



**REPORT OF THE WORKSHOP  
ON CAPACITY BUILDING OF FORESTRY DEPARTMENT  
PENINSULAR MALAYSIA'S STAFF IN IDENTIFICATION  
OF AQUILARIA TO SPECIES LEVEL AND IN THE  
GRADING OF AGARWOOD  
18 - 20 MAY 2015, KUALA LIPIS, PAHANG, MALAYSIA**

**MALAYSIA'S WORK PROGRAM FOR 2014/2015**

This work was made possible by a grant from ITTO under the collaborative program with CITES "Support to ITTO: CITES Implementation for Tree Species and Trade/Market Transparency (TMT)". Donors to this collaborative program include the EU (primary donor), the USA, Germany, the Netherlands, Norway and China".

**Implementing Agency :**  
**Forestry Department Peninsular Malaysia (FDPM)**  
**Jalan Sultan Salahuddin**  
**50660 Kuala Lumpur**

# MALAYSIA'S WORK PROGRAM FOR 2014/2015

|                     |   |
|---------------------|---|
| Title               | <b>Capacity Building of Forestry Department Peninsular Malaysia's Staff in Identifying <i>Aquilaria</i> to Species Level and in the Grading of Agarwood</b>   |
| Executing Agency    | <b>Ministry of Natural Resources and Environment Malaysia (MNRE)</b>  |
| Implementing Agency | <b>Forestry Department Peninsular Malaysia (FDPM)</b>   |
| Project Coordinator | <b>Encik Mohd Nasir Bin Abu Hassan</b>  |
| Secretariats        | <b>Encik Mohamed Zin bin Yusop<br/>Encik Abdul Khalim bin Abu Samah<br/>Encik Aldrich Richard<br/>Encik Harry Yong<br/>Cik Noor Ain binti Abd Karim<br/>Puan Siti Raihana binti Ramli<br/>Encik Muhammad Fikri bin Taib<br/>Puan Yumarnis binti Riasmi<br/>Puan Siti Aishah binti Abd Wahab<br/>Puan Rafizah binti Minhad</b> |
| National Experts    | <b>Puan Marina binti Tuan Ibrahim<br/>Encik Mohd Nasir bin Mohd</b>   |
| Paper Presenters    | <b>Encik Mohamed Zin bin Yusop<br/>Encik Samsu Anuar bin Nawawi<br/>Encik Almizi bin Ibrahim<br/>Encik Mohd. Nasir bin Mohamed<br/>YBhg. Datuk Haji Abdul Razak bin Haji Ali<br/>Encik Abdul Wahab bin Dollah<br/>Encik Rosli bin Awang</b>   |
| Venue               | <b>KUALA LIPIS, PAHANG</b>  |
| Date                | <b>18 - 20 MAY 2015</b>   |

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**Workshop on Capacity Building of Forestry Department Peninsular  
Malaