

**MINUTES OF THE XXVI MEETING OF COMMITTEE FOR THE PURPOSE OF CONTROL AND SUPERVISION OF EXPERIMENTS ON ANIMALS (CPCSEA) WAS HELD ON 19.9.2008 AT 11.00 A.M. UNDER THE CHAIRMANSHIP OF SHRI B.S. PARSHEERA, CHAIRMAN, CPCSEA AND ADDITIONAL SECRETARY (CONS.), MINISTRY OF ENVIRONMENT & FORESTS**

A list of members who attended the meeting and those who were granted leave of absence is enclosed.

The Chairman, CPCSEA, welcomed the members of the Committee and thereafter with the permission of Chairman, agenda items were taken up, as follows:

**AGENDA ITEM NO.26.1: TO CONFIRM THE MINUTES OF THE TWENTY FIFTH MEETING OF CPCSEA WAS HELD ON 21<sup>st</sup> July, 2008.**

The Committee confirmed the Minutes of the XXV Meeting which was held on 21<sup>st</sup> July, 2008

**AGENDA ITEM NO.26.2 : TO REVIEW THE ACTION TAKEN ON THE MINUTES OF THE XXV MEETING AND PENDING POINTS OF PREVIOUS MEETINGS OF CPCSEA.**

**9.2-3.1.2 Review of experiments using animals in case of traditional medicine &**

**9.2-3.2.5 Funding of projects on traditional system of medicine and proper scientific review with regard to the scope and purpose of research.**

The Committee perused the guidelines submitted by the Director, AYUSH regarding animal experimentation and observed that these are vague and irrelevant. In the guidelines kind and type of experimental animals to be used in the various experiments are not specified. It has been decided by the committee that AYUSH should follow the guidelines as mentioned in 'Y' schedule for use of animals in testing of the drugs. It has also been recommended that registration of all the research units /centers / establishments under AYUSH, where animals will be used or are being used in the experimentation may be made. In case of experimentation on large animals, their Animal House Facilities must also be approved by CPCSEA prior to initiation of the experiments.

**13.6 Deposit of the amount collected as registration/renewal fee**

The committee has been apprised of the situation that the original request submitted by CPCSEA, is not traceable. It has been suggested by the committee that efforts may be made to locate the papers or submit a fresh request within 30 days.

**16.6.2 Action to be taken on the basis of Report of Consultative Group on Review of the Norms and practices for Regulation of Animal Experimentation**

The Committee noted the status.

### **17.5 Approval of Animal House Facility by CPCSEA**

(a) **Central Sheep and Wool Research Institute (CSWRI), Avikanagar, Jaipur & its Southern Regional Research Centre, , Tamil Nadu** - The Committee was informed that a show cause notice has already been issued to the establishment. The Committee was of the opinion that 15 days time may be given to the establishment for reply in the matter.

(b) **Institute of Veterinary Biology Products, Department of Animal Husbandary, Pune, Maharashtra** – The Committee perused the compliance report of Animal House Facility of the establishment and suggested that the re-inspection of Animal House Facility may be done.

### **17.7 Sub-Committee for Selection of CPCSEA Nominees on Institutional Animal Ethics Committees.**

The Committee noted the status.

### **18.5 Approval of Animal House Facility by CPCSEA**

(a) **Veterinary College, University of Agricultural Sciences, Hebbal, Bangalore** – The Committee noted the status and suggested that the re-inspection of the Animal House Facility of the College may be done.

(b) **Post Graduate Institute of Medical Education And Research (PGIMER), Chandigarh** - The Committee noted the status and suggested that the re-inspection of the Animal House Facility of the Institute may be done.

### **19.3. Registration of Institutes with CPCSEA**

The Committee was apprised of the steps taken for publication of CPCSEA advertisement in National News paper and Scientific Journals. The Committee is of the opinion that reminders may be sent to the editors of the Scientific Journals from whom reply / response has not been received, and also the editor of Journal of Current Science may be contacted / approached for publication of advertisement of CPCSEA at the earliest.

