

# **NATIONAL BIODIVERSITY AUTHORITY**

## **MINUTES OF THE NINETH MEETING**



सत्यमेव जयते

**29.06.2007**  
**475, 9<sup>th</sup> SOUTH CROSS STREET**  
**KAPALEESWAR NAGAR**  
**NEELANKARAI, CHENNAI 600 041**  
[www.nbaindia.org](http://www.nbaindia.org)

## NATIONAL BIODIVERSITY AUTHORITY MINUTES OF THE NINETH MEETING

DATE : 29.06.2007

TIME : 10.30 AM to 5:00 PM

VENUE: NATIONAL BIODIVERSITY AUTHORITY, CHENNAI

The proceedings of the Ninth meeting of the National Biodiversity Authority commenced at 10.30 am on 29.06.2007 at NATIONAL BIODIVERSITY AUTHORITY, CHENNAI. The Chairman, NBA **Prof. S. Kannaiyan** extended a warm welcome to the members of the Authority to the 9<sup>th</sup> meeting and briefed them the major activities made by NBA during the period between 8<sup>th</sup> and 9<sup>th</sup> meeting.

### 1. MAJOR ACTIVITIES OF NBA- Meetings Conducted by NBA

- **“Expert Committee Meeting for Determination of Benefit Sharing”** organized by National Biodiversity Authority held on 24<sup>th</sup> March, 2007 at Conference Hall of National Biodiversity Authority, Chennai.
- Second meeting of **“Expert Committee meeting on Designation of National Repositories”** organized by National Biodiversity Authority held on 28<sup>th</sup> March, 2007 at Conference Hall of National Biodiversity Authority, Chennai.
- **“Meeting on Preparation of Notification of Enforcement of Biodiversity Act, 2002”** organized by National Biodiversity Authority held on 23<sup>rd</sup> April, 2007 at Conference Hall of National Biodiversity Authority, Chennai.
- Third meeting of **“Expert Committee meeting on Designation of National Repositories”** organized by National Biodiversity Authority held on 24<sup>th</sup> April, 2007 at Conference Hall of National Biodiversity Authority, Chennai.
- **“Expert Committee meeting to Evaluate the Access, Patent, Transfer of Research Results and Material Transfer Applications”** held on 28<sup>th</sup> April, 2007 at Conference Hall of National Biodiversity Authority, Chennai.
- Expert Committee formed to look into the R&D activities related to Biodiversity and Bioresources conservation and submit a report to the Authority visited the Auroville Foundation on **15-05-2007 and 16.05.2007** at Conference Hall, National Biodiversity Authority, Chennai – 600 041.
- **Expert Committee Meeting on Access, Benefit Sharing and Material Transfer** on **16.05.2007** at Conference Hall, National Biodiversity Authority, Chennai – 600 041.
- **Expert Committee Meeting to implement the recommendation of National Workshop on People Biodiversity Register** on **17.05.2007** at Conference Hall, National Biodiversity Authority, Chennai – 600 041.
- **Expert Committee Meeting on Publication of Research Results** on **13.06.2007** at Conference Hall, National Biodiversity Authority, Chennai – 600 041.
- **Expert Committee Meeting on Biodiversity Heritage sites** on **22.06.2007** at Conference Hall, National Biodiversity Authority, Chennai – 600 041.

## 2. Confirmation of Minutes of Eighth Meeting

DATE : 07.03.2007

TIME : 10.00AM to 6:00PM

VENUE: National Biodiversity Authority, Chennai

The minutes of the 8<sup>th</sup> Authority meeting was sent to all the members by speed post vide Lr No 8/2/218/2003-NBA (S) 365-371 dated 09.03.2007 and NBA office has received comments from the Joint Secretary, MoEF, New Delhi and the same were incorporated vide Ref No. Lr No 8/2/218/2003-NBA (S) dated 16.03.2007. The Members of the Authority appreciated the achievements made during the period and the minutes of the 8<sup>th</sup> Authority meeting was approved by the members unanimously.

## 3. Discussion on the Action Taken on the minutes of the 8<sup>th</sup> Authority Meeting held on 07.03.2007

The action taken on the 8<sup>th</sup> authority meeting placed for discussion. The members of the Authority carefully went through the action taken report and asked certain clarification on the Agenda Item No 9: **National Biodiversity Data Infrastructure** as to why it is not implemented till to day.

The Secretary, NBA informed that an EFC memo was prepared and sent to the Administrative Ministry for consideration for implementation of the National Biodiversity Data Infrastructure in the form of Indian Biodiversity Information System (IBIS). Once the budget is made available to NBA, the establishment of IBIS will be implemented with out delay.

Dr Natesh, Sr. Advisor, DBT, New Delhi informed that Department of Bio-technology (DBT) has prepared a database on biodiversity namely "Indian Biodiversity Information Network (IBIN)" and it is also available on request in the form of ten Compact Disk format as well as in the official web site of DBT.

The Secretary NBA informed the members that the database envisaged by NBA namely IBIS covers all databases and it is a Meta-database providing links to all databases in the country.

Also Dr Natesh informed the members that DBT will support and help the efforts made by NBA in the formation of IBIS and he has indicated his interest in attending one of the Database meetings conducted by NBA in the future.

#### **4. Discussion on the Agenda for 9<sup>th</sup> Authority Meeting held on 29.06.2007**

##### **Agenda 1: Draft Guidelines on Designation of National Repository**

The Secretary, NBA informed that members that the Expert Committee on designation of National Repository met thrice under the Chairmanship of **Dr A K. Ghosh** with 14 members (First meeting on 28.11.2006, Second meeting on 28.03.2007 and Third and final meeting on 24.04.2007) and finalized the preparation of the draft notification. The same is placed for the approval of the 9<sup>th</sup> Authority meeting.

The Authority, after careful examination of the recommendations of the Expert committee, approved the draft notification with a suggestion to strengthen the funding mechanism to maintain the Designated National Repositories on a long term basis.

##### **Agenda 2: Draft Guidelines on Endemic Endangered and Threatened Species**

The Secretary, NBA placed the out come of the Expert Committee on Endemic, Endangered and Threatened species met thrice under the Chairmanship of **Prof. Dr T. N. Ananthakrishnan** with 11 members (First meeting on 18.01.2006, Second meeting on 28.02.2006 and Third and final meeting on 29.04.2006) in the form of draft notification for approval by the 9<sup>th</sup> Authority meeting.

The Authority, after careful examination of the recommendations of the Expert committee, approved the draft notification for further necessary action.

##### **Agenda 3: Draft Notification on Designation of officers for Enforcement of Biodiversity Act, 2002**

The Secretary, NBA placed the outcome of the Expert Committee on Enforcement of Biodiversity Act, 2002 under the Chairmanship of **Prof. Dr S Kannaiyan** with 5 members (The meeting on 23.04.2007) in the form of a draft notification for approval by the 9<sup>th</sup> Authority meeting.

The Authority, after careful examination of the recommendations of the Expert committee, approved the draft notification with the change in the title as “Notification on Designation of officers for Biodiversity Act, 2002”. Also the members informed that the authority should prepare a “Do it your self” Pictorial Identification Manual for the Customs Department to identify the bioresources prohibited for export from India. Also NBA should undertake Capacity Building of Enforcement official and the Pictorial Manual should be part of the activity.

#### **Agenda 4: Draft Notification on Access and Benefit Sharing**

The secretary, NBA placed the out come of the Expert Committee on designation of National Repository under the Chairmanship of **Prof. Dr P. Pushpandgadan** with 11 members in the form of a draft notification for approval by the 9<sup>th</sup> Authority meeting.

