REPORT NO.
72

सत्यमेव जयते

PARLIAMENT OF INDIA
RAJYA SABHA

DEPARTMENT-RELATED PARLIAMENTARY STANDING COMMITTEE ON HEALTH AND FAMILY WELFARE

SEVENTY SECOND REPORT

Alleged Irregularities in the Conduct of Studies using Human Papilloma Virus (HPV) Vaccine by Path in India (Department of Health Research, Ministry of Health and Family Welfare)

(*Presented to the Rajya Sabha on* 30*th August,* 2013)
(*Laid on the Table of Lok Sabha on* 30*th August,* 2013)

भारतीय संसद, राज्य सभा
PARLIAMENT OF INDIA, RAJYA SABHA

Rajya Sabha Secretariat, New Delhi
August, 2013/Bhadra, 1935 (Saka)

Website:http://rajyasabha.nic.in
E-mail:rs-chfw@sansad.nic.in

Hindi version of this publication is also available

PARLIAMENT OF INDIA
RAJYA SABHA

DEPARTMENT-RELATED PARLIAMENTARY STANDING COMMITTEE ON HEALTH AND FAMILY WELFARE

SEVENTY SECOND REPORT

Alleged Irregularities in the Conduct of Studies using Human Papilloma Virus (HPV) Vaccine by Path in India (Department of Health Research, Ministry of Health and Family Welfare)

(*Presented to the Rajya Sabha on* 30*th August,* 2013)
(*Laid on the Table of Lok Sabha on* 30*th August,* 2013)

Rajya Sabha Secretariat, New Delhi
August, 2013/Bhadra, 1935 (Saka)

CONTENTS

COMPOSITION OF THE COMMITTEE
(2009-10)

RAJYA SABHA

1. Shri Amar Singh — *Chairman*
2. Shrimati Viplove Thakur
3. [#] Dr. Radhakant Nayak
4. Shri Janardan Dwivedi
5. Shri Balbir Punj
6. Dr. Prabhakar Kore
7. Shrimati Brinda Karat
8. Shrimati Vasanthi Stanley
9. [@] Dr. M.A.M. Ramaswamy
10. Dr. Anbumani Ramadoss

LOK SABHA

11. Shri J. M. Aaron Rashid
12. Shri Ashok Argal
13. Shrimati Sarika Devendra Singh Baghel
14. Shri Vijay Bahuguna
15. Dr. Chinta Mohan
16. Shrimati Tabassum Hasan
17. Dr. Sanjay Jaiswal
18. Shri S. R. Jeyadurai
19. Dr. (Shrimati) Kruparani Killi
20. Shri N. Kristappa
21. Dr. Tarun Mandal
22. Shri Datta Meghe
23. Dr. Jyoti Mirdha
24. Shrimati Jayshreeben Patel
25. Shri R.K. Singh Patel
26. Shri M. K Raghavan
27. Dr. Anup Kumar Saha
28. Shrimati Meena Singh
29. Dr. Arvind Kumar Sharma
30. Shri Pradeep Kumar Singh
31. Shri Ratan Singh

SECRETARIAT

Shrimati Vandana Garg, *Additional Secretary*
Shri R. B. Gupta, *Director*
Shrimati Arpana Mendiratta, *Joint Director*
Shri Dinesh Singh, *Assistant Director*
Shri Satis Mesra, *Committee Officer*

[#] Ceased to be a Member *w.e.f.* 1st July, 2010.
[@] Ceased to be a Member *w.e.f.* 30th June, 2010.

COMPOSITION OF THE COMMITTEE
(2010-11)

RAJYA SABHA

1. Shri Brajesh Pathak — *Chairman*
2. Shri Janardan Dwivedi
3. Shrimati Viplove Thakur
4. Dr. Vijaylaxmi Sadho
5. Shri Balbir Punj
6. Dr. Prabhakar Kore
7. [@] Shrimati Brinda Karat
8. Shrimati Vasanthi Stanley
9. Shri Rasheed Masood
10. [*] Shrimati B. Jayashree

LOK SABHA

11. Shri Ashok Argal
12. Shrimati Sarika Devendra Singh Baghel
13. Shri Vijay Bahuguna
14. Shrimati Tabassum Hasan
15. Dr. Sanjay Jaiswal
16. Shri S. R. Jeyadurai
17. Dr. Kruparani Killi
18. Shri Nimmala Kristappa
19. Dr. Tarun Mandal
20. Shri Datta Meghe
21. Dr. Jyoti Mirdha
22. Dr. Chinta Mohan
23. Shrimati Jayshreeben Patel
24. Shri R.K. Singh Patel
25. Shri M. K Raghavan
26. Shri J. M. Aaron Rashid
27. Dr. Anup Kumar Saha
28. Dr. Arvind Kumar Sharma
29. Shrimati Meena Singh
30. Shri Pradeep Kumar Singh
31. Shri Ratan Singh

SECRETARIAT

Shrimati Vandana Garg, *Additional Secretary*
Shri R.B. Gupta, *Director*
Shrimati Arpana Mendiratta, *Joint Director*
Shri Dinesh Singh, *Assistant Director*
Shri Satis Mesra, *Committee Officer*

---

[*] Ceased to be a Member *w.e.f.* 18th August, 2011.
[@] Nominated to the Committee *w.e.f.* 21st September, 2010.

COMPOSITION OF THE COMMITTEE
(2011-12)

RAJYA SABHA

1. Shri Brajesh Pathak — *Chairman*
[*]2. Shri Janardhan Dwivedi
[%]3. Shrimati Viplove Thakur
4. Dr. Vijaylaxmi Sadho
5. Shri Balbir Punj
6. Dr. Prabhakar Kore
7. Shrimati Vasanthi Stanley
[^]8. Shri Rasheed Masood
9. Shrimati B. Jayashree
10. Shri Derek O'Brien

LOK SABHA

11. Shri Ashok Argal
[&]12. Shrimati Harsimrat Kaur Badal
[@]13. Shri Vijay Bahuguna
14. Shrimati Raj Kumari Chauhan
15. Shrimati Bhavana Gawali
16. Dr. Sucharu Ranjan Haldar
17. Dr. Monazir Hassan
18. Dr. Sanjay Jaiswal
19. Shri S. R. Jeyadurai
20. Shri P. Lingam
21. Shri Datta Meghe
22. Dr. Jyoti Mirdha
23. Dr. Chinta Mohan
24. Shri Sidhant Mohapatra
25. Shrimati Jayshreeben Kanubhai Patel
26. Shri M. K Raghavan
27. Shri J. M. Aaron Rashid
28. Dr. Arvind Kumar Sharma
29. Shri Radhe Mohan Singh
30. Shri Ratan Singh
31. Dr. Kirit Premjibhai Solanki

---

[*] ceased to be a Member *w.e.f.* 27th January, 2012 and re-nominated to the Committee on 2nd February, 2012.
[%] Vacant *vide* resignation *w.e.f.* 2nd April, 2012.
[^] Vacant *vide* resignation *w.e.f.* 9th March, 2012 and renominated as Member *w.e.f.* 04th May, 2012.
[&] ceased to be a Member *w.e.f.* 29th June, 2012.
[@] vacant *vide* resignation *w.e.f.* 30th April, 2012.

SECRETARIAT

Shrimati Vandana Garg, *Joint Secretary*

Shri R. B. Gupta, *Director*

Shrimati Arpana Mendiratta, *Joint Director*

Shri Dinesh Singh, *Deputy Director*

COMPOSITION OF THE COMMITTEE
(2012-13)

RAJYA SABHA

1. Shri Brajesh Pathak — *Chairman*
2. Dr. Vijaylaxmi Sadho
*3. Dr. K. Chiranjeevi
4. Shri Rasheed Masood
5. Dr. Prabhakar Kore
6. Shri Jagat Prakash Nadda
7. Shri Arvind Kumar Singh
&8. Shri D. Raja
9. Shri H. K. Dua
10. Shrimati B. Jayashree
^11. Shri Mohd. Ali Khan
%12. Shri Rajkumar Dhoot

LOK SABHA

@13. Shri Ashok Argal
14. Shri Kirti Azad
15. Shri Mohd. Azharuddin
16. Shrimati Sarika Devendra Singh Baghel
17. Shri Kuvarjibhai M. Bavalia
18. Shrimati Priya Dutt
19. Dr. Sucharu Ranjan Haldar
20. Mohd. Asrarul Haque
21. Dr. Monazir Hassan
22. Dr. Sanjay Jaiswal
23. Dr. Tarun Mandal
24. Shri Mahabal Mishra
25. Shri Zafar Ali Naqvi
26. Shrimati Jayshreeben Patel
27. Shri Harin Pathak
28. Shri Ramkishun
29. Dr. Anup Kumar Saha
30. Dr. Arvind Kumar Sharma
31. Dr. Raghuvansh Prasad Singh
32. Shri P.T. Thomas
#33. Shri Chowdhury Mohan Jatua

---

* Ceased to be Member of the Committee *w.e.f.* 28th October, 2012.
& Ceased to be Member of the Committee *w.e.f.* 24th July, 2013.
^ Nominated as a Member to the Committee *w.e.f.* 27th August, 2013.
% Nominated as a Member to the Committee *w.e.f.* 27th August, 2013.
@ Ceased to be Member of the Committee *w.e.f.* 9th January, 2013.
# Nominated as a Member to the Committee *w.e.f.* 14th December, 2012.

SECRETARIAT

Shri P.P.K. Ramacharyulu, *Joint Secretary*

Shri R. B. Gupta, *Director*

Shrimati Arpana Mendiratta, *Joint Director*

Shri Dinesh Singh, *Deputy Director*

Shri Pratap Shenoy, *Committee Officer*

PREFACE

I, the Chairman of the Department-related Parliamentary Standing Committee on Health and Family Welfare, having been authorized by the Committee to present the Report on its behalf, do hereby present this Seventy Second Report of the Committee on the "Alleged Irregularities in the Conduct of Studies Using Human Papilloma Virus (HPV) Vaccine" by Programme for Appropriate Technology in Health (PATH) in India.

2. The Committee first took up the issue about the trial of HPV vaccine on the children in Khammam district of Andhra Pradesh and Vadodra district of Gujarat and reported deaths of the children therefrom in its meeting held on 06th April, 2010 during the course of examination of Demands for Grants (2010-11) of Department of Health Research and sought exact status in this regard from the Secretary, Department of Health Research. Subsequently, taking serious view of the procedural and ethical lapses on the part of the Ministry, the Committee sought the matter of allowing trial of the vaccine as also the approval for its marketing in the country to be enquired into. The Committee also desired the Ministry to take further appropriate action in the matter and apprise it of the follow-up action taken in this regard at the earliest. As a sequel to the Committee's recommendation, a Committee was appointed by the Government of India to enquire into"Alleged Irregularities in the Conduct of Studies Using Human Papilloma Virus (HPV) Vaccine" by Programme for Appropriate Technology in Health (PATH) in India on 15th April,2010. The Final Report of the Committee appointed by the Government of India to enquire into"Alleged Irregularities in the Conduct of Studies Using Human Papilloma Virus (HPV) Vaccine" by Programme for Appropriate Technology in Health(PATH) in India was made on 15th February,2011.

3. The Committee thereafter deliberated on the subject in its meetings held on 25th July, 2011 and 24th May, 2013.

4. During the course of examination of the subject, the Committee heard the views of the Secretary, Department of Health Research and other officials of the Department on 25th July, 2011 and Secretary, Department of Health Research and Drug Controller General of India (DCGI) on 24th May, 2013.

5. During the finalization of its Report, the Committee relied upon the following documents/ papers:–

(i) Background note received from the Ministry;

(ii) Final Report of the Committee Appointed by the Government of India to enquire into "Alleged Irregularities in the Conduct of Studies Using Human Papilloma Virus (HPV) Vaccine" by Programme for Appropriate Technology in Health (PATH) in India;

(iii) Oral Evidences tendered by Secretary, Department of Health Research and DCGI; and

(iv) Replies to the questionnaires received from the Department of Health Research.

6. The Committee considered the Draft Report and adopted the same in its meeting held on 29th August, 2013.

7. For facility of reference and convenience, observations and recommendations of the Committee have been printed in bold letters in the body of the Report.