### **19.6 Approval of Animal House Facility By CPCSEA**

**Bharat Serum & Vaccines Limited, Thane, Maharashtra** – The Committee noted the status and suggested that the re-inspection of the Animal House Facility of the establishment may be done by the Expert Consultant.

**22.5 : Rehabilitation of monkey from Central Animal Facility, AIIMS to Asola Bhatti Wild Life through a trauma-free exercise – regarding permission of CPCSEA.** - The Committee perused the compliance report and suggested that the re-inspection of the Sanjay Gandhi Animal Care Centre, Raja Garden, New Delhi may be done by the Expert Consultant.

**22.8 : State wise list of the applicants alongwith their details to become CPCSEA Nominees - for consideration and approval of CPCSEA**

(i) The Committee was apprised with the progress made during the process of selection of new nominees and compilation of their details by CPCSEA. It was decided by the committee that a meeting of the “Sub-Committee for selection of CPCSEA nominee” may be held in Hyderabad, November, 2008 for finalization of the selection of new nominees and the list of newly selected nominees may be put up in the next meeting of CPCSEA.

**23.6 Approval of Animal House Facility by CPCSEA**

**Dr. A.L.M. Post Graduate Institute of Basic Medical Science, Taramani Campus, University of Madras, Chennai, Tamil Nadu-** The Animal House Facility was approved by the committee.

**24.4 Conference of CPCSEA** - The Committee discussed the issue in depth to hold the proposed conference of CPCSEA in November, 2008, as decided in the earlier meeting of CPCSEA. The Committee was of the opinion that the proposed Conference of CPCSEA may be held in January, 2009 in NIN, Hyderabad. In this connection, the Director, NIN may be approached for holding the CPCSEA Conference and progress in this regard may be put up in the next meeting of CPCSEA.

**AGENDA ITEM NO. 26.3: REGISTRATION OF INSTIUTE WITH CPCSEA.**

The Committee noted the status .

**AGENDA ITEM NO. 26.4: CONSIDERATION OF PROPOSAL RELATED TO ANIMAL EXPERIMENTATION**

**AGENDA ITEM NO. 26.4.1: NEW PROPOSALS FOR CONSIDERATION OF CPCSEA:**

S. No	Name of the institute/Name of the Investigator	Project Titles	Decision of XXVI CPCSEA Meeting
1	<p>Cadila Healthcare Ltd. (Zydus Research Centre)            Survey No. 396/403, NH-8A, Tal-Sanand, Changodar,            Dist-Ahmedabad, Gujarat, Pin-382113/            Dr. S. Rajesh Sundar</p> <p>Received in May, 2008</p>	<p>Four-week repeated dose parental toxicity &amp; toxicokinetics study of Thormbospondin in Beagle dogs with 2-week recovery.</p> <p>Species /Common name : Beagle dogs            No. to be used : Range findinsg : 3 M + 3 F            Main Study : 12 M + 12 F            Recovery groups : 4 M + 4 F            Total animals : 6- Range finding            32 Main study</p>	<p>The Committee discussed the proposal in depth and observed that how the establishment procured experimental dogs without having any prior permission / approval of CPCSEA and how the import of dogs has been permitted by DG&amp;FT. Clarifications may be obtained within 15 days.</p> <p>The clarifications may also be sought from DG&amp;FT and the procedure of import of animals may be ascertained.</p> <p>It has been suggested by the committee that Animal House Facilities of the establishment where these imported dogs are being kept may be inspected by a team of CPCSEA comprising Dr. V.K. Vinayak &amp; Member-Secretary, CPCSEA and during inspection all records may be verified.</p> <p>The approval of committee of Review Committee on Genetic Manipulation (RCGM) should be furnished, if it is required for research protocol.</p>