The Authority, after careful examination of the recommendations of the Expert committee, approved the draft notification.

#### **Agenda 5: Appointment of Staff for NBA**

The Secretary NBA informed the Authority members that the authority in its 8<sup>th</sup> Meeting held on 7<sup>th</sup> March, 2007 approved the appointment of Accounts Officer, Private Secretary to Secretary and Stenographer C on deputation / absorption basis in NBA. Based on the approval, the offer of appointment had been issued by NBA and that status for different posts is as follows:

The authority took note of the appointment of **Shri K. K. Hamza**, Finance & Accounts Officer, Indian Agricultural Statistics Research Institute, Library Avenue, PUSA, New Delhi – 12 as Accounts Officer, **Smt. S. Nalini**, Stenographer Gr.II, CIBA, Chennai - 28 as Private Secretary to the Secretary, NBA, **Shri. Anand Kumar Ayyaswamy**, Zoological Assistant, ZSI, Kolkatta as **Technical Assistant**, **Smt. G. S. Sheeba**, Steno 'D', National Biodiversity Authority, Chennai – 41 (working on loan basis from MoEF, New Delhi) as Stenographer C on deputation as per the decisions taken in the 8<sup>th</sup> Authority Meeting held on 7<sup>th</sup> March 2007 in Chennai and approved the same. Of the appointment of above four posts only **Smt. G. S. Sheeba**, Stenographer 'D' has joined as Stenographer C on deputation to NBA.

**Action: Secretary**

#### **Agenda 6: Recruitment of Staff for National Biodiversity Authority**

The Secretary, NBA informed the authority members about the proceedings of the  
1. Interview for the post of Office Asst/Computer Asst., 2. Interview for the post of a) Advisor (Law) b) Tech. Officer (IPR) 3. Interview for the post of Technical Assistant (Botany).

1. For the post of Office Asst/Computer Asst., The committee constituted by the Chairman NBA interviewed **Ms.S.Kanchana** and **Mr.D.Chezhan** who attended the interview as per call letters issued:

The committee interviewed **Ms. S. Kanchana** and she has qualified and fulfilled in the age/education criteria. As per the requirement for the post, the experience of five years, the candidate **Ms. S. Kanchana** has got the experience of three years and seven

months and short of one year and five months. Based on the performance in the interview and the requirement for the post of Office / Computer Assistant this experience was relaxed as per the Section 7 of Recruitment Rule notification issued vide G.S.R.156 dt 30.6.2006 as a special case. The committee unanimously recommends Ms. S. Kanchana and she may be considered for appointment for the post of Office / Computer Assistant.

The committee interviewed **Mr. D. Chezhan** and he has qualified and fulfilled the education / experience criteria. The candidate age is Thirty two years and two months which is over aged for the present post. The prescribed age limit is 27 years as per the Recruitment Rules and it is relaxable for another three years for candidate belongs to OBC category. The candidate Mr. D. Chezhan who is an OBC is over- aged by two years and two months. Based on his performance in the interview, working in various organizations, the requirement for the post of Office / Computer Assistant his age was be relaxed as per the Section 7 of Recruitment Rule notification issued vide G.S.R.156 dt 30.6.2006 as a special case. The committee unanimously recommends Mr. D. Chezhan and he may be considered for appointment for the post of Office / Computer Assistant.

**The Authority after careful examination, considered the appointment of Ms. S. Kanchana and ratified the relaxation of one year and five months experience as per provisions of Clause 7 of the notification GSR 156 dated 30.6.2006. After careful examination the authority considered the appointment of Mr. D. Chezhan and ratified the relaxation over age of two years and two months as per provisions of Clause 7 of the notification GSR 156 dated 30.6.2006.**

**Action: Secretary**

2. For the post of a) Advisor (Law) b) Tech. Officer (IPR) committee comprising Chairman / Members assembled on 7<sup>th</sup> June, 2007 to conducted the interview for Group 'B' post of 1. Technical Officer (IPR) and 2. Advisor (Law) on direct recruitment basis in National Biodiversity Authority:

For the post of Advisor (Law) two candidates Ms. S. Swarnalatha and Mr. K .Chitrasu appeared for the interview and the Committee recommended the following candidate for the post of Advisor (Law): Mr.K.Chitrasu.

For the post of Technical Officer (IPR) the committee interviewed Ms. S.Swarnalatha and Mr. K. Chitrasu and the Committee recommended the following candidate for the post of Technical Officer (IPR): Ms. S. Swarnalatha.

**The Authority, after careful examination of the recommendations of the recruitment committee, approved the appointment of Mr. K. Chitrasu, Advisor (Law) and Ms. S. Swarnalatha, Technical Officer (IPR).**

**Action: Secretary**

3. For the post of Technical Assistant (Botany) committee constituted by the Chairman NBA conducted the interview for Group 'c' post of 1. Technical Assistant (Botany) on direct recruitment basis.

The following two candidates Mr. K. Ganeshan and Mr. P. Anandakumar have been called for the Interview on 11.06.07, of which Mr. P. Anandakumar appeared for the interview. The committee interviewed and felt that Mr. P. Anandakumar is a suitable candidate for the post of Technical Assistant (Botany). Therefore the selection committee recommends Mr. P. Anandakumar for the post of Technical Assistant (Botany)

**The Authority, after careful examination of the recommendations of the recruitment committee, approved the appointment of Mr. P. Anandakumar for the post of Technical Assistant (Botany).**

**Action: Secretary**

#### **Agenda 7: Minutes of the Meeting on Implementation of the Recommendations of Peoples Biodiversity Register**

The authority took note of the minutes and recommendation of the meeting conducted on the "Implementation of the Recommendations of Peoples Biodiversity Register" and desired to have the final outcome of the meetings conducted at the earliest.

**Action: Secretary**

#### **Agenda 8: Minutes of the First Meeting on the Guidelines on transfer of Research Results (13.06.2007)**

The authority took note of the minutes and recommendation of the meeting conducted on the "First Meeting on the Guidelines on Transfer of Research Results" and desired to have the final outcome of the meetings conducted at the earliest.

**Action: Secretary**

#### **Agenda 9: Minutes of the First Meeting on the Guidelines on Biodiversity Heritage Sites**

The authority took note of the minutes and recommendation of the meeting conducted on the "First Meeting on the Guidelines on Biodiversity Heritage Sites" and desired to have the final outcome of the meetings conducted at the earliest.

**Action: Secretary**

**Agenda 10: Minutes of the meeting on the Expert Committee on evaluation of applications on Access, Research Results, IPR and Third party Transfer**

The Secretary NBA informed the members of the Authority that Dr S. P. Tiwari Chairman of the Expert Committee along with members Dr. Partha Das Gupta, Dr. K Balaraman, and Dr. K. Vekataraman conducted evaluation meeting on applications on Access, Research Results, IPR and Third party transfer on 28.4.2007. The authority took note of the minutes and recommendation of the meeting and desired to have the final outcome of the meetings conducted at the earliest.

**Action: Secretary**

**App. No. 1: NBA/9/59/05/Tech Appl:** Dr.Martina Aruna Padmanabhan: Farming System research and traditional use of Rice (Lat. Oryzia satvia) in ayurvedic dietary practices to estimate demand in Wayanad, Kerala

**Comments by the EC:** Recommended for approval. Agreement is to be signed with the applicant.

**Action: Secretary**

**App. No. 2: NBA/9/101/06/Tech. Appl: Mr. Hosoguchi Masatsugu:** Study of Odontolabis burmeisteri, Odontolabis versicolor, Prosopocoilus giraffe, Prosopocoilus speciosus in Gudalur district, Nilgiri, Tamil Nadu

**Comments by EC:** 1. The applicant should collaborate with a National Research Institute in India and resubmit the application. 2. Permission to be obtained from SBB/ Forest Department of the State for collection of specimen.

