and AWWs for every ANM, the group should together ensuring that the ANM is in the same group as ASHAs and AWWs from her area.



## Annex 10: Accountability framework matrix for pre / during / post campaign activities with proposed time frame

SI	Level of Action	Activity details	Responsibility	Time frame
1	National	Develop action plan, incl. Logistics timeline (central operations group)	Central Ops. group	6 months prior
2	National	Budget and operational costs for MR campaign estimated	Central Ops. group	6 months prior
3	National	Logistics timeline / costs etc. For MR campaign finalized	Central Ops. group	6 months prior
4	National	Procurement of vaccines and other logistics initiated	Central Ops. group	6 months prior
5	National	Operational guidelines and vacci- nators hand book developed	Gol / WHO & oth- er Partners	3 months prior
6	National	Communication package, branding for MR campaign including development of SBCC (IEC / IPC etc.) materials-methods completed	Gol / Unicef & ITSU	3 months prior
7	National / state	Operational guidelines and IEC prototypes printed- distributed	Gol / WHO / Unicef	2 months prior
8	National / State	Disseminate financial guidelines to states	Gol, Imm. Division	1-2 months prior
9	National	National / Regional workshops conducted	GOI / WHO / Unicef	2 months prior
10	State / District	State workshops & trainings at district / sub-districts completed	Govt. / WHO / Unicef	1.5 month prior
11	District / Block	Micro plans prepared & reviewed	Govt. (DIO / BMO)	1 month prior
12	District / Block	Training of vaccinators and ASHA / AWW completed	(TOT) Trained MOs	1 month prior
13	State / District / Block	Cold chain systems at district / sub-district levels reviewed and strengthned	State cold chain officer & Unicef	2 months prior
14	National	National level coordination meet- ings conducted	Central Ops. group	2 months prior
15	State	State level coordination meetings (STFI) initiated	STFI	2 months prior
16	District	District level coordination meet- ings (DTFI) initiated	DTFI	1 month prior
17	District / Block	Sensitization workshop / meeting for the private pediatricians and leading physicians in the district completed	CMO / DIO / Part- ners / IMA / IAP	two weeks prior



18	District / Block	District level advocacy meetings with local government, community / religious leaders, NGO's, civil groups conducted	CMO / DIO / Part- ners	1 month prior
19	District / Block	Sensitization meeting for the principals from all private and public schools completed	CMO / DIO / Part- ners	1 month prior
20	District / Block	Information on target children form schools compiled	DIO / BMO	1 month prior
21	District / Block	Teachers orientation by principals / Nodal points completed	Principals	2 weeks prior
22	National / State / District	Communication and social mobilization drive SBCC (IEC / IPC etc.) initiated	Govt IEC cell / Bureau / Unicef	2 months prior
23	National / state	Distribution of vaccines and other logistics to state-districts completed	CMO / DIO	2-3 weeks prior
24	District / Block	Reorientation / sensitization of all MOs (Govt and Pvt) on AEFI management completed	CMO / DIO / Part- ners	1 week prior
25	State / District	Media sensitization workshop to be completed	Govt. / Unicef	1 week prior
26	National / State / District	Pre-campaign monitoring	Govt. and part- ners	1 month prior
27	At all levels	Establishing MR campaign control room	Govt nodal officers	2 weeks prior
28	All levels	Starting of the MR campaign	Govt. and part- ners	As per state
29	National / State / District	Intra- campaign monitoring	Govt. and part- ners	4 weeks dura- tion
30	National / State / District	Post campaign review at district and state level	STFI & DTFI	Immediately after cam- paign
31	District	Sweeping activities based on campaign monitoring findings (post campaign)	CMO / DIO	Immediately after cam- paign
32	National / State	Post-campaign review and proposed coverage evaluation survey planning / Implementation	GOI & Partners	1-2 months post campaign



## **Annex 11: Formats**

		Mea State Level: Pre-Campaign Preparedness Assessment Check-list	Measles-Rubella Vaccination Campaign 2017 ck-list	ign 2017 st-A	
Date of visit	]	Name of observer:	Designation:	Organization	
State		Number of districts			
To fill this checklist obse WHO NPSP for follow up	checklist for follo	rver should visit the health/Education/ICDS	tions.They should record any observations, provide spe	state level officials to asses the preparations. They should record any observations, provide specific recommendations to the state core group/state Task Force. Completed check lists should be submitted to the SEPIO	. Completed check lists should be submitted to the SEPIO
		Activities	Assessment	Actions suggested to person responsible with timeline	Follow up / compliance status (to be filled by SEPIO within a week after observer vis
	1	State Task Force meeting(s) held?	Held / planned / not held		
noit	2	State control established and functional	2 / >		
enibro	m	State MR campaign planning workshop cum ToT completed?	2 / >		
ооу ри	4	Whether state spokesperson identified?	2 / >		
ne gni	r.	Whether state has assigned observers for priority district for providing oversight?	2 / >		
Plann	9	Did SEPIO/ state observer visit priority district for MR campaign review	N / Y		
	7	State AEFI committee established and activated for MR Campaign	2/>		
	∞	Has the state received MR vaccine (as per actual requirement assessed by observer- Target population x 1.11)	yet to receive / received partial doses / received all doses		
tnəməge	6	Has the state received AD syringes - 0.5 m (as per actual requirement assessed by observer-same as number of MR vaccine doses)	yet to receive / received partial stocks / received all stocks		
tics man	10	Has the state received 5 ml mixing/reconstitution syringes (as per actual requirement assessed by observer- MR vaccine doses/10)	yet to receive / received partial stocks/ received all stocks		
sigol bne e	11	Status of MR vaccine storage capacity at State Vaccine Store	Adequate capacity / inadequate but alternate arrangements done / inadequate but no alternate arrangements done yet		
nissi	12	Is there a plan for transport of vaccine/logistics to districts?	N/X		
۲Α	13	No of district <b>NOT</b> having adequate electrical cold chain space ?			
	14	Any other points you may wish to record			
ι	15	State media sensitization meeting held?	Held / planned / not held		
noite	16	IAP/IMA/Medical colleges & Pvt doc. sensitization meeting held?	Held / planned / not held		
ojunu	17	IEC materials (poster/banner/hoarding/pamphlet) procured ?	N/A		
uwog	18	State has planned launch for the MR campaign	N/A		
)	19	Any other points you may wish to record			
s	20	Whether state has received financial guidelines from Gol ?	N / A		
pun≟	21	If yes - Whether state has disseminated financial guidelines to district?	N / Y		
ı	22		N / N		
eptt.	23	Has education department communicated to district education department about MR campaign	N/A		
p noit	24	If yes, have the roles and responsibility at district/block/school also been communicated?	All/ partial/ None		
Educe	25	is there a plan to sentize or review the status of preparedness with all DEOs at state level before MR campaign	N/A		
Other comr Note: This c	<b>ments i</b> l checklist	Other comments if any , Use reverse of form for additional comments. Note: This checklist will be used before 4-6 weeks prior to campaign start date on a weekly basis to monitor progress	rogress.		Signature



		Measles-Rubella District Level: Pre-Campaign Preparedness Assessment Check-	Vaccination Campaign 2017	7 Checklist-B	
Date of visit	_/_	/ Name of observer: De	signation: Org	anization	
State		District Number of rural pla	anning unit Nu	mber of urban planning units:	
T- 491 Abib		onitor should visit the health/Education/ICDS district level officials to asses the preparations. They should record			and the past Completed the delivery through the complete the second
		onitor should visit the nearth/caucation/ICDS district level officials to asses the preparations. They should record 0 ) for appropriate follow up	any observations, provide specific recommendat	tions to the district core group preferably in presi	ence or the DWI. Completed check lists should be submitted to the
		Activities	Assessment	Actions suggested to person responsible with	Follow up / compliance status (to be filled by DIO within a week after observer visit)
	1	District Task Force meeting(s) held	1/2/>2/planned/not done		(
	2	Did the District Magistarte chair the DTF?	Y/N		
	3	Spokesperson identified for the district?	Y/N		
Planning and Coordination	4	Representative of which department/ organisation did <b>NOT</b> attend DTF. (Encircle all aplicable)	Education Department / ICDS / Urban Development / Panchayati Raj / IAP / IMA / Religious Institutes / others		
g and	5	Has district Core Group (Edu Deptt, WCD and Health Deptt) established?	Y/N		
Plannir	6	If Yes, has the district core group (Edu Deptt and Health Deptt) meeting been held?	Held / planned / not planned		
	7	District MR campaign planning workshop held for Medical Officers?	Held / planned / not planned		
	8	District MR campaign planning workshop held for education and other departments?	Held / planned / not planned		
	9	Total number of microplans (blocks+Urban planning units) received at the district			
	10	Total number of microplans (blocks+Urban planning units) reviewed by DIO/partners			
	11	Total number of blocks+Urban planning units which <b>have not</b> completed <b>Form 1A</b> (baseline information - all components)			
	12	Total number of blocks+Urban planning units which have not completed Form 1B (school baseline information form)			
	13	Total number of blocks+Urban planning units which have not completed Form 2A, 2B, 2C (school planning form form)			
ning	14	Total number of blocks+Urban planning units which have not completed Form 3 (outreach planning form)			
Microplanning	15	Has the district prepared the Cold Chain contingency planning from (Form 6B) (compilation of form 4A)	Completed / Partial / Not available		
ž	16	Has the district prepared the manpower planning from (Form 4C)	Completed / Partial / Not available		
	17	Has the district prepared the ANM deployment planning from (Form 4D)	Completed / Partial / Not available		
	18	Has the district planned for visiting all the cold chain points at least once by the refrigerator mechanic before the start of MR campaign	Y / N		
	19	Has the district planned for visiting all the cold chain points at least once by the refrigerator mechanic before the start of MR campaign	Y / N		
	20	Has the district prepared the IEC/BCC microplanning format (Form 7 series)	Completed / Partial / Not available		
	21	Has the district prepared the District level supervision plan (Form-8B)	Completed / Partial / Not available		
	22	Has the district calculated the vaccine requirement as per guidelines on number of beneficiairies and considering wastage factor 1.11 (10%)?	Y/N		
	23	Has the district received MR vaccine (as per actual requirement assessed by observer- Target population $\times$ 1.11)	yet to receive / received partial doses / received all doses		
	24	Has the district received AD syringes - 0.5 ml (as per actual requirement assessed by observer- same as number of MR vaccine doses)	yet to receive / received partial stocks/ received all stocks		
management	25	Has the district received 5 ml mixing/reconstitution syringes (as per actual requirement assessed by observer- MR vaccine doses/10)	yet to receive / received partial stocks/ received all stocks		
MR Vaccine/ Logistics supplies ma	26	Status of MR vaccine storage capacity at District Vaccine Store	Adequate capacity / inadequate but alternate arrangements done / inadequate but no alternate arrangements done yet		
le/Log	27	As per plans total number of rural and urban planning units <b>NOT</b> having adequate electrical cold chain space (refer microplanning form no 6A)			
MR Vacci	28	As per plans total number of rural and urban planning units <b>NOT</b> having adequate non- electrical cold chain space (cold boxes/vaccine carriers) (refer microplanning form no 6B)			
	29	Status of Indelible ink marker pens	yet to receive / received partial stocks/ received all		
	30	Status of tally sheets, invitation cards cum vaccination cards and other forms	stocks  yet to receive / received partial stocks/ received all		
	31	Has the district AEFI committee meeting held for providing oversight for strengthening AEFI	stocks  Held / planned / not planned		
±.	32	management and reporting for MR campaign?  Has the district identified Medical Officers for AEFI management	Y/ N		
KEFI M	- 52	Status of training for identified Medical Officers for AEFI management	.,		
Preparations for AEFI Mgt	33	(Observer should advocate for mock drill (differentiating Anaphylaxis from syncope and management)	Held / planned / not planned		
Preparat	34	AEFI Kits procured in quantities as per norms (1 kit per AEFI management centre)			
	35	Is the district referral transport nodal person (health department) on board for MR campaign	Y/N		



		Activities	Assessment	Actions suggested to person responsible with timeline	Follow up / compliance status (to be filled by DIO within a week after observer visit)
sste	36	What is the mechansim for disposal of immunization waste in the district	safety pit / outsourced / both / none		
Injection waste Management	37	Is there a shortfall of functional hub cutter in any of the planning units in the district? (If yes, observer to record DIOs plan of action with timeline)	Y / N		
	38	Total number of urban planning units that have <b>NOT</b> been able to identify required number of vaccinators			
status	39	Total number of rural planning units that have <b>NOT</b> been able to identify required number of vaccinators			
Key HR status	40	Total number of urban planning units that have <b>NOT</b> been able to identify required number of supervisors			
	41	Total number of rural planning units that have <b>NOT</b> been able to identify required number of supervisors			
	42	No of blocks & urban planning units for which Vaccinator and supervisor training plan with timelines is <b>NOT</b> available at district?			
	43	Status of vaccinator training in district?	Completed / partial / not started		
Training	44	Does the district have training plan with timelines for mobilizers (ASHA/AWW/ Link Workers) training for all blocks & urban planning units?	Y / N / Not available		
-	45	Status of training of ASHA/AWW/link worker (mobilizers)?	Completed / partial / not started		
	46	Status of training of the school leads (Education dept) by the health department	Completed / partial / not started		
	47	District media sensitization meeting held?	Y/N		
-	48	IAP/IMA/Medical colleges & Pvt doc. sensitization meeting held?	Y/N		
Communication	49	Whether any strategy in place focussing on underserved community?	Y / N / NA		
mmur	50	IEC materials (poster/banner/hoarding/pamphlet) received?	Y/N		
8	51	If received has IEC material distributed to the planning units?	Completed / partial / not started		
	52	Status of IPC activity (distribution of invitation cum vaccination cards to each household).  * Invitation card distribution is mandatory marker of effective IPC	Completed / partial / not started		
Data	53	Are data entry person at district aware of daily MR Campaign reporting to the next level?			
	54	Whether district has received financial guidelines fro MR campaign from the state	Y / N / NA		
	55	Whether district has received funds for MR campaign from the state	Y / N / NA		
	56	Have funds been disbursed form district to the blocks / urban planning units	Completed / Partial / Not Started		
	57	Has district education officer (DEO) received any communication on MR campaign from state level	Yes / Not as yet		
	58	Has DEO identified any nodal officer for MR campaign at district level	Yes / Not as yet		
	59	Has DEO sent any communication on MR campaign to schools?	Yes / Not as yet		
Education	60	If yes, has communication on MR campaign sent to all government and private schools	Only Govt/ Only Pvt/ Both/ None		
Educ	61	Is there any mechanism to involve and engage play schools, Creches for MR campaign	Yes / Not as yet		
	62	Is there any mechanism to involve and engage religious schools (Madrasas/others) for MR campaign	Yes / Not as yet		
	63	Is there any mechanism to review the conatct between the education department and the schools/insitutions at the sub district /block level	Yes / Not as yet		
	64	Is there any mechanism in place to mobilize reluctant schools for MR campaign	Yes / Not as yet		
		Other comments if any. Use reverse of form for additional comments.  Note: This checklist will be used before 4-6 weeks prior to campaign start date on a weekly bas	is to monitor progress.		Signature Name