2	<p>Cadila Healthcare Ltd. (Zydus Research Centre) Survey No. 396/403, NH-8A, Tal-Sanand, Changodar, Dist-Ahmedabad, Gujarat, Pin-382113/ Dr. S. Rajesh Sundar</p> <p>Received in May, 2008</p>	<p>52 week repeated dose oral toxicity and toxicokinetics study of ZYO1 in Beagle dogs.</p> <p>Species /Common name : Beagle dogs Main Study : 24 M + 24 F Total animals : 48</p>	-do-
3	<p>Cadila Healthcare Ltd. (Zydus Research Centre) Survey No. 396/403, NH-8A, Tal-Sanand, Changodar, Dist-Ahmedabad, Gujarat, Pin-382113/ Mr. Harilal Patel, Scientist</p> <p>Received in May, 2008</p>	<p>Pharmacokinetic evaluation study of new discovery molecules [Anti arthritis, Anti inflammatory, Anti obesity, Anti diabetic and CNS-Cardiovascular research area] in beagle dogs.</p> <p>Species /Common name : Beagle dogs No. to be used : 50 of each sex for each study (total 100 animal/three years). [5 M &amp; 5 F dog will used for each NCEs from each therapeutic research area, minimum two lead NCEs would be expected from each therapeutic area, so No of NCEs (2), no of dogs 5 M + 5F = 10 =20 per therapeutic area, total 100 animal for five therapeutic area for three years.</p>	-do-

4	<p>Cadila Healthcare Ltd. (Zydus Research Centre) Survey No. 396/403, NH-8A, Tal-Sanand, Changodar, Dist-Ahmedabad, Gujarat, Pin-382113/ Dr. S. Rajesh Sundar</p> <p>Received in May, 2008</p>	<p>Thirteen week repeated dose intravenous toxicity and toxicokinetics study of PEG-EPO in Beagle dogs with four-week recovery.</p> <p>Species /Common name : Beagle dogs No. to be used : Range finding : 3 M + 3 F Main Study : 24 M + 24 F Recovery groups : 6 M + 6 F Total animals : 6- Range finding 60 Main study</p>	-do-
5	<p>Cadila Healthcare Ltd. (Zydus Research Centre) Survey No. 396/403, NH-8A, Tal-Sanand, Changodar, Dist-Ahmedabad, Gujarat, Pin-382113/ Mr. Harilal Patel, Scientist</p> <p>Received in May, 2008</p>	<p>Pharmacokinetic evaluation study of ZYO2 in beagle dogs.</p> <p>Species /Common name : Beagle dogs No. to be used : (Year-wise breakups and total figures needed to be given) :5 of each sex for each study (total 10 of each sex/year). [5 M &amp; 5 F dog will used )</p>	-do-
6.	<p>Cadila Healthcare Ltd. (Zydus Research Centre) Survey No. 396/403, NH-8A, Tal-Sanand, Changodar, Dist-Ahmedabad, Gujarat, Pin-382113/ Mr. S. Rajesh Sundar</p> <p>Received in May, 2008</p>	<p>52 week repeated dose oral toxicity and toxicokinetics study of ZYH7 in Beagle dogs</p> <p>Species /Common name : Beagle dogs No. to be used : Main Study : 24 M + 24 F Recovery groups : 6 M + 6 F Total animals : 48</p>	-do-
7	<p>Cadila Healthcare Ltd. (Zydus Research Centre) Survey No. 396/403, NH-8A, Tal-Sanand, Changodar, Dist-Ahmedabad, Gujarat, Pin-382113/ Mr. S. Rajesh Sundar</p> <p>Received in May, 2008</p>	<p>Four-week repeated dose oral toxicity and toxicokinetics study of ZY6863 in Beagle dogs with 2-week recovery.</p> <p>Species /Common name : Beagle dogs Range finding : 3 M + 3 F Main Study : 12 M + 12 F Recovery groups : 4 M + 4 F Total animals : 6 Range finding 32 Main study</p>	-do-

