

**INSTITUTE TECHNOLOGY MANAGEMENT COMMITTEE
ICAR-NATIONAL BUREAU OF AGRICULTURAL INSECT RESOURCES
(ICAR-NBAIR), BANGALORE**

Date: 07-03-2018

Proceedings of the ITMC meeting

ITMC meeting was held at conference hall, ICAR-NBAIR on 7th March, 2018 at 10.00 AM, and the following members were present.

ITMC Members

Dr. Chandish R. Ballal	Director & Chairperson
Dr. Sudha Mysore	Pr. Scientist & External expert, ICAR-IIHR,
Dr. T. Venkatesan	Pr. Scientist &, Member Secretary, ITMC
Dr. K. Subaharan	Pr. Scientist & In -Charge, Head, Div. of Germplasm Conservation & Utilization
Dr. K. Sreedevi	Pr. Scientist & In -Charge, Head, Div. of Germplasm Collection & Characterization
Mr. Alok Kumar	Adm. Officer, Member
Mr. T.A. Vishwanath	FAO, Member
Dr. T. Venkatesan	Member Secretary

Agenda -1

The following inventions were disclosed

**Invention-1: Waste to wealth: Technology on Black Soldier Fly (BSF) mediated
bioconversion of farm and kitchen wastes- by**

1) Dr. Mahesh Yandegeri, Pr. Scientist, NBAIR.	Inventor
2) Dr. G. Mahendiran, NBAIR.	Co- Inventor
3) Dr. M. Mohan, NBAIR.	Co- Inventor
4) Dr. M. Sampath Kumar, NBAIR.	Co- Inventor
5) Dr. Jagadeesh Patil, NBAIR.	Co- Inventor

Experts Comments/Suggestions:

a) The committee enquired about details of stakeholders who would be interested in the presented technology and the inventor mentioned that Municipality waste management unit, BBMP and Poultry farmers could be the possible stakeholders who would be interested in the technology. Further the inventor added that pupae of the BSF can also be used as a fish feed.

b) Inventor clarified that the invention is only for commercialization through imparting technical know-how and providing nucleus culture of black soldier fly.

c) Committee fixed Rs. 25,000/- (Twenty five thousand rupees only) plus GST for the commercialization of the technology.



Invention-2: Insect repellent formulation and methods thereof- by

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| 1) Dr. K. Subharan, Pr. Scientist, NBAIR | Inventor |
| 2) Prof. Eswaramoorthy, JNCASR, Bangalore | Co- Inventor |
| 3) Dr. N. Bakthavatsalam, NBAIR, | Co- Inventor |
| 4) Dr. G. Shivakumar, NBAIR. | Co- Inventor |

The committee posed the following queries

1. Application of the technology against the menace of houseflies in poultry farms.
2. Is there any chance of housefly developing resistance to the components of repellants?
The inventor stressed the importance of the innovation keeping in view of the housefly menace in poultry farms and extent of usage of chemical insecticides which may lead to residue problems in poultry products. He also explained that the insect repellent formulation can be sprayed twice in a month especially from June to August. Further, the flies may not develop resistance as the formulation consists of mixture of three components. Among different repellants, thymol was recorded to be ideal as it is readily available and has got good repellent index. The formulation has 60 days of shelf life. Further, the committee approved the invention for filing IP and also for commercialization and fixed the cost as 1.0 lakh (one lakh rupees only) plus GST.

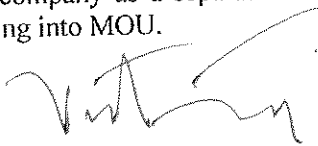
Invention-3: Novel Device for field release of parasitoids- by

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| 1) Dr. T. Venkatesan, Pr. Scientist, NBAIR. | Inventor |
| 2) Dr. G. Senthil Kumaran, Pr. Scientist, IIHR | Co- Inventor |
| 3) Dr. R. S. Ramya, Scientist, NBAIR | Co- Inventor |
| 4) Dr. K. Selvaraj, Scientist, NBAIR | Co- Inventor |
| 5) Dr. O.S. Navik, Scientist, NBAIR | Co- Inventor |
| 6) Dr. S. K. Jalali, Scientist, NBAIR | Co- Inventor |
| 7) Dr. Chandish R. Ballal, Director, NBAIR | Co- Inventor |

Committee appreciated the simplicity and novelty of the invention and approved for commercialization and fixed the price for Rs. 25,000 (Twenty five thousand rupees only) plus applicable tax.

Agenda-2: Issue of sale of technologies to group of companies or company having sister companies.

The committee discussed the possibility of a company buying the technology and sharing the same with group of companies or sister companies. In this regard, the committee unanimously felt that a company having sister companies cannot be treated as a single company. Further, the committee suggested to treat each sister company as a separate licensee and each sister company has to buy the technology separately by entering into MOU.



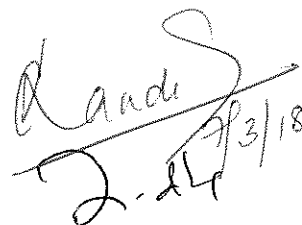
Agenda-3

Price fixation of the technology titled "Powder based formulation of *Pseudomonas fluorescens*, a DAPG producing abiotic stress tolerant isolate for rain fed and stressed agricultural soils." by Dr. R. Rangeswaran, Pr. Scientist, NBAIR.

Committee fixed Rs. 1.0 lakh (one lakh rupees only) plus GST for the above mentioned technology for commercialization.

SIGNATURES OF THE COMMITTEE

Dr. Chandish R. Ballal Director & Chairperson, ITMC


2.24/3/18

Dr. Sudha Mysore Pr. Scientist & External Expert, ICAR-IIHR

Dr. T. Venkatesan Pr. Scientist &, Member Secretary, ITMC


07/03/18

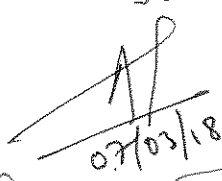
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7.3.18

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Mr. T.A. Vishwanath FAO, Member