Measles-Rubella Vaccination Campaign, 2017 Block/PHC/Planning unit Level: Pre-Campaign Preparedness Assessment Check-list	Checklist-C
Date of visit Name of observer with designation Organization	
State District Name of block/Urban Planning Unit: Setting: Rural / Urban	
To fill this checklist observer should visit the health/Education/ICDS officials at block/ Urban planning unit level to asses the preparations. They should record any observations, prodistrict core group preferably in presence of the DM. Completed check lists should be submitted to the DIO/ WHO NPSP (SMO ) for appropriate follow up	vide specific recommendations to the block MO and

		Activities	Assessment	Actions suggested to person responsible with timeline	Follow up / compliance status (to be filled by MO block/Urban Planning Unit within a week after observer visit)
	1	Block/ PHC/ Urban Planning Unit meeting on micro-planning held?	Yes / planned / not held		
	2	Has the block identified Nodal Officer from ICDS/WCD department?	Y/N		
	3	Has the block identified Nodal Officer from Education department?	Y/N		
nation	4	Block education dept official received communication from district education officer?	Y/N		
Coordir	5	Has the Education department submitted the list of schools to health department for MR campaign?	Y/ N		
Planning and Coordination	6	Has block education officer (BEO) received any communication on MR campaign from district level	Yes / Not as yet		
Planni	7	Has BEO identified any nodal officer for MR campaign at block level	Yes / Not as yet		
	8	Has BEO sent any communication on MR campaign to schools?	Yes / Not as yet		
	9	If yes, has communication on MR campaign sent to all government and private schools	Only Govt/ Only Pvt/ Both/ None		
	10	Is there any mechanism to involve and engage play schools, Creches for MR campaign	Yes / Not as yet		
	11	Micro-plan status at Block/ PHC/ Urban Planning Unit ?	Completed / Partial / not started		
	12	Micro-plan of the Block/ PHC/ Urban Planning Unit submitted to District?	Yes/ Not as yet		
	13	If yes, has school vaccination plan sharred with the education department?	Yes / Not as yet		
	14	Does microplan have areas listed with category (Regular/High Risk Area /Hard to Reach), estimated beneficiries and required vaccinators for the area and schools (FORM-1A and 1B)?	Y/N	_	
ning	15	Form 1 has all schools/institues incorporated provided by the education department	Y / N / not applicable		
Microplanning	16	Type of institutes in Form 1 (multiple options allowed)	Govt schools / Pvt schools / play schools / Religious school / others		
Mi	17	Status of information in form 1A (Urban health centre / Polio supervisor area wise survey of schools/educational institutes for baseline information)	Complete / partial / not applicable		
	18	Has the block received Form 2A (School form for target estimation - Pre MR campaign ) from all the schools	Completed / partial / no school has submitted yet		
	19	Has the school/educational institute informed parents-teachers meeting and student-teacher interaction dates from available forms (Form 2D)	All / partial / none		
	20	Are "special" strategies planned for areas with migratory settings such as Nomads, brick kilns, construction sites, and geographically hard-to-reach areas post riverine inaccessible areas, jungles, displaced & sparse	Y / N / NA		
	21	populations etc. (Form-3)  Is there a supervision plan that includes names, dates and daily locations of supervisors? (FORM 8A)	Y/N		
u o		Has any district level official visited for reviewing the preparations for MR campaign? (Ask Medical			
Supervision	22	Officer and refer to District level supervision plan if available/procured from the district before field visit - FORM 8B)	Y/N		
Sup	23	Supervision and support from district to Block/ PHC/ Urban Planning Units adequate? (Subjective assessment on interviewing with Medical Officer focussing on identified bottlenecks)	Y / N		
	24	Any other points you may wish to record			
Funds	25	Has the block /planning unit received funds from district?	Y/N		
_	26	Has the block /planning unit received financial guideline from district?  Has the district calculated the vaccine requirement as per guidelines on number of beneficiairies and	Y/N		
	27	considering WMF 1.11 (10%)	Y/N		
	28	Has the block received MR vaccine (as per actual requirement assessed by observer- Target population x 1.11)	yet to receive / received partial doses / received all doses		
93	29	Has the block received AD syringes - 0.5 ml (as per actual requirement assessed by observer- same as number of MR vaccine doses)	yet to receive / received partial stocks/ received all stocks		
maitenan	30	Has the block received 5 ml mixing/reconstitution syringes (as per actual requirement assessed by observer- MR vaccine doses/10)	yet to receive / received partial stocks/		
logistics and supply chain maitenance	31	Assessment of MR vaccine storage status at this planning units (Vaccine storage point)	received all stocks  Adequate capacity / inadequate but alternate arrangements done / inadequate but no alternate arrangements done yet		
logist	32	Is there a timeline for receiving and distributing vaccine/other logistics?	Y/N		
other	33	Is there a plan for transport of vaccine/logistics ?	Y/N		
Vaccine & other	34	Proper cold chain plans made for storing routine & campaign vaccines and ice-pack freezing?	Y/N		
Vacci	35	Adequate cold chain electrical equipment's (DF/ILR) available?	Y/N		
	36	Adequate cold chain non electric equipment's (VC/CB) available?	Y/N		
	37	Status of Indelible ink marker pens	yet to receive / received partial stocks/ received all stocks		
	38	Status of tally sheets, invitation cards cum vaccination cards and other forms	yet to receive / received partial stocks/ received all stocks		



		Activities	Assessment	Actions suggested to person responsible with timeline	Follow up / compliance status (to be filled by MO block/Urban Planning Unit within a week after observer visit)
±.	39	Has the block identified Medical Officers for AEFI management	Y/N		
AEFI Mgt	4	Status of training for identified Medical Officers for AEFI management (Observer should advocate for mock drill (differentiating Anaphylaxis from syncope and management)	Trained / not trained / planned		
Ā	41	AEFI Kits procured in quantities as per norms (1 kit per AEFI management centre)	Y/ N		
#	42	What is the mechansim for disposal of immunization waste in the district	safety pit / outsourced / both / none		
te Mg	43	Person responsible for waste disposal at PHC/Urban centre identified (Form-6C)	Y/N		
Inj waste Mgt	44	is there a shortfall of functional hub cutter in this planning unit? (If yes, observer to record MO plan of action with timeline)	Y / N		
=	45	Any other points you may wish to record			
	46	Is there a vaccinator and supervisor training plan with timelines?	Y/N/NA		
	47	Status of identification of requuired vaccinators?	All/ Partial/ Not started		
	48	Status of vaccinator/ supervisor training?	Completed/ Partial/ Not started		
ning	49	If completed, % supervisors trained			
Training	50	If completed, % vaccinator trained			
	51	Status of mobiliser (ASHA, AWW, SM-net, link worker) trained on social mobilization ?	Completed/ Partial/ Not started		
	52	If completed, % ASHA/AWW trained			
	53	Any other points you may wish to record			
	54	School principals/teachers sensitization meeting held? (Form 7)	Held / not held as yet / to be planned		
u.	55	Private doctors sensitization meeting held? (Form 7)	Held / not held as yet / to be planned / not aaplicable		
nicatio	56	IEC materials (poster/banner/hoarding/pamphlet) received? (Form 7)	Y/N		
Communication	57	Plans for distribution and display of IEC materials made?	Y/N		·
8	58	Plans for miking/announcement from temple/mosque ?	Y/N		
	59	Status of IPC activity (distribution of invitation cum vaccination cards to each household). * Invitation cards distributed by ASHA/AWW?	Completed / ongoing / not started		
	60	[Any other points you may wish to record]	Completed / ongoing / not started		·
Data	61	Is data entry person aware of daily MR Campaign reporting to the next level?			
* Invit Other	comm	ard distribution is mandatory marker of effective IPC ents if any. Use reverse of form for additional comments. excikist will be used before 4-6 weeks prior to campaign start date on a weekly basis to monitor progress.			Signature



		Measles-Rubella Vacci	Measles-Rubella Vaccination Campaign, 2017 School visit Check-list	Checklist- D	
Date	Date of visit	Name of observer with designation	Organization		
State		District Name of block/Urban Planning Unit:	Setting: Rural / Urban_	Jrban	
		Activities	п	2	8
	Nam	Name of the school/education institute			
etails	Туре	type of institute	Govt schools / Pvt schools / play schools / Madarsa / others	Govt schools / Pvt schools / play schools / Madarsa / others	Govt schools / Pvt schools / play schools / Madarsa / others
b sise	Address	559			
<b>8</b>	Nam	Name of the Principal / School nodal officer for MR campaign			
	Cont.	Contact number			
<u> </u>	1	Is Principal / staff aware of MR Cmapign in the state?	N/X	N/X	N/A
uoi	7	Is yes, how did the school learn about MR campaign?	Letter from District/Block Education Officer  District Minority Welfare Officer / Meeting Officer / District Minority Welfare Officer / Meeting / Meeting / Other	Letter from District/Block Education Officer / District Minority Welfare Officer / Meeting /media / other	Letter from District/Block Education Officer / District Minority Welfare Officer / Meeting /media / other
tenibroo	m	Does the Principal/School Nodal Offcier aware of age of beneficiaries for MR campaign?	Y / N / Not aware	Y / N / Not aware	Y / N / Not aware
O bns gn	4	Has the school submitted <b>Form-1</b> to the next level (number of children upto 15 years enrolled in the school) ?	Y / N / Not aware	Y / N / Not aware	Y / N / Not aware
innsI9	2	Has the school submitted <b>Form - 2A</b> to the next level(class/section wise number of children upto 15 years in the school)	N/A	N/A	N / A
	9	Has the school received <b>Form 2B (f</b> or documenting name of children who missed MR vaccine during schools vaccination day to be submitted to the health department)	N/Y	N/Y	N/A
	7	Status of all teachers/staff meeting in view of MR campaign in their school?	Held / planned to be held / no plan	Held / planned to be held / no plan	Held / planned to be held / no plan
	∞	Status of parents teachers meet (PTMs) before MR campaign?	Held / planned to be held / not aware / not willing to plan	Held / planned to be held / not aware / not willing to plan	Held / planned to be held / not aware / not willing to plan
eparations	6	Status of 2 student teachers interaction before MR campaign (1st interaction is for special plans such as (ast interaction is for special plans such as essay/painting/debate etc)	Held / planned to be held / not aware / not willing to plan	Held / planned to be held / not aware / not willing to plan	Held / planned to be held / not aware / not willing to plan
14	10	Encircle any other method of communication neing adopted by the school	website / sms / mail / almanac or diary / chit	website / sms / mail / almanac or diary / chit	website / sms / mail / almanac or diary / chit
	11	Has the school identified a separate room for MR vaccination?	N/Y	N/N	N / N



Signature Name

				Me	Measles Rubella Campaign Year		MR Compaign FORM - 1A	1A
		Sub	Sub center/ Urba	ın health centı	Urban health centre /supervisor area especially in urban area -wise baseline information	-wise baseline information		
State	9	District:			Block	Planning unit		
Sub	Sub-centre/Urban Area:		Name of Supervisor:_	ervisor:	Name of H	Name of Health Worker:		
Sr. No	Name of Village / Hamlet / Tola / Urban Ward	Category #(R/HRA/HTR)	Population	Estimated Beneficiaries (9 months - < 15 years)	No of Schools/any educational institutes/Pre-School/AWC/Madarsa etc in this Village/ Hamlet/Tola/ Urban Ward / Urban Mohalla / Urban Mohalla (9 months - < (From the list shared by education department and additional schools found during survey).  (From FORM 1B)	Estimated beneficiaries (<15 years) enrolled in this school/any educational institute/Pre-School/AWC/Madarsa etc* (Total Benefeciaries from FORM 1B)	No of vaccinators required for session activity in this school g= (f/200)	No of vaccinators required for outreach session activity in a given area h= (d/2/150)
	œ	а	J	q	a	¥	Ď	۽
	Total							
# (R	/HRA-P) R-regular, HRA-High Risk Area	/Population includ	ling migrator	y like nomads	# (R/HRA-P) R-regular, HRA-High Risk Area/Population including migratory like nomads, brick kilns, construction site, HTR- hard to reach area like post riverine inaccessible areas, jungles, sparsely populated	reach area like post riverine inac	cessible areas, jungles, spar	sely populated

isolated/cluster population, displaced population etc. \* Include all children enrolled in the school. They may be from other villages as well.

The number of beneficiaries is to be estimated from the best available resources and methodology. Some reliable sources could be census, polio microplans, recent JE microplans, recent surveys done by the health department etc. Approximately 2/3rds of the target benficiaries are expected in the schools/educational institutes.



			Whether cross verified with the list provided by the education dept?	×									
				j									
				į									
	tion		Number of beneficiaries as estimated in/by the school or submitted by the education department (Form 2A)	ч									
	or baseline informa		Name of the Nodal person with contact number for management of MR campaign in the school	8									
1	ational institutes fa	f Health Worker:	Contact Number of the school / Principal / Head master/Headmi stress	f									
oaign Year	of schools/educ	Name o	Name of the Principal / Headmaster / Headmistress	е									
es-Rubella Cam	or area wise survey n:		Board of affilation of the school / Instiute SB = State Board /CBSE/ ICSE/ O = Others	q	SB / CBSE / ICSE / O	SB / CBSE / ICSE / O	SB / CBSE / ICSE / O	SB / CBSE / ICSE / O	SB / CBSE / ICSE / O	SB / CBSE / ICSE / O	SB / CBSE / ICSE / O	SB / CBSE / ICSE / O	SB / CBSE / ICSE / O
Meas	centre / Polio supervis	Name of Supervisor:	Set up of the school / institute SG = State Govt CG = Central Govt Aided Private = Pvt	С	SG / CG / Aided / Pvt	SG / CG / Aided / Pvt	SG / CG / Aided / Pvt	SG / CG / Aided / Pvt	SG / CG / Aided / Pvt	SG / CG / Aided / Pvt	SG / CG / Aided / Pvt	SG / CG / Aided / Pvt	SG / CG / Aided / Pvt
	PHC / Urban health		Name of Schools/any educational institutes in the Village / Hamlet / Tola / Urban Mohalla	q									
		ub-centre)/Urban Area:		а									
	State	ector (su	Sr. No										
	Measles-Rubella Campaign Year	PHC / Urban health centre / Polio su District.	PHC / Urban health centre /	PHC / Urban health centre / Polio supervisor area wise survey of schools/educational institutes for baseline information  District:    Block / Urban:   Planning unit   Pl	PHC / Urban health centre / Polio supervisor area wise survey of schools/educational institutes for baseline information    Planning unit	PHC / Urban health centre / Polio supervisor area wise survey of schools/educational institutes for baseline information  District:    District:	PHC/ Urban health centre / Polio supervisor area wise survey of schools/educational institutes and supervisor.    Phc/ Urban health centre / Polio supervisor area wise survey of schools/any lost of the school / Institute   Block / Urban: Block /	PHC/ Urban health centref / Polio supervisor area wise survey of schools/educational institutes for haseline information  District	PHC / Urban health centre / Polio supervisor area wise survey of schools/educational institutes for baseline information  PHC / Urban health centre / Polio supervisor area wise survey of schools/educational institutes  Block / Urban.  Block / Urban.  Block / Urban.  Block / Urban.  Planning unit  Planning unit  Board of Board of institute  Institute  Institute  SG = State Govt  Aided  CG = Central Govt  Be State Board  Tola / Urban Mohalla  Board of Headmistress  Tola / Urban Mohalla  Board of Headmistress  SG   CG / Aided / Pvt   SB / CBSE / ICSE / OCS    SG / CG / Aided / Pvt   SB / CBSE	PHC / Urban health centre / Polio supervisor area wise survey of schools/deucational institutes for baseline information    District.	PHC/ Urban health centre / Polio supervisor area wise survey of schools/educational institutes for baseline information    District.	PHC/ Urban health centre / Polio supervisor area wise survey of schools/educational institutes for baseline information    Board of	PHC / Urban health centre / Polio supervisor area wise survey of schools/educational institutes for baseline information    Name of Supervisor.