8.	Cadila Healthcare Ltd. (Zydus Research Centre) Survey No. 396/403, NH-8A, Tal-Sanand, Changodar, Dist-Ahmedabad, Gujarat, Pin-382113/ Dr. S. Rajesh Sundar Received in May, 2008	Four week repeated dose subcutaneous toxicity and toxicokinetics study of PEG-EPO (ZY7318) in Beagle dogs with atleast two week recovery.  Species /Common name : Beagle dogs Range finding : 3 M + 3 F Main Study : 12 M + 12 F Recovery groups : 4 M + 4 F Total animals : 6 Range finding 32 Main Study	-do-
9.	Lupin Limited (Research Park) 46A/47A, village- Nande Taluka-Mulshi, Pune411 042 Dr. Gururaj Vishwase Received on 23.6.2008	Maximum Tolerated Dose Assessment of New Chemical Entity (LL 6531) in Dogs  Species : Beagle Dog (Canis familiaris) Gender /sex : M & F No. to be used : 6 (3 M + 3 F)	The Committee discussed the proposal in depth and observed that the formal request for import of dogs and their source has not been mentioned clearly in the proposal.
10.	Lupin Limited (Research Park) 46A/47A, village- Nande Taluka-Mulshi, Pune411 042 Dr. Gururaj Vishwase Received on 23.6.2008	Maximum Tolerated Dose Assessment of New Chemical Entity LL 7274 in Dogs  Species : Beagle Dog (Canis familiari) Gender /sex : M & F No. to be used : 6 (3 M + 3 F)	-do-
11.	Lupin Limited (Research Park) 46A/47A, village- Nande Taluka-Mulshi, Pune411 042 Dr. Gururaj Vishwase Received on 23.6.2008	Repeated Dose Toxicity (28 days) Assessment of New Chemical Entity (LL 6531) in Dogs  Species : Beagle Dog (Canis familiaris) Gender /sex : M & F No. to be used : 32 (16 M + 16 F)	-do-

12.	Lupin Limited (Research Park) 46A/47A, village- Nande Taluka-Mulshi, Pune411 042 Dr. Reeba Vikramadithyan Received on 23.6.2008	Evaluation of DPP IV inhibitor LL7274, for plasma DPPIV activity and gastro-intestinal absorption (PK/PD) in male and female Beagle dogs  Species : Beagle Dog (Canis familiaris) Gender /sex : M & F No. to be used : 11 (Males) and 11 (Females)	-do-
13.	Lupin Limited (Research Park) 46A/47A, village- Nande Taluka-Mulshi, Pune411 042 Dr. K.H. Sreedhara Swamy Received on 23.6.2008	Effect of antidiabetic compound LL6531 on blood pressure and ECG parameters in conscious freely-moving telemetrized male and female Beagle dogs (safety pharmacology study)  Species : Beagle Dog (Canis familiaris) Gender /sex : M & F No. to be used : 8 (4 M + 4 F)	-do-
14.	Lupin Limited (Research Park) 46A/47A, village- Nande Taluka-Mulshi, Pune411 042 Dr. Salim Tamboli Received on 23.6.2008	Chronic Toxicity Assessment of New Chemical Entity (LLL 3348) in Beagle Dogs  Species : Beagle Dog (Canis familiaris) Gender /sex : M & F No. to be used : 48 (24 M + 24 F)	-do-
15	Jai Research Foundation (JRF) Valvada-396 108 Dist. Valsad, Gujarat./ Dr. Virendrasinh M. Zala  Received on 20.8.2008	PK Study in Beagle Dogs (NRC Formulation-01 &-02)  No. of Species/Common name : Beagle Dog (Canis familiaris) Gender : Male and Female No. to be used : 6 M +6 F	The Committee discussed the proposal in depth and observed that source of import of experimental animals is not mentioned as well as a formal request for import of experimental dogs is to be submitted to CPCSEA for consideration and approval.  The detailed composition of Institutional Animal Ethics Committee (IAEC) of the establishment does not indicate designations, disciplines of the members and the name of organizations to which they belong.

16	Jai Research Foundation (JRF) Valvada-396 108 Dist. Valsad, Gujarat./ Dr. Virendrasinh M. Zala  Received on 20.8.2008	PK Study in Beagle Dogs (NRC 1008)  No. of Species/Common name : Beagle Dog (Canis familiaris) Gender : Male and Female No. to be used : 3 M +3 F	-do-
17.	Jai Research Foundation (JRF) Valvada-396 108 Dist. Valsad, Gujarat./ Dr. Virendrasinh M. Zala  Received on 20.8.2008	PK Study in Beagle Dogs (NRC 2694)  No. of Species/Common name : Beagle Dog (Canis familiaris) Gender : Male and Female No. to be used : 3 M +3 F	-do-
18.	Jai Research Foundation (JRF) Valvada-396 108 Dist. Valsad, Gujarat./ Dr. Virendrasinh M. Zala  Received on 20.8.2008	PK Study in Beagle Dogs (GVK-01)  No. of Species/Common name : Beagle Dog (Canis familiaris) Gender : Male and Female No. to be used : 3 M +3 F	-do-
19.	Jai Research Foundation (JRF) Valvada-396 108 Dist. Valsad, Gujarat./ Dr. Virendrasinh M. Zala  Received on	PK Study in Beagle Dogs (GVK-02)  No. of Species/Common name : Beagle Dog (Canis familiaris) Gender : Male and Female No. to be used : 3 M +3 F	-do-
20.	Jai Research Foundation (JRF) Valvada-396 108 Dist. Valsad, Gujarat./ Dr. Virendrasinh M. Zala  Received on 20.8.2008	PK Study in Beagle Dogs (GVK-03)  No. of Species/Common name : Beagle Dog (Canis familiaris) Gender : Male and Female No. to be used : 3 M +3 F	-do-

21.	Jai Research Foundation (JRF) Valvada-396 108 Dist. Valsad, Gujarat./ Dr. Virendrasinh M. Zala  Received on 20.8.2008	PK Study in Beagle Dogs (GVK-04)  No. of Species/Common name : Beagle Dog (Canis familiaris) Gender : Male and Female No. to be used : 3 M +3 F	-do-
22.	Jai Research Foundation (JRF) Valvada-396 108 Dist. Valsad, Gujarat./ Dr. Virendrasinh M. Zala  Received on 20.8.2008	PK Study in Beagle Dogs (GVK-05)  No. of Species/Common name : Beagle Dog (Canis familiaris) Gender : Male and Female No. to be used : 3 M +3 F	-do-
23.	Jai Research Foundation (JRF) Valvada-396 108 Dist. Valsad, Gujarat./ Dr. Virendrasinh M. Zala  Received on 20.8.2008	PK Study in Beagle Dogs (Rel-01)  No. of Species/Common name : Beagle Dog (Canis familiaris) Gender : Male and Female No. to be used : 6 M +6 F	-do-
24.	Jai Research Foundation (JRF) Valvada-396 108 Dist. Valsad, Gujarat./ Dr. Virendrasinh M. Zala  Received on 20.8.2008	PK Study in Beagle Dogs (Rel-02)  No. of Species/Common name : Beagle Dog (Canis familiaris) Gender : Male and Female No. to be used : 6 M +6 F	-do-
25.	Jai Research Foundation (JRF) Valvada-396 108 Dist. Valsad, Gujarat./ Dr. Virendrasinh M. Zala  Received on 20.8.2008	PK Study in Beagle Dogs (Rel-03)  No. of Species/Common name : Beagle Dog (Canis familiaris) Gender : Male and Female No. to be used : 6 M +6 F	-do-

26.	Jai Research Foundation (JRF) Valvada-396 108 Dist. Valsad, Gujarat./ Dr. Virendrasinh M. Zala  Received on 20.8.2008	PK Study in Beagle Dogs (Rel-04)  No. of Species/Common name : Beagle Dog (Canis familiaris) Gender : Male and Female No. to be used : 6 M +6 F	-do-
27.	Jai Research Foundation (JRF) Valvada-396 108 Dist. Valsad, Gujarat./ Dr. Virendrasinh M. Zala  Received on 20.8.2008	PK Study in Beagle Dogs (Rel-05)  No. of Species/Common name : Beagle Dog (Canis familiaris) Gender : Male and Female No. to be used : 6 M +6 F	-do-
28	Sree Chitra Tirunal Institute for Medical Science and Technology (SCTIMST), Biomedical Technology Wing (BMT Wing), Poojappura, Thiruvananthapuram-695 012, Kerala/Dr. P.R. Umashankar  Received on 18.08.2008	Therapeutic angiogenesis by intra-coronary delivery of angiogenic molecule loaded nanoparticles: Proof of concept study in pig model of myocardial infarction (B 982008 X)  No. of Species/Common name : Desi pig Gender : either sex No. to be used : 20	<b>Approved.</b>
29.	Sree Chitra Tirunal Institute for Medical Science and Technology (SCTIMST), Biomedical Technology Wing (BMT Wing), Poojappura, Thiruvananthapuram-695 012, Kerala/Dr. P.R. Umashankar  Received on 18.08.2008	Pulp and Dentine Test of an Organically Modified Ceramic Composite (B 982008 II)  No. of Species/Common name : Dogs, which have completed 10-12 months in which all the permanent teeth other than M3 have erupted  Gender : Not specified No. to be used : 03	The Committee discussed the protocol in depth and observed that the source of procurement of experimental dogs and their breeds have not been mentioned in the protocol.

30.	<p>Shree Chitra Tirunal Institute for Medical Science and Technology (SCTIMST), Biomedical Technology Wing (BMT Wing), Poojappura, Thiruvananthapuram-695 012, Kerala/Dr. Annie John</p> <p>Received on 18.08.2008</p>	<p>Cell-Based Tissue-Engineered Fabrication of Osteochondral Constructs (B 982008 V)</p> <p>No. of Species/Common name : Goat, Caprus Capri (hircus)</p> <p>Gender : Male</p> <p>No. to be used : 20</p>	<b>Approved.</b>
31.	<p>Sree Chitra Tirunal Institute for Medical Science and Technology (SCTIMST), Biomedical Technology Wing (BMT Wing), Poojappura, Thiruvananthapuram-695 012, Kerala/ Dr. Krishna Manohar S.R.</p> <p>Received on 18.08.2008</p>	<p>Evaluation of modified Chitra Valve in pig orthotopic model (B 1572008- VI)</p> <p>No. of Species/Common name : Swine, Desi</p> <p>Gender : Either Sex</p> <p>No. to be used : 16</p>	<b>Approved.</b>

32.	<p>Kendriya Sainik Pashuchikitsa Prayaogshala, Central Military Veterinary Laboratory, Meerut Cantt-25001</p> <p>Dr. H.K. Prasad, Prof. Department of Biotechnology, AIIMS</p> <p>Received on 3.9.2008</p>	<p>Development of Vaccine for Control of Bovine Tuberculosis</p> <p>Species: Bos indicus and Bos Taurus (Cattle indigenous, Cross bred and exotic)</p> <p>Age, Weight, Size: Less than one year of age</p> <p>Gender: Mixed gender (10 females and 04 castrated male in each group)</p> <p>Numbers to be used: 70 (10 females and 04 castrated male in each group) (x 5 Groups)</p> <p>Number of days each animal will be housed: Through out the period of study, i.e. for 3 years, extendable for an additional 2 years</p>	<b>Approved.</b>
33.	<p>National Institute of Nutrition (ICMR), Jamai – Osmania, P.O. Hyderabad / Dr. Anandwardhan Hardikr, National Centre Cell Sciences, Pune.</p>	<p>Functional assessment of Pancreatic islets following transplantation using immunoisulatory devices.</p>	<b>Approved.</b>

**AGENDA ITEM NO. 26.5.1 Registration for CPCSEA Certificate to National Centre for Animal Health (NCAH), Department of Livestock, Ministry of Agriculture, Royal Government of Bhutan, Serbithang, Thimphu .**

The Committee discussed the request made by Program Director, NCAH regarding registration for CPCSEA certificate and opined it has no objection in principle, if the establishment has valid import license to import the laboratory animals from Indian Veterinary Research Institute (IVRI), Izatnagar, U.P. , India, provided that the IAEC of IVRI agree to export of laboratory animals to NCAH, Bhutan.