**Action: Secretary**

**App. No. 3: Dr. N.A.V. Prasad: NBA/9/102/06/Tech Appl:** Poly Herbal Composition as an orally administratable liquid / capsule / tablet

**Comments by EC:** A letter to be sent to the applicant to find out whether the R&D centre of the company is recognized by the DSIR and put up to the EC for approval.

**Action: Secretary**

**App. No. 4: Dr.N.A.V. Prasad: NBA/9/103/06/Tech Appl:** Novel herbal inhaler compositions for treatment of asthma



**Comments by the EC:** A letter to be sent the applicant to find out whether the R&D centre of the company is recognized by the DSIR and put up to the EC for approval.

**Action: Secretary**

**App. No. 5: NBA/9/104/06/Tech Appl: Dr. Bhusari Dilip Bhauraoji:** Process for making eye drops

**Comments by the EC:** The application is recommended for approval. Benefit sharing mechanism worked out by the Expert Committee is to be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 6: NBA/9/105/06/Tech Appl: Dr.Kamatkar Madhav Pandharinath:** Indo-dieto-immuno-therapeutics - Research on the role of diet of Indians in having better immunity to fight diseases. There are three steps in this research 1. To tissue culture the plants having "Special properties" 2. To identify / grow the micro-organisms that give plants "Special properties" 3. To transfer these properties to any ordinary plant and make it the "Special" ones.

**Comments by the EC:** A letter to be sent to the applicant to specify regarding the names of the herbs and 2. Geographical location to be informed to NBA and put up to the EC for approval.

**Action: Secretary**

**App. No. 7: NBA/9/106/06/Tech Appl: Mr. Mathias Ritschard:** Faunistical Survey in Car Nicobar islands, Teressa, Tillanchong, Great Nicobar, Katchall

**Comments by the EC:** The applicant to identify an Indian Research Institute for collaboration and resubmit the application.

**Action: Secretary**

**App. No. 8: NBA/9/107/06/Tech Appl:** The Director, Vector Control Research Centre: A mosquitocidal product from *Bacillus subtilis* ssp. *Subtilis* (VCRC B471). The product is useful for controlling mosquitoes by killing their immature stages and adult mosquitoes

**Comments by the EC:** The application is recommended for approval. Benefit sharing mechanism worked out by the Expert Committee is to be incorporated in

the model agreement and to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 9: NBA/9/108/06/Tech Appl:** Shri. Govind Maruti Wagle, Herbal Seed extract in the form of Pharmaceutical composition comprising the kernel *Apocynaceae Thevetia Peruviana*, *Thevetia Nerifolia*, *Cascabela Thevetia* and *Cascabela Nerifolia*. Used in Medicinal application

**Comments by the EC:** Recommended for approval with the following comment.

1. The applicant should specify the details of the institution where R&D was carried. Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement and sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.10: NBA/9/109/A1/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR:** Preparation of curcumin glycosides using glucosidase enzymes in non polar solvents. An enzymatic process for the preparation of curcuminyl glycosides

**Comments by the EC:** Recommended for approval. Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement and sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.11: NBA/9/109/A2/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR:** Nureic acids and Methods for producing improved plant hybrids

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.12: NBA/9/109/A3/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR:** An improved process for the fractionation of betalains into betacyamin and betaxanthin

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement and to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.13: NBA/9/109/A4/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR:** Development of herbal black dye from natural materials comprising of *Juglans regia*, *Indigofera tinctoria*, *Terminalla chebula*, *Eclipta alba*, *Embelica officinalis*, *Accacia catechu* and *Piper betel*

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.14: NBA/9/109/A5/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR:** Improved process for the production of phytase from *Aspergillus ficuum* under solid-state fermentation

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.15: NBA/9/109/A6/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR:** Process for bioremediation of agricultural soil, sludge, effluents and other sites contaminated with the nitroaromatic compound *p*-nitrophenol which is a toxic compound of anthropogenic origin. The preferred method of carrying out the invention comprises immobilizing the cell of a *p*-nitrophenol degrading bacteria *Arthrobacter protophormiae* on a carrier material and introducing the immobilized cells into PNP contaminated site. The present invention thus provides an economical and efficient method for biodegradation and elimination of PNP in situ

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.16: NBA/9/109/A7/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR:** Invention provides a novel herbal chocolate composed of *Tinospora cordifolia*, *Glycyrrhiza glabra*, *Adhatoda vasica*, *Madhuca indica* and *Cassia occidentalis*

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.17: NBA/9/109/A8/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR:** Invention provides a novel herbal composition, which promotes the proven pharmacological activities such as anti-oxidant, anti-stress and adaptogenic activities. Composition(s) comprises of plant juices or extracts together with the conventional recipients to form a paste / jelly / jam / cake / cream puff / chocolate forms fortified with *Mangifera indica* Linn, *Evolvulus alsinoides*, *withania somnifera*, *Asparagus racemosus*, *Amaranthus hypochondriacus*

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.18: NBA/9/109/A9/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR:** Invention provides a novel herbal preparation used in treatment of diabetes. Formulation (s) comprises of plant preparation or active component of plant extract together with conventional additives to form the oral dosage forms which includes tablets, capsules and liquid dosage forms viz syrup and suspension. Formulation comprises of *Glycine max milk*, *Curcuma longa* and alcoholic extract

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.19: NBA/9/109/A10/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR:** Isolation and preparation of an active fraction from plant *Cuminum cyminum*, its further purification and standardization as chemically defined entity (ies) with their intended use as drug bioavailability enhancer for the drugs belonging to therapeutic categories such as antimicrobial, antifungal, anti-viral, antitubercular, antileprosy, anti-inflammatory, etc in human beings and/or veterinary conditions orally / parenterally / topically / inhalations / rectally / vaginally.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.20: NBA/9/109/A11/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR:** Invention relates to Egg white of marine turtle *C.Caretta* which contains a small cationic protein but lacks Lysozyme. The protein was sequenced by a combination of sequential Edman degradation, carboxypeptidase digestion, NMR and MALDI-TOF mass spectrum. The proteins showed strong anti bacterial activity against *E.coli* and anti-viral activity against rhabdovins. This small cationic protein is part of the

innate immunity of this organism and replaces Lysozyme in the egg. It has the potential to be developed as an anti-bacterial and anti-viral agent

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.21: NBA/9/109/A12/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR:** Invention relates to the isolation of an extract and/or its fraction from the plant *Carum carvi*, its standardization with its intended use as drug bioavailability and/or bioefficacy enhancer for the drugs belonging to therapeutic categories such as but not limited to antimicrobial, antifungal, anti-viral etc., in compositions to be administered orally/ parenterally, topically, inhalations (including nebulizers), rectally, vaginally in human beings and/or veterinary conditions

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.22: NBA/9/109/A13/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR:** Invention describes the novel use of invasive plant extracts including their dry powder such as *Argemone mexicana*, *Echornia crassipies*, *Lantanna*, *Calotropis procera* and others as novel biofertilizers. The aqueous extracts use of these plants is a source of biofertilizers

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.23: NBA/9/109/A14/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR:** Invention relates to a non-animal, water soluble composition in water, suitable for film forming, comprising of water-soluble seaweed polysaccharides, glycerol / polyvinyl alcohol-glycerol, natural rubber latex – SLS / KCI. Use of semi-refined carrageenan lowers the cost of the film by several folds. Useful in Packaging in Pharmaceutical, Health care applications