Include all children enrolled in the school. They may be from other villages as well.

Session planning for big schools (with requirement of at least 5 sessions as assessed in Form 1B) should utilize form 3B for dass wise and class teacher wise management.

Class Leads with Students details (up to 15 years )	ate ed	ion - Pre MR campaign lodal medical officer in time) gunit: Co-ed/ Boys only / Girls ds with Students details (up table of class lead (teacher)	I form for target estimat nis information reaches norticle) ICSE / O IUMBer: On DD/MM/YYYY Class Lead Class Lead	Schoc ncipal to ensure the selection area and selection and selection area and selection and selection area area and selection	School Prir Block Address (Vi Govt / Priv School nod Class leads Class/ Section
Total students below 15 years studying in this class/section class/section	Signature Principal 🛽				
Total students below 15 years studying in this class/section class/section  Class/section  Class/section  Class/section  Class/section  Class/section  Class/section  Class/section  Class/section  Class/section  Class/section  Class/section  Class/section  Class/section  Class/section  Class/section  Class/section  Class/section  Class/section					
Total students below 15 years studying in this class/section class/section					
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Total students below 15 years studying in this class/section					
Total students below 15 years studying in this class/section					
Total students below 15 years studying in this class/section					
Total students below 15 years studying in this class/section					
	PTM date planned	mber of class lead (teacher)	Name & Telephone nur	Total students below 15 years studying in this class/section	Class/ Section
			on DD/MM/YYYY	training planned	lass leads
lass leads training planned on DD/MM/YYYY		g & Tel number):	npaign vaccination (Name	al person MR Cam	chool nod
chool nodal person MR Campaign vaccination (Name & Tel number): lass leads training planned on DD/MM/YYYY			number:	ame & Telephone	rincipal n
rincipal name & Telephone number: chool nodal person MR Campaign vaccination (Name & Tel number): lass leads training planned on DD/MM/YYYY	School lead		ICSE / 0	SB / CBSE /	
School leads rincipal name & Telephone number: chool nodal person MR Campaign vaccination (Name & Tel number):	only (Encircle)	Co-ed/ Boys only / Girls	ncircle)		Govt / Priv
only / Girls only (En	5			illage/Urban area)	ddress (Vi
only / Girls only (En	School nam	3 unit:	Planning Planning		3lock
School name:  School vehicle available Yes/		odal medical officer in time)	nis information reaches n	ncipal to ensure th	School Prii
School name:   School name:   School vehicle available Yes /     Only / Girls only (Encircle)   School leads		tion - Pre MR campaign		Schoo	
School form for target estimation - Pre MR campaign  I Principal to ensure this information reaches nodal medical officer in time)  Ss (Village/Urban area):  / Private/ Aided (encircle)  SB / CBSE / ICSE / O  I nodal person MR Campaign vaccination (Name & Tel number):  eads training planned on DD/MM/YYYY					
		ate ed	icer in time) School na School leadetails (up to 15 years )  PTM date planned	icer in time) School na School lea  details (up to 15 years )  PTM date  planned	icer in time) School na School lea  details (up to 15 years )  PTM date  planned



MR Campaign FORM - 2B	AEFI	Address & Contact No. of nearest AEFI Management center		n								
ign FO		MR vaccination certificate (=F X 1.11)		t								
Campa		Indelible Marker Pens (1 pen per 250 beneficiaries)		s								
Ā		Black Plastic Bags (2 per site)										
1	ment	Red Plastic Bags (1 bag per 50 syringes)		ь								
	Logistics requirement	Hub Cutter (1 per vaccinator)	M 18.	d								
	istics re	Reconstitution syringe (5 ml) (= L)	) in FOR	0								
	Log	egninyz (lm 2.0) DA (LL.L xg)	and (K	u								
		(I =) səluodmA tnəulid BiləduR-zəlzsəM	lumn (J	E								
Planning unit:		Measles-Rubella Vaccine Vials (10 dose vial) = g x 1.11.)/10	ded from co	1								
Plann	l Person	Contact	essions is deci	k								
	School Nodal Person	Name	The number of se	j								
	etails	Name of volunteers (ASHA, Aww, others)	ccordingly increase.	i								
Block/urban area: _	Team Details	Name of Vaccinator(s)	number of rows will a	h	1,	<u>.</u>	11	i m	1	i m	1.	<u>.</u>
		saireisafana Po. oV	hool - the	g								
		Time of vaccination	in one sc	f								
		Distance from ILR point	1 session	е								
		Name of 1st Line Supervisor with designation	The datewise planning in each row is for one session in one school. There can be more than 1 session in one school - the number of rows will accordingly increase. The number of sessions is decided from column (1) and (K) in FORM 1B.	р								
District:		Name of the school/institution (Ensure that all schools/institutions in areas are involved in microplanning by cross verifying with Form 1A, 1B and 2A)	r one session in one schoo	2								
		Date of vaccination	n each row is fo	q								
ë		Village / Urban Locality (Ensure that all areas are involved in microplanning by cross verifying with Form 1A and	datewise planning i	а								
State:	l	S S.	The									



	_		_			_	_	_		
ctivity:			AEFI	Address & Contact No. of nearest AEFI Management center	JRM 1B.	n				
JRM - 2C Date of Activity:				MR vaccination certificate (11.1 X 2=)	K) in FC	t				
MR Campaign FORM - 2C : Date of /				Indelible Marker Pens (1 pen per 250 beneficiaries)	mn (J) and (	s				
AR Can				Black Plastic Bags (2 per site)	m colu	r				
r activity:	mber_		nent	Red Plastic Bags (1 bag per 50 syringes)	ded fro	р				
M Day of activity:	itact nu		equirer	Hub Cutter (1 per vaccinator)	s is deci	d				
	vith con		Logistics requirement	Reconstitution syringe (J =) (Im Z)	session	0				
	erson v		J	egninys (Im 2.0) dA (LL.L x2)	nber of	L				
	nodalp			tnealid slleduЯ-selseaM (J =) seluoqmA	The nun	٤				
s unit:	Name of school nodal person with contact numbe			Measles-Rubella Vaccine Vials (10 dose vial)  O1/(11.1.1)/10	ngly increase.	-				
Planning unit:		١,		Time of vaccination	accordi	k				
				Distance from ILR point	ws will	ĺ				
				Name of 1st Line Supervisor with designation	the number of ro	į				
area:	master/mister_			Name of the teachers attached with contact number	in one school -	ų				
Block/urban area:	ame of Principal / Head master/mister	2)		Number of beneficiaries for this session (to be estimated from FORM 2A)	n be more than 1 session in one school - the number of rows will accordingly increase. The number of sessions is decided from column (J) and (K) in FORM 1B.	69				
	Name			Class / Section I	ool. There can be m	f			I	
		1)		Name of mobilizers (ASHA, AWW, others)	ssion in one sch	ө				
District: _		act number:		Deployed from PHC and Sub centre	is for one ses	р				
	dress:	r with cont		Phone number	n each row	v				
	Name of school with address:	Name of Medical Officer with contact number: 1)		Name of Vaccinator(s)	The datewise planning in each row is for one session in one school. There car	q				
State:	Name of	Name o		Team	The date	в			•	

Educational Institute: All schools (Private and Government), Day-care centers, Creches, centres or institutes for specially abled children where children upto 15 years age are likely to be found EACH VACCINATOR MUST HAVE ONE FUNCTIONAL HUB CUTTER AND INDELIBLE INK MARKER PEN EVERY DAY



		S	School form	for missed	orm for missed children list- Post school campaign	t school camp	oaign			
		(School Princ	ipal to ensure this	information re	(School Principal to ensure this information reaches nodal medical officer in time)	er in time)			MR Campaign FORM - 2D	. 2D
State:	te:	District:		_ Block/urban area:	ea:	PP PP	Planning unit: _			
Sch	School name:		Address (Vi	dress (Village/Urban area):	:		Encirc	Encircle: Govt/ Private/ Aided	/ Aided	
Prir	Principal name & Telephone number:	ımber:								
Sch	School nodal person MR Campaign vaccination (Name & Tel number):	aign vaccination (Name 8	۲el number):							
Nar	Name of Class lead (teacher) with phone number:	th phone number:				Class	Sect	Section :		
Tot	Total target Students in class:		<u> </u>	otal vaccinated d	Total vaccinated during MR campaign:	Childr	ren remained	Children remained unvaccinated:		
			Class wis	se details of ch	ass wise details of children left unvaccinated for follow up	ed for follow up				
<u> </u>		To be fille	To be filled by schools only	Ιλ		d oT	e filled by	To be filled by Health Department only	tment only	
S. No	Name of child	Reason why child not vaccinated (encircle)	Father / mother name	Mobile	address	Sub Center linked to address	Follow up session conducted	ANM Name and phone number	ASHA name and phone number	Child Vaccinated on date
		1/2/3/4/5/6								
		1/2/3/4/5/6								
		1/2/3/4/5/6								
		1/2/3/4/5/6								
		1/2/3/4/5/6								
		1/2/3/4/5/6								
		1/2/3/4/5/6								
		1/2/3/4/5/6								
		1/2/3/4/5/6								
		1/2/3/4/5/6								
		1/2/3/4/5/6								
		1/2/3/4/5/6								
		1/2/3/4/5/6								
		1/2/3/4/5/6								
Reas	Reasons: 1. Absent 2. Sick on vaccination day 3. Previous history of allergy 4. Refusa	on day 3. Previous history of al	_	5. Fear of injection/AEFI 6. Others (specify)	thers (specify)					



		Class	- wise Schoo	Class- wise School MR Campaign Coverage Report	verage Report		
	School fills this up		ares with Pla	and shares with Planning unit / Block level	el	N	MR Campaign FORM - 2E
State:	District:	BIGBIG	Block/urban area:	ea:	_ Planning unit: _		
School Addres	School name:				Encircle: Govt/ Private/ Aided	ite/ Aided	
Princip	Principal name & Telephone number:				Board of scho	ool: ICSE/CBSE/State	Board of school: ICSE/CBSE/State board/other (specify)
Total n	Total no days activity planned in school: 1/2/3/4/5/6	I: 1/2/3/4/5/6					
School	School nodal person for MR Campaign vaccination (Name & Tel number):	vaccination (Nan	ne & Tel num	ber):			
Sr No	Date of vaccination	Day of vaccination	Class	Total Target Children in Class	No of Children vaccinated	% achieved	Activity Status
		Day -1					Completed/Ongoing
		Day -2					Completed/Ongoing
		<b>Дау -3</b>					Completed/Ongoing
		Day -4					Completed/Ongoing
		Day-5					Completed/Ongoing
		<b>Дау-6</b>					Completed/Ongoing
	Total						
* In case t	* In case the activity is planned for >1 day in school then the data reporting officer should mention day/date wise report till activity compilation	the data reporting offi	cer should mentior	n day/date wise report till activ	rity compilation		

Signature Principal 🛭



		Block/Plannin	g Unit level school-	Block/Planning Unit level school- wise MR Campaign Coverage Report	Coverage Rep	ort	
	MC	MO incharge of Planning unit / Bloc	Slock level fills this up and sends it to district	sends it to district		MR Camp	MR Campaign FORM - 2F
State:		District:Blo	Block/urban area:				
Pla	Planning unit:			Total no of schoosl in block/Area:	ock/Area:		_
Sr No	Date	Name of school	Total Target Children in schools	No of Children vaccinated	% achieved	No days activity planned in school	Activity Status (Completed/Ongoing)
							Completed/Ongoing
							Completed/Ongoing
							Completed/Ongoing
							Completed/Ongoing
							Completed/Ongoing
							Completed/Ongoing
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							Completed/Ongoing
							Completed/Ongoing
	Total						Completed/Ongoing



		Distri	trict/State level MR Campaign School Coverage Report	gn School Coverage F	Report		
		District/State	District/State will fill this and share with State/National level	/National level			MR Campaign FORM - 2G
State:			District:	No	No of Blocks/Planning Units/Districts:	its/Districts:	
				•	Total no of schools in District/State:	District/State:	
s N	Date	Name of Block/Planning Unit/District	No of Schools	Total Target Children in schools	No of Children vaccinated	% achieved	Activity Status (Completed/Ongoing)
							Completed/Ongoing
							Completed/Ongoing
							Completed/Ongoing
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							Completed/Ongoing
							Completed/Ongoing
	Total						Completed/Ongoing



				AEFI	Address & Contact No. of nearest AEFI Management center	n			
					MR vaccination certificate (=G*1.11)	_			
N-3					Indelible Marker Pens (1 pen per 250 beneficiaries)	S			
MR Campaign FORM - 3					Black Plastic Bags (2 per site)	ď			
ampai		Planning unit:		ement	Red Plastic Bags (1 bag per 50 syringes)	σ			
MR		Planni		Logistics requirement	Hub Cutter (1 per vaccinator)	۵			
				Logistic	Reconstitution syringe (5 ml)	0			
			act no: _		9gninys (Im Z.0) DA (11.1 X 2)	z			
	ites)		ith conta		Measles-Rubella Diluent Ampoules (1=)	Σ			
	session-s	Block:	ervisor wi		Meastes-Rubella Vaccine Vials (10 dose vial) [14 (17.1 x 1.1)]	٦			
	ea/Population		Name of Supervisor with contact no:		Mobile Number of Volunteers	У			
ar	d High Risk An			<b>Team Details</b>	Name of volunteers (ASHA, AWW, others)	ſ	3. 3.	1. 3.	
Measles-Rubella Campaign Year	ing Regular an				Name of Vaccinators	-			
ıbella (	(Includ				No. of vaccinators =( F/150)	н			
Measles-Ru	each Planning Form (Including Regular and High Risk Area/Population session-sites)	District:			* Expected no of target children - mostly 9 M to below 5/6 yrs and children not going to schold to schold the 9M - 15 years population	9			
	utreach				Time of vaccin ation	ч			
	Outr				Type of Distance Area from ILR (R/H point RA-P)	Е			
			nter:		Type of Area (R/H RA-P)	О			
			Urban area / Sub center:		Name of session sites	o			
		State:			Name of Village / Urban Locality	В			
					Date of vaccination	А			
					s. o				Total



\* In the age group of 9m to 15 years, approximately 2/3rds beneficiaries belong to school going age group. Vaccine/logistics planning for 50% of total estimated beneficiairies (9m - < 15 yrs) in the community / for number of children below 5 yrs would suffice.

EACH VACCINATOR MUST HAVE ONE FUNCTIONAL HUB CUTTER AND INDELIBLE INK MARKER PEN EVERY DAY

				Indelible Marker Pens (1 pen per 250 beneficiaries) (= B / 250	٥					
ORM - 4 A		unit:		MR vaccination certificate (=B X 1.11)	Ь					
MR Campaign FORM - 4 A		Planning unit:		Cotton roll (100 gm pack) (= G)	0					
MR				Black Plastic Bags (2 per session) =G*2	Z					
			Logistics requirement	Red Plastic bags (1 per 50 syringes) =(1+K)/50	M					
			Logis	** Hub Cutters (1 functional / ANM)	ı					
				Reconstitution syringe (5 ml) (= H)	К					
	Logistics	Planning unit:		AD (0.5 ml) syringe (8 x 1.11)	ſ					
	Planning Unit Vaccine and Logistics			Measles-Rubella Diluent Ampoules (=H)	1					
aign Year	lanning Unit			Measles-Rubella Vaccine vials (10 dose vial) (B x 1.11)/10	Ŧ					
Measles-Rubella Campaign Year _	<b>a</b>			Total sessions (C + D + E + F)	9					
Measles-Rul			essions)	Fixed sessions in Hospitals	F					
1		District:	Vaccination site (Number of sessions)	Sessions planned for special teams for #HRA/P	3					
			Vaccin	Regular Outreach session sites	q					
				* Na of school sessions	C					
				Target (9 months to <15 yrs children) (From Form 1A)	8					
		State:		Sub center / Urban Area	٧					Total
	1			- 0		$\overline{}$				_

\*A school having 10 sessions = 10 in this column

# HRA/P-High Risk Area/Population including migratory like nomads, brick kihs, construction site, HTR-hard to reach area like post riverine inaccessible areas, jungles, sparsely populated isolated/cluster population, displaced population etc.

\*\*Humber of his cutters should be equal to maximum number of ANM/Pisconator in a planing unit.



					Measle	es-Rubell	a Campa	Measles-Rubella Campaign Year	2	ı					MR	ampaig	MR Campaign Form 4B
	State:							rogistics n	<u> </u>				District:				
				Vaccination site (Number of sessions)	te (Number o	f sessions)					Log	Logistics requirement	ment				
۶. ۶	Planning unit	Target (9 months to <15 yrs. children) (From Form 1A for	No of school sessions	Regular Outreach session sites	Sessions planned for special teams for *HRA/P	Fixed sessions in Hospitals (Number)	Total sessions	MR Vaccine vials         MR Vaccine Diluent         AD (0.5 ml) ion syringe (10 dose vial)         Reconstitut ** Hub ion syringe (2 ml) (one per 8 x 1.11)/10           (B x 1.11)/10         =H         (B x 1.11)         (= H) vaccinator)	MR Vaccine Diluent ampoules =H	AD (0.5 F ml) i syringe (B x 1.11)	Reconstitut ion syringe (5 ml) (= H)	_	Red Plastic bags (J+K)/50	Black ( Plastic Bags =G*2	roll (50 gm v pack) (100 (3 gms)	MR II accinati II nn card ====================================	Cotton
	А	В	Э	a	Е	F	9	н	-	٦	К	I I	Σ	z	0	Ь	Q
-	Total																

Note: Fixed site will run on all working days during the campaign. Any facility providing routine immunization service during the campaign period will hold the regular session on due date.
\* (R/HRA/P) R-Regular, HRA/P-High Risk Area/Population
\*\*Number of hub cutters should be equal to maximum number of ANM/Vaccinator in all planning units

				•			1	1	1	
MR Campaign Form - 4C			Vehicles Planning	Number of days Planned	_					
MR Campa			Vehicles	Number of vehicles Planned	¥					
			Supervisors	Total Supervisors J=i/3	ſ					
	mat	0/ 010		ANM/vaccinat or days in excess (+) or deficit (-)	-					
	npilation For	Name of MO/ DIO_		Total number of vaccinator days required for the campaign	Ι					
ı Year	Rural/ Urban Planning Unit- wise Manpower Compilation Format		npaign	Total ANM/Vaccinator days managed by the planning unit G= D+F	9					
Measles-Rubella Campaign Year	g Unit- wise		Vaccinator Planning for MR Campaign	Hired vaccinator days managed by the planning unit	ч					
Aeasles-Rub	ırban Plannir	; unit:	accinator Planı	Hired Vaccinators managed by the planning unit	В					
2		Rural / Urban Planning unit:	×	Total ANM days	Q					
	District-	Rural / Ur		Other Vaccinators at Daily fixed site PHC/GH/DH (Staff Nurse)	U					
				Number of available ANMs for MR campaign	В					
		District :		I Name of the Rural / Urban o. planning unit	4					Total
		莅	l	SI No.	1					



Dist No.	District:	FORMAT FOR D  To be filled I  Total  ANM/Vaccinate days required for campaign  (From column "H"from form 4	IO FOR PLANNING DEPLO Rural / Urban Planning unit:  Ty the planning unit  Total ANM/hired days managed AN (From column "G" from form 4C)	DLOYMENT OI  To be filled be form  ANIM days in excess	Measles-Rubella Campaign Year  LOYMENT OF ANMS WITHIN THE DISTRICT MAINLY TO URBAN  it:	Measles-Rubella Campaign Year  Mame of M planning units with surplus ANMs and Owithin 1 week of start of microplan FANMs that report to a Deployed to will be mit blanning unit difficulties.	aign Year  T MAINLY TO URBAN AI  Name of MO/ DIO  s ANMs and ssubmit his f microplanning  From when ANM  I to will report to a unit different planning  unit	REAS FROM AI	DJOINING PLANNING UNITS  To be filled in by the District Immunization Officer  No of ANMs reporting from a different planning unit will i	MR Campaign FORM - 4 D  S UNITS  strict Immunization Officer  From which planning unit will report fe	FORM - 4 D  fficer  Date when ANM will report for MRC
	A	8	0	۵	В	ш	9	I	-	-	×
	Total										



Number		Measles-	Measles-Rubella Campaign Year		: Planning unit area - ANM/Vaccinator- wise session roster	oster	MR Campaign FORM - 5	n FORM - 5
Controlled   Manual State   Manual	DistrictTaluka		PHC/ Planning unit:		Sub-centre/Ward:		ı	
Designation   Designation   Planting Selection   Designation   Planting Selection   Designation	Medical officer (name & mobile):			pervisor (name & mobile):				
Monday   Touciday   Working   Touciday   Working   Fiday   Salurday   Monday   Touciday   Working   Fiday   Salurday   Salurday   Monday   Touciday   Working   Fiday   Salurday   Salurday   Monday   Touciday   Touciday   Monday   Touciday   Touciday   Monday	Name & mobile no. of the Vaccinator:		Designati	on (encircle): JHA(F) / LHV / Hire	d JHA(F) / Nursing staff / Others (specify)			
December   Processing   Proce	TOTAL NUMBER OF DAYS FOR MR CAMPAIGN (ANM	M DAYS):	TOTAL DAYS DEPLOYMENT		1			
Charle   C	Week No.	Monday	Tuesday		n of MR campaign Vaccination site Thursdav	Fridav	Saturday	Sunday
Willinger         Location of Mit compalgy Vaccination Rel         Frieday         Setundary           Date         Moundary         Tuesdary         Vaccine of Mit compalgy Vaccination Rel         Frieday         Setundary           Date         Moundary         Tuesdary         Vaccine of Mit compalgy Vaccination Rel         Setundary           Number         Mondary         Tuesdary         Vaccine of Mit compalgy Vaccination Rel         Setundary           Date         Mondary         Tuesdary         Vaccine of Mit compalgy Vaccination Rel         Setundary           Date         Mondary         Tuesdary         Vaccine of Mit compalgy Vaccination Rel         Setundary           Date         Mondary         Tuesdary         Vaccine of Mit compalgy Vaccination Rel         Frieday           Name         Setundary         Setundary         Setundary	Date				,			
Number   Noteday   Tuesday   Tuesday   Noteday   Tuesday   Tuesd	Details of Vaccination site & timing							
Monday   Totalday   Wednesday   Fidday   Saturday   S	Category: School/ Outreach							
Maniter   Monday   Tuesday   Wednesday   Wednesday   Friday   Saturday	Deployed: Yes / No							
& Continct Number         Londony         Vecinited of Mill compiler Vecinition of Mill compiler Vecinities and Mill compiler Vecinities	If deployed Name of PHC deployed							
Monday   Tuesday   Medineday   Tuesday   Medineday   Thursday	Name of MR Supervisor & Contact Number							
Date	Week No.	Monday	Tuesday		n of MR campaign Vaccination site Thursdav	Friday	Saturday	Sunday
Cdeployed   Cdep	Date							
Coeployed   Coep	Details of Vaccination site & timing							
Copyloyed Source of Name and American Name	Category: School/ Outreach							
& Contact Number         Monday         Tuesday         Wednesday         Thursday         Friday         Saturday           Ite & timing         Accontact Number         Amonday         Tuesday         Wednesday         Friday         Saturday           Scontact Number         Amonday         Tuesday         Wednesday         Monday         Amonday         Amonday <td< td=""><td>Deployed: Yes / No</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Deployed: Yes / No							
& Contact Number         Monday         Tuesday         Wednesday         Thurday         Friday         Saturday           304         Saturday         Monday         Tuesday         Wednesday         Friday         Saturday           304         Saturday         Monday         Tuesday         Monday         Saturday         Saturday           304         Scortact Number         Monday         Tuesday         Mondesday         Thursday         Saturday           305         Monday         Tuesday         Wednesday         Thursday         Saturday         Saturday           305         Monday         Tuesday         Wednesday         Thursday         Saturday         Saturday           305         Monday         Tuesday         Wednesday         Thursday         Saturday         Saturday           305         Monday         Tuesday         Monday         Saturday         Saturday         Saturday           305         Monday         Tuesday         Monday         Saturday         Saturday         Saturday	If deployed Name of PHC deployed							
Monday   Tuesday   Monday   Tuesday   Monday   Tuesday   Monday   Tuesday   Monday   Tuesday   Monday   Tuesday   Mednesday   Thursday   Eriday   Saturday   Saturd	Name of MR Supervisor & Contact Number							
Monday   Tuesday   Wednesday   Finday   Finday   Saturday   Satu	Week No.				n of MR campaign Vaccination site			
Date		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
sach back timing         Location of MR campaign Vaccination site & timing         Monday         Tuesday         Wednesday         Friday         Saturday           C deployed         Acontact Number         Acontact Number         Friday         Saturday         Saturday	Date							
aach C Cdeployed         Monday         Tuesday         Mednesday         Thursday         Saturday           S. Contact Number         Monday         Tuesday         Mednesday         Thursday         Saturday           ite & timing         Saturday         Saturday         Saturday         Saturday           Cdeployed         Cdeployed         Signature of MO         Signature of MO	Details of Vaccination site & timing							
C c de ployed         C c de ployed         Location of MR campaign Vaccination site         Location of MR campaign Vaccination site         Annotacy         Thursday         Friday         Saturday           ite & timing         sech         C de ployed         C de ployed         Signature of MO         Signature of MO	Category: School/ Outreach Deployed: Yes / No							
R. Contact Number         Location of MR campaign Vaccination site         Location of MR campaign Vaccination site         Address of Monday         Tuesday         Wednesday         Thursday         Friday         Saturday           site & timing         sach         Cdeployed	If deployed Name of PHC deployed							
Thursday   Tuesday   Tue	Name of MR Supervisor & Contact Number							
Date	Week No.	- Charles	F		n of MR campaign Vaccination site	1	S. Charter	100000
sach Cdeployed & Contact Number	Date	Moliday	Áprican	Wednesday	Indisady	riiuay	Saturday	Sunday
C deployed  '& Contact Number	Details of Vaccination site & timing							
C deployed  '& Contact Number	Category: School/ Outreach							
C deployed  '& Contact Number	Deployed: Yes / No							
· & Contact Number	If deployed Name of PHC deployed							
	Name of MR Supervisor & Contact Number							
	Signature of Vaccinator				Signature of MO			



							Measle	es-Rube	lla Cam	asles-Rubella Campaign Year	ear		ļ						MR Campaign Form - 6A	npaign	Form - (	Ą
								Dist	trict / I	District / Planning unit Cold Chain Plan	ig uni	t Cold	Chain	Plan								
State:	e:			ă 	District					Rur	Rural / Urban	an			Planning unit	g unit				I		
							Cold Chain	ain										Logistics				
		2 years)	equired	a	9 Vaccine	to seso		Equipmen Measles-	Equipment's Available for Measles-Rubella Vaccine	le for ccine				CC Space for Freezing of Ice Packs	for	Cold Boxes available	x S) beri				? əldalia	vhere
Sr. No.	Planning unit	L> of srifm 9) noitelugof fagreT	Measles-Rubella Vaccine Doses r (££.£.)	= səsob İnənlid mumixeM	Cold Chain Space required for MR (Litres) = (D x2.6/1000)	Maximum Cold Chain space requiping X 8.S) = Yeb Tegly diluents per day   10001   Light diluent required   10001   Light diluent requ	S old chain space required for R lmunisation (In Litres)	אר ( Mumber) ווא HBC ( Mumber) אונא MK אונא אר ( Mumber) אונא אונא אונא אונא אונא אונא אונא אונ	ILR MK 304 ( Number) / ILR HBC 200 ( Number) Deep Freezers -Only for Measles-	Rubella vaccine and not for diluents (Ltrs)	Total available Space (Ltra ioT) Total available for campaign (101)	Space available for campaign (100	Excess /Deficit = (M-L)	No. of Deep Freezers( Excluding DFs considered for vaccine storage)	Other Options like Ice factory ,domestic refrigerators etc.	2 2	Mumber of Vaccine Carriers requ	vaccinators + Supervisors + repla IP) Number of Ice packs required fo	freezing cycle (36x no. of vaccir	5 ml Reconst. Syringes Requirec	Whether Adequate Dry Space Av (N/Y)	v, əldslisvenu əseqs to əses nl Sbərots əd Iliw szifzigol
۷	В	C	Q	Е	н	9	Ŧ	-	_	×	7		z	0	Ь	ď	R	S T	n	>	۸	×
										$\frac{1}{1}$	1	+	$\dagger$		+							
											1											
										$\dagger$												
										$\frac{1}{1}$	1	1	$\dagger$		+							
Distric	District Total																					
ILRs-N	LRs-MK 144 has 45 Lts and MK 304 has 108 Lts of available space for vaccine storage.	ts and MK 304	has 108 Lts	of available	e space for	vaccine sto	_	HBC 70 has	50 Lts and I	LRs-HBC 70 has 50 Lts and HBC 200 has 10 Lts of available space for vaccine storage.	: 10 Lts of	available s	pace for va	ccine stora	ge.		-	-	-	-		
DEEP	DEEP FREEZERS-MF 314 has 264 Lts and MF 114 has 72 Lts of available space for vacci	14 has 264 Lts a	and MF 114	has 72 Lts	of availab	le space for	vaccine storage.	rage.														
Cold	Cold chain storage space needed for RI : 63.9 دد per child /year for all RI antigens at Di	ace needed for	·RI : 63.9 α	; per child /	'year for al	l RI antigen:	s at District	level and 9	0.8 cc at pla	istrict level and 90.8 cc at planning unit level (Block/urban)	level (Bloc	:k/urban)										
Cold c	Cold chain storage space needed per MR vaccine dose : 2.6 cc. Cold chain storage space needed per MR vaccine dose : 2.6 cc. * Refer to Cold Chain Chanter of Measles-Rubella Operational Guidelines for RI cold chain space calculation and further details.	ace needed per	r MR vaccir	ne dose : 2.	6 cc. Cold c	chain storage lines for RI o	e space nee	eded per MI	s vaccine do	ose: 2.6 cc.	<u>.s.</u>											

			Measles-Rubella Campaign Year	Campaign Year	MR Campaign FORM - 6B
		Co	Cold Chain Contingency	ain Contingency Plan at ILR/vaccine storage	ge points
State:		District:		Block/Urban	Planning unit:
				Important Contacts	
esignation			Name	Mobile No.	Landline No.
hief Medical Officer					
district Immunization Officer	Officer				
lock Medical Officer					
District Cold Chain Technician	chnician				
erson responsible for taking action:	ır taking ac	tion:			
1 Name:			Designation:		Contact Number:
2 Name:			Designation:		Contact Number:
3 Name:			Designation:		Contact Number:
If the	e first con	tact ( as detailed	d above) is not available, the	second contact will be responsible	If the first contact ( as detailed above) is not available, the second contact will be responsible; otherwise contact the third person
Vhat to Do?					
	1	Transfer vaccine to the		cold box with frozen icepacks. Place a thermometer inside the cold box.	cold box.
	2	Keep diluent out	tside for storage but ensure tha	Keep diluent outside for storage but ensure that diluent is transported to session site in Vaccine Carrier at +2 to +8 Deg. C	in Vaccine Carrier at +2 to +8 Deg. C
FILR breaks down	3	If cold boxes not suffici Contact Person is distri	If cold boxes not sufficient in number, move vaccine to Contact Person is district cold chain technician and mer	ent in number, move vaccine toct cold chain technician and mention the contact number.	
	4	Inform DIO and District	District Cold chain Technician, Mr		on Phone no.
f Deep Freezer	1	Freeze icepacks in	inice factory at is Mr.	and his contact number is	ì
reaks down	(				
	2	Inform DIO and	Inform DIO and District Cold chain Technician, Mr		on Phone no
Power Eailure for	1	Inform BMO, DIO and	O and CMO		
nore than 4 hours	2	Inform local electricity	ctricity department and enquire	Inform local electricity department and enquire when electric supply likely to be restored. If it is going to take longer to engine and the partition of the local description above	department and enquire when electric supply likely to be restored. If it is going to take longer than hold-over time of
		rije edaibilielit	III WILLOW VACCILLES ALLA ICE PACAS	ale stoled, take actions as illentioned	וו ובון מוומ בו בו במעמסייון מבסיים



	Measles-Rubella Campaign Year MR Campaign FORM - 6C	
	Injection Waste Management Plan	
State:	te:	
1	Responsible person assigned for handling and disposal of injection waste:	
2	Mechansim for injection waste (sharps) management: a) Outsourced agency b) disinfection and disposal into the safety pit c) autoclave and disposal into the safety pit	
3	If disinfection and disposal is the planned mechansim, does the planning unit has bleaching powder or planned to procure?	N / A
4	Alternate vaccine delivery (AVD) person / vaccine logistics distribution vehicle instructed to collect the hub cutter with sharp waste to the cold chain point	N / x
2	Is plan in place for procuring red bags with "BIOHAZARD SYMBOL" or already procured	N / x
9	Injection Waste collection and disposal corner identified in the planning unit	AN/N/Y
7	Does the planning unit have twin buckets with a seived inner bucket	AN/N/Y
∞	Does the assigned person know how to prepare the bleaching solution?	Y / N / NA
6	Is the safety pit as per guidelines?	Y / N / NA
10	10 Is the safety pit in usable condition?	AN/N/Y

Signature of Medical Officer:



Name of	the State:							State II	EC/ Me	dia offic	er:
					•						
	STFI meeting	Date			Date			Date			
	Orientation of IMA/IAP members	Date			Date			Date			
	Formation of Core Group for media management	Date			Date			Date			
	including crisis communication	Responsi	ble perso	າ	Responsib	ole person		Responsil	ble persor	n	
	(Include experts who can handle media and social										
Advocacy	media)										
	Orientation of Religious leaders or key influencers	Date			Date			Date			
			ble perso	າ	Responsib	ole person		Responsil	ble persor	n	
	Media Sensitization workshop	Date									
	Identified local celebrity/brand ambassador for the		•								
	campaign										
	Any other	Date									
	State ToT including communication training for	Date									
Capacity	district officials	Responsi	ble perso	٦							
Building	(To be organized if Communication/IEC team has										
	not attended the State TOT)										
	WhatsApp	Number				No. of	Members	:	Frequen	icy of posti	ng:
Social		Monthly/	/Weekly/[	aily							
Media	Is there a dedicated FACEBOOK page for MR	Yes/No									
iviculu	Campaign	If Yes, na	me & nun	nber of ac	counts & r	number of	members	:			Frequency of
		posting:	Monthly/	Weekly/D	aily						
	Any Other activity	Date			Date			Date			
	Please include the total no. of activities for every District.	District	District	District			District	District	District		
	For example total no. of DTF meeting planned under	1	2	3	District 4	District 5	6	7	8	District 9	Total
	District 1, District 2, District 3 etc.	. 1	2	3			0	,	٥		
	DTFI meeting I	À									
	DTFI meeting II										
	Orientation of IMA/IAP members										
	Orientation of Govt. School principal/ Nodal persons										
	from urban area										
Advocacv	Orientation of Pvt. School nodal person and principals										
advocacy	from urban area										
	Orientation of Religious leaders or key influencers										
	Media Advocacy workshop										
	Identified local celebrity/brand ambassador for the										
	campaign										
	Any Other										
Capacity	Any Other Training of block level health functionaries i.e. ANM,										
	•										
Building The number	Training of block level health functionaries i.e. ANM,										
Building The number of trainings	Training of block level health functionaries i.e. ANM,										
Capacity Building The number of trainings planned at	Training of block level health functionaries i.e. ANM, ANM supervisor, Mos, MOI/cs etc.										
Building The number of trainings colanned at each level	Training of block level health functionaries i.e. ANM, ANM supervisor, Mos, MOI/cs etc.  Training of Education department officials, ABSAs										
Building he number of trainings blanned at each level	Training of block level health functionaries i.e. ANM, ANM supervisor, Mos, MOI/cs etc.										
Building The number of trainings clanned at each level should be	Training of block level health functionaries i.e. ANM, ANM supervisor, Mos, MOI/cs etc.  Training of Education department officials, ABSAs										
Building The number of trainings blanned at each level should be	Training of block level health functionaries i.e. ANM, ANM supervisor, Mos, MOI/cs etc.  Training of Education department officials, ABSAs  Training of block level WCD of CDPOs										
Building The number of trainings blanned at each level should be	Training of block level health functionaries i.e. ANM, ANM supervisor, Mos, MOI/cs etc.  Training of Education department officials, ABSAS  Training of block level WCD of CDPOs  Is there a dedicated FACEBOOK page for MR Campaign										
Building the number of trainings blanned at each level should be filled)  Social	Training of block level health functionaries i.e. ANM, ANM supervisor, Mos, MOI/cs etc.  Training of Education department officials, ABSAS  Training of block level WCD of CDPOs  Is there a dedicated FACEBOOK page for MR  Campaign  WhatsApp Group (No.) (with Health & Line										
Building The number of trainings blanned at each level should be filled)	Training of block level health functionaries i.e. ANM, ANM supervisor, Mos, MOI/cs etc.  Training of Education department officials, ABSAs  Training of block level WCD of CDPOs  Is there a dedicated FACEBOOK page for MR  Campaign  WhatsApp Group (No.) (with Health & Line Departments)										
Building The number of trainings blanned at each level should be filled)  Social	Training of block level health functionaries i.e. ANM, ANM supervisor, Mos, MOI/cs etc.  Training of Education department officials, ABSAs  Training of block level WCD of CDPOs  Is there a dedicated FACEBOOK page for MR  Campaign  WhatsApp Group (No.) (with Health & Line  Departments)  WhatsApp (Total members)										
Building The number of trainings olanned at each level should be filled)  Social Media	Training of block level health functionaries i.e. ANM, ANM supervisor, Mos, MOI/cs etc.  Training of Education department officials, ABSAS  Training of block level WCD of CDPOs  Is there a dedicated FACEBOOK page for MR Campaign  WhatSApp Group (No.) (with Health & Line Departments)  WhatSApp (Total members)  WhatSApp (Frequency)										
Building The number of trainings planned at each level should be filled)  Social	Training of block level health functionaries i.e. ANM, ANM supervisor, Mos, MOI/cs etc.  Training of Education department officials, ABSAs  Training of block level WCD of CDPOs  Is there a dedicated FACEBOOK page for MR  Campaign  WhatsApp Group (No.) (with Health & Line  Departments)  WhatsApp (Total members)										

Note: 1. This template needs to be completed by the person in charge for IEC / communication, or SEPIO in case of absence. The person needs to collect information from districts and compile the state sheet.

2. He/, she needs to submit this template to Director, Health Services, Mission Director (NHM).

3. This template shall be discussed in state ToT and will be basic tool for communication planning in state and district.

4. If any activity is not applicable to your area, please write Not Applicable (NA) in that column.

5. Training material needs to reach the FLWs and Nodal Teachers as soon as possible before initiation of trainings and must be referred to during the trainings.



	District level	communicati	on pian	IOT IVIK	campai	gn (forn	1 no. /C	1			
lame of the sta		Name of Distri	ct:					District IE		officer:	
	DTFI meeting (DIO needs to share district communication planning template with the group and discuss IEC plan of action and support required from DC's end)	Date Responsible p	erson					Date Responsi		on	
	District Core Group Meeting (Participants to include ICDS, Education, LIONS club, CBOs, NGOs and Development partners. The meeting needs to be chaired by CMO/DIO)	Date Responsible p	erson					Date Responsi		on	
	Orientation of IMA/IAP members	Date						Date			
	Orientation of Govt. School principal/	Date						Date			
Advocacy	Nodal persons from urban area	Responsible p	erson	•••••				Responsi		on	
	Orientation of Pvt. School nodal person and principals from urban area	Date Responsible p	erson					Responsi		on	
	Orientation of Religious leaders or key influencers	Date Responsible p	erson					Date Respons		on	
	Media Sensitisation	Date									
	Identified local celebrity/brand	Local celebrit	•								
	ambassador for the campaign	Activities									
Capacity	Training of block level health	Date									
Building	functionaries on Communication WhatsAnn messaging	Responsible p			v. Manth	ıly/Week	lv/Dailv				
Social Media	WhatsApp messaging Facebook messaging	Members: Yes/No:		_			<del>,, ,</del>	per of me	mbers:		
Jociai iviculd	. accadon messagmg	Frequency: M				account:	, or muniti	oci oi iile			
	Any other activity relevant for the	Date	,,	,	. ,			Date			
	district	Responsible p	erson					Respons		on	
	Please include the total no. of activities for every Block. For example total no. of BTF meeting planned under Block 1, Block 2, Block 3	District		Block 2	Block 3	Block 4	Block 5		Block 7	Block 8	Total
	PTC meeting for MD compaign		7								
	BTF meeting for MR campaign Block Core group meeting		-								
	Meeting with School principals & Nodal										
	officer (Govt.)										
	Meeting with School principals & Nodal										
Advocacy	officer (Pvt.) MR microplanning meeting (For										
	communication)  Meeting with key religious leaders/										
	influencers at block level Any other										
Capacity Building (The number of trainings planned at each level should be	Orientation of ANMs, ASHAs/AWWs (For MR campaign communication)										
ocial Media	WhatsApp messaging (whether any group is created for not)										
	Any other activity										
	Mother's meeting										
	Community/ Influencer's meeting										
	VHSNC meeting for MR campaign										
Social	Govt. school teachers orientation/ coordination  Private school teachers orientation/										
Mobilization	coordination Parent Teachers Meeting										
	Rallies	Date									
	Mosque/Temple announcement										
	IPC sessions										
<b>-</b>	Miking Handbooks for ANM		1								
Training Resource	Leaflet for FLWs										
Material	Handbooks for Teachers										
	Posters in community										
	Posters in Schools										
	Hoardings										
IEC Material	Leaflets for community										
	Information card for parents										
	Leaflets for ASHAs /AWAW										
	Leaflets for ASHAs/AWWs Leaflets for MOs										
	Booklet for Religious Leaders										
	plate will be completed by district MEIO/ IEC office				L		l				

Note: 1. This template will be completed by district MEIO/ IEC officer/ consultant (if there is no nodal staff deputed for undertaking IEC planning) in that case district immunization officer (DIO) will be responsible to complete this format in consultation with block MOIC/BEE/IEC consultant.

2. One copy of the plan needs to be retained by the person in charge of IEC/communication and one copy needs to be submitted to chief district medical officer (CDMO)/CMO before initiating the district training on MR.

3. If any activity is not applicable to your area, please write Not Applicable (NA) in that column.

4. Training material needs to reach the FLWs and Nodal Teachers as soon as possible before initiation of trainings and must be referred to during the trainings.



	Health	Facility/PHC level of	ommunicatio	n plan for MR	campaign (fo	rm no. 7D)			
Name of the dis	trict:	Name of PHC/Planni	ng unit:			Name of MO I	I/C:		
	BTF meeting for MR campaign (MOIC needs to share communication planning template with the group and discuss IEC plan of action and request support from all as per plan, he/ she should ensure to provide one copy of communication plan to CDPO/Assistant Block Education Officer for their reference in first BTF)	Date Responsible person				Date Responsible po	erson		
	Block core group meeting (Participants to include ICDS, Education, LIONS club, CBOs, NGOs and Development partners. The meeting needs to be chaired by CMO/DIO)	Date Responsible person				Date Responsible pe	erson		
Advocacy	Meeting with School principals & Nodal officer (Govt.)	Date Responsible person				Date Responsible pe	erson		
	Meeting with School principals & Nodal officer (Pvt.)	Date Responsible person				Date Responsible pe	erson		
	MR microplanning meeting (For communication) (Communication) (Communication micro plan needs to be reviewed by MOIC along with operational micro plan)	Date Responsible person							
	Meeting with key religious leaders/ influencers at block level	Date Responsible person							
	Any other activity	Date Responsible person				Date Responsible pe	erson		
Capacity Building	Orientation of ANMs, ASHAs/AWWs (For MR campaign communication)	Date Responsible person				Date Responsible pe	erson		
Social Media	WhatsApp messaging (whether any group is created or not)	Yes/No: Na members: Monthly/Weekly/Dail	me & number	of accounts & I Frequen					
	Any other activity								
	Please include the total no. of activities for every subcentre. For example total no. of mother's meeting planned under SC-1, SC-2, SC- 3 etc.	PHC/Planning unit NAME	SC-1 NAME	SC -2 NAME	SC-3 NAME	SC-6 NAME	SC-7 NAME	SC-8 NAME	Total
	Mother's meeting	À							
	Community/ Influencer's meeting								
	VHSNC meeting for MR campaign								
	Govt. school teachers orientation/coordination meeting								
Social	Private school meeting								
Mobilization	Parent Teachers Meeting								
	Rallies	Date							
	Mosque/Temple announcement								
	IPC sessions								
	Miking	NoArea	ı						
	Others (specify		<u> </u>	<u></u>					
Training	Handbooks for ANM								
Resource	Leaflet for FLWs			<u></u>					
Material	Handbooks for Teachers								<del></del>
	Posters in community								
	Posters in Schools								<del></del>
	Leaflets for community								
IEC Material	Information card for parents								
waterial	Leaflets for ANMs								
						1			
	Leaflets for ASHAs/AWWs								
	Leaflets for ASHAs/AWWs Leaflets for MOs								

Note: 1. This template needs to be completed by BEE/IEC consultant (person responsible for IEC) in their absence MIOC needs to complete this format in consultation with his/her ANM/ANM supervisors/ASHA facilitators etc.

2. This needs to be submitted to person in-charge for IEC at district level before the district training on MR Campaign and retain one copy at PHC level for record and monitoring.

3. If any activity is not applicable to your area, please write Not Applicable (NA) in that column.

4. Training material needs to reach the FLWs and Nodal Teachers as soon as possible before initiation of trainings and must be referred to during the trainings



		Sub-center lev	el communication pla	n for MR campaign (for	m no. 7E)	
			f Health Facility (CHC/PI		<u>,                                      </u>	
ASHA:		AWW: _				
		Activity		sible and number as applicable for each areas. Mention "NA" for any activity that		lla). Use multiple pages to capture for all y area.
(All a	ctvitie	s cannot be planned for all areas. Plan activity relevant to each area)	Name of village	Name of village	Name of village	Name of village
	1	Mother's meeting (if ASHA/ANM will be organizing mothers meeting, write the date and name of person who will do the meeting)	Date: Time: Person:	Date:Time:Person:	Date: Time: Person:	Date: Time: Person:
	2	Community/Influencer's meeting (if ASHA/ANM will be organizing community/Influencer's meeting, write the date and name of person who will do the meeting)	Date: Time: Person:	Date: Time: Person:	Date: Time: Person:	Date: Time: Person:
	3	VHSNC meeting for MR campaign (if ASHA/ANM will be organizing VHSNC meeting, write the date and name of person who will do the meeting)	Date: Time: Person:	Date: Time: Person:	Date: Time: Person:	Date: Time: Person:
tivities	4	the govt. schools. If there is no govt. school in the village, please write NA)	Date: Time: Person:	Date: Time: Person:	Date: Time: Person:	Date: Time: Person:
Social mobilization activities	5	Private school meeting (MOIC along with MO, ANM and headmaster/principal should organize orientation of all the nodal teachers from the pvt. Schools. If there is no pvt. school in the village, please write NA)  Parent Teachers Meeting	Date: Time: Person:	Date: Time: Person:	Date: Time: Person:	Date: Time: Person:
Social mo	6	Parent leacners Meeting (Principals/headmasters in coordination with MOIC and ANM with help from local ASHA can brief private school teachers If there is no govt. or pvt. school in the village, please write NA)	Date: Time: Person:	Date: Time: Person:	Date: Time: Person:	Date: Time: Person:
	7	Rallies (ANM to plan rallies in coordination with School principals/headmasters Groups like RKSK, NCC, and scout guide, NYK, RWA, civil defence can be included)	Date: Time: Person:	Date: Time: Person:	Date: Time: Person:	Date: Time: Person:
	8	Mosque / Temple announcement (ASHA/ AWW to fix up a meeting of MOIC with religious institutions, meet the respective maulvi or pandit with clear messages for MR and request them to announce one day before, as well as during the vaccination session in their area. Please write NA if not applicable)	Date: Time: Person:	Date: Time: Person:	Date: Time: Person:	Date: Time: Person:
	9	IPC sessions (ASHA and AWW must undertake house to house visits supported by ANM/MOIC in case of resistant families. ASHA can also provide available leaflets for more information)	Date: Time: Person:	Date: Time: Person:	Date: Time: Person:	Date: Time: Person:
		Others (specify) (MOIC can discuss with health staff and plan appropriate activities. E.g. miking, which can increase the acceptance of MR vaccination in the community)	Date: Time: Person:	Date: Time: Person:	Date: Time: Person:	Date: Time: Person:
თეფ. <del>-</del>	Ļ	Training Resource Material (Must be available befor	e the trainings)			
Training	Material	ANM Handbook @ 1 handbook per ANM): FLW leaflet @ (1 leaflet per FLW) Teacher Handbook (2 handbooks per school)	ANM Handbook: Leaflet for FLW: Teacher Handbook:	ANM Handbook: Leaflet for FLW: Teacher Handbook:	ANM Handbook: Leaflet for FLW: Teacher Handbook:	ANM Handbook: Leaflet for FLW: Teacher Handbook:
	11	Posters in Community  (ASHA/ANM must calculate how many posters are required for the community/village. Minimum 5 posters per ASHA)				
	12	Posters in Schools  (ASHA/ANM must calculate how many posters are required for the schools - govt. & pvt. Minimum 2 posters per school)				
IEC Material	13	Leaflets for Community (ASHA/ANM must calculate how many leaflets are required for the community/village. The leaflets should be distributed to community members, caregivers, elected representatives, local leaders and other influencers. Minimum 10 leaflets per ASHA)				
	14	Information card for Parents (ASHA/ANM must calculate how many leaflets are required for the school. The calculation must be 1 leaflet per family. ANM should approach school administration and provide sufficient number of leaflets for circulation among the parents atleast 10 days prior to the campaign)				



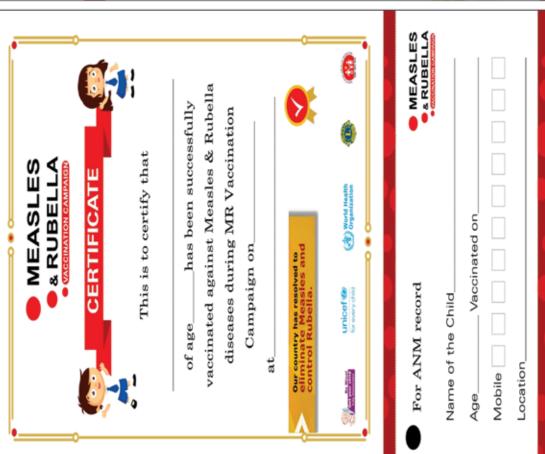


		1	П Т		т —				_	_			_	_
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		Tisiv 121 to 9miT												
MR Campaign FORM - 8A		Name of session site 4												
		Tisiv bnS to 9miT												
		Tisiv 1st 1o 9miT												
		Name of session site 3												
		Tisiv bnS to 9miT												
	an ii	Tisiv 1st 1o 9miT												
	Measles-Rubella Campaign Year Planning Unit Supervisor Plan Planning Unit:. Designation:	Name of session site 2												
	Meas	Tisiv bnS to 9miT												
		Tisiv 121 to 9miT												
	District:	Name of session site 1												
	upervisor:	Name of the area												
	State:	Date												
	State: Name o	Campaign day number												

									MR	MR Campaign FORM - 8 B	M-8B	_
				Measle	Measles-Rubella Campaign Year	ign Year						
					District-level Supervision Plan	pervision Pla	<b>c</b>					
tate:_		ı					District:					
		O ste		Date:		Date:		Date.		Date.		
			Details of Planned visit		Details of Planned visit		Details of Planned visit		Details of Planned visit		Details of Planned visit	
r No.	Name and Designation of District Level Supervisor	РНС	Village(s) - (R/HRA-P)*/ Schools	ЭНС	Village(s) - (R/HRA-P)*/ Schools	ЭНА	Village(s) - (R/HRA-P)*/ Schools	DHG	Village(s) - (R/HRA-P)*/ Schools	Эна	Village(s) - (R/HRA-P)*/ Schools	1
												т -
	* (R/HRA/P) R-Regular, HRA-P-High Risk Area-Population	rea-Population										1

MEASLES • & RUBELLA • INITIATIVE







HEALTH



### MR Information Card

be introduced nationwide through campaign in schools and outreach sessions. This will be followed by inclusion of MR wocine in Routine Immunization, it is important that all children in the age group of 9 months to less than 15 years get the MR vaccine shot irrespective of the immunization status for meastes/rubella (whether they have been Measles-rubella (MR) vaccine which provides protection from measles and rubella will vaccinated with MMR/MR vaccine or not).

Rationale: For measles elimination and rubella control, children in the age group of 9 months to less than 15 years need to be immunized to knock out the diseases.

### MEASLES:

disease, which spreads through virus. Measles causes disability and untimely death of children. Measles is a life-threatening

Syndrome (CRS), which can be greatly harmful for the in her pregnancy, it can result in Congenital Rubella Rubella is an infectious disease caused by virus. It has measles like symptoms. It infects both boys and girls. However, if a woman gets infected early fetus and newborn child.

### Important Points to Remember >

- All children of 9 months to less than 15 years must get vaccinated with this vaccine during this campaign.
- This vaccine will be given in all schools, community sessions, anganwadi centers and government health centers. 0
  - The child should be given this vaccine, even if he/she has already been given the MR/MMR vaccine earlier. 0
    - MR vaccine is very safe and does not cause any severe side effects.
       The children will be vaccinated by a trained health worker.
       Ensure your participation in this campaign.

Our country has resolved to eliminate Measles and



Please bring your children of 9 months to less than 15 years of age to the MR vaccination campaign site.

## To know more about the vaccine, contact your ANM, ASHA or Anganwadi worker OR email et: mrcampaignindia@gmail.com









					Me	easle	s-Ru	ıbell	a Ca	mpa	ign \	/ear										MR Campa	aign FORM	- 10
										VA	CCII	NAT	OR	TAL	LY S	HEE	T							
State				Dis	trict:					Blo	ock/Ur	rban _				Pla	anning	រូ Unit:	:			Da	ite:	
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	Age Group		Tick (	<b>√</b> )1	box fo	r each	child	vaccir	nated	(Male	)	Т	ick ( 🗸	) 1 bc	x for e	each c	hild va	accina	ted (F	emale	<u>=</u> )	Total (M)	Total (F)	Total
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	< 5 years	11	12	13	14	15	16	17	18	19	20	11	12	13	14	15	16	17	18	19	20			
		21	22	23	24	25	26	27	28	29	30	21	22	23	24	25	26	27	28	29	30			
	months	31	32	33	34	35	36	37	38	39	40	31	32	33	34	35	36	37	38	39	40			
	6	41	42	43	44	45	46	47	48	49	50	41	42	43	44	45	46	47	48	49	50			
	ars	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10			
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	5 years - < 10 years	31	32	33	34	35	36	37	38	39	40	31	32	33	34	35	36	37	38	39	40			
	r,	41	42	43	44	45	46	47	48	49	50	41	42	43	44	45	46	47	48	49	50			
	ars	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	<b>j</b>		
	- < 15 years	11	12	13	14	15	16	17	18	19	20	11	12	13	14	15	16	17	18	19	20	<b>j</b>		
	s - < 1	21	22	23	24	25	26	27	28	29	30	21	22	23	24	25	26	27	28	29	30			
	years	31	32	33	34	35	36	37	38	39	40	31	32	33	34	35	36	37	38	39	40			
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	ber of childr		ot rece	eived N	MR va	ccines	with ı	reasor	ns (Tal	lv Mai	rking):													
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No o	f AEFI	Serio	us:	1. Dea	aths		2. Hos	spitaliz	zations	S	3. Clus	sters		4. Coi	mmun	ity cor	ncern		5. Dis	ability	'	Total:		
cases	during			1. Se	vere l	ocal r	eactio	ons		2. Fev	er ove	r 102 c	legree	!S		3. Se	izures	which	were	not h	ospita	lized		1
tne c	ampaign)	Sever	e=:		4. An	y othe	r:								-							Total		
	Name of AV	VW/A	SHA/	volunt	eers:													Name	, desi	gnatio	n, sigr	nature of su	pervisor & t	time
	1																	1				T	Гіте	-
	2																	2				7	Гіте	_
	3																							
	must follow to																							
Use o	ne new dispo	osable	mixing	g syring	ge to re	econsti	tute or	ne vial.	Use th	e whol	le conte	ent of tl	he dilu	ent tha	at is ma		tured b	y same	e manu	ıfactur	er for I	MR vaccine f	or reconstitu	ition. The 5 ml
	stitution/mixi ot clean the in		-														yringe	at 45 c	degree	angle i	in the	right upper a	arm.	
	ot touch the n hildren / care													be cut	in the	hub cu	tter im	ımedia	tely af	ter vac	.cinatic	ın.		
Disca	rd reconstitut	ted vac	ccine a	fter 4 h	nours o	r at en	d of se	ssion w	vhichev	ver is e	arlier.			a tha a	roschi	illagos								
*Seve	ere AEFIs: The	ese are	Minor	r AEFIs	with h	nigher o	degree	of sev	erity (s	such as	very h	igh fev	er, loca					d near	est joir	nt, min	or AEF	Is which pe	rsist beyond	2-3 days of
vaccir	nation, etc.) o	r AEFI:	s requi	iring ho	ospital	isation	but no	ot hosp	italise	d due t	o any r	eason.	) 🗈											



		Measles-Ri	ubella Campaign Yea	r	MR Campa	aign FORM	- 11	
			eck-list for Superv					
Name	of the	Supervisor:	State:	13013	District:			
Block/	/Urbar	n: Planning unit: _	Date:		Site 1	Site 2	Site 3	Site 4
	1	Name of the site visited						
	2	Type of site (Urban ward (U) / Rural area	(R) / Educational Instt (E) / Hi	gh Risk				
		Area/Population(HRA/P)						
		Is this site as per microplan? (Y / N)						
		Are all vaccinators available as per microp						
	5	Are other team members as per micropla						
		Does the vaccination site have visible IEC						
		Are team members managing the crowd		(V / NI)		-		
a	8	MR vaccine and diluents are stored in vac						
Observe	9 10	Vial in use is kept in the well of icepack ou Time of reconstitution is noted on the lab		' IN)		-		
SqC	11	Diluent is kept cool in vaccine carrier before	, , ,					
Ŭ		Only one vial is reconstituted at a time? (	, , ,					
		Whole of diluent is used for reconstituting	•					
		Vaccinators administering the vaccine thr		/ N)				
		Vaccinators administering the vaccine into		-				
	16	Syringe needle remains untouched during	reconstitution, drawing and					
	10	administering vaccine? (Y / N)						
		Tallying is done immediately and correctly		(Y / N)				
		Vaccinators following "no recapping" pro						
		Used syringes are being cut using hub cut						
		How was vaccine distributed for the sessi		ANM)				
e s	21	Does the vaccination site have all necessa Is a functional hub cutter available at sess	, , , ,					
ν th ator	22	Are AEFI reporting forms present at the si						
vie cin		Are the vaccinators aware the process to		us AEFI				
Interview the Vaccinators	24	(primary care, referral and reporting)? (Y						
<u>-</u> -	25	Vaccinators mobilizing children through h	ouse visit? (Y/N) (NA for scho	ool phase)				
	26	Adequate MR vaccine vial present at the	site? (Y / N)					
	26	(1 vial contains 10 doses = for approximat	e estimation of adequacy)					
	27	Adequate AD syringe (0.5 ml) is present a	t the site? (Y / N)					
		Are Ice packs inside the vaccine carrier co	<u> </u>					
>	29	Is VVM (vaccine vial monitor) in usable st	age? (Y / N)					
Verify	30	Adequate reconstitution syringe (5 ml) av						
>	31	Are MR vaccine and diluents from the san	, , ,					
		Are MR vaccine, diluents and syringes all		L t				
	33	Do the number of vials used and beneficia	aries vaccinated as per tally si	neet				
	34	match reasonably? (Y / N)  Does this school require repeat session ac	ctivity? (Y / N)					
CO 1 4 1	AFNITO	AND ODCEDVATIONS:						
COIVII	VIEIVIS	AND OBSERVATIONS:						
Super	visor s	hould visit the area where campaign was o	done on previous day. S/he sh	ould surve	v at least 20	) household	ls across the	village /
-		(including areas which are isolated or on t			-			_
				1			T	
		Name of site visited		Site 1	Site 2	Site 3	Site 4	Total
	اد	Number of households visited		1	1	<del>                                     </del>	1	1
	a)	Trainible of Households Visited					1	
	b)	Number of 9 months to <15 years aged ch	nildren in those households					
	ر)	Number of children found not vaccinated	in campaign	1				
		Percent of unvaccinated children (c/b x 10						
		Does this area require repeat acivity		Y / N	Y / N	Y / N	Y / N	Y / N

If, out of 20 children, 1-3 are found "'missed" (unimmunized) at a site, request the guardians to take their children to the nearest site where vaccination is going on today. If 4 or more children (out of 20) are found unimmunized at a site, then immunization activity should be repeated for such area.



AEFI cases reported Severe Serious syringes returned No. of unused P No of unopene No. of AD syringes nsed No. of schools where one or more sessions NOT held today d MR returned Vials vials Opened No. of MR Vaccine Day of Activity (encircle): 1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18 Name of Supervisor: Total 3.1 am satisfied with the overall activity in my area: Yes/ No (If No please give reasons in a separate sheet of paper highlighting reasons and add to this sheet) Block/Urban:\_ **Total Number** ш Σ Total 2.1 distributed additional MR vaccine / syringes / Ice packs to team/s during my supervisory visit: Yes/No (If Yes: Which teams 10 y to < 15 yш. Vaccinated children No. of mobile team sessions sessions NOT held today Daily Supervisor Repor No. of schools where all planned sessions held today Σ Measles-Rubella Campaign Year Total No. of outreach sessions NOT held today This form should be compiled by the respective supervisors using data from respective tally sheets. 5 y to < 10 y ш. Σ District: Total 9 m to < 5 y <u>.</u> Σ Session site type (Health facility/ Outreach/School) I. How many immunization centers were visited? No. of mobile team sessions planned today No. of schools/institutions planned today No. of outreach sessions planned today FOTAL in Sector / supervisor area Session Site Name Planning unit: Date: \_\_/\_ Team no. Sub-total Sub-total State: Health facility/ Outreach/School mobile teams

### MEASLES &RUBELLA

MR Campaign FORM - 12

							Me	Measles-Rubella Campaign Year	ubella	Campa	ign Ye	ē 									MR Car	MR Campaign FORM - 13		
										础	annin	g Unit	Planning Unit Report	Ę										
Ñ	State:				_	Block/urban:	au:					•	Planning unit:	ij					Fotal target	Total target of the Planning Unit:	g Unit:			
Δ	Date:	Day of Ac	tivity (En	Day of Activity (Encircle): 1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18	2/3/4/5	6/8/1/9/	/10/11/1	2/13/14/	15/16/1	/18														
						>	accinated	Vaccinated children										No. of	No. of schools/institutions	itutions	No. of o	No. of outreach sessions	AEFI cases	AEFI cases reported
č				ŀ						ŀ			1		~	No. AD	No. of AD		whereall	where 1 or				
ž ž	Name of Supervisor	Age:	Age: 9 m to < 5 y	5 у	Age:	Age: 5 y to < 10 y	.0 у	Age: 1	10 y to < 15 y	.5 y	Gr	Grand total	Σ					planned	planned	more	planned			
2		Σ	F	Total	Σ	н	Total	Σ	ч	Total	Σ	ш	Total	Opened	returned	nseq		today	sessions held today	sessions NOT held today	today	NOT held today	Serious	Severe
a Sı	Sub-total																							
Mobil	Mobile Team coverage details												•										ı	
						>	accinated	Vaccinated children													No. of m	No. of mobile team sessions	AEFI cases	AEFI cases reported
Sr	Name of Supervisor			•			ŀ			ŀ			- 2	No. of No.	No. of MR	No. AD	No. of AD							
Š	Desire of the second	Age:	Age: 9 m to < 5 y	5 у	Age:	Age: 5 y to < 10 y	.0 у	Age: 1	10 y to < 15 y	.5 y	Gr	Grand total	0		-		returned				planned	NOT held today	Serious	Severe
		Σ	F	Total	Σ	ч	Total	Σ	F	Total	Σ	F	Total								today			
																		Do not en	Do not enter any data in this cell	in this cell				
P S	Sub-total																							
C To	Total for today (a+b)																							
ت ت	Cumulative total till																							
ی ن	Cumulative total till today																							
1	(5.5			1			Ì			Ì			l											

Name and Signature of MO in-charge



State:				District:				Measl	es-Rube	Measles-Rubella Campaign Year District Report	Campaign Year District Report									MR Cam	MR Campaign EORM - 14	- 14	
Date:				Day of A	ctivity (enci	ircle): 1/2/	3/4/5/6/7,	/8/9/10/11,	'12/13/14,	Day of Activity (encircle): 1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18	<b>80</b>												
								Vaccinat	Vaccinated children					<u> </u>	al of ON		No. of	No. of schools/institutions	tions	No. of outreach sessions	ach sessions	AEFI cases reported	reported
Sr No	Name of Planning unit	Target	Ą	Age: 9 m to < 5 v	× 5 ×	ğ	Age: 5 v to < 10 v	10 v	Ag	Age: 10 v to < 15 v	\{\cdot{5}\	Ğ	Grand total		vaccine	No. AD syringes	pounelu	where all	where 1 or	bennela	MOTheld		
			Σ	ш	Total	Σ	<u>"</u>	Total	Σ		Total	Σ		Total	Opened	nsed		73	sessions NOT held today	today	today	Serious	Severe
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							Ц	Ц				Ħ	H	H									
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							Ц	Ц						H									
					$\downarrow$		1							$\dagger$									
	Sub-total																						
Aobile	Mobile team coverage																						
								Vaccinat	Vaccinated children					Z	No. of MR	No. AD				No. of mobile	No. of mobile team sessions	AEFI cases reported	reported
Sr No	Name of Supervisor	Target	Å	Age: 9 m to < 5 y	< 5 y	¥	Age: 5 y to < 10 y	10 y	Ag	Age: 10 y to < 15 y	15 y	Ģ	Grand total		vials	syringes				planned	NOT held		
			Σ	ш	Total	Σ	ш.	Total	Σ	ш	Total	Σ	ш	Total	Opened	n n n				today	today	Serions	Severe
					Ц									H									
										Ī							Do not en	Do not enter any data in this cell	this cell				
												l	ŀ										
														H									
Ĺ	Sub-total																						
	Total for today (a+b)																						
	Cumulative total till previous day																						
	Cumulative total till today (c+d)	_	_																				
his fa	This form should be compiled by the district data handler using data from respective block reports.	district date	ı handleı	r using d	ata from ı	respective	e block re	ports.															
											Name	Name and Signature of Chief Medical Officer	of Chiof	Modical	Officer								



Since	State:						_	Measles-Rubella Campaign Year State Report	Rubella St	a Campaign State Report	gn Year _ ort									MR Campaig	MR Campaign EORM - 15		
No. of MR   No.	Date:/						Day of Acti	vity (encirc	e): 1/2/3/ <sup>2</sup>	/8/4/9/5/	9/10/11/12	2/13/14/15	/16/17/18	_									
P   Total   M   F   Total								Vaccin	ated chile	dren					No. of MR	No. AD	No. of s	chools/inst	itutions	No. of ou sessi		VEFI cases r	eported
F   Total M   F   Total	Nam	e of Districts	Target	Δσο	of m 6	2 2	Age: 5 v 1	v < 10 v	Δσφ.	) v to < )	7 2 1	ē	and tota		Vaccine vial	syringes	planned		or more	planned			Severe
F Total M F Total   Mo. of MR Vo. AD   No. of MR Vo. do   No. of MR				Σ	-	Total	M	F	Σ	-	Total		ı		obelled	nsed	today	sessions held	sessions NOT	today			
Second   S																							
itildren  itildr																							
ie: 10 y to < 15 y  F Total M F Total  P Total M Grand total  Opened used  Do not enter any data in this  cell																							
No. of MR   No. AD   No. of MR   No. AD   Planned   No. of MR   No. of M																							
ie: 10 y to < 15 y  F Total M F Total  P Total M F																							
No. of MR   No. AD   No. of MR   No. AD     No. of MR   No. MD     No. of MR																							
No. of MR   No. AD   No. of MR   No. AD   Parche vial   Syringes	Sub-total																						
No. of MR																							
No. of MR	Mobile team coverage	/erage																					
F   Total   M   F   Total   Opened   Used   Do not enter any data in this   Cell   C	2	1	ŀ					Vaccin	ated chile	lren					No. of MR	No. AD				No. of mob	_	VEFI cases r	eported
F Total M F Total Creace Used  Do not enter any data in this cell	Nam	le ot Districts	larget	Age	9 m to <	5 у	Age: 5 y 1	o < 10 y	Age:	10 y to < ?	15 y	ij.	and tota		Vaccine vial	syringes				planned			Severe
				Σ	ч	Total	Σ	F	Σ	F	Total	Σ	ш	Total	3	nsea				, moon	today		
																	Do not e	nter any da	ta in this				
av (a-b)     cotal till forday (c-d)																		cell					
ay (a-b)     cotal till forday (c-d)																							
ay (a-b)     ay (a-b)       cost till forday (c-d)     ay (a-b)																							
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by (4-b)       Cotal III III Previous day     (2-d)	Sub-total																						
Oats till in revious day         (= 1)         (=	Total for today (a+b)	lay (a+b)																					
(c+d)	Cumulative t	Cumulative total till previous day																					
	Cumulative t	otal till today (c+d)																					
										_	Name and	Signatur	a of Chie	f Medical	Officer								
Name and Genstine of Chief Medical Officer											אמווב מווי	Jignara	5	NICAICA	Olitei								Ī



																			MR Camp	MR Campaign EORM - 16	1-16	
			Ë	Measles-Rubella Campaign Year Final Consolidated Report of Planning Unit / District / State	Measles-Rubella Consolidated Repo	ella Can Report c	Campaign Year ort of Planning	ear ng Unit	/ Distric	_ t/State	•											
State:			District:			ı	Pla	Planning Unit:_			Date	Date of report:										
							Vaccinated children	children								No. of sc	No. of schools/institutions	utions	No. of outreach sessions		AEFI cases reported	reported
Name of Diamana								5						No. of MR	No. AD		_	where 1				
Name of Planning Unit/District	Target		9 m to < 5 y	,	5	5~y~to < 10~y	,	10	10 y to < 15 y	,	9	Grand total		vaccine vials	syringes	planned			planned	NOT held		
		Σ	ш	Total	Σ	ш	Total	Σ	ш	Total	Σ	ш	Total	obened	nseq		sessions s held N today	sessions NOT held today	today		Serions	Severe
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Mobile Team coverage																						
395																		ŕ	No. of mobile team	_	AFEI cases reported	ported
Name of Planning	Target						Vaccinated children	l children						No. of MR	No. AD				sessions	_	re resea	ne node
Unit/District			9 m to < 5 y	,	2	5~y~to < 10~y	,	10	10 y to < 15 y	,	9	Grand total						о.	today today		Serions	Severe
		M	L	Total	M	Ŧ	Total	Σ	L	Total	Σ	L	Total						-	ì		
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Sub-total																						
TOTAL in State																						

Name and Signature of MO in-charge / DIO / SEPIO



	Acti	vity date:// Measles-Rubella Campaign: Session	Site Checklist	for Monitor	s n	/IR Campaign FO	PRM - 17
State:		District: Block/Urban Area:	s	etting: Urban ,	/ Rural ;		
Village	e/Mol	halla/Ward: High Risk Area: Yes / No; Monitor	:		Designatio	n:	
_		on: Govt / WHO / UNICEF / UNDP / CORE /JSI / LIONS International / Rotary / IFV / FM	Serial/Team No as per microplan				
П	1	Name of the session site visited					
ral atio	2	Setting: ENCIRCLE - R = Rural area / U = Urban		R/U	R/U	R/U	R/U
General formatic	3	Type of session site: School (E) / outreach (O) / Health Facility (H) / Mobile (I	M)	E/O/H/M	E/O/H/M	E/O/H/M	E/O/H/M
General Information	4	If school: Govt school (G) / Pvt School (P) / Religious school (R) / Creches (C) / Others (O) such as orphanages, juvenile homes, correction centr	re, etc	G/P/R/C/O	G/P/R/C/O	G/P/R/C/O	G/P/R/C/O
	5	Is this a High Risk Area (HRA) ?		Y/N	Y/N	Y/N	Y/N
Area and Manpower	6	Is this site located as per micro plan?		Y/N	Y/N	Y/N	Y/N
Area and Manpowe	7	Adequate vaccinators assigned to this session as per number of beneficiaries?		Y/N	Y/N	Y/N	Y/N
Are Aar	8	Are all vaccinators available as per micro plan?		Y/N	Y/N	Y/N	Y/N
` ~	9	Are all mobilizers as per micro plan?		Y/N	Y / N	Y/N	Y / N
5		Adequate MR vaccine vial is present at the site?					
tic	10	[Adequate = (target x 1.11)/10 for school sites and ~ 50% of this for outreach	sites?1	Y/N	Y/N	Y/N	Y/N
gigi		Adequate AD syringe (0.5 ml) is present at the site?					İ
Vccine and other logistics	11	[Adequate = target x 1.11 for school sites and ~50% of this for outreach sites?	1	Y/N	Y/N	Y/N	Y/N
the		Adequate Reconstitution syringe (5ml) is present at the site					
р	12	[Adequate = No. of Measles-Rubella vaccine vial supplied]		Y/N	Y/N	Y/N	Y/N
au	13	Is a functional hub cutter available at session site?		Y/N	Y/N	Y/N	Y/N
ine							
Λcc	14	Is indelible marker pen available with each vaccinator of the team?	- hl 2	Y/N	Y/N	Y/N	Y/N
	15	Number of vials used and children vaccinated as per tally sheet match reasonates the second s	abiyr	Y/N	Y/N	Y/N	Y/N
and	16	Is the vaccine delivered by Alternate vaccine delivery mechanism?		Y/N	Y/N	Y/N	Y/N Y/N
vaccine a	17	MR vaccine and diluents are stored in vaccine carrier (with 4 ice packs)		Y/N	Y/N	Y/N	'
ccir d ct	18 19	MR vaccine and diluents are made of same manufacturer?  MR vaccine, diluents and syringes are all within date of expiry?		Y/N Y/N	Y/N Y/N	Y/N Y/N	Y/N Y/N
va	20	Is there any vial in unusable stage inside the vaccine carrier?		Y/N	Y/N	Y/N	Y/N
MR vaccine and cold chain	21	Were the diluents supplied inside the vaccine carrier?		Y/N	Y/N	Y/N	Y/N
-	22	Only one vial is reconstituted at a time?		Y/N	Y/N	Y/N	Y/N
	23	Whole of diluent is used for reconstituting a vial?		Y/N	Y/N	Y/N	Y/N
Ses	24	Time of reconstitution is noted on the label of the vial		Y/N	Y/N	Y/N	Y/N
ij	25	Reconstituted vial is kept in the well of ice pack?		Y/N	Y/N	Y/N	Y/N
pra	26	Is the vaccinator recapping the needle?		Y/N	Y/N	Y/N	
on	20		wing and	T / IN	1 / IN	T / IN	Y/N
ecti	27	Is ANM touching the needle of the syringes anytime during reconstitution, dra	iwilig allu	Y/N	Y/N	Y/N	Y/N
inje	20	administering vaccine to the child? (Not following aseptic technique)  Vaccinators administering the vaccine through subcutaneous route		Y/N	Y/N	Y/N	V / N
ors	28	Vaccinators administering the vaccine to the right arm?		Y/N	Y/N	Y/N	Y/N Y/N
Vaccinators injection practices	30	Used syringes are being cut using hub cutter immediately after use?		Y/N	Y/N	Y/N	Y/N
cci	31	Tally sheet marking being done after vaccinating each child		Y/N	Y/N	Y/N	Y/N
Va	32	Is the team marking left thumb after vaccinating the child?		Y/N	Y/N	Y/N	Y/N
	33	Is the child/caregiver being provided with vaccination certificate after vaccina	tion?	Y/N	Y/N	Y/N	Y/N
-				·			· ·
	34	Does the team have AEFI management kit? (If No - Immediately ALERT Senior Offi	icial)	Y/N	Y/N	Y/N	Y/N
Bt	35	If yes, does the kit have adrenaline and insulin syringes?		Y/N	Y/N	Y/N	Y/N
≥		(If No - Immediately ALERT Senior Official)		,	· '	,	,
AEFI Mgt	36	Does the vaccinators know what to do in case of a serious AEFI (primary care, referral and reporting)?		Y/N	Y/N	Y/N	Y/N
	37	Does the vaccinator know the contact number for referral transport?		Y/N	Y/N	Y/N	Y/N
		·					
_ ,2	38	Has this school identified separate vaccination and observation room/area?		Y/N	Y/N	Y/N	Y/N
School Specific	39	Children who are absent or did not receive MR vaccine being noted?		Y/N	Y/N	Y/N	Y/N
Scl Sp	40	Did the school receive info kit for teachers/parents prior to the campaign?		Y/N	Y/N	Y / N	Y/N
	41	Senior students / MR monitors assisiting the activity today?		Y/N	Y/N	Y/N	Y/N
n	42	Does the vaccination site have visible IEC (Banners/Posters)?		Y/N	Y/N	Y/N	Y/N
Mobilization &	43	Whether social mobilization is being done by house visits to invite beneficiarie (Encircle: NA for school phase)	es?	Y/N/NA	Y/N/NA	Y/N/NA	Y/N/NA
Mo	44	Did the 1st line supervisor visit this site at least once today?		Y/N	Y / N	Y / N	Y/N
		1		. ,	. ,	,	.,

Comments:



RCM Date:// MR Vaccination Campaign: Rapid Convenience Monitoring (RCM) in the area	n Cam	oaign:	Rapi	d Con	venie	nce M	onito	ring (F	3CM)	in the	area					_	AR CAMI	PAIGN F	MR CAMPAIGN FORM - 18		
State:District:	Blo -	Block/Urban Area:	าก Area				_ Village	e/Moha	Village/Mohalla/Ward:	  -					High Risk Area: Yes / No	Area: \	es / No				
Setting: Urban / Rural; Activity date:// M	Monitor:								Designation:	tion:											
Type of monitor: National / State / International / Partners; Organization: Govt / WHO / UNICEF / UNDP / CORE /ISI / LIONS International / Rotary / IFV / FM - IPE / SM Net IPE / Others  1. Conduct RCM in catchment areas where MR campaign school and outreach sessions have already taken place. Use one format for only one area. Try to identify missed areas - such as farthest from the vaccination site. segregated	s; <b>Organ</b> nool and o	ization: utreach	Govt /	WHO /	UNICEF	/ UNDP taken p	/ CORE	/JSI / LI	ONS Int ormat fo	ternatio or only o	nal / Ro one are	tary / I a. Try 1	FV / FIV to ident	I - IPE /	SM Net ed area	IPE / OI s - such	thers as farth	nest fro	m the va	ccinati	on site, segregate
groups through house visits by assessing varieties of oldest eligible children in the age group of 9 month to below 15 years.  Methodology: Go the centre of the and pick up a direction by the spin of a pen. Chose the first house closest to you in the identified direction. Talk to the parents and Identify the oldest eligible child available in the household, assess MR vaccination may have to visit more than 20 houses if any of the household, associated and of the parents are an expensively accomplicated and of the households are also associated and the parents are an expensively associated and of the households are also associated and the parents are an expensively associated and the parents are an expensive the parents are an expen	n status c ection by t marking,	f oldest the spin vaccina	eligibl of a pe tion cal	childre n. Chos d and/c	en in the e the fir or recall.	s age grast hous	oup of 9 e closesi ) housek	month t to you nolds se	to belo in the i	w 15 ye dentifie andom	ars . ed direct ly sprea	ion. Ta ding ac	lk to th ross th	e paren e catchr	ts and le	dentify ea. Mor	the olde	est eligii ıy have	ible chilc to visit r	l availa nore th	ble in the
or the households does not have any engoine children.  2. If upto 3 children are found unvaccinated, connsel parents to get in touch with local health worker/facility for MR vaccination. (Note the name of the child, contact no. and addresss on back of format)  3. If upto 3 children are found unvaccinated, immediately report to the Supervisor/ Medical Officer for repeat session in last week of campaign.  4. If any AEPI is noticed, advise national paraget hat hat facility/AEPI management-treatment centre. Also renort AEPI is noticened authority.	s to get in report to	touch v the Sup	vith loc vervisor	al healt! / Medic	al Office	r/facilit er for re	ch with local health worker/facility for MR vaccination. (Note the name c Supervisor/ Medical Officer for repeat session in last week of campaign. management-treatment rentre. Also renort AFEI to concerned authority	vaccini ssion in	ation. (National last wee	Note the	e name impaign	of the c	child, co	intact n	o. and a	ddress	s on bac	k of for	mat)		
Children Assessment Table:	1	2	3	4	2	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20 To	Total
A).Child received vaccine during MR campaign ? (V/N) If not then record the reasons for non-vaccination in the table at the	41																				Number of children checked:
bottom and write name & address on the backside of the format																					Count of Y:
Resson as mentioned by the caregiver/parents for "Why was their child not vaccinated with MR vaccine during the campaign?" Put a tick against most important resson(s). "Multiple options (Max-4) allowed"	/accinated w	ith MR va	ccine du	ing the ca	mpaign?"	Put a tick	k against n	nost impo	ortant reas	son(s). "N	1ultiple op	tions (M	ax-4) allo	wed"				-		70	Total
1. Not aware of MR campaign / session																					
2. Parents didn't give importance / Not aware of need for immunization / Concern for loss of work or wages;																					
3. Family refused MR vaccination																					
4. Scared of Injection																					
5. Child was sick																					
6 Doctor did not advise for MR campaign dose (NOTE name, address and contact No of the doctor on back of format)																					
7. Inconvenient time / location / distance / waiting time																					
8. We went but vaccination not provided - no vaccine/vaccinator																					
Fear of AEFI based on experience (fever, pain, swelling, hospitalization, death, disability)																					
10. Negative media reports / social media / rumour																					
11.Child had gone to school /field / market (If school - note name and address of the school)																					
12.Child was traveling away from home																					
13. Others																					
B). How did the family come to know about campaign? (Mention code from below) "Multiple options - (max4) allowed "																				8	Count of codes:
1=From Health worker/ASHA/AWW before campaign, 2=News paper/Poster/Banner, 3=T.V./Radio/Miking, 4=Social media - WhatsApp/Twitter/facebook; 5=School / Teachers throgh PTM, dairy or mail/web site, 6=Through session 7=Family/Friends 8= Not aware before campaign	anner, 3=T.\	'./Radio/N	Aiking, 4=	Social me	dia - Wha	tsApp/Tw	itter/facek	ook; 5=5	chool / Te	achers th	rogh PTM,	dairy or	mail/web	site, 6=T	rough se	sion 7=Fa	ımily/Frie	spu			
C).Did the child develop any discomfort after vaccination? (Write -Y / N)																				8	Count of codes:
D). If yes, record the event from codes given below* (MONITOR shoud NOT prompt) "Multiple options - (max4) allowed"																					
* 1 = Pain; 2= Swelling; 3= Excessive crying; 4= Fainting; 5=Vomitting 6= Pain abdomen; 7= injection site abscess; 8=any condition requiring hospital admission; 9= Others	abdomen; 7=	injection	site absc	ss; 8=any	condition	requiring	hospital a	dmission;	9= Others	s											



### Annex 12: Do's and Don'ts during Measles-Rubella Campaign Sessions

### Dos Don'ts **Vaccination schedule** give MR vaccine to all children who have do not withhold a child from being vaccinated in completed 9 months of age and below 15 years. case of mild illness, as cold, cough, diarrhea or mild fever (102 °F or less), or malnutrition ask parents to bring the child for routine dose of MR vaccine after 4 weeks, in case it is due as per do not vaccinate if child has history of high fever or RI schedule. severe allergic reaction or is hospitalized. **Cold chain** • do not keep the vaccine carrier in direct sunlight or ensure use of conditioned ice packs open the lid of vaccine carrier frequently. check that both diluent and vaccine are from the same manufacturer. do not use vaccine with VVM in unusable stage even if the vaccine is still within expiry date. use vaccine and diluent only with usable stage of do not use vaccine with VVM in usable stage if the VVM and within expiry date. expiry date has been reached. keep the vaccines and diluents inside the vaccine carrier with lid always closed at session sites do not keep expired vaccines or vaccines at (stage 3 and beyond) inside the cold chain. take one ice pack from vaccine carrier and keep do not keep the reconstituted vaccine on the table reconstituted MR vaccine in the well of the conditioned ice pack to maintain temperature of without icepack. +2 to +8 °C. Vaccine handling and administration use a new AD syringe for each injection and new do not use reconstituted vaccine beyond 4 h of disposable syringe for each reconstitution. reconstitution. use entire amount of diluent for reconstitution of do not carry and use reconstituted vaccine from one session site to another; it increases risk of the vaccine. contamination leading to TSS. write the date and time of reconstitution on label do not reuse disposable syringe or needle for of MR vaccine. reconstitution; it can lead to infection with HIV, inject MR vaccine by subcutaneous route in right hepatitis B or hepatitis C. upper arm. do not draw air into AD syringes. explain potential AEFIs and what to do. do not recap / bend or touch any part of the needle. ask beneficiary to wait for 30 mins after injection the session site. do not pre-fill AD syringes with vaccine. Waste management Cut the hub of the AD syringe in hub cutter Do not keep the used syringes and needles on the table immediately after administering the injection. or floor; it increases risk of injury and infection to the Dispose off the plastic part of the cut AD syringe in beneficiaries / caregivers. red plastic bag. **Recording and reporting** Mark the cuticle of left hand thumb of child. Do not mark tally sheet before or in the evening after Mark tally sheet immediately after vaccination. the vaccination; it can lead to inaccurate recording and Record each immunization in the immunization card. reporting of data. Adverse events following immunization (AEFI) in case of serious AEFI, give primary care and do not delay primary care, referral and reporting of refer immediately to nearest AEFI management serous AEFI; it may lead to death of the child. centre; inform the centre and your supervisor. do not forget to record all minor AEFI in block AEFI in case of minor AEFIs ensure management and register. reassurance.



record all minor AEFI in block AEFI register

### **Annex 13: Financial norms for Operational Funds under MR Campaign**

**Micro-planning**–₹ 100 / - per sub-centre and ₹ 1000 / - per Block PHC / CHC / District for incidental expenses like printing, photocopying, stationery etc.

Vaccine transport & Delivery – ₹ 10000 / - per district as pool fund for transport of vaccines up to PHC / CHC and ₹ 50 / - per session site to be used as pool for transport of vaccines from Block PHC / CHC to session sites.

Cold Chain- ₹ 2000 / - per Block PHC / CHC for POL for generator & ₹ 4 / - per icepack

**Supervision** -₹ 100 / - per supervisor for mobility, one supervisor for 2-3 teams: ₹ 800 / - per vehicle per day for two vehicles per block; these may also be used for transporting AEFI case if needed.

**Trainings** - ₹ 200 / - per participant for arranging training materials, refreshments and other miscellaneous expenses; ₹ 600 / - as honorarium for 2 state level trainers; ₹ 1000 / - as honorarium for 2 national level trainers.

**Meetings** – ₹ 100 / - per participant at disposal of for arranging training materials, refreshments and other miscellaneous expenses.

**Mobile Team** – ₹ 800 / - per vehicle per day for one vehicle per block

**IEC & Mobilization of Beneficiaries** -₹4 / - per poster: 5 poster per 1500 population (ASHA area) & ₹300 / - per day for 3 days for miking, and additional pool of ₹50,000 per state.

**Injection Safety** – @ ₹ 2 / bags / session; two bags per team per day

Other Incidental expenses – ₹ 75 / - per ANM / ASHA / AWW per session day

**Printing cost of Reporting Formats, Cards etc.** – ₹5 / - per beneficiary

**Contingency** – @ ₹ 10,000 per district

**Support for Monitoring** of state level officials @ ₹ 50,000 per state

The states will have flexibility of 20% within the overall budget allocated for the activity with approval of the State Health Secretary.



## Notes



# Notes