**AGENDA ITEM NO. 26.5.2 Payment of sitting fee to CPCSEA Nominee at the time of inspection of Animal House Facility / participation in the meeting of IAEC of the establishment.**

The Committee discussed the issue in depth and decided that meetings of Institutional Animal Ethics Committee (IAEC) must be convened biannually even if there is no agenda for IAEC meeting. The minutes of the IAEC meeting of the establishment having signatures of all the members must be submitted within 15 days to Member-Secretary, CPCSEA, New Delhi.

The existing sitting fees to CPCSEA Nominees has been enhanced from Rs.500/- to Rs.1,000/- (Rupees One thousand only) per visit. The Sitting fee and reimbursement of Traveling Expenses to the CPCSEA representative / nominee will be paid by the Institute / establishment.

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**The following Members were present for the meeting on 19.09.2008**

1. Shri. B.S. Parsheera, Chairman  
Additional Secretary,  
Ministry of Environment & Forests,  
Paryavaran Bhawan, CGO Complex,  
Lodhi Road, New Delhi - 110 003.
2. Shri. Anjani Kumar, Member-Secretary  
Director (AW)  
Ministry of Environment & Forests  
8<sup>th</sup> Floor, Jeevan Prakash Bldg.,  
25, Kasturba Gandhi marg,  
New Delhi – 110001.
3. Prof. A. J. Rao ( Retd),  
Department of Biochemistry,  
Indian Institute of Science,  
Bangalore – 560012.
4. Dr. D. Swaroop  
Head, Division of Medicine,  
IVRI, Izatnagar – 243122  
Uttar Pradesh
5. Dr. Kondavalla Venkaiah,  
Head & Addl. Director,  
Bio-Statistics Department,  
National Institute of Nutrition,  
Hyderabad-500 007.
6. Dr. K. Nachimuthu,  
Ex-Director of Research,  
Tamilnadu Veterinary and Animal Sciences University (TANUVAS),  
No.4, Dhamodara Street, Panchvadi, Chetpet,  
Chennai-600 031.
7. Dr. Shashi Motilal,  
Professor (Philosophy),  
University of Delhi,  
15, Taxila Apartment,  
IIT/Delhi, Hauz Khas,  
New Delhi-110 016.

8. Dr. V.K. Vinayak,  
(Retd.) Senior Advisor,  
Department of Biotechnology,  
B-1, E-12, Mohan Co-Operative Industrial  
Estate, Mathura Road, New Delhi-110 044.
9. Dr. Vasantha Muthuswamy,  
Sr. Dy. Director General &  
Chief, Division of BMS, Traditional Medicines & Bioethics,  
Indian Council of Medical Research,  
Ansari Nagar, New Delhi-110 029.

**Leave of absence was granted to following:**

1. Sh. Hem Pande, Vice Chairman  
Joint Secretary, (Animal Welfare),  
Ministry of Environment & Forests,  
Paryavaran Bhawan, CGO Complex,  
Lodhi Road, New Delhi - 110 003.
2. Dr. P. Balakrishnamurthy,  
Director,  
International Institute of Biotechnology & toxicology (IIBAT),  
12, Harleys Road, Kilpauk,  
Chennai - 600 010.
3. Dr. T.P.R. Bhardwaj,  
Senior Consultant, Haematologist,  
Apollo Hospitals, 21, Greams Lane,  
Off. Greams Road, Chennai-600 006.
4. Prof. Anup Kumar Nayak,  
Wildlife Institute of India,  
Post Bag #18, Chandrabani,  
Dehradun – 248 001, Uttaranchal.

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