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.24: NBA/9/109/A15/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR:** Invention relates to process for decolorization of colored effluents. This invention particularly relates to process for decolorization of colored effluents of textile mills, dye-making industries, paper and pulp industries and molasses spent wash from alcohol distilleries using an unidentified marine fungus NIOCC # 2a isolated from mangrove wood and deposited in the microbial type culture collection (MTCC) of the institute of Microbial Technology, Chandigarh, India under the accession number MTCC 5159.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.25: NBA/9/109/A16/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR:** Invention provides a process for heterologous expression and large scale production of functionally active enzyme trypanothione reductase of *Leishmania donovani* in prokaryotic system, which comprises, amplification of open reading frame of trypanothione reductase of strain Dd8, causative agent of Indian Kala azar, using polymerase chain reaction, cloning of the amplified product (Ld TR ORF) in TA cloning vector, sequence analysis of cloned TR, subcloning of LdTRORF in prokaryotic expression vector, development of experimental conditions for maximum expression of cloned LdTRORF in soluble native form, purification of protein to homogeneity using affinity chromatography, assessment of fold purification and specific activity followed by biochemical characterization.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.26: NBA/9/109/A17/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR:** Discovery of strains that are capable of producing a long-chain dicarboxylic acid by culturing microorganisms belonging to *Candida vini*, *Candida entamophila*, *Candida blankii* and *Pichia farinosa* which has the ability to produce a long-chain dicarboxylic acid in a liquid medium containing a straight-chain saturated hydrocarbon (tridecane) as substrate

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.27: NBA/9/109/A18/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR:** Invention relates to a synergistic composition useful as bioinoculant comprising bacterial strains of accession Nos. NRRL B-30486, B-30487, and NRRL-B 30488, individually or in all possible combinations, and optionally carrier, with each of the strains showing plant promoter activity, phytopathogenic fungi controlling activity, abiotic stress conditions tolerating capability, phosphate solubilization capability under abiotic stress conditions. Further, a method of producing said composition thereof, and in addition, a method of isolation said bacterial strains from cow 'Sahiwal'

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.28: NBA/9/109/A19/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR:** Invention provides a novel nicotine free anticigarette herbal formulation as an anti-dote to the poisoning effects of tobacco products such as Cigarettes, Gutka, Pan Masala and other similar tobacco related products

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.29: NBA/9/109/A20/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR:** Bioactivities (an antihyperglycemic and antihyperlipidemic) as well as a new product derived from the new material of the *Xylocarpus* species

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.30: NBA/9/109/A21/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR:** Identification of the gene responsible for pungency in *Capsicum spp* has been made

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.31: NBA/9/109/A22/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR:** For stabilization of Rice Barn using Neem Seed extract.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.32: NBA/9/109/A23/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR:** A process for the preparation of acetic acid esterase from ragi malt

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.33: NBA/9/109/A24/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR:** A process for obtaining xylooligosaccharides from cereals and their malts

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.34: NBA/9/109/A25/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR:** A process for production of polyhydroxyalkanoates from unhydrolysed starch

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.35: NBA/9/109/A26/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR:** A process for extraction of polyhydroxyalkanoates

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee and the same will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**



**App. No.36:** NBA/9/109/A27/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR: A process for the enhancement of betanin extraction from red beetroot by application of gamma irradiation

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.37:** NBA/9/109/A28/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR: A process for the preparation of phycocyanin a natural blue colourant from spirulina species

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.38:** NBA/9/109/A29/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR: Improve the annatto colour content in seeds of *Bixa orellana* on standing crop. An elicitor mediated technology in the form of spray formulation has been developed

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No.39:** NBA/9/109/A30/07/Tech Appl: Intellectual Property Management (IPM Div), CSIR: Invention provides a novel herbal antipyretic dosage form for the treatment of pyrexia such as relapsing fever and dengue

**Comments by the EC:** Recommends the approval. Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 40:** NBA/9/110/07/Tech Appl: Prof. Suhas Pednekar: Herbal Mosquito repellent composition comprising oils extracted from fresh leaves of *Blumea lacera* (family Asteraceae) in liquid, vapours polymer bound compositions for slow release and mat form

**Comments by the EC:** The application is recommended for approval. Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 41: NBA/9/111/07/Tech Appl:** Dr.R.S. Samant; Herbal pharmaceutical composition comprising extracts of *Adhatoda vasica*, *Glycerrhiza glabra*, *Ocimum sanctum*, *Zingiber officinale*, *Cinnamomum camphora*, *Mentha spicata*, *Tinospora cordifolia*, *Elattaria cardamom*, *Cariophyllus aromaticus*, *Cinnamomum cassia*, *Cinnamomum iners*, *Piper longum*, *Helicters isora*, *peucedanum graveolens*, *Apium graveolens*, *Embelica ribes*, *Eclipta alba*, *Cuminum cyminium*, *Asparagus racemosus*, *Embelica officinalis* and *Piper nigrum*

**Comments by the EC:** A letter written to the applicant to provide specific information on the Patent. Put up to EC once again for approval.

**Action: Secretary**

**App. No. 42: NBA/9/112/07/Tech Appl:** Dr.A. Manimekalan; Systematics and Taxonomical classification purposes for buiding taxonomical phylogeny tree of the order Cypriniformes.

**Comments by the EC:** NBA to obtain comments from NBFGR. 2. Genetic coding can be done in India.

**Action: Secretary**

**App. No. 43: NBA/9/113/07/Tech Appl:** Shri. Subhash Saha, Sutragarh Char, P.O. + P. S. Santipur, Nadia district, West Bengal.: Invention on improved process for vegetable dye.

**Comments by the EC:** The application may be approved after obtaining the name of the Species.

**Action: Secretary**

**App. No. 44: NBA/9/114/07/Tech Appl:** Mr. Tomas Melichar, Oriov 8, 26101, Pribram, Czech Republic: Trapping, Collecting, making preparations, Analysing and documenting Night Butterflies (Lepidotera, Shingidae) – Family- Phylum. To map over a vision of the Lepidotera, Shingidae in specific areas in relation with environmental conditions.

**Comments by the EC:** 1. The Concerned State Forest Departments clearance is required.

2. Research to be done in India
3. To collaborate with a National Institution

**Action: Secretary**

**App. No. 45: NBA/9/115/A1/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067.: A simplified process for purification of Kutkin from *Picrorhiza kurroa* Royale benth. The extraction of kutkin is cost-effective and instant heptaprotective drug.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee and the same will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 46: NBA/9/115/A2/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067.: Novel herbal synergistic formulation for treatment of arthritis. Oral dosage forms such as tablets, capsules and powders ready for suspension. A simplified process for purification of Kutkin from *Picrorhiza kurroa* Royale benth. The extraction of kutkin is cost-effective and instant.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee and the same will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 47: NBA/9/115/A3/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067.: Novel source of microorganism for production of Camptothecin and related Camptothecinoids.

**Comments by the EC:** Recommends the approval. Benefit sharing mechanism worked out by the Expert Committee and the same will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 48: NBA/9/115/A4/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067.: Herbal formulation used in treatment of piles.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee and the same will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 49: NBA/9/115/A5/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067.: Seeding material for accurate and reproducible monitoring of BOD load pulp and paper waste water due to the specificity of bacterial strains present therein towards the refractory organic compounds found in these effluents.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee and the same will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 50: NBA/9/115/A6/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067.: Biological process for reduction of chemical and biological oxygen demand of pulp and paper industrial effluent using a mixed bacterial consortium comprising of bacterial strains isolated from natural sources which is capable of reducing chemical and biological oxygen demand of pulp and paper industrial effluent to standard discharge limits.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 51: NBA/9/115/A7/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067.: Local anesthetic in topical surgical operations, nerve block conduction, extradural and infiltration anesthesia. Conveniently used as topical application as ointment or spray or cream.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 52: NBA/9/115/A8/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067.: To improve the memory and in treatment of senile and presenile dementia as abrain tonic.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 53: NBA/9/115/A9/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067: Process of neutralizing beverage industrial wastewater by a bacterial strain *Exiguobacterium sp.*

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 54: NBA/9/115/A10/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067.: Process for bile resistant and anti-microbial lactic acid bacteria from whey.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 55: NBA/9/115/A11/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067.:

Primary treatment of the Cashew apple fruits immediately after harvesting with salt and Potassium metabisulphate solution to prevent spoilage of the fruits, removal of tannins, steaming and preservation

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 56:** **NBA/9/115/A12/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067; A formulation and process for preparation of sugar free and nutraceutical enriched sweet sesame bar.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 57:** **NBA/9/115/A13/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067; Process for stabilization of basil oil.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 58:** **NBA/9/115/A14/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067.; Formulation and process for ready to reconstitute ginger beverage dry mix.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 59: NBA/9/115/A15/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067.: Process for the preparation of ready to eat puffed snack product.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 60: NBA/9/115/A16/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067.: Enrichment of carotenoids in egg yolk. Formulation improves the internal egg quality and increased the Roche fan color score of egg yolk.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 61: NBA/9/115/A17/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067.: Process for the production of Semolina from pearl Millet with enhanced shelf life.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 62: NBA/9/115/A18/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067.: Method for detection of carnation mottle virus in plants using designed primers.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 63: NBA/9/115/A19/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067. A simplified process for purification of Kutkin from *Picrorhiza kurroa* Royale benth. The extraction of kutkin is cost-effective and instant heptaprotective drug.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 64: NBA/9/115/A20/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067. A simplified process for purification of Kutkin from *Picrorhiza kurroa* Royale benth. The extraction of kutkin is cost-effective and instant heptaprotective drug.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 65: NBA/9/115/A21/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067. A simplified process for purification of Kutkin from *Picrorhiza kurroa* Royale benth. The extraction of kutkin is cost-effective and instant heptaprotective drug.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 66: NBA/9/115/A22/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067. A simplified process for purification of Kutkin from *Picrorhiza kurroa* Royale benth. The extraction of kutkin is cost-effective and instant heptaprotective drug.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.



**Action: Secretary**

**App. No. 67: NBA/9/115/A23/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067. A simplified process for purification of Kutkin from *Picrorhiza kurroa* Royale benth. The extraction of kutkin is cost-effective and instant heptaprotective drug.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 68: NBA/9/115/A24/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067. A simplified process for purification of Kutkin from *Picrorhiza kurroa* Royale benth. The extraction of kutkin is cost-effective and instant heptaprotective drug.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 69: NBA/9/115/A25/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067. A simplified process for purification of Kutkin from *Picrorhiza kurroa* Royale benth. The extraction of kutkin is cost-effective and instant heptaprotective drug.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 70: NBA/9/115/A26/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067. A simplified process for purification of Kutkin from *Picrorhiza kurroa* Royale benth. The extraction of kutkin is cost-effective and instant heptaprotective drug.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 71: NBA/9/115/A27/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067.∴ A simplified process for purification of Kutkin from *Picrorhiza kurroa* Royale benth. The extraction of kutkin is cost-effective and instant heptaprotective drug.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 72: NBA/9/115/A28/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067.∴ A simplified process for purification of Kutkin from *Picrorhiza kurroa* Royale benth. The extraction of kutkin is cost-effective and instant heptaprotective drug.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 73: NBA/9/115/A29/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067.∴ A simplified process for purification of Kutkin from *Picrorhiza kurroa* Royale benth. The extraction of kutkin is cost-effective and instant heptaprotective drug.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 74: NBA/9/115/A30/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067.∴ A

simplified process for purification of Kutkin from *Picrorhiza kurroa* Royale benth. The extraction of kutkin is cost-effective and instant heptaprotective drug.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 75:** NBA/9/115/A31/07/Tech Appl: Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067.∴ A simplified process for purification of Kutkin from *Picrorhiza kurroa* Royale benth. The extraction of kutkin is cost-effective and instant heptaprotective drug.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 76:** NBA/9/115/A32/07/Tech Appl: Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067.∴ A simplified process for purification of Kutkin from *Picrorhiza kurroa* Royale benth. The extraction of kutkin is cost-effective and instant heptaprotective drug.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 77:** NBA/9/115/A33/07/Tech Appl: Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067.∴ A simplified process for purification of Kutkin from *Picrorhiza kurroa* Royale benth. The extraction of kutkin is cost-effective and instant heptaprotective drug.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 78: NBA/9/115/A34/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067. A simplified process for purification of Kutkin from *Picrorhiza kurroa* Royale benth. The extraction of kutkin is cost-effective and instant heptaprotective drug.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee and the same will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 79: NBA/9/115/A35/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067. A simplified process for purification of Kutkin from *Picrorhiza kurroa* Royale benth. The extraction of kutkin is cost-effective and instant heptaprotective drug.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee and the same will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 80: NBA/9/115/A36/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067. A simplified process for purification of Kutkin from *Picrorhiza kurroa* Royale benth. The extraction of kutkin is cost-effective and instant heptaprotective drug.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee and the same will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 81: NBA/9/115/A37/07/Tech Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067. A simplified process for purification of Kutkin from *Picrorhiza kurroa* Royale benth. The extraction of kutkin is cost-effective and instant heptaprotective drug.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 82:** NBA/9/115/A38/07/Tech **Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067. A simplified process for purification of Kutkin from *Picrorhiza kurroa* Royale benth. The extraction of kutkin is cost-effective and instant heptaprotective drug.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 83:** NBA/9/115/A39/07/Tech **Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067. A simplified process for purification of Kutkin from *Picrorhiza kurroa* Royale benth. The extraction of kutkin is cost-effective and instant heptaprotective drug.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 84:** NBA/9/115/A40/07/Tech **Appl:** Intellectual Property Management Division, M/S. Council of Scientific and Industrial Research, 3<sup>rd</sup> Floor, NISCAIR Building, 14, Satsang Vihar Marg, Special Institutional Area, New Delhi – 110 067. A simplified process for purification of Kutkin from *Picrorhiza kurroa* Royale benth. The extraction of kutkin is cost-effective and instant heptaprotective drug.

**Comments by the EC:** Recommends the approval Benefit sharing mechanism worked out by the Expert Committee will be incorporated in the model agreement which is to be sent to the applicant along with provisional approval letter.

**Action: Secretary**

**App. No. 85:** NBA/9/117/07/Tecl **Appl:** Dr.Michael Deyholos, University of Alberta, Department of Biological Sciences, Edmonton, Canada T6G 2E9.

**Comments by the EC:** The Expert Committee recommends the approval with the following comments

1. The transfer should be under MTA of the government department.
2. Transfer is only for research and non-commercial purpose.
3. IPR, Benefit Sharing will be as per the provisions of BD Act and as per the guidelines approved by DARE / ICAR.

**Action: Secretary**

**App. No. 86: NBA/9/118/07/Tecl Appl:** Dr. Anilkumar Vaidya, Leelavati General Hospital, Masure Post, Malvan – Taluka, Sindhudurg District, Maharashtra – 416 608

**Comments by the EC:** The Expert Committee recommends the approval with the following comments

1. Deposit the Bioresource in a National Repository.

**Action: Secretary**

**App. No. 87: F. No. NBA/9/119A/07/Tecl Appl:** Mr. Deepak Kiri, Vice president (Commercial – Exports), Pepsico India Holdings Private Limited, 3B, DLF Corporate Park, S-Block, Qutab enclave, Phase III, Gurgaon -122002

**Comments by the EC:** The Expert Committee recommends the approval with the following comments

1. Tamil Nadu Biodiversity Board to levy collection fee.

**Action: Secretary**

**App. No. 88: F. No. NBA/9/119B/07/Tecl Appl:** Mr. Deepak Kiri, Vice president (Commercial – Exports), Pepsico India Holdings Private Limited, 3B, DLF Corporate Park, S-Block, Qutab enclave, Phase III, Gurgaon -122002

**Comments by the EC:** The Expert Committee recommends the approval with the following comments

1. Confirm with MPEDA on their approval.
2. Confirm with EXIM committee, Ministry of Commerce on their approval.

**Action: Secretary**

**App. No. 89: F. No. NBA/9/120A/07/Tecl Appl:** Ms. M. Kokila, Proprietor, Biofarm, 207, D.B. Road, R.S.Puram, Coimbatore

**Comments by the EC:** The Expert Committee has given the following comments

1. IPR and Benefit Sharing undertaking to be given by the applicant

2. More information required on the purpose of collection

**Action: Secretary**

**App. No. 90: F. No. NBA/9/120B/07/Tecl Appl/:** Ms. M. Kokila, Proprietor, Biofarm, 207, D.B. Road, R.S.Puram, Coimbatore

**Comments by the EC:** The Expert Committee has given the following comments

1. IPR and Benefit Sharing undertaking to be given by the applicant
2. More information required on the purpose of collection

**Action: Secretary**

**App. No. 91: F. No. NBA/9/120C/07/Tecl Appl/:** Ms. M. Kokila, Proprietor, Biofarm, 207, D.B. Road, R.S.Puram, Coimbatore

**Comments by the EC:** The Expert Committee has given the following comments

1. IPR and Benefit Sharing undertaking to be given by the applicant
2. More information required on the purpose of collection

**Action: Secretary**

**App. No. 92: F. No. NBA/9/121/07/Tecl Appl/:** Dr. Acharya Vidya Narayan / Shri.Mukhopadhyay Triptikumar / Piramal Swati Ajay, Nichaolas Piramal India Limietd, Nicholas Piramal Tower, Ganpatrao Kadam Marg, Lower Parel, Mumbai – 400 013

**Comments by the EC:** The Expert Committee recommends the approval with the following comment

1. IPR and Benefit Sharing undertaking to be given by the applicant

**Action: Secretary**

**App. No. 93: F. No. NBA/9/122/A1/07/Tecl Appl/:** Mr.D.S. Sankholkar, Technical Head – Corporate Regulatory Affairs, Hindustan Lever Limited, Grand Office, The Inter Continental Hotel, Sahar Airport Road, Andheri East, Mumbai – 400059 / Mr.Ashok Gupta, Company Secretary, Hindustan Lever Limited, Hindustan Lever House, Backbay Reclamation, Mumbai – 400020 / Dr.A.S.Abhiraman, Executive Director – Research, Unilever Industries Private Limited, 64, Main Road, Whitefield, PO, Bangalore – 560066.

**Comments by the EC:** The Expert Committee has given the following comments

1. More information required on the purpose of collection

**Action: Secretary**

**App. No. 94:** F. No. NBA/9/122/A2/07/Tecl Appl//: Mr.D.S. Sankholkar, Technical Head – Corporate Regulatory Affairs, Hindustan Lever Limited, Grand Office, The Inter Continental Hotel, Sahar Airport Road, Andheri East, Mumbai – 400059 / Mr.Ashok Gupta, Company Secretary, Hindustan Lever Limited, Hindustan Lever House, Backbay Reclamation, Mumbai – 400020 / Dr.A.S.Abhiraman, Executive Director – Research, Unilever Industries Private Limited, 64, Main Road, Whitefield, PO, Bangalore – 560066.

**Comments by the EC:** The Expert Committee has given the following comments

1. More information required on the purpose of collection

**Action: Secretary**

**App. No. 95:** F. No. NBA/9/122/A3/07/Tecl Appl//: Mr.D.S. Sankholkar, Technical Head – Corporate Regulatory Affairs, Hindustan Lever Limited, Grand Office, The Inter Continental Hotel, Sahar Airport Road, Andheri East, Mumbai – 400059 / Mr.Ashok Gupta, Company Secretary, Hindustan Lever Limited, Hindustan Lever House, Backbay Reclamation, Mumbai – 400020 / Dr.A.S.Abhiraman, Executive Director – Research, Unilever Industries Private Limited, 64, Main Road, Whitefield, PO, Bangalore – 560066.

**Comments by the EC:** The Expert Committee has given the following comments

1. More information required on the purpose of collection

**Action: Secretary**

**App. No. 96:** F. No. NBA/9/122/A4/07/Tecl Appl//: Mr.D.S. Sankholkar, Technical Head – Corporate Regulatory Affairs, Hindustan Lever Limited, Grand Office, The Inter Continental Hotel, Sahar Airport Road, Andheri East, Mumbai – 400059 / Mr.Ashok Gupta, Company Secretary, Hindustan Lever Limited, Hindustan Lever House, Backbay Reclamation, Mumbai – 400020 / Dr.A.S.Abhiraman, Executive Director – Research, Unilever Industries Private Limited, 64, Main Road, Whitefield, PO, Bangalore – 560066.

**Comments by the EC:** The Expert Committee has given the following comments

1. More information required on the purpose of collection

**Action: Secretary**

**App. No. 97:** F. No. NBA/9/122/A5/07/Tecl Appl//: Mr.D.S. Sankholkar, Technical Head – Corporate Regulatory Affairs, Hindustan Lever Limited, Grand Office, The Inter Continental Hotel, Sahar Airport Road, Andheri East, Mumbai – 400059 / Mr.Ashok Gupta, Company Secretary, Hindustan Lever Limited, Hindustan Lever House, Backbay Reclamation, Mumbai – 400020 / Dr.A.S.Abhiraman, Executive Director – Research, Unilever Industries Private Limited, 64, Main Road, Whitefield, PO, Bangalore – 560066.



**Comments by the EC:** The Expert Committee has given the following comments

1. More information required on the purpose of collection

**Action: Secretary**

**App. No. 98: F. No. NBA/9/122/A6/07/Tecl Appl//:** Mr.D.S. Sankholkar, Technical Head – Corporate Regulatory Affairs, Hindustan Lever Limited, Grand Office, The Inter Continental Hotel, Sahar Airport Road, Andheri East, Mumbai – 400059 / Mr.Ashok Gupta, Company Secretary, Hindustan Lever Limited, Hindustan Lever House, Backbay Reclamation, Mumbai – 400020 / Dr.A.S.Abhiraman, Executive Director – Research, Unilever Industries Private Limited, 64, Main Road, Whitefield, PO, Bangalore – 560066.

**Comments by the EC:** The Expert Committee has given the following comments

1. More information required on the purpose of collection

**Action: Secretary**

**App. No. 99: F. No. NBA/9/122/A7/07/Tecl Appl//:** Mr.D.S. Sankholkar, Technical Head – Corporate Regulatory Affairs, Hindustan Lever Limited, Grand Office, The Inter Continental Hotel, Sahar Airport Road, Andheri East, Mumbai – 400059 / Mr.Ashok Gupta, Company Secretary, Hindustan Lever Limited, Hindustan Lever House, Backbay Reclamation, Mumbai – 400020 / Dr.A.S.Abhiraman, Executive Director – Research, Unilever Industries Private Limited, 64, Main Road, Whitefield, PO, Bangalore – 560066.

**Comments by the EC:** The Expert Committee has given the following comments

1. More information required on the purpose of collection

**Action: Secretary**

**App. No. 100: F. No. NBA/9/122/A8/07/Tecl Appl//:** Mr.D.S. Sankholkar, Technical Head – Corporate Regulatory Affairs, Hindustan Lever Limited, Grand Office, The Inter Continental Hotel, Sahar Airport Road, Andheri East, Mumbai – 400059 / Mr.Ashok Gupta, Company Secretary, Hindustan Lever Limited, Hindustan Lever House, Backbay Reclamation, Mumbai – 400020 / Dr.A.S.Abhiraman, Executive Director – Research, Unilever Industries Private Limited, 64, Main Road, Whitefield, PO, Bangalore – 560066.

**Comments by the EC:** The Expert Committee has given the following comments

1. More information required on the purpose of collection

**Action: Secretary**

**App. No101: F. No. NBA/9/122/A9/07/Tecl Appl//:** Mr.D.S. Sankholkar, Technical Head – Corporate Regulatory Affairs, Hindustan Lever Limited, Grand Office, The Inter Continental Hotel, Sahar Airport Road, Andheri East, Mumbai – 400059 / Mr.Ashok Gupta, Company Secretary, Hindustan Lever Limited, Hindustan Lever House, Backbay Reclamation, Mumbai – 400020 / Dr.A.S.Abhiraman, Executive Director – Research, Unilever Industries Private Limited, 64, Main Road, Whitefield, PO, Bangalore – 560066.

**Comments by the EC:** The Expert Committee has given the following comments

1. More information required on the purpose of collection

**Action: Secretary**

**App. No. 102: NBA/9/85/05/Tech Appl: Shri.D.K. Chhatwal,** Under Secretary, DARE, New Delhi.; Export of Rice varieties to Fiji. (Diary no.102 dt.08-02-2007)

**Comments by the EC:** Recommended for approval under Section 5 of the Biological Diversity Act, 2002. DARE shall take care of the IPR and Benefit sharing if any on the above Third Party Transfer of bioresource.

**Action: Secretary**

**App. No. 103: NBA/9/85/05/Tech Appl: Shri.D.K. Chhatwal,** Under Secretary, DARE, New Delhi: Export of Indian Seminal Liquid of Murrah Buffalo to Republic of Bulgaria. (Diary no.131 dt.26-02-2007)

**Comments by the EC:** Recommended for approval under Section 5 of the Biological Diversity Act, 2002. DARE shall take care of the IPR and Benefit sharing if any on the above Third Party Transfer of bioresource.

**Action: Secretary**

**App. No. 104: NBA/9/85/05/Tech Appl: Shri.D.K. Chhatwal,** Under Secretary, DARE, New Delhi.; Export of saplings / plants / seeds to National and Kapodistrian University of Athens, Greece (Diary no.169 dt.15-03-2007)

**Comments by the EC:** Recommended for approval under Section 5 of the Biological Diversity Act, 2002. DARE shall take care of the IPR and Benefit sharing if any on the above Third Party Transfer of bioresource.

**Action: Secretary**

**Agenda 11: Minutes of the meeting on the Expert committee on Determination of Benefit Sharing on the applications submitted to NBA.**

The Secretary NBA informed the members of the authority that under the Chairmanship of Dr J.P. Mishra, ICAR and Dr S. Ganesan, TBGRI, Dr. S. Edison, CTCRI, as well as Prof. S. Kannaiyan Chairman NBA and Dr. K. Venkataraman, Secretary, NBA conducted a meeting on 24.03.2007 and decided on the benefit sharing on the IPR applications (Form III) approved in the previous Authority meetings for approval.

The authority took note of the minutes and recommendation of the meeting conducted by the Expert Committee on Benefit sharing and considered the recommendations for implementation.

**Action: Secretary**

**Agenda 12: Applications on Access, Research Results, IPR and Thirdparty transfer on bioresources of India (Period between 8<sup>th</sup> and 9<sup>th</sup> Meeting)**

The Secretary NBA informed the members of the Authority about the list of applications received between the 8<sup>th</sup> authority meeting and 9<sup>th</sup> authority meeting (between 7<sup>th</sup> March 2007 and June 7<sup>th</sup> 2007). The authority took note of the list of application and recommended the same to be put up to the Expert Committee for evaluation and the comments to be approved in the next meeting of the authority.

**Action: Secretary**

**Agenda 13: Approval of Annual accounts comprising of receipts and payment account, income and expenditure accounts and balance sheet for the year 2006-2007**

The Secretary, NBA placed the “**Annual accounts comprising of receipts and payment account, income and expenditure accounts and balance sheet for the year 2006-2007**” before the authority for approval.

**After careful examination of the** “Annual accounts comprising of receipts and payment account, income and expenditure accounts and balance sheet for the year **2006-2007**”, the authority approved the same.

**Action: Secretary**

**Agenda 14: Approval of Annual Report of NBA 2006-2007**

The Secretary placed the draft Annual Report for the year 2006-2007 (**Submitted to the Authority as a separate booklet**) to the Authority for approval.

After careful examination of the “Annual report for the year 2006-2007”, the authority approved the same. Also the members informed that the annual accounts to be printed in colour for easy understanding of the pie chart and the histogram representing the income and expenditure statement.

**Action: Secretary**

### **Agenda 15: Honorarium for the Expert Consultant**

**Dr J R B Alfred**, Former director, Zoological Survey of India worked as Expert Consultant for the Expert Committee on Designation of National Repositories. He has completed the task of preparation of Guidelines. It is decided by the Expert committee that Dr Alfred may be provided with an honorarium of Rs 10,000/= (Rs. Ten thousands only) for the work done on the preparation of guidelines.

After careful examination, the authority approved Honorarium to Dr JRB Alfred, Former Director, Zoological Survey of India for the work done for the preparation of final recommendation.

**Action: Secretary**

## **ADDITIONAL AGENDA FOR THE NINETH AUTHORITY MEETING**

### **With the permission of the Chairman**

#### **1. Appointment of Expert Consultant for the Expert Committee on Biodiversity Heritage Sites**

The Secretary, NBA informed to the members of the Authority that as per the approved minutes of the Second meeting of the Authority to appoint Expert consultants for the preparation of guidelines for notification, an advertisement has been placed in the NBA website for the post of “Expert Consultant”. Based on the advertisement in the website, an application from **Mr D. Ramakrishnan** for the post of an **Expert Consultant on Biodiversity Heritage Site** was received by the NBA.

After careful examination of the curriculum vitae of Mr D. Ramakrishnan, the authority approved the appointment of Mr D. Ramakrishnan as an Expert Consultant as per the Terms of Reference mentioned in the minutes of the 3<sup>rd</sup> Authority meeting for a period of three months.

**Action: Secretary**

## **2. Agenda by Dr. S. Subramaniam**

### **1. Visit to Sethusamudram by the members of the Authority.**

Chairman, NBA informed that the subject is very sensitive on environmental issue and also it is not the mandate of the NBA. Hence it is dropped.

### **2. Biodiversity Conservation Park at Thiruchrapalli by NBA.**

Dr Subramaniam informed that Conservation is the mandate of the NBA and a proposal to establish a Biodiversity Conservation park is highly necessary. The Chairman, NBA informed that there is no funing to take up the Biodiversity Conservation Park and it is not the main mandate of the NBA. Hence it is approved.

## **3. Agenda by Dr S. K. Sharma,**

### **1. On the letter submitted by the National Medicinal Plants Board.**

1. The issue of permitting export of Indian Medicinal Plants for WHO Indian Medicinal Plants Garden, Geneva, was discussed in detail. It was agreed that Department of AYUSH should have a MoU with WHO that these medicinal Plant species from India are planted in the garden for exhibition purpose only. These species in the garden will be fully protected to prevent piracy for any other purpose. This arrangement will satisfy queries of NBA Experts that these high valued Indian Medicinal Plants species will not be misused for any other purpose.
2. The issue of normal traded commodities was raised by Dr.S.K.Sharma, Adviser (Ay.). This need to include the medicinal plants used commonly in the ASU Pharmacopoeia and Formularies. It was decided that Dr.S.K.Sharma, Adviser (Ay.) will be co-opted as a member in the Expert Group on National Traded Commodities headed by Dr.Mishra, ADG, ICAR.
3. The letter from JS(AYUSH) , Sh.Shiv Basant, on the issue of theft of India's traditional knowledge and genetic material by the foreign agencies under the name of R&D based on Indian Medicinal Plants was raised by Dr.S.K.Sharma.
4. On the letter submitted by Ayurvedic Drug Manufactures Association (ADMA)

The Secretary, NBA informed that the letter submitted by ADMA was discussed already in the second meeting of the Authority. The following are the out come of the letter submitted and the discussions made during the authority meeting.

1. Simplified Procedures for regulation: The Ayurvedic Drug Manufacturers Association members are of Indian Company and they need not apply to NBA for approval of access. They need to apply to SBB for approval by paying collection fee.
2. Normally Traded Commodities: The normally traded commodities including many medicinal plants are being considered for exemption by an Expert committee constituted by the Authority. First meeting of the Committee is over and in the second meeting many of the Normally Traded Commodities will be considered for approval.
3. Value added Products: The inclusion of Herbal extract under value added product is to be discussed in the Expert Committee constituted by the Authority and notified with the approval of Authority.
4. Research: For research purposes all the Indian drug manufacturing companies need not take permission from SBB as well as NBA.
5. Benefit sharing of the use of Biological resources for commercialization by Indian companies is to be decided by respective State Biodiversity Boards of the States. NBA has finalized the preparation of the benefit sharing guidelines for the foreign citizens for section 3, 4 and 6 as per Section 21 of the Biological Diversity Act, 2002 and Rule 20 of Biological Diversity Rules, 2004.

Finally, it is informed that all the Drug Manufacturing Companies of India are not covered under the Section 3 of the Biological Diversity Act, 2002. Also NBA is working on the Normally Traded Commodities under Section 40 and it will be notified as the earliest which includes many of the medicinal plants which are in commercial use. The Form I of the Biological Diversity Rule, 2004 mentioned in the letter are meant only for access of bioresources by foreign citizens as per section 3 of the BD Act, 2002 and Form II for Indians transferring Research Results (Technology) to foreigner under section 4 of the Biological Diversity Act, 2002, and Form III for Indians claiming IPR under section 6 of the Biological Diversity Act, 2002. The Benefit sharing under section 21 is for use of bioresources under section 3, 4 and 6 of the biodiversity act and for Indian Companies it is determined by the local State Government. A reply on the discussion made on the letter by ADMA will be sent.

#### **4. Appointment for the post of TECHNICAL ASSISTANT (Botany)**

A committee constituted by the Chairman, National Biodiversity Authority to screened the list of eligible candidates for the interview selected **Shri K Ganeshan** and **Shri P. Anandhakumar** for the interview as per the minutes of the committee. Among the candidates eligible for interview the permissible age limit is 27 +5 yrs. **Shri.**

**Anandhakumar** is 34 years and 9 months and he is over aged by 2 years and 9 months, has been condoned by the Chairman, NBA being the competent authority as per Section 7 under the Head "Power to relax" vide RR/G.S.R.156 dt 30.6.2006. The interview committee constituted by the Chairman, NBA held its interview and unanimously recommended Mr. P. Anandhakumar for appointment for the post of Technical Assistant (Botany). Based on his performance in the interview, and his work experience as Field Assistant in Medicinal Plants Research Project, as required for the post of Technical Assistant (Botany) the age relaxation may be approved as a special case for appointment.

The Authority after careful examination considered the appointment of Shri Anandhakumar as Technical Assistant (Botany) and ratified the relaxation of age by 2 years and 9 months as per provisions of Clause 7 of the notification RR/GSR 156 dated 30.6.2006.

<b>Action: Secretary</b>
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**At the end of the meeting Secretary, NBA thanked the Members of the Authority for their valuable suggestions. Also the date for the next Authority meeting is fixed for September 2007.**

**Appendix 1: Attendance of Members Present**

**OFFICIAL MEMBERS PRESENT**

**Dr J. P. Mishra**

Asst. Dir. General (CSC & ES&M)  
Room No 212,  
Indian Council of Agriculture, Krishi Bhavan, New Delhi – 110001.

**Dr B. R. Subramaniam,**

Advisor and Project Director, Department of Ocean Development,  
NIOT campus; Pallikaranai, Chennai 601 302.

**Dr. S. Natesh**

Advisor, Department of Biotechnology  
CGO Complex, Block No. 2, Lodhi Road, New Delhi 110003

**Dr. S. K. Sharma,**

Advisor – Ayurveda, Dept of AYUSH,  
201, Red Cross Building, Parliament Street, New Delhi 110 001

**Dr R. K. Rai (MoEF Observer)**

Addl. Director, Ministry of Environment and Forests  
Pariyavaran Bhavan, Lodi Road, New Delhi 110 003

**LEAVE OF ABSENCE GRANTED TO OFFICIAL MEMBERS**

**Shri A. K. Upadhyay**

Additional Secretary to Government of India,  
Ministry of Agriculture, Deptt. of Agricultural Research and Education,  
Krishi Bhavan, Dr. Rajendra Prasad Road, New Delhi – 110001.

**Addl Director General of Forests (Wildlife)**

Ministry of Environment and Forests  
Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi 110003

**Shri G. Balachandhran**

Joint Secretary, Ministry of Environment and Forests  
Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi 110003

**Shri Sanjeev Nair**

Director, Department of Science and Technology,  
Technology Bhavan; New Mehrauli Road, New Delhi 110 016

**Shri Bachittar Singh**

Joint Secretary, Ministry of Tribal Affairs  
Shastri Bhavan, Dr. Rajendra Prasad Road, New Delhi-110001.



**Shri Nikhilesh Jha,**

Joint Secretary, Department of Scientific and Industrial Research  
Ministry of Science and Technology,  
Technology Bhavan, New Mehrauli Road, New Delhi – 110001.

**NON-OFFICIAL MEMBERS PRESENT**

**Dr A. K. Ghosh,**

Director, Centre for Environment and Development,  
329, Jodhpur Park, Kolkata -700 068.

**Dr. S. Subramaniam,**

54 VGP – Golden Sea View, Part II, 2<sup>nd</sup> Main Road,  
5 Cross Street, Palavakkam, Chennai – 600041.

**Prof. K. Kathiresan,**

Centre for Advanced Study in Marine Biology,  
Annamalai University, Parangipettai – 608502.

**LEAVE OF ABSENCE GRANTED TO NON OFFICIAL MEMBERS**

**Prof. Raghavendra Gadagkar,**

Centre for Ecological Sciences, Indian Institute of Science,  
Bangalore 560 012.

**Prof. Anil Gupta,**

Indian Institute of Management,  
Ahmedabad 380 015

**K. Venkataraman, Secretary**