BRAJESH PATHAK,
Chairman,
Department-related Parliamentary Standing Committee on Health and Family Welfare

NEW DELHI;
29*th August, 2013*
Bhadra 7, 1935 (*Saka*)

ACRONYMS

1.	AE	–	Adverse Event
2.	AEFI	–	Adverse Event Following Immunization
3.	ANM	–	Auxiliary Nurse Midwife
4.	AP	–	Andhra Pradesh
5.	AIIMS	–	All India Institute of Medical Sciences
6.	ASHA	–	Accredited Social Health Activist
7.	CDSCO	–	Central Drugs Standard Control Organisation
8.	CTRI	–	Clinical Trials Registry- India
9.	CORT	–	Centre for Operations Research and Training
10.	DCGI	–	Drug Controller General of India
11.	DGHS	–	Director General of Health Services
12.	DHR	–	Department of Health Research
13.	DG, ICMR	–	Director General, Indian Council of Medical Research
14.	FCRA	–	Foreign Currency Regulation Act
15.	FERA	–	Foreign Exchange Regulation Act
16.	FEMA	–	Foreign Exchange Management Act
17.	GCP	–	Good Clinical Practice
18.	GAVI	–	Global Alliance for Vaccines and Immunizations
19.	HPV	–	Human Papilloma Virus
20.	HMSC	–	Health Ministry Screening Committee
21.	HoD	–	Head of Department
22.	ICMR	–	Indian Council of Medical Research
23.	MEA	–	Ministry of External Affairs
24.	MHA	–	Ministry of Home Affairs
25.	MoU	–	Memorandum of Understanding
26.	MEA	–	Ministry of External Affairs
27.	MHA	–	Ministry of Home Affairs
28.	NGO	–	Non-Governmental Organization
29.	NRHM	–	National Rural Health Mission

30. NTAGI – National Technical Advisory Group on Immunization
31. O&G – Obstetrics and Gynaecology
32. PATH – Programme for Appropriate Technology in Health
33. PBC – Public Benefit Corporation
34. PPP – Public-Private Partnership
35. PSURs – Periodic Safety Update Reports
36. RoC – Registrar of Companies
37. RBI – Reserve Bank of India
38. SAE – Serious Adverse Event
39. UIP – Universal Immunization Programme
40. USFDA – United States Food and Drug Administration
41. WHO – World Health Organisation

REPORT

I. BACKGROUND

1.1 During March, 2010 the entire world was shocked by the media reports about the deaths of some female children and adolescents in Khammam district of Andhra Pradesh after being administered Human Papilloma Virus (HPV) vaccines. The vaccination trials were carried out by an American agency *viz.* Programme for Appropriate Technology in Health (PATH). The project was reportedly funded by Bill and Melinda Gates Foundation, an American charity.

1.2 Several questions were asked and concerns expressed in the media and well meaning quarters on the role of government agencies including Indian Council of Medical Research (ICMR) and Drugs Controller General of India (DCGI) in approving and facilitating the trials, which was against all laws of the land and even international ethical norms and rules; misuse of government funds, man-power, facilities and infrastructure for a private project of dubious nature; use of logo of National Rural Health Mission (NRHM), an official programme of the Union Government during these vaccination drives to give it respectability and official endorsement; and above all the blatant violation by PATH of all regulatory and ethical norms laid down by the Government of India for the purpose as also possible violations of such norms prescribed and very scrupulously enforced in the Country of its origin *viz.* United States of America.

1.3 Taking cognizance of these reports, the Committee (2009-10) which was examining the Demand for Grants (2010-11) of the Department of Health Research at that point of time sought a detailed clarification from the Government in the matter. In response the Secretary of the Department of Health Research and DG, ICMR informed the Committee that it was a vaccine against the Human Papilloma Virus which causes cervical cancer in women. The Drugs Controller General, India had given approval for marketing of HPV vaccines in India as a vaccine to be prescribed by the clinicians as per schedule 'Y' of the Drugs and Cosmetics Rules and then for a post-marketing surveillance trial. The Committee was informed that the proposal for trial came two years earlier (though later on during the Committee's examination it was proved that it began in 2006) before the ICMR through PATH, an American agency, and the logic for allowing the trial was to see acceptability of this vaccine on Indian population. Besides, these trials were approved by the National Ethical Committee and the State Ethical Committee.

1.4 Attention of the Secretary was drawn to DCGI guidelines wherein Phase III trials cannot be conducted on children until a similar trial was conducted on adults. It was admitted by the Secretary that the DCGI guidelines were not adhered to in the present case but this vaccine is given before the sexual activity begins and then it protects against cancer. That was the reason for allowing trials on girls of the age of 10-14 years. The Committee was assured that State Governments of Andhra Pradesh and Gujarat would be asked to get the ongoing clinical trial stopped immediately.

1.5 Hugely perturbed by these blatant violations, the Committee in its Forty first Report on Demands for Grants (2010-11) of the Department of Health Research made the following recommendations on this issue:

> "Taking serious view of procedural and ethical lapses on the part of the Ministry, the Committee sought the matter of allowing trial of the vaccine as also the approval for its marketing in the country to be enquired into by a premier investigating agency and to take further appropriate follow-up action in the matter. It also asked that findings of the investigating agency and the follow-up action taken in this regard may be furnished to the

Committee at the earliest. The Committee, taking a serious view in the matter, recommends to the Department of Health Research that in future all guidelines and norms should be adhered to before allowing trials of any drug including vaccines on Indian population. The Committee also recommends that the DCGI should observe optimum precautions and follow all norms and guidelines while allowing marketing of any drug including the vaccines in the Indian market".

1.6 The Department of Health Research in its Action Taken Note on the above recommendations submitted the following:

"PATH in partnership with State Governments of Gujarat and Andhra Pradesh was implementing an operational research study related to cancer of cervix prevention in India. ICMR is providing technical support and consultation for development of protocol and plan of monitoring.

The study utilized both the brands of HPV vaccines available in the market (Gardasil by Merck in Andhra Pradesh; and Cervarix by GSK in Gujarat). In view of certain complaints received, the State Governments have been advised not to carry out further vaccination till further orders. To ascertain the facts of the matter, Minister for Health and Family Welfare appointed a Committee comprising of Dr. S.S. Agarwal, former Director, Advanced Centre for Training, Research, Education on Cancer, Dr. S.P. Aggarwal, former DGHS and Dr. Sunita Mittal, HoD, Obstetrics and Gynaecology, AIIMS to investigate ethical issues raised in the matter."

1.7 Not being satisfied with the action taken by the Government on its Recommendations, the Committee in its Forty eighth Report further recommended the following:

"The Committee observes that as a result of its intervention, the State Governments have been advised by the Department not to carry out HPV vaccinations and a Committee has been appointed to investigate ethical issues raised in the matter. The Committee is not aware about the date of setting up of the Committee. However, the absence of any specific time-line for submission of Report of the Committee in the Action Taken Note given by the Department makes the Committee somewhat apprehensive. Like so many Committees set up by the Government, findings of this Committee, as and when received, may remain on paper only. The Committee, therefore, recommends that every effort should be made to expedite the Report of this Committee so that real facts about the HPV Vaccine trial are made known without any further delay and corrective measures not only in respect of this case but for all such ongoing/proposed clinical trials of drugs/vaccines are taken. The Committee also recommends that the Department should at least now work in close coordination with other concerned departments/organizations to undertake a comprehensive analysis of the process of granting permission to research studies having hazardous effects on health and put in place a fool-proof system for pre-empting unethical research studies."

1.8 Considering the enormity of the wrong doing/criminality involved, and the dilly-dallying attitude of the Government in taking exemplary corrective action, the Committee took it up for detailed examination. The succeeding paragraphs contain the details of the matter, Committee's findings and recommendations.

1.9 Cancer of the cervix (mouth of uterus) popularly called Cervical Cancer has been there ever since the dawn of human race. Over the years, preventive and treatment protocols have been developed by medical experts.

1.10 The Committee was given to understand that on June 1, 2006 the American drug regulator, the U. S. Food and Drug Administration (USFDA) approved the first vaccine to prevent HPV virus

that is claimed to cause 70% of cervical cancers, under the brand name of Gardasil by a US drug company namely, Merck.

1.11 In the very same month, an American organization called Program for Appropriate Technology in Health (PATH) embarked upon a large scale, 5-year long (June 2006 to May 2011) project with "the main objective …..to generate and disseminate evidence for informed public sector introduction of HPV vaccines" in four countries, India, Uganda, Peru and Vietnam. Interestingly these four countries have different ethnic populations: India (Indo-Aryans, Dravidians, Tribals etc.), Uganda (Negroid), Peru (Hispanics) and Vietnam (Mongoloids). The Committee has been given to understand that ethnicity is relevant in the determination of safety and efficacy of some drugs. What would be of further interest, as per World Health Organization (WHO) is that all these countries have state-funded national vaccine immunization programs, which if expanded to include Gardasil, would mean tremendous financial benefit to the then sole manufacturer.

1.12 With this background a clinical trial under the title 'Post-licensure observational study of Human Papilloma Virus Vaccination – Demonstration Project' was undertaken by Programme for Appropriate Technology in Health (PATH), an agency of American origin. The Indian Council of Medical Research (ICMR), which is the highest body in the Country for medical research and related matters lent its platform to PATH in an improper and unlawful manner. The State Governments of Andhra Pradesh and Gujarat swayed by the involvement of ICMR followed suit.

II. NATURE OF PROJECT

2.1 Given the controversy surrounding the project, the Committee was keen to know from the Government the exact nature of the project. The Committee noticed that there was fundamental difference between the perceptions of Drugs Controller General of India (DCGI) and Department of Health Research (DHR)/Indian Council of Medical Research (ICMR) on the actual nature of the project. The DCGI was of the opinion that since human subjects, as part of the research, were receiving invasive intervention like vaccines, the clinical trial rules must be enforced. Experts also upheld these views and were very clear about it. However, PATH described the project as an "observational study" since "it did not conform to the definition of clinical trial".

2.2 The Committee found from the information furnished to it that ICMR representative on the Project Advisory Committee not only opposed DCGI but also argued that the nature of the project does not require them to follow the clinical trial rules, including reporting of serious adverse effects within a specific time-frame.

2.3 The Committee in this regard took note of the expert opinion given in the Inquiry Committee report which questioned the PATH description of the project and observed that since "the demonstration project is a study of a pharmaceutical product carried out on humans and since the primary objectives include the study of serious adverse effects, it is clear that clinical trial rules and guidelines should apply".

2.4 In fact, the Inquiry Committee in one of its findings very pointedly stated that the investigators had variously labeled the research project carried out by them as "Observational Study/Demonstrational Study," etc. to establish that the study was not a clinical trial. But, since the project had been carried as research on human participants, it had to follow all the guidelines and statutory requirements applicable for research on human participants.

2.5 **The Committee finds the entire matter very intriguing and fishy. The choice of countries and population groups; the monopolistic nature, at that point of time, of the product being pushed; the unlimited market potential and opportunities in the universal immunization progammes of the respective countries are all pointers to a well planned scheme to commercially exploit a situation. Had PATH been successful in getting the HPV**

vaccine included in the universal immunization programme of the concerned countries, this would have generated windfall profit for the manufacturer(s) by way of automatic sale, year after year, without any promotional or marketing expenses. It is well known that once introduced into the immunization programme it becomes politically impossible to stop any vaccination. To achieve this end effortlessly without going through the arduous and strictly regulated route of clinical trials, PATH resorted to an element of subterfuge by calling the clinical trials as "Observational Studies" or "Demonstration Project" and various such expressions. Thus, the interest, safety and well being of subjects were completely jeopardized by PATH by using self-determined and self-servicing nomenclature which is not only highly deplorable but a serious breach of law of the land. The Committee is not aware about the strategy followed by PATH in the remaining three countries *viz.* Uganda, Vietnam and Peru. The Government should take up the matter with the Governments of these countries through diplomatic channels to know the truth of the matter and take appropriate necessary action, accordingly. The Committee would also like to be apprised of the responses of these countries in the matter.

III. ROLE OF DEPARTMENT OF HEALTH RESEARCH/INDIAN COUNCIL OF MEDICAL RESEARCH

3.1 One of the functions mandated to the Department of Health Research/ICMR is promotion and coordination of basic, applied, clinical and operational research in medical, health and bio-medical field through development of infrastructure, manpower and skills. Uniform Ethical Guidelines for bio-medical Research on human subjects are incorporated in Good Clinical Practice (GCP) and ICMR documents. These guidelines outline the procedure for Ethics Committees review of clinical trials in India using the human beings as participants. All institutions and investigators in the country which carry out any form of biomedical research involving human beings are obliged to follow these guidelines in letter and spirit to protect participants.

3.2 As per the records made available to the Committee, the first documented contact made by PATH with ICMR took place, as early as, on 5th October 2006. An employee of PATH India sent an e-mail to Deputy Director of National AIDS Research Institute, ICMR expressing sorrow that she could not travel to Seattle, United States for "Formative Research Workshop" (on HPV vaccine) scheduled for October 24-26, 2006. Apparently, PATH functionaries were in touch with ICMR officials on an informal basis in the past.

3.3 Within a few days, a meeting took place between PATH and ICMR officials on 13 October, 2006 at PATH office in New Delhi where it was stated that "HPV vaccine, when available (in India), can prevent HPV and cervical cancer." The possibility of Global Alliance for Vaccines and Immunizations (GAVI) subsidizing the cost of vaccine for the first 2 - 4 years was also mentioned. Evidence (on role, utility of vaccine) made available to Government of India and States would "help to decide on public sector (State funded) introduction of the vaccine."

3.4 On 16 November, 2006, a draft Memorandum of Understanding (MoU) between PATH and ICMR was circulated by PATH which stated that "Parties (PATH and ICMR) desiring to explore collaboration to support public sector decision regarding HPV vaccine introduction in India and to generate necessary evidence to allow the possible introduction of HPV vaccine into India's Universal Immunization Programme."

3.5 Thus as early as October-November 2006, it was clear that the main objective of PATH project was to generate evidence that would facilitate the introduction of HPV vaccine Gardasil into government-funded immunization program in India. This appears to be a promotional activity for the benefit of manufacturing company because at that time only one HPV vaccine, Gardasil had been approved abroad, though not in India. Indeed "the key object of the project activities in India

is to gather information and help the government make a decision about the introduction of HPV vaccine". The Country Director of PATH in India emphasized that "this needs to be our consistent message throughout the project." In the formal proposal submitted by PATH to the ICMR on Project Proposals involving Foreign Collaboration/Assistance, the applicant clearly stated under Para 9. Objectives of the Project: "…….Introduction of HPV vaccines into Universal Immunization Program." The Committee found repeated mention of similar objectives at several places in various documents submitted by the Ministry. The Memorandum of Understanding (MoU) was signed by PATH and ICMR on 20 February, 2007. At that time only Gardasil was marketed in some countries in the world though not approved for use in India. The MoU stated that the purpose of the project was:

(i) Increasing understanding of HPV vaccine (*i.e.* Gardasil) introduction.

(ii) To help in decision-making related to the use of HPV (*i.e.* Gardasil) vaccine in the public and private sector.

3.6 The Committee enquired from the Secretary of Department of Health Research (DHR) and DG, ICMR, as to whether the Department or CDSCO, before approving the project had really reviewed its actual design. The Committee highlighted the observations of the experts of the Inquiry Committee who have opined that the design of the project itself was faulty. For instance, in the documents there was no column whatsoever for Serious Adverse Events (SAE) and no diary was to be maintained as part of the protocol.

3.7 Moreover, much before the trials started, many expected side effects including anaphylaxis (severe allergic reaction), syncope, convulsions, asthma, central demyelinating diseases, acute disseminated encephalomyelitis, Idiopathic Thrombopenia Purpura, etc. were known. And astonishingly, as the records stated, while ICMR functionary was worried of bad publicity in case of side effects, PATH did not provide for urgent expert medical attention in case of serious adverse events whether known or unexpected.

3.8 After going through the final report and interactions with the Secretaries of the Department of Health and Family Welfare and the Department of Health Research/ICMR and DCGI, the Committee felt that it needs clarification as to under what category, permission was given to PATH to conduct such study on the Indian people and whether the programme was a clinical trial or promotional activity. The Committee took note of the fact that the Enquiry Committee meeting held on September 27, 2010, noted as under **(Annexure-A):**

> "....Besides the factual information about the terms of reference the Committee was greatly concerned with the aspect of commercial interests of manufacturers influencing the Government policy on this expensive vaccine. The committee observed that the study was initiated by PATH on its own …….. without any reference from the National Technical Advisory Group on Immunization (NTAGI), the official body of the GOI on vaccines.....It is not clear whether the State expenses were funded by PATH or came from their own resources. The monetary contributions of ICMR are also not clear. The Committee therefore felt that it would be in the fitness of the inquiry to document the sources and magnitude of funding of the study".

3.9 In this connection, the Committee also noted that one of the roles assigned to ICMR in the MOU signed by the Director General of the ICMR was "advising on plans for results dissemination to support decision making for use of the HPV vaccine".

3.10 **The Committee is unable to understand as to how ICMR could commit itself to support "the use of the HPV vaccine" in an MOU signed in the year 2007 even before the vaccine was approved for use in the country, which actually happened in 2008. The**

Committee also questions the decision of ICMR to commit itself to promote the drug for inclusion in the Universal Immunization Programme (UIP) even before any independent study about its utility and rationale of inclusion in UIP was undertaken.

3.11 The Committee noted that there were many gaps and missing links in the whole episode and enquired as to when ICMR came into contact with PATH. First a vaccine should get the approval from the Government and then only it can be used in UIP. Secretary, Department of Health Research/DG, ICMR while responding to the queries, informed that the first discussion with the PATH was held in 2006 followed by signing of agreement in the year 2007. At that time HPV vaccine had not been approved in India and no study was conducted on it. This was all a preparatory exercise.

3.12 The Committee was informed that the trial was on the two vaccines approved by DCGI. It was also stated that these vaccines had been tested abroad and on a limited number of people in India as per rules following which DCGI had given the approval for their marketing in the country, and then a post-marketing surveillance trial.

3.13 The Committee in this connection took note of the fact that before any drug is tested especially on a large population of 25,000-32,000 children between the age of 10 to 14, then according to the CDSCO guidelines, no such trial can be conducted on children until a similar, prior trial is conducted on adults to determine efficacy and safety.

3.14 The Secretary, Department of Health Research/DG, ICMR while deposing before the Committee in its meeting held on 25th July, 2011, stated that the terms of reference of the Enquiry Committee was to find out any relation between the deaths with the administration of vaccine and any incidents of irregularities in the implementation of the study. He stated that the Enquiry Committee concluded that the deaths reported during trial had no uniform pattern to link them to the administration of vaccines.

3.15 The Committee noted that all the seven deaths were summarily dismissed as unrelated to vaccinations without in-depth investigations. According to Inquiry Committee report, the speculative causes were suicides, accidental drowning in well (why not suicide?), maleria, viral infections, sub-arachnoid haemorrhage (without autopsy) etc. The Committee has been given to understand that suicidal ideation is caused by many drugs. Since then one more death due to suicide in case of Gardasil has been reported in addition to 5 deaths reported during 2009-10. Therefore, HPV vaccine as a possible, if not probable, cause of suicidal ideation cannot be ruled out.

3.16 The Secretary of DHR/DG, ICMR acknowledged that certain irregularities were reported in the implementation of the project. With regard to Informed Consent, he said that though the consent was taken properly in Gujarat, there were gross violations of norms in Andhra Pradesh. He informed the Committee that DCGI, had sought explanation for the incidents of irregularities.

3.17 The Committee took note of Secretary's comments but sought to know as to how ethical it was on the part of ICMR to become a party to a project in the name of Public-Private Partnership (PPP mode). How ICMR, which is mandated to formulate ethical guidelines for researchers, can become a direct party in such a study. The Secretary, Department of Health Research admitted that presence of ICMR in the Project's Advisory Committee-responsible and accountable for various acts of omissions and commissions-clearly indicates Conflict of Interest. Therefore, ICMR owes full moral responsibility for numerous irregularities reportedly committed in the study.

3.18 **The Committee feels that there was serious dereliction of duty by many of the Institutions and individuals involved. The Committee observes that ICMR representatives, instead of ensuring highest levels of ethical standards in research studies, apparently acted at the behest of the PATH in promoting the interests of manufacturers of the HPV Vaccine.**

3.19 **It was unwise on the part of ICMR to go in the PPP mode with PATH, as such an involvement gives rise to grave Conflict of Interest. The Committee takes a serious view of the role of ICMR in the entire episode and is constrained to observe that ICMR should have been more responsible in the matter. The Committee strongly recommends that the Ministry may review the activities of ICMR functionaries involved in PATH project.**

3.20 Secretary of Department of Health Research and DG, ICMR in their defense also claimed that the ICMR had fulfilled the written role entrusted to it but the irregularities that took place during the implementation of the study clearly indicate that there were certain micro (ground) level issues requiring more attention. For instance, it was noticed that States were not even capable of monitoring the adverse effects. He stated that this all was a learning exercise.

3.21 It maybe pertinent to mention here that the safety, efficacy and introduction of vaccines in India is handled by National Technical Advisory Group on Immunization (NTAGI). Thus, at the very outset, ICMR should have either referred PATH to NTAGI or at least taken NTAGI on board.

3.22 **The Committee from its examination has found that DHR/ICMR have completely failed to perform their mandated role and responsibility as the apex body for medical research in the Country. Rather, in their over-enthusiasm to act as a willing facilitator to the machinations of PATH they have even transgressed into the domain of other bodies/ agencies which deserves the strongest condemnation and strictest action against them. The Committee fails to understand as to why ICMR took so much interest and initiative in this project when the safety, efficacy and introduction of vaccines in India is handled by National Technical Advisory Group on Immunization (NTAGI). The submissions of the Secretary, DHR/DG, ICMR before the Committee about the commencement of the project, facts of the case and the action taken have also failed to stand scrutiny during the Committee's examination of the matter. The Committee, therefore, reiterates the recommendation made in their Forty-first Report that the matter of allowing trial of the vaccine as also the approval for its marketing in the Country be inquired into by a premier investigating agency and appropriate action be taken thereafter by the Government in the matter. The Committee expects the Government not to procrastinate in this matter any further.**

IV. ROLE OF DRUG CONTROLLER GENERAL, INDIA (DCGI)

4.1 The Committee noted that as per Rule122-DA and Schedule Y of the Drugs and Cosmetics Rules, 1945 made under the Drugs and Cosmetics Act, 1940, no clinical trial on a drug can be conducted except under, and in accordance with the permission in writing, of the Licensing Authority *i.e.* DCGI. All vaccines are deemed to be drugs. Clinical trials of pharmaceutical products are conducted on human subjects in the country to determine or verify safety and/or efficacy. Every permission for conducting clinical trials also, *inter alia*, includes a condition that in event of trial related injury or death, the sponsor will provide complete medical care as well as compensation. Statement to this effect needs to be incorporated in the Informed Consent Form. The details of compensation provided are to be intimated to the office of DCGI.

4.2 The Committee noted from the evidence available that the nature of the PATH project made it Post-marketing Phase IV Clinical Trial under Drugs and Cosmetic Rules. It was on this basis that DCGI approved the clinical trial on 22 April, 2009 and had earlier issued import licenses on 23 December, 2008 though it was incorrect on the part of DCGI to issue import licences on Form 11 under Rule 33 which states:

> *Import of drugs for examination, test or analysis:* Small quantities of drugs the import of which is otherwise prohibited under section 10 of the Act may be imported for the purpose of examination, test or analysis subject to the following conditions:

(a) No drug shall be imported for such purpose except under a licence in Form 11;

(b) the licensee shall use the substances imported under the license exclusively for purposes of examination, test or analysis and shall carry on such examination, test or analysis in the place specified in the license, or in such other places as the licensing authority may from time to time authorize.

4.3 Since both Gardasil and Cervarix had received marketing approval from CDSCO on 4 July, 2008 and 10 September, 2008 respectively, DCGI should have issued Import Licenses on Form 10 which is applicable to import of drugs already approved.

4.4 The so called Demonstration Project of PATH has the objectives as follows:

Primary Outcomes:

- Number and percentage of vaccinated girls.
- Number and percentage of vaccinated girls experiencing Serious Adverse Events (SAEs)
- Number and percentage of vaccinated girls experiencing non-Serious Adverse Events.
- Timeliness of reporting SAEs to local, state and national authorities.
- Timeliness of reporting Non-SAEs to local, state and national authorities.

4.5 Thus it is clear that PATH project had two well defined and specific objectives:

(a) The commercial objective of the project was to generate evidence, data and arguments to support inclusion of HPV vaccines into India's state-funded Universal Immunization Program (UIP), and

(b) The scientific purpose was to collect data on serious and non-serious adverse effects. Given that similar projects were launched in Peru, Uganda and Vietnam, the entire exercise would have collected side effect profiles of HPV vaccines in all the ethnic groups that reside in developing countries. Such data would be invaluable to promote the two branded, patented, single source HPV vaccines as safe all over the world.

4.6 **The Committee's examination has proved that DCGI has also played a very questionable role in the entire matter. Initially, it took a call that since human subjects, as part of the studies, were receiving invasive intervention like immunization, clinical trial rules must be enforced. However, it remained as a silent spectator thereafter, even when its own rules and regulations were being so flagrantly violated. The approvals of clinical trials, marketing approval and import licenses by DCGI appear to be irregular. Therefore, the role of DCGI in this entire matter should also be inquired into.**

V. MARKETING APPROVAL TO HPV VACCINES IN INDIA

5.1 Before approving any new drug (including new vaccines), under Drugs and Cosmetics Rules, it is mandatory to conduct Phase III clinical trials in India to determine any ethnic differences in the safety and efficacy profiles. As per records made available to the Committee the following clinical trials, albeit, under various names, were conducted:

Gardasil (Merck): Clinical trials were conducted on 108 subjects (girls in the age group of 9-15 years). Several violations took place in the trial: (a) trials should have been conducted in adults first before exposing children to known and unknown side effects, (b) in adolescents and

children the trials should have been conducted from "top to bottom" age groups *i.e.* first in adolescents (13-15 years) followed by children (9-12 years). This was not done. Vaccines were administered to children irrespective of age at the same time.

Cervarix (GSK): Clinical trials were conducted on 162 subjects (adults in the age group of 18-35 years). Yet permission was given to use the vaccine in children (10-14 years) in violation of rules.

VI. INQUIRY COMMITTEE

(a) Composition and Terms of Reference

6.1 The Committee was informed that because of the concerns raised at different fora, the study was suspended and an Enquiry Committee was constituted by the Govt. of India vide notification No. V.25011/160/2010-HR dated 15th April, 2010, to enquire into "Alleged irregularities" in the conduct of studies using Human Papilloma Virus (HPV) vaccines by PATH in India.

The inquiry committee consisted of the following:

(1) Dr. S.S. Agarwal, former Director, Advanced Centre for Training, Research, Education on Cancer,

(2) Dr. S.P. Aggarwal, former DGHS, and

(3) Dr. Sunita Mittal, HoD, Obstetrics and Gynaecology, AIIMS

6.2 The terms of reference of the Committee were to enquire into:

(i) Link between the deaths and vaccine, if any, and

(ii) Ethical Issues of subjecting children of marginalized populations to these studies, and investigations in children without appropriate Consent.

6.3 The Committee was assisted by the following experts:

(i) Dr. Rani Kumar, Dean, AIIMS

(ii) Dr. A. K. Dutta, Head of Pediatrics, Kalawati Saran Hospital

(iii) Dr. Y. K. Gupta, Head of Pharmacology, AIIMS

(b) Conflict of Interest

6.4 The Committee sought information from the Ministry of Health and Family Welfare (MoHFW) as to whether members of the Inquiry Committee were asked to file Conflict of Interest declarations. In response the Ministry replied: "No written Conflict of Interest declarations were sought from the core members of the Inquiry Committee as well as experts. It was understood that if there is any conflict, highly learned members will point it out."

6.5 In order to verify the Ministry's claim, the Committee picked just one member *i.e.*, Professor and HoD of the Department of Obstetrics and Gynaecology (O&G) of All India Institute of Medical Sciences (AIIMS). It was found that manufacturers of Gardasil, Merck was sponsoring and funding a trial in the Department of O&G at AIIMS to determine if 2 doses of Gardasil can be used safely and effectively instead of 3 doses. Documents received by the Committee in connection with the examination of AIIMS also revealed that the individual in question availed the hospitality of these very sponsors during the said individual's visit to Seoul to attend a conference.

The FCRA application form was, therefore, deliberately left incomplete to hide this truth. All these speaks of a serious conflict of interest of this member of the Inquiry Committee.

6.6 The Committee also found that the Ministry appointed a senior official of ICMR (described as Resource Person) to assist the Inquiry Committee. The concerned individual was the main link between ICMR and PATH, and had participated actively in all discussions, meetings and helped PATH to carry out the project proactively in every respect right from the beginning in October 2006. As such he had a clear Conflict of Interest and could not be relied upon to give correct information and unbiased opinion. Indeed he should have been summoned as a witness to answer questions and not as an official Resource Person attached to the Enquiry Committee.

(c) Adverse Events Reporting

6.7 The Committee examined the final Report of the Inquiry Committee constituted to enquire into the alleged irregularities in the conduct of studies using HPV vaccines by PATH in India. In its first meeting held on 21-4-2010, the Inquiry Committee sought details on the following core issues:

1. When did PATH approach ICMR for trial runs?
2. With whose permission was MOU signed?
3. Did President of ICMR approve?
4. Whether it had approval of the Screening Committee?
5. Approval of DCGI.
6. Details of reimbursements provided so far by PATH to ICMR
7. Names of beneficiaries.
8. Expenditure incurred by ICMR so far on all items including travel expenses.

6.8 However in its second meeting on 30 April, 2010, no discussion took place on the above crucial issues since the Inquiry Committee wished "to restrict itself to the terms of reference."

6.9 Inexplicably, however, as the records placed before the Committee proved, this decision did not prevent the Inquiry Committee from going into and recommending actions on other matters far beyond the terms of reference.

6.10 **The Committee notes that once this matter was taken up by it, the Government appointed an Inquiry Committee on 15 April, 2010 to inquire into 'alleged irregularities in the conduct of the studies using HPV vaccines by PATH in India'. The Committee has noted the serious conflict of interest of members of this Inquiry Committee with the subject matter. The Committee, therefore, strongly deprecates the Government for appointing a committee to inquire into such a serious matter in such a casual manner even without ascertaining as to whether any of the members of the said Inquiry Committee were having any conflict of interest with the subject matter of inquiry.**

6.11 **The Committee finds it very intriguing as to when the Inquiry Committee after having sought details of some core issues in the very first meeting of the Committee on 21 April, 2007 subsequently chose not to pursue them purportedly because 'it wanted to restrict itself to its terms of reference'. These core issues raised by the Inquiry Committee earlier, if pursued to their logical end, would not only have provided the Inquiry Committee a lot more clarity in unraveling the truth but also the Country would have known the exact details as to what transpired in this sordid incident.**

(d) Informed Consent

6.12 Obtaining Informed Consent from study subjects is a core requirement in the conduct of clinical trials and protection of human rights. In case of minors, the Consent has to be signed by parents/guardians. In the case of uneducated signatories, an independent person has to explain and witness the consent process. The Informed Consent document approved by various Ethics Committees on PATH project included the sentence: "I have read the information in this consent form (or it has been read to me). I consent to allow my daughter to receive three doses of HPV vaccines." In the case of Andhra Pradesh 9,543 forms were signed, 1,948 had thumb impressions while hostel warden had signed 2,763 forms. In the case of Gujarat 6,217 forms were signed, 3,944 had thumb impressions and 545 were either signed or carried thumb impression of guardians. The data shows that a very large number of parents/guardians were illiterate and could not even sign in their local language *i.e.* Telugu or Gujarati.

6.13 One of the experts, while going into the question of Informed consent in great detail, in two reports, has pointed out glaring discrepancies. Out of 100 consent forms for AP Project taken for study, it was found that signatures of witnesses were missing in 69 forms. In many forms there were no dates while in others the signature of just one person appeared in seven forms The legality of the Andhra Pradesh State Government circular directing all Headmasters/Wardens in all private/government/ashram schools to sign the consent forms on behalf of parents/guardians was also questionable.

6.14 The Inquiry Committee, while going through the above report, noticed the following irregularities and discrepancies in the study:

(i) The warden/teachers/headmasters were not given written permission by the parents/ guardians to sign on behalf of their girls.

(ii) On many forms witness had not signed and of the forms which are signed, it is not clear whether they are signed by full time government employees, as per rules.

(iii) Neither the photograph nor the photo ID card of parents/guardians/wardens is pasted in consent form.

(iv) On many forms investigator has not signed.

(v) On some forms signature of parents/guardians is not matching with their names.

(vi) The date of vaccination is much earlier than the date of signature of parents/guardian in the consent forms. Apparently they were obtained post-facto.

(vii) In some forms, the name is of the father but signature is of probably mother (lady's name).

6.15 Secretary, DHR and DG, ICMR while deposing before the Committee, reiterated that the regulatory approvals given to the project were in proper order and due attention was paid to the guidelines and formats for seeking consent. However, during the implementation of the project certain irregularities took place. He admitted there were cases of discrepancies in A.P. He admitted that many consent forms were filled up by the Principal on behalf of the students. He admitted to gross violation in the recording of SAEs also. He informed the Committee that keeping all these observations in view the DCGI, besides issuing immediate instructions to stop the study, had sought explanations for irregularities committed during the study.

6.16 **The Committee observes that obtaining informed consent from study subjects is a fundamental requirement in the conduct of clinical trials to ensure that the human rights of the study subjects are ensured. In case of minors it is mandatory that the consent be**

signed by parents/guardians. For the uneducated subjects, the law requires an independent person to explain and witness the consent process. The Committee is however, deeply shocked to find that in Andhra Pradesh out of the 9543 forms, 1948 forms have thumb impressions while hostel wardens have signed 2763 forms. In Gujarat, out of the 6217 forms 3944 have thumb impressions and 5454 either signed or carried thumb impressions of guardians. The data also revealed that a very large number of parents/guardians are illiterate and could not even write in their local languages viz. Telugu or Gujarati. The Committee is further shocked to find from one of the reports that out of 100 consent forms for Andhra Pradesh project signatures of witnesses were missing in 69 forms. In many forms there were no dates. One particular person had signed seven forms. In fact the legality of Andhra Pradesh State Government directing headmasters in all private/ Government/ashram/schools to sign the consent form on behalf of parents/guardians is highly questionable. The absence of photographs of parents/guardians/wardens on consent forms, the absence of signatures of investigators; the signatures of parents/guardians not matching with their names; the date of vaccination being much earlier than the date of signature of parents/guardian in the consent forms, etc. all speak of grave irregularities.

6.17 **The Committee, accordingly, concludes that most, if not all consent forms, were carelessly filled-up and were incomplete and inaccurate. The full explanation, role, usefulness and pros and cons of vaccination had not been properly communicated to the parents/guardians. The Committee observes that there is a gross violation of the consent and legal requirement of consent which had been substantiated by the experts. The Committee takes a serious view of the violations and strongly recommends that on the basis of the above facts, PATH should be made accountable and the Ministry should take appropriate action in the matter including taking legal action against it for breach of various laws of the land and possible violations of laws of the Country of its origin.**

6.18 The Committee was informed that the basic aim of the study was to evaluate strategies for introduction and delivery of the vaccines in the public sector. Strangely four of the five primary outcome measures proposed in the study related to evaluation and determination of safety of the vaccines.

6.19 One of the experts has stated that there was lack of rigour in the design regarding reporting and dealing with serious adverse events. He has pointed out absence of preparedness in the event of any such occurrence that would put children at grave risk. The side effects mentioned by the manufacturers themselves were revised several times and now include serious health issues. Since there were contra-indications to the use of the vaccines, the reasons for not ascertaining contra-indications before the girls were vaccinated is clearly an act of willful negligence.. The design of the project neither took the possibility of Serious Adverse Event (SAE) seriously nor was there any attention paid to the need for an independent monitoring agency. Consequently action on investigations into the causes of deaths took an unacceptably long time. A number of discrepancies and gaps in the investigations of the deaths have also been pointed out. There was no diary card based reporting of adverse events for recording minor or major adverse events in the study protocol in such a large study. This resulted in gross under reporting of the adverse events.

6.20 Another expert, while analyzing deaths and Adverse Events Following Immunizations (AEFI) has observed after reviewing all seven deaths (five deaths from AP in the Gardasil group and two deaths in Gujarat from Cervarix group), that there was no common pattern to the deaths that would suggest that these were caused by the vaccine. However, the reporting system as per Government of India surveillance of vaccine preventable disease guidelines notification was not done within time limit in two cases in AP and both the cases in Gujarat. There was no uniformity in the reporting system of AEFI in both the States. The primary end point of the study was to

find out the number of girls having serious and non serious adverse events following vaccination through routine UIP system. He has opined that in this regard first of all routine system of reporting should have been verified in both States.

6.21 Another expert has stated that the reporting of non-serious AEs was grossly under reported and hence the accuracy of SAEs is doubtful as well. It has been observed that delay in reporting and investigations of deaths could have been due to sole dependence on routine UIP protocol. It was a significant lapse in the protocol and execution of the study. While reporting on safety aspects in the study, it has been pointed out that there was absence of preparedness to handle Serious Adverse Events (SAE) like anaphylaxis, cardiac arrest, seizures, etc. occurring at the sites of vaccine administration. Though such serious adverse events might be rare but it was advisable to be well prepared for such an eventuality through adequate training of health workers. Assessment of the immune status of the participants by the ANM, ASHA or the health workers was virtually non-existent. These issues needed to be addressed as prescribing information of the HPV vaccines specifically contra-indicates administration in immune-compromised subjects (such as HIV/AIDS etc.).

6.22 **The Committee, in the light of the observations made by experts, feels that the methodology and implementation of the study at both the places was full of flaws. The Committee is of the view that since the population under study was vulnerable, utmost caution should have been exercised in the implementation of the study. The Committee also recommends that there should be an independent monitoring mechanism in such a study involving human participants so that the accurate recording of AEs and SAEs could be made. The findings of the experts clearly indicate that the safety and rights of the children in this vaccination project were highly compromised and violated. The Committee is also concerned over the fact that there was no insurance cover for the children. The Committee strongly recommends that while allowing any such trial in future, all the lapses pointed out by the experts should be addressed effectively. ICMR and DCGI should ensure strict adherence to the guidelines, methodology and monitoring.**

(e) Role of Ethics Committees

6.23 While examining the role of the Ethics Committees in both the States, one of the experts pointed out that Ethics Committees were supposed to meet periodically to evaluate and monitor the progress of the project and review SAE reports. No such meetings were held by the Committees. Only after reports of deaths appeared in the media, the meetings of these Committees were held.

6.24 **The Committee takes a serious note of the fact that both the Ethics Committees existed only as a formality and they did not play the role they were designated for. This is a clear dereliction of duty on the part of the Ethics Committees. The Committee apart from recommending suitable action in the matter, strongly recommends that there should be a mechanism in place to take appropriate action against such dereliction of duty on the part of the Ethics Committees. There should be specific guidelines for Ethics Committees and the Ethics Committees should strictly follow them. The functioning of Ethics Committees should be regularly monitored.**

(f) Use of Official Machinery

6.25 The Committee has noted that the information/publicity material displayed/distributed at trial sites implied that the Government had started a vaccination programme. Thus, the credibility of the Universal Immunization Programme (UIP) was used to promote private, foreign interests. It has

been found that the funds meant for the NRHM were used, without authorization for monitoring and transportation of the vaccines to the fields for use in the project.

6.26 **The Committee observes that the wrongful use of the NRHM logo for a project implemented by a private, foreign agency as well as the identification of this project with the UIP has adversely affected and damaged the credibility of the programme as well as that of the NRHM. The Committee, therefore, recommends that such practices of diverting public funds for advancing interests of a private agency should never be allowed in future. The Committee strongly recommends that strict action should be taken against those officials responsible for such lapses.**

6.27 Besides, the Committee notes that no information had been provided to Indian authorities about funding of the project except that it was reportedly funded by Bill and Melinda Gates Foundation and that the vaccines had been donated by the manufacturers. The information regarding financial investments of ICMR and State Governments in the project was not provided, though the States clearly provided cold chain and manpower for immunization. **The Committee, accordingly, observes that it might have been more prudent if the National Technical Advisory group on Immunization (NTAGI) had been brought into the picture right in the beginning to review and give its views on the study prior to its approval and implementation.**

6.28 No information is available on the total outlay on the project spent by PATH, ICMR, state governments of Andhra Pradesh and Gujarat (immunization staff, cold chain system, equipment, transportation etc.). According to the documents submitted by PATH to ICMR/Health Ministry Screening Committee, the total outlay by PATH for expenses in India was Rs. 29,76,000. However Centre for Operations Research and Training (CORT), a sub-contractor of PATH had quoted US$ 83,889 (first year) and US$ 96,472 (second year), which is not included in the figure submitted to ICMR/HMSC.

6.29 **Considering the above lapses and irregularities committed by PATH during the course of conducting the trials on hapless tribal children in Andhra Pradesh and Gujarat, the Committee is convinced that the authorities concerned did not exercise due diligence in scrutinizing the publicity material of PATH. Blurring the distinction between the UIP and PATH project due to the involvement of the State Governments in the project and ignoring the financial contribution of ICMR and the State Governments are very serious issues. The Committee, therefore, recommends that the Ministry should investigate into the above acts of omissions and commissions and take necessary action against those who are found responsible for breach of rules and regulations.**

(g) Action taken on the Inquiry Committee Report

6.30 With a view to find out the action taken by the Government on the findings of the Inquiry Committee, the Committee again heard the Secretary, Department of Health Research/DG, ICMR along with DCGI at its meeting held on 24th May, 2013. The Secretary informed the Committee that after the submission of Report by the Inquiry Committee, they were formally called to give explanation in the year 2011. In addition, clarifications were also sought from them in between which were formally answered to. The Committee in the said meeting desired to know whether criminal inquiry, if any, has been initiated against PATH on account of the following irregularities in the conduct of trial as pointed out by the Inquiry Committee:

(i) Irregularities in obtaining consent forms and actual implementation of the consent process;

(ii) Lack of monitoring and preparedness to deal with serious adverse events;

(iii) Inclusion of vulnerable and tribal population groups;

(iv) Blurring of distinction between Universal Immunization Programme and PATH study;

(v) Absence of insurance coverage for the study participants; and

(vi) Inclusion of the statement in the consent form that "you will not be charged for your daughter to receive the vaccine" that could be construed as covert inducement.

6.31 The Committee also sought to know as to whether any compensation was awarded to the families of children for suppression of material information before administering vaccines.

6.32 The Committee also took note of the Action Taken Note submitted by Department of Health Research wherein it was informed that subsequent to findings of the Inquiry Committee following action was taken:

(i) PATH was informed about suggestions made by the Committee;

(ii) Principal Investigators of other suspended studies on HPV vaccines were informed to get their studies re-examined from respective Ethics Committees after addressing the concerns raised by the Inquiry Committee;

(iii) DCG(I) was informed of the suggestions of the Committee for necessary action; and

(iv) Suggestions were forwarded to the relevant authority for inclusion in the Draft bill on Biomedical Research on Human Subjects.

6.33 DCG(I) informed the Committee that subsequent to findings of the Inquiry Committee; the following action was taken:

(i) Both the manufacturers of HPV vaccines have been asked to submit additional data for 4 years on PSURs (Periodic Safety Update Reports), every 6 months for first 2 years, and annually during the subsequent 2 years, and to submit protocol for approval for conducting post marketing surveillance study;

(ii) Proposal to amend the definition of "New Drug" under rule 122-E would be taken up for consideration; and,

(iii) In future the following steps would be ensured before approving a clinical trial by DCG(I): (a) every clinical trial is to be registered at ICMR's clinical trial registry of India; (b) every approval would include a condition for provision of complete medical care in case of study related injury/death and the statement to this effect is to be included in the informed consent: (c) DCG(I) should be informed about death/injury: (d) Schedule 'Y' would be amended to expand the responsibilities of sponsors, investigators and Ethics Committees; and (e) the consent forms are to be amended to include details of address and occupations of subject giving socio-economic background.

6.34 **The Committee is amazed at the audacity of DCGI to merely repeat various steps which it proposes to take as if they are new, additional measures. All these are already part of the written rules and are supposed to be followed by all sponsors. Except for slight amendment in the Informed Consent Form, there is nothing new in the ATN submitted by DCGI.**

6.35 The Committee observes that the Department has nothing fresh to offer in the status note as the same information was furnished by it in December, 2012 *vide* its updated note on Action Taken after availability of Report of enquiry Committee.

6.36 **The Committee not being convinced with the action taken by the Department or DCGI, feels that the whole issue has been diluted and no accountability has been fixed on the erring Officials/Departments for the gross violations committed in the conduct of Study. The Committee also feels that a very casual approach has been taken by the Department in the matter and their replies lack any concrete action to protect and safeguard the health of our people.**

6.37 **The Committee also noticed lack of firm action on the part of DCGI, to avoid such irregularities in future. One of the actions proposed by the DCGI to check any recurrence of such gross violations was 'proposal to amend the definition of New Drug during the next meeting'. The same assurance was given by DCGI in December, 2012. The Committee, accordingly, observes that response of the Department and DCGI is very casual, bureaucratic and lacks any sense of urgency. The Committee feels that DCGI is not very serious in bringing improvements in the system. It, therefore, desires the Ministry to ensure compliance by DCGI.**

VII. PROGRAMME FOR APPROPRIATE TECHNOLOGY IN HEALTH (PATH)

7.1 The Committee during the course of its present examination sought information from the Government about PATH in order have a better understanding of its legal status and its *locus standi* in carrying out various activities on the Indian soil including the project in question where apparently several laws of India and possibly of its country of origin had been violated.

7.2 The information furnished to the Committee reveals that PATH describes itself as an "International nonprofit, non-government organization based in the United States." Legally, it is a Public Benefit Corporation (PBC) registered (No. 600588751 dated 28th August, 1981) by the Corporation and Charities Division in the State of Washington. For all practical purposes its legal status in US is equivalent to a Registered Society in the Indian context. It is certainly not a commercial company and hence would not be subject to the jurisdiction of Company Law Board or Registrar of Companies in India. Incidentally, Ford Foundation is also a PBC (Registration number 768093 dated 15th January, 1936). Under American laws organizations such as Trusts, Fraternal Societies, Savings and Loan Associations, Municipal Utility Services etc. are all registered as PBCs.

7.3 Under Indian rules, foreign non-commercial organizations such as PATH wanting to set up an office in India are required to obtain (a) permission from the Ministry of External Affairs (MEA) from "political angle" (**Annexure B**) and (b) permission from Ministry of Home Affairs (MHA) from "security angle" (**Annexure C**). In the latter case, application needs to be forwarded through proper channel such as Ministry of Health and Family Welfare for health-related activities, Ministry of Human Resources for education related activities, Ministry of Labour for trade union or workers related activities etc. Once such an approval is accorded, then an office can be setup which should naturally abide by all other laws of the land such as income tax, shop and establishment act, municipal and other applicable laws, just to mention a few.

7.4 The Committee asked the Department to direct PATH to provide details of various mandatory permissions required by foreign agencies, including charities, for and in connection with opening office in India and the date of opening of its office in India. Unbelievably, the exact date of opening the office is not even known to its functionaries in New Delhi. To begin with vide its letter dated 5-3-2012, PATH claimed that "it has a Liaison Office status under Income Tax Rules." Since no such provision exists, after prolonged correspondence it settled for 19th April, 1999 as the date of opening office based on the fact that its PAN card (No. AAFCP2249G) is dated 19th April, 1999. The Committee was intrigued because PAN card is issued just for income tax

purposes and nothing else. Income Tax Department does not go about permitting foreign entities to open offices in India. In any case PAN card is not a replacement for Ministry of External Affairs and Ministry of Home Affairs approvals. Besides, the application for issuance of PAN card must have been made much before 19th April 1999 there being no online system of obtaining PAN card instantaneously. It can be safely assumed that the date of opening office has to be much earlier than 19th April, 1999.

7.5 PATH also produced copy of a letter dated 16-3-1999 from PATH office in US to the Exchange Control Department of the Reserve Bank of India along with reply dated 19-4-1999 received by PATH in US on 29-4-1999. It merely stated that since PATH is "not engaged in any commercial, trading or industrial activity," it does not need "RBI permission from foreign exchange angle. *However you may seek necessary approval from the Government of India or other statutory/ regulatory bodies as applicable."* Apparently PATH paid no attention to RBI's sane advice. Even before the letter reached PATH office in the United States on 29-4-1999, it had already opened its office in India.

7.6 The Foreign Exchange Regulation Act (FERA) was replaced with Foreign Exchange Management Act (FEMA) on 1-6-2000. PATH produced post-facto permission from the Reserve Bank of India dated 25-5-2009 which clearly stated:

> *"RBI permission (is) granted from the foreign exchange angle….and should not be construed to convey the approval of any other statutory authority or Government under any other laws/regulations."* Moreover, the Liaison Office is permitted to undertake "solely liaison work for the head office" as mentioned below:
>
> 1. Representing in India the parent company/group companies
> 2. Promoting export, import from/to India.
> 3. Promoting technical/financial collaborations between parent/group companies and companies in India.
> 4. Acting as a communication channel between the parent company and Indian companies.
>
> "The office in India will not render any consultancy or any other services directly/indirectly with or without any consideration."
>
> In addition *"Permission granted by RBI is limited to and for the purpose of the provisions of FEMA-2000 and shall not be construed in any way as regularizing, condoning or in any manner validating any irregularities, contraventions and other lapses, if any, under the provisions of any other law."*

7.7 It is clear that the back dated permission obtained after 10 years of having opened its office in India was merely and exclusively from foreign exchange angle and not a substitute for approval from MEA and MHA.

7.8 Finally and belatedly PATH produced a certificate from the Registrar of Companies (RoC) dated 23-9-2009 stating that PATH, a company originally incorporated in US, had filed documents on 10-09-2009 notifying establishment of place of business in India *w.e.f.* 19.4.1999. The Certificate was apparently issued in violation of its own rules that states that documents must be submitted within 30 days of the establishment of "place of business." In any case such a certificate cannot and does not obviate the need to obtain baseline, mandatory permission from MEA and MHA. Moreover RoC deals with commercial companies, not foreign trusts, foundations and charities.

7.9 PATH also claimed that it had received "permission" from the Ministry of Health and Family Welfare to set up an office in India. The *post-facto* letter dated 27-4-2001 (two years after PATH admits having opened the office in India) is not a permission at all but a vague, non-specific statement to say that PATH was "engaged in health care related activities".

7.10 According to the published Annual Report of PATH for the year 2008, it received funding in "excess of US $ 1,000" from many governmental sources including the Ministry of Health and Family Welfare, Government of India. However, in response to Rajya Sabha Question Number 952 on 3.8.2010, the Health Minister denied any Ministry funding to PATH.

7.11 **The Committee is concerned that if PATH can set up an office in India so easily without getting the required mandatory approvals/permissions, then individuals and entities inimical to the interest of the country can do the same. The Committee expresses its concern that paper and shell companies can be easily registered in many jurisdictions and then set up a place of business in India as "Liaison offices" with no questions being asked. It is surprising that security and intelligence agencies did not raise an eyebrow on the way a foreign entity entered India virtually incognito through the backdoor. The Committee desires that such incidents should not be allowed in future. The Government should tighten the rules lest one day foreign citizens, with deep roots in organizations/nations inimical to India, set up offices in the country to engage in anti-national and/or unlawful activities.**

7.12 **It is apparent the PATH has exploited with impunity the loopholes in our system as also the absence of a nodal point or a single window for maintaining a data bank of foreign entities entering the Country for setting up their offices. Given the multiplicity of agencies involved in processing such requests there is a definite need for a nodal agency which would keep a tab on all such existing and aspiring agencies from the point of view of having obtained all necessary clearances/permissions before commencing their operations in India. The Committee strongly recommends that government set up one such umbrella agency which should be linked to all the agencies that are involved in processing such requests. The Committee desires that within three months such an agency should be put in place and start functioning. The proposed nodal agency should be a part of MHA with a well established coordination mechanism with the MEA so that undeserving cases are dealt forthwith through diplomatic channels. All ministries/departments/agencies/state governments/other entities should be required to share details of all requests/proposals from foreign entities for setting up offices in any form with this nodal agency.**

7.13 **Coming to the instant case, it is established that PATH by carrying out the clinical trials for HPV vaccines in Andhra Pradesh and Gujarat under the pretext of observation/ demonstration project has violated all laws and regulations laid down for clinical trials by the Government. While doing so, its sole aim has been to promote the commercial interests of HPV vaccine manufacturers who would have reaped windfall profits had PATH been successful in getting the HPV vaccine included in the UIP of the Country. This is a serious breach of trust by any entity as the project involved life and safety of girl children and adolescents who were mostly unaware of the implications of vaccination. The violation is also a serious breach of medical ethics. This act of PATH is a clear cut violation of the human rights of these girl children and adolescents. It also deems it an established case of child abuse. The Committee, therefore, recommends action by the Government against PATH. The Committee also desires that the National Human Rights Commission and National Commission for Protection of Children Rights may take up this matter from the point of view of the violation of human rights and child abuse. The National Commission for Women should also *suo motu* take cognizance of this case as all the poor and hapless subjects are females.**

7.14 **The Ministry of Health and Family Welfare should without wasting time report the violations indulged in by PATH to international bodies like WHO and UNICEF so as to ensure that appropriate remedial action is initiated by these agencies worldwide.**

7.15 **The Committee also desires that the Ministry of Health and Family Welfare may take up the matter through the Ministry of External Affairs with the US Government so as to ensure that appropriate action is taken against PATH under the laws of its country of origin in case of any violations of laws there.**

OBSERVATIONS/RECOMMENDATIONS — AT A GLANCE

II. NATURE OF PROJECT

1. **The Committee finds the entire matter very intriguing and fishy. The choice of countries and population groups; the monopolistic nature, at that point of time, of the product being pushed; the unlimited market potential and opportunities in the universal immunization progammes of the respective countries are all pointers to a well planned scheme to commercially exploit a situation. Had PATH been successful in getting the HPV vaccine included in the universal immunization programme of the concerned countries, this would have generated windfall profit for the manufacturer(s) by way of automatic sale, year after year, without any promotional or marketing expenses. It is well known that once introduced into the immunization programme it becomes politically impossible to stop any vaccination. To achieve this end effortlessly without going through the arduous and strictly regulated route of clinical trials, PATH resorted to an element of subterfuge by calling the clinical trials as "Observational Studies" or "Demonstration Project" and various such expressions. Thus, the interest, safety and well being of subjects were completely jeopardized by PATH by using self-determined and self-servicing nomenclature which is not only highly deplorable but a serious breach of law of the land. The Committee is not aware about the strategy followed by PATH in the remaining three countries *viz.* Uganda, Vietnam and Peru. The Government should take up the matter with the Governments of these countries through diplomatic channels to know the truth of the matter and take appropriate necessary action, accordingly. The Committee would also like to be apprised of the responses of these countries in the matter.** (Para 2.5)

III. ROLE OF DEPARTMENT OF HEALTH RESEARCH/INDIAN COUNCIL OF MEDICAL RESEARCH

2. **The Committee is unable to understand as to how ICMR could commit itself to support "the use of the HPV vaccine" in an MOU signed in the year 2007 even before the vaccine was approved for use in the country, which actually happened in 2008. The Committee also questions the decision of ICMR to commit itself to promote the drug for inclusion in the Universal Immunization Programme (UIP) even before any independent study about its utility and rationale of inclusion in UIP was undertaken.** (Para 3.10)

3. **The Committee feels that there was serious dereliction of duty by many of the Institutions and individuals involved. The Committee observes that ICMR representatives, instead of ensuring highest levels of ethical standards in research studies, apparently acted at the behest of the PATH in promoting the interests of manufacturers of the HPV Vaccine.** (Para 3.18)

4. **It was unwise on the part of ICMR to go in the PPP mode with PATH, as such an involvement gives rise to grave Conflict of Interest. The Committee takes a serious view of the role of ICMR in the entire episode and is constrained to observe that ICMR should have been more responsible in the matter. The Committee strongly recommends that the Ministry may review the activities of ICMR functionaries involved in PATH project.** (Para 3.19)

5. **The Committee from its examination has found that DHR/ICMR have completely failed to perform their mandated role and responsibility as the apex body for medical research in the Country. Rather, in their over-enthusiasm to act as a willing facilitator to the machinations of PATH they have even transgressed into the domain of other bodies/ agencies which deserves the strongest condemnation and strictest action against them. The Committee fails to understand as to why ICMR took so much interest and initiative in this project when the safety, efficacy and introduction of vaccines in India is handled by National Technical Advisory Group on Immunization (NTAGI). The submissions of the Secretary, DHR/DG, ICMR before the Committee about the commencement of the project, facts of the case and the action taken have also failed to stand scrutiny during the Committee's examination of the matter. The Committee, therefore, reiterates the recommendation made in their Forty-first Report that the matter of allowing trial of the vaccine as also the approval for its marketing in the Country be inquired into by a premier investigating agency and appropriate action be taken thereafter by the Government in the matter. The Committee expects the Government not to procrastinate in this matter any further.** (Para 3.22)

IV. ROLE OF DRUG CONTROLLER GENERAL, INDIA (DCGI)

6. **The Committee's examination has proved that DCGI has also played a very questionable role in the entire matter. Initially, it took a call that since human subjects, as part of the studies, were receiving invasive intervention like immunization, clinical trial rules must be enforced. However, it remained as a silent spectator thereafter, even when its own rules and regulations were being so flagrantly violated. The approvals of clinical trials, marketing approval and import licenses by DCGI appear to be irregular. Therefore, the role of DCGI in this entire matter should also be inquired into.** (Para 4.6)

VI. INQUIRY COMMITTEE

(c) Adverse Events Reporting

7. **The Committee notes that once this matter was taken up by it, the Government appointed an Inquiry Committee on 15 April, 2010 to inquire into 'alleged irregularities in the conduct of the studies using HPV vaccines by PATH in India'. The Committee has noted the serious conflict of interest of members of this Inquiry Committee with the subject matter. The Committee, therefore, strongly deprecates the Government for appointing a committee to inquire into such a serious matter in such a casual manner even without ascertaining as to whether any of the members of the said Inquiry Committee were having any conflict of interest with the subject matter of inquiry.** (Para 6.10)

8. **The Committee finds it very intriguing as to when the Inquiry Committee after having sought details of some core issues in the very first meeting of the Committee on 21 April, 2007 subsequently chose not to pursue them purportedly because 'it wanted to restrict itself to its terms of reference'. These core issues raised by the Inquiry Committee earlier, if pursued to their logical end, would not only have provided the Inquiry Committee a lot more clarity in unraveling the truth but also the Country would have known the exact details as to what transpired in this sordid incident.** (Para 6.11)

(d) Informed Consent

9. **The Committee observes that obtaining informed consent from study subjects is a fundamental requirement in the conduct of clinical trials to ensure that the human rights**

of the study subjects are ensured. In case of minors it is mandatory that the consent be signed by parents/guardians. For the uneducated subjects, the law requires an independent person to explain and witness the consent process. The Committee is however, deeply shocked to find that in Andhra Pradesh out of the 9543 forms, 1948 forms have thumb impressions while hostel wardens have signed 2763 forms. In Gujarat, out of the 6217 forms 3944 have thumb impressions and 5454 either signed or carried thumb impressions of guardians. The data also revealed that a very large number of parents/guardians are illiterate and could not even write in their local languages viz. Telugu or Gujarati. The Committee is further shocked to find from one of the reports that out of 100 consent forms for Andhra Pradesh project signatures of witnesses were missing in 69 forms. In many forms there were no dates. One particular person had signed seven forms. In fact the legality of Andhra Pradesh State Government directing headmasters in all private/ Government/ashram/schools to sign the consent form on behalf of parents/guardians is highly questionable. The absence of photographs of parents/guardians/wardens on consent forms, the absence of signatures of investigators; the signatures of parents/guardians not matching with their names; the date of vaccination being much earlier than the date of signature of parents/guardian in the consent forms, etc. all speak of grave irregularities. (Para 6.16)

10. **The Committee, accordingly, concludes that most, if not all consent forms, were carelessly filled-up and were incomplete and inaccurate. The full explanation, role, usefulness and pros and cons of vaccination had not been properly communicated to the parents/guardians. The Committee observes that there is a gross violation of the concept and legal requirement of consent which had been substantiated by the experts. The Committee takes a serious view of the violations and strongly recommends that on the basis of the above facts, PATH should be made accountable and the Ministry should take appropriate action in the matter including taking legal action against it for breach of various laws of the land and possible violations of laws of the Country of its origin.** (Para 6.17)

11. **The Committee, in the light of the observations made by experts, feels that the methodology and implementation of the study at both the places was full of flaws. The Committee is of the view that since the population under study was vulnerable, utmost caution should have been exercised in the implementation of the study. The Committee also recommends that there should be an independent monitoring mechanism in such a study involving human participants so that the accurate recording of AEs and SAEs could be made. The findings of the experts clearly indicate that the safety and rights of the children in this vaccination project were highly compromised and violated. The Committee is also concerned over the fact that there was no insurance cover for the children. The Committee strongly recommends that while allowing any such trial in future, all the lapses pointed out by the experts should be addressed effectively. ICMR and DCGI should ensure strict adherence to the guidelines, methodology and monitoring.** (Para 6.22)

12. **The Committee takes a serious note of the fact that both the Ethics Committees existed only as a formality and they did not play the role they were designated for. This is a clear dereliction of duty on the part of the Ethics Committees. The Committee apart from recommending suitable action in the matter, strongly recommends that there should be a mechanism in place to take appropriate action against such dereliction of duty on the part of the Ethics Committees. There should be specific guidelines for Ethics Committees and the Ethics Committees should strictly follow them. The functioning of Ethics Committees should be regularly monitored.** (Para 6.24)

13. **The Committee observes that the wrongful use of the NRHM logo for a project implemented by a private, foreign agency as well as the identification of this project with the UIP has adversely affected and damaged the credibility of the programme as well as that of the NRHM. The Committee, therefore, recommends that such practices of diverting public funds for advancing interests of a private agency should never be allowed in future. The Committee strongly recommends that strict action should be taken against those officials responsible for such lapses.** (Para 6.26)

14. **Besides, the Committee notes that no information had been provided to Indian authorities about funding of the project except that it was reportedly funded by Bill and Melinda Gates Foundation and that the vaccines had been donated by the manufacturers. The information regarding financial investments of ICMR and State Governments in the project was not provided, though the States clearly provided cold chain and manpower for immunization. The Committee, accordingly, observes that it might have been more prudent if the National Technical Advisory group on Immunization (NTAGI) had been brought into the picture right in the beginning to review and give its views on the study prior to its approval and implementation.** (Para 6.27)

15. **Considering the above lapses and irregularities committed by PATH during the course of conducting the trials on hapless tribal children in Andhra Pradesh and Gujarat, the Committee is convinced that the authorities concerned did not exercise due diligence in scrutinizing the publicity material of PATH. Blurring the distinction between the UIP and PATH project due to the involvement of the State Governments in the project and ignoring the financial contribution of ICMR and the State Governments are very serious issues. The Committee, therefore, recommends that the Ministry should investigate into the above acts of omissions and commissions and take necessary action against those who are found responsible for breach of rules and regulations.** (Para 6.29)

16. **The Committee is amazed at the audacity of DCGI to merely repeat various steps which it proposes to take as if they are new, additional measures. All these are already part of the written rules and are supposed to be followed by all sponsors. Except for slight amendment in the Informed Consent Form, there is nothing new in the ATN submitted by DCGI.** (Para 6.34)

17. **The Committee not being convinced with the action taken by the Department or DCGI, feels that the whole issue has been diluted and no accountability has been fixed on the erring Officials/Departments for the gross violations committed in the conduct of Study. The Committee also feels that a very casual approach has been taken by the Department in the matter and their replies lack any concrete action to protect and safeguard the health of our people.** (Para 6.36)

18. **The Committee also noticed lack of firm action on the part of DCGI, to avoid such irregularities in future. One of the actions proposed by the DCGI to check any recurrence of such gross violations was 'proposal to amend the definition of New Drug during the next meeting'. The same assurance was given by DCGI in December, 2012. The Committee, accordingly, observes that response of the Department and DCGI is very casual, bureaucratic and lacks any sense of urgency. The Committee feels that DCGI is not very serious in bringing improvements in the system. It, therefore, desires the Ministry to ensure compliance by DCGI.** (Para 6.37)

VII. PROGRAMME FOR APPROPRIATE TECHNOLOGY IN HEALTH (PATH)

19. **The Committee is concerned that if PATH can set up an office in India so easily**

without getting the required mandatory approvals/permissions, then individuals and entities inimical to the interest of the country can do the same. The Committee expresses its concern that paper and shell companies can be easily registered in many jurisdictions and then set up a place of business in India as "Liaison offices" with no questions being asked. It is surprising that security and intelligence agencies did not raise an eyebrow on the way a foreign entity entered India virtually incognito through the backdoor. The Committee desires that such incidents should not be allowed in future. The Government should tighten the rules lest one day foreign citizens, with deep roots in organizations/nations inimical to India, set up offices in the country to engage in anti-national and/or unlawful activities. (Para 7.11)

20. **It is apparent the PATH has exploited with impunity the loopholes in our system as also the absence of a nodal point or a single window for maintaining a data bank of foreign entities entering the Country for setting up their offices. Given the multiplicity of agencies involved in processing such requests there is a definite need for a nodal agency which would keep a tab on all such existing and aspiring agencies from the point of view of having obtained all necessary clearances/permissions before commencing their operations in India. The Committee strongly recommends that government set up one such umbrella agency which should be linked to all the agencies that are involved in processing such requests. The Committee desires that within three months such an agency should be put in place and start functioning. The proposed nodal agency should be a part of MHA with a well established coordination mechanism with the MEA so that undeserving cases are dealt forthwith through diplomatic channels. All ministries/departments/agencies/state governments/other entities should be required to share details of all requests/proposals from foreign entities for setting up offices in any form with this nodal agency.** (Para 7.12)

21. **Coming to the instant case, it is established that PATH by carrying out the clinical trials for HPV vaccines in Andhra Pradesh and Gujarat under the pretext of observation/ demonstration project has violated all laws and regulations laid down for clinical trials by the Government. While doing so, its sole aim has been to promote the commercial interests of HPV vaccine manufacturers who would have reaped windfall profits had PATH been successful in getting the HPV vaccine included in the UIP of the Country. This is a serious breach of trust by any entity as the project involved life and safety of girl children and adolescents who were mostly unaware of the implications of vaccination. The violation is also a serious breach of medical ethics. This act of PATH is a clear cut violation of the human rights of these girl children and adolescents. It also deems it an established case of child abuse. The Committee, therefore, recommends action by the Government against PATH. The Committee also desires that the National Human Rights Commission and National Commission for Protection of Children Rights may take up this matter from the point of view of the violation of human rights and child abuse. The National Commission for Women should also *suo motu* take cognizance of this case as all the poor and hapless subjects are females.** (Para 7.13)

22. **The Ministry of Health and Family Welfare should without wasting time report the violations indulged in by PATH to international bodies like WHO and UNICEF so as to ensure that appropriate remedial action is initiated by these agencies worldwide.** (Para 7.14)

23. **The Committee also desires that the Ministry of Health and Family Welfare may take up the matter through the Ministry of External Affairs with the US Government so as to ensure that appropriate action is taken against PATH under the laws of its country of origin in case of any violations of laws there.** (Para 7.15)

MINUTES

VIII

EIGHTH MEETING

(2009-10)

The Committee met at 11.00 A.M. on Tuesday, the 6th April, 2010 in Room No. 139, First Floor, Parliament House Annexe, New Delhi.

MEMBERS PRESENT

RAJYA SABHA

1. Shri Amar Singh — *Chairman*
2. Shrimati Viplove Thakur
3. Dr. Radhakant Nayak
4. Shri Janardan Dwivedi
5. Shrimati Brinda Karat
6. Shrimati Vasanthi Stanley

LOK SABHA

7. Shri Ashok Argal
8. Shrimati Sarika Devendra Singh Baghel
9. Dr. Chinta Mohan
10. Dr. Sanjay Jaiswal
11. Shri S.R. Jeyadurai
12. Dr. (Shrimati) Kruparani Killi
13. Shri N. Kristappa
14. Dr. Tarun Mandal
15. Dr. Jyoti Mirdha
16. Shri R.K. Singh Patel
17. Dr. Anup Kumar Saha
18. Shrimati Meena Singh
19. Dr. Arvind Kumar Sharma
20. Shri Ratan Singh

SECRETARIAT

Shrimati Vandana Garg, *Additional Secretary*

Shri R. B. Gupta, *Director*

Shrimati Arpana Mendiratta, *Joint Director*

Shri Dinesh Singh, *Assistant Director*

WITNESSES

* * *

Representatives from the Department of Health Research

1. Dr.Vishwa Mohan Katoch, Secretary
2. Ms. Shalini Prasad, Joint Secretary
3. Dr. Vijay Kumar, Scientist
4. Dr. Bela Shah, Head NCD Division
5. Dr. K. Satyanarayana, Head P&I Division
6. Shri Sanjiv Datta, Financial Adviser

* * *

2. At the outset, the Chairman welcomed Members to the meeting and informed them about the agenda of the meeting, *i.e.*, examination of Demands for Grants (2010-11) of the Ministry of Health and Family Welfare and taking oral evidence of the Secretaries * * *, Health Research * * * in connection therewith.

3. * * *

4. * * *

5. * * *

6. * * *

7. The Committee then adjourned at 1.30 P.M. for lunch to meet again at 2.30 P.M.

8. * * *

9. During the course of the meeting, Shrimati Brinda Karat, Member of the Committee raised the issue about the trial of HPV vaccine on the children in Khammam district of Andhra Pradesh and reported deaths of the children therefrom and sought exact status in this regard from the Secretary. The Secretary, Department of Health Research informed the Committee that the Drug Controller General of India had given approval for marketing of HPV vaccine in India as per schedule 'Y' of the Drugs and Cosmetics Act and then a post-marketing surveillance. The Committee was informed that the proposal for trial came two years back before the ICMR through PATH, an American NGO. Attention of the Secretary was drawn to DCGI guidelines whereunder third phase trial cannot be conducted on children until a similar trial was conducted on adults. It was admitted by the Secretary that the DCGI guidelines were not adhered to in the present case. The Committee was assured that State Governments of Andhra Pradesh and Gujarat would be asked to get the ongoing clinical trial stopped immediately. Taking serious view of procedural and ethical lapses on the part of the Ministry, the Committee sought the matter of allowing trial of the vaccine as also the approval for its marketing in the country to be enquired into by a premier investigating agency and to take further appropriate action in the matter. It also asked that findings of the investigating agency and the follow-up action taken in this regard may be furnished to the Committee at the earliest.

10. * * *

11. * * *

12. A verbatim record of the proceedings of the meeting was kept.

13. The Committee then adjourned at 5.15 P.M.

---

* Relate to other matters.

XV

FIFTEENTH MEETING

(2010-11)

The Committee met at 11.00 A.M. on Monday, the 25th July, 2011 in Committee Room 'A', Ground Floor, Parliament House Annexe, New Delhi.

MEMBERS PRESENT

RAJYA SABHA

1. Shri Brajesh Pathak — *Chairman*
2. Shri Janardan Dwivedi
3. Shrimati Viplove Thakur
4. Dr. Vijaylaxmi Sadho
5. Shrimati Brinda Karat
6. Shri Rasheed Masood
7. Shrimati B. Jayashree

LOK SABHA

8. Shri Ashok Argal
9. Shrimati Sarika Devendra Singh Baghel
10. Shri Vijay Bahuguna
11. Dr. Sanjay Jaiswal
12. Shri S.R. Jeyadurai
13. Shri N. Kristappa
14. Dr. Tarun Mandal
15. Dr. Jyoti Mirdha
16. Dr. Anup Kumar Saha
17. Shrimati Meena Singh
18. Shri Pradeep Kumar Singh

SECRETARIAT

Shri P.P.K. Ramacharyulu, *Joint Secretary*
Shri R. B. Gupta, *Director*
Shrimati Arpana Mendiratta, *Joint Director*
Shri Dinesh Singh, *Assistant Director*

WITNESSES

* * *

Department of Health Research

1. Dr. V.M. Katoch, Secretary, Health Research
2. Ms. Shalini Prasad, Joint Secretary
3. Shri S.K. Rao, Joint Secretary

---

* Relate to other matters.

2. The Chairman welcomed the Members of the Committee and apprised them of the agenda of the meeting, *i.e.* to hear oral evidence on (i) * * *(ii) * * * and (iii) issues arising out of the final report of the Committee to enquire into "Alleged irregularities in the conduct of studies using Human Papilloma Virus (HPV)" by PATH in the country.

3. * * *

4. * * *

(*The Committee adjourned at* 12.20 *P.M. to meet again at* 2.30 *P.M.)*

5. In the second half of the meeting, the Committee heard the views of Secretaries of Departments of Health Research and Health and Family Welfare on the issues arising out of the final report of the Committee appointed to enquire into "Alleged irregularities in the conduct of studies using Human Papilloma Virus (HPV) by PATH in the country". The Secretary, Department of Health Research, in his deposition, admitted before the Committee that the trials of the vaccine were not conducted by PATH according to the required protocol/guidelines in Andhra Pradesh. He admitted flaws in ethical procedure in conducting the tests such as lack of proper consent from the parents etc. He further stated that new guidelines are being issued and a moratorium has been imposed on further trials till guidelines are issued. The Members raised some queries like how far it was ethically correct for ICMR to go into Private Public Partnership (PPP) mode, faulty design of project; differences between ICMR and DCGI with respect to the project, action taken against the person involved; sale of this vaccine even before it was tested. The Members also enquired as to why the said enquiry report has not been posted on the website of the Ministry. The Secretary, Department of Health and Family Welfare submitted before the Committee that show cause notice of 15 days has been issued to PATH to seek its written views on the issue and action will be taken within three months after the reply of PATH is received. Members also raised queries like sources and magnitude of funding of this project, compensation to the affected parties and blacklisting of PATH, etc. which were partly answered. The Committee directed the witnesses to furnish written replies to queries which remained unanswered.

6. A verbatim record of the proceedings of the meeting was kept.

7. The Committee then adjourned at 3.30 P.M.

---

* Relate to other matters.

XII

TWELFTH MEETING

(2012-13)

The Committee met at 12.00 (NOON) on Friday, the 24th May, 2013 in Committee Room 'A', Ground Floor, Parliament House Annexe, New Delhi.

MEMBERS PRESENT

1. Shri Brajesh Pathak — *Chairman*

RAJYA SABHA

2. Dr. Vijaylaxmi Sadho
3. Shri Rasheed Masood
4. Shri Jagat Prakash Nadda
5. Shri D. Raja
6. Shri H.K. Dua
7. Shrimati B. Jayashree

LOK SABHA

8. Shri Kirti Azad
9. Shri Mohd. Azharuddin
10. Shrimati Sarika Devendra Singh Baghel
11. Dr. Sucharu Ranjan Haldar
12. Dr. Monazir Hassan
13. Dr. Sanjay Jaiswal
14. Shri Tarun Mandal
15. Shrimati Jayshreeben Patel
16. Shri Harin Pathak
17. Dr. Anup Kumar Saha
18. Dr. Raghuvansh Prasad Singh

SECRETARIAT

Shri P.P.K. Ramacharyulu, *Joint Secretary*
Shri R. B. Gupta, *Director*
Shrimati Arpana Mendiratta, *Joint Director*
Shri Pratap Shenoy, *Committee Officer*

WITNESSES

Department of Health Research

1. Dr. V. M. Katoch, Secretary
2. Dr. D. K. Shukla, Scientist-F
3. Dr. Tanveer Kaur, Scientist-D

Department of Health and Family Welfare

Dr. G. N. Singh, Drug Controller General of India

I. Opening Remarks

2. At the outset, the Chairman welcomed Members of the Committee and apprised them of the agenda of the meeting, *i.e.*, to hear the Secretary, Department of Health Research along with the Drug Controller General of India (DCGI) on the Action Taken on the final report of the Committee appointed by the Government of India to enquire into "Alleged irregularities in the conduct of studies using Human Papilloma Virus (HPV) vaccine" by PATH in India. * * *

II. Oral Evidence of the Secretary, Department of Health Research and DCGI on the final report of the Committee appointed by the Government of India to enquire into"Alleged irregularities in the conduct of studies using Human Papilloma Virus (HPV) vaccine" by PATH in India

3. Thereafter, the Committee heard the Secretary, Department of Health Research on the Action Taken on the final report of the Committee appointed by the Government of India to enquire into"Alleged irregularities in the conduct of studies using Human Papilloma Virus (HPV) vaccine" by PATH in India. In his deposition, the Secretary, stated that in the year 2007, PATH had applied for licence for trials which was approved in the year 2008 and trails were started on the tribal and non tribal girls of Andhra Pradesh and Gujarat in the year 2009 to see the acceptance of the vaccines. In the year 2010, five deaths in Andhra Pradesh and two deaths in Gujarat were reported. Subsequent to the reported deaths an expert Committee was set up under the Chairmanship of Prof. S.S. Aggarwal, PGIMER, Chandigarh, which in its Report submitted in February, 2011, found the discrepancies in respect of: (i) consent forms and actual implementation of the consent process; (ii) methods of monitoring of adverse effects/serious adverse effects and remedial measure for such events; (iii) inclusion of vulnerable and tribal population groups; (iv) blurring of distinction between National Immunization Programme and Path study; (v) insurance coverage for the study participants; and (vi) convert inducement and indirect coercion etc. The Secretary, apprised the Committee about the remedial action taken pursuant to the findings of the expert Committee. However, members were not satisfied with the action taken by the Department.

4. The Drug Controller General of India, in his deposition, *inter alia* stated that during the future trials for any vaccination, the following safeguards would be adopted: (i) consent form would be transparent; (ii) consent would be in audiovisual format; (iii) clear guidelines have been framed. He also informed the Committee that these guidelines are available on the website of the Ministry. Further, he informed the Committee that in future strict emphasis would be laid on enforcement and patient safety.

5. Thereafter, members raised queries on some issues including conduct of trail without guardian's approval; details of action taken, if any, against officials who had given approval to these trials; absence of complete details of postmortem conducted on the subjects who had died during the said trials; details of use of machinery of State Governments by PATH during the conduct of the trials; whether the said trials were classified as 'clinical trial'; non action on the findings of the Expert Committee, etc. The Chairman directed the witnesses to send comprehensive written replies to queries which remained unanswered, within a week's time.

6. A verbatim record of the proceedings of the meeting was kept.

7. The Committee adjourned at 12.56 P.M.

---

* Relate to other matters.

XV

FIFTEENTH MEETING

(2012-13)

The Committee met at 4.00 P.M. on Thursday, the 29th August, 2013 in Committee Room 'A', Ground Floor, Parliament House Annexe, New Delhi.

MEMBERS PRESENT

1. Shri Brajesh Pathak — *Chairman*

RAJYA SABHA

2. Shri Jagat Prakash Nadda
3. Shri Mohd. Ali Khan
4. Shri H.K. Dua

LOK SABHA

5. Shri Kuvarjibhai M. Bavalia
6. Dr. Sucharu Ranjan Haldar
7. Mohd. Asrarul Haque
8. Dr. Sanjay Jaiswal
9. Shrimati Jayshreeben Patel
10. Dr. Anup Kumar Saha
11. Shri P. T. Thomas

SECRETARIAT

Shri P.P.K. Ramacharyulu, *Joint Secretary*

Shri R. B. Gupta, *Director*

Shrimati Arpana Mendiratta, *Joint Director*

Shri Dinesh Singh, *Deputy Director*

Shri Pratap Shenoy, *Committee Officer*

* * *

I. Opening Remarks

2. At the outset, the Chairman welcomed the Members of the Committee and apprised them of the agenda of the meeting, *i.e.*, * * * and consider and adopt draft Seventy-second Report on "Alleged irregularities in the conduct of studies using Human Papilloma Virus (HPV) vaccine by PATH in India."

---

* Relates to other matters.

II. Adoption of the Draft Report on "Alleged irregularities in the conduct of studies using Human Papilloma Virus (HPV) vaccine by PATH in India."

3. The Committee then considered and discussed the draft Seventy-second Report on "Alleged irregularities in the conduct of studies using Human Papilloma Virus (HPV) vaccine by PATH in India." The Chairman invited Members to share their specific suggestions for incorporation in the Draft Report. After some discussion, the Committee adopted the Report with some modifications.

4. The Committee, thereafter, decided that the Report may be presented to the Rajya Sabha and laid on the Table of the Lok Sabha on Friday, the 30th August, 2013. The Committee authorized its Chairman and in his absence, Shri Shri H.K. Dua and Shri Jagat Prasad Nadda to present the Report in Rajya Sabha, and Shri Sanjay Jaiswal, and in his absence, Dr. Anup Kumar Saha to lay the Report on the Table of the Lok Sabha.

II. * * *

3. * * *

4. * * *

5. A verbatim record of the proceedings of the meeting was kept.

6. The Committee adjourned at 5.00 P.M.

ANNEXURES

ANNEXURE-A

Committee to investigate "Alleged irregularities in conduct of studies in India using Human Papilloma Virus (HPV) vaccine"

Minutes of the 5th **Meeting** held on September 27th at the Indian Red Cross Society, (NHO), New Delhi

1. All members of the committee were present. In addition the Experts nominated to assist the committee *vide* GO no. V.250II/160/20IO-HR dated June 30th, 2010 were also invited to attend the meeting.

2. The minutes of the meeting dated June 22nd, 2010 as circulated were adopted.

3. The Experts were requested to present salient findings of their reports and the members discussed with them their findings. A summary of the discussions is as follows:

   (a) Dr. Rani Kumar, Dean, AIIMS –

      (i) She was requested to carry out numerical analysis of the consent forms – under headings already identified – separately for the AP and Gujarat. (Action: Dr. Rani Kumar)

      (ii) She requested the list of members of the two ethics committees at AP and Gujarat. In particular she asked about the membership of a lawyer in the committee. She also asked about the functioning of these committees – the number and dates of meetings, and any monitoring of the PATH study prior to repots in the Press. (Action: Dr. Kishore Chaudhry)

      (iii) Opined that the trial in adolescent girls was justified as this is the target group to benefit, but authorization of school authorities by the AP Govt. to give consent on behalf of the girls was not correct. Also, implementation of the procedure of taking consent lacked rigor.

   (b) Dr. Y.K. Gupta, HOD Pharmacology, AIIMS – made the following points:

      (i) Bridging trials in India, as required under Schedule Y for drugs/vaccines already approved and in use abroad, for licensing in India were carried out as required. One of the studies was in Adults and the other one was in adolescent girls.

      (ii) The DCGI has licensed the GSK HPV vaccine Cervarix for " .... females from 10-45 years of age for prevention of cervical cancer. ... ", and MSD vaccine Gardasil for " .. girls and women 9-26 years of age for prevention of cervical cancer ..."

      (iii) There is wide international experience, including that in India, regarding use of HPV vaccines in adolescent girls.

      (iv) HPV vaccines are quite safe. Millions of doses of HPV vaccines of both types have been used abroad. By the end of May, 2010, there were 16, 410 VARES reports of AE following Gardasil vaccination licensed in the US in 2006. 8% of these have been considered serious, including syncope, GB syndrome, blood clots, and anaphylaxis. A total of 53 deaths have been recorded following vaccination

but they do not seem to be related to the vaccine. The use of the vaccine continues all over the world. Several countries have incorporated it in their national programmes.

(v) Both the GSK and MSD have submitted the required Periodic Safety Update Reports to the DCGI. These are international reports, and not India specific. There has been some delay in submission of these reports. The last six monthly report for 18th November to 17th May, 2010 which should have covered the reports the deaths from India has not been submitted yet.

(vi) A critical analysis of the First Information Reports of SAE/Deaths, Medical records related to these events and the Post-mortem reports do not support the possibility of deaths to be related to vaccine but it can not be ruled out with certainty. This was mainly because the alternate cause of death as listed can not be fully substantiated on the basis of medical records in all the cases. The quality of the medical records was not adequate. The capability of the local staff and preparedness to deal with SAEs/Critical illnesses leading to death is also suspect. Most of the deaths were detected when the ANMs were mobilizing the recipients for the next vaccination. These events were not reported and investigated timely. In most cases the treatment was provided by private medical practitioners and the subjects had to be shifted to a better facility while they died on the way. There was no plan to deal with the crisis as it emerged.

(vii) There is a strong need to strengthen the post-licensing surveillance.

(c) Dr. A.K. Dutta, Head of Pediatrics, Kalavati Saran Hospital, New Delhi –

(i) Dr. Dutta focused on analysis of Deaths and AE, both serious and minor, under the HPV vaccination project carried out in AP and Gujarat, by PATH in collaboration with the respective State Governments.

(ii) Dr. Dutta highlighted that the Primary Outcome measures of the project were:

– Number and percent of eligible girls fully vaccinated, partially vaccinated or not vaccinated at all according to vaccine delivery strategy

– Number and percent of vaccinated girls experiencing serious adverse events, as reported spontaneously through routine mechanisms of UIP programme

– Number and percent of vaccinated girls experiencing non-serious adverse events, as reported spontaneously through routine mechanisms of UIP programme

– Timelines of reporting serious adverse events to local, state and National authorities, as per the usual UIP protocol and

– Timelines of reporting non-serious adverse events to local, state and National authorities, as per the usual UIP protocol

(iii) Since 4 out of the 5 outcome measures related to monitoring and reporting of AE the project should not have totally relied on the existing UIP AEFI reporting system. There should have been a parallel research based monitoring system for AEFI to compare with the State system. Alternatively the effectiveness of the State system should have been pre-verified before initiating the study.

(iv) Dr. Dutta found that 3 of the 7 deaths have occurred within 30 days of last vaccine dose (one in AP and 2 in Gujarat, on days 18,20 and 23), while 4 were after this period (45,49,96,97 days after the vaccine).

The ones within 30 days have been attributed to Fever of unknown origin - ? Viral, Malaria and Snake bite. Two of the 4 later deaths were attributed to Pesticide poisoning. In both cases post-mortem has been done and chemical report on record has confirmed presence of the poison in stomach.

In one case there was history of drowning in a pond. The fourth case has died after a brief illness of few hours, probably neurological ? Intracranial hemorrhage/ Intracranial space occupying lesion.

Dr. Dutta's observation was that – 1. There was no specific pattern of illness leading to death, 2. The illnesses can not be explained by expected adverse responses to vaccine, and 3. There was an alternate plausible diagnosis in most cases. Therefore, the deaths were unlikely to be related to the vaccine. However, post-mortem has been carried out only in 2 cases. And the alternate diagnosis is not confirmed in all the cases.

(v) Further a critical analysis of the reporting of other AE and SAE shows the inadequacies of the AEFI reporting system. Dr. Dutta was of the opinion whether it was an observational study or otherwise the vaccine was administered to the subjects and data collected for enerating knowledge. It should have followed all the rigors of the research.

4. The committee deliberated on the reports of the Experts and pertinent data received under various queries raised during previous meetings of the committee. Besides the factual information about the terms of reference the committee was greatly concerned with the aspect of commercial interests of manufacturers influencing the Government policy on this expensive vaccine. The committee observed that the study was initiated by PATH on its own having obtained funds from the Bill and Melinda Gates Foundation and supply of vaccine from the manufacturers – without any reference from the NTAGI, the official body of the GOI on vaccines. It is not clear whether the State expenses were funded by PATH or came from their own resources. The monetary contribution of ICMR is also not clear. The committee therefore felt that it would be in the fitness of the inquiry to document the sources and magnitude of funding of the study. It desired to obtain the following information from the PI, *i.e.* PATH in this case:

(i) Letter of Sanction of grant form Bill and Melinda Gates foundation for Indian study

(ii) Letter of donation of vaccine by the manufacturers and the invoice indicating the cost of the vaccine for trial in India

(iii) Copies of the letters of PATH to ICMR and State Government, including the terms and conditions of collaboration

(iv) Financial contribution of the 3 parties to the study, *viz*., the PA TH, ICMR and the State Governments from beginning till date

Action: Dr. Kishore Chaudhry

5. The committee noted the urgency to submit the report. Since most of the facts have been gathered and analyzed, including the critical input of the experts, it decided to expedite the finalization of the report. Since there was consensus on all issues among the members, the committee authorized the chairman to prepare the draft report which may be circulated to all the members and then finalized in a meeting called for the purpose. In the meantime the additional information as identified above may also be collected. The next meeting could be held in about 2 week time. (Action: Chairman)

ANNEXURE-B

Government of India
Ministry of External Affairs

भारत सरकार
विदेश मंत्रालय, नई दिल्ली

New Delhi the_____200

No.AA/551/1/2011 Dt. 11th June, 2012.

OFFICE MEMORANDUM

Sub: Clinical Trial of HPV Vaccine – regarding

Reference O.M. No. RS.10/2(ii)/2011-Com. (H&FW) dated 4th June, 2012 from the Parliament of India, Rajya Sabha Secretariat, New Delhi, on the subject mentioned above.

2 As per the existing procedure, the clearance of the Ministry of External Affairs from Political angle is required before any foreign organisation/charity/foundation etc. sets up an office/branch in India. The concerned foreign entity may approach this Ministry with a detailed proposal, to be routed through the concerned nodal Ministry in India, for processing and issue of above Political clearance.

Sd/-
(R.K. Nagpal)
Deputy Secretary (Coord)

Parliament of India
Rajya Sabha Secretariat,
[Kind Attn: Ms. Arpana Mendiratta, Joint Director],
Parliament House/Annexe,
New Delhi. Telefax: 23035428
23012007

ANNEXURE-C

No.II/20034/280/2012-IS-II
Government of India
Ministry of Home Affairs
IS-I Division, (IS-II Desk)

New Delhi, the 5th July, 2012

Office Memorandum

Subject:– Parliamentary Standing Committee on Health and Family Welfare – clinical trial of HPV Vaccine and related matters – furnishing of information to the Committee.

The undersigned is direacted to enclose a copy of Rajya Sabha Secretariat O.M No.RS.10/2(ii)/2011-Com.(H&FW) dated 21st June, 2012 along with a copy of earlier D.O. letter dated 4th June, 2012 regarding clinical trial of HPV Vaccine on the subject noted above and to state that Department of Economic Affairs is the concerned Administrative Ministry for "setting up of the Liaison Offices/Branch Offices/Project Offices in India by foreign entities". As such, laying down the procedure/rules/guidelines etc. for setting up of such offices falls within the ambit of DEA.

2. Department of Economic Affairs seeks MHA's comments from security angle on the applications received from various firms for setting up of the Liaison Offices/Branch Offices/Project Offices in India by foreign entities. As such, Ministry of Home Affairs assesses the suitability of the applicant company from security angle.

3. Further, a draft Circular proposed by RBI and forwarded by DEA containing additional reporting feature by foreign entities for implementing additional security safeguards is under consideration in this Ministry.

4. In view of foregoing, the above Rajya Sabha Secretariat O.M. dated 21st June, 2012 along with its enclosures is transferred to Department of Economic Affairs for giving a suitable reply to Rajya Sabha Secretariat, under intimation to this Ministry.

Sd/-
(Rakesh Mittal)
Director (IS-I)

Department of Economic Affairs,
(Shri R.K. Sinha, Under Secretary),
North Block, New Delhi.

Copy for information to: Rajya Sabha Secretatiat (Ms. Arpana Mendiratta, Joint Director), Parliament House Annexe, New Delhi-110001.

Printed at : Bengal Offset Works, 335, Khajoor Road, Karol Bagh, New Delhi-110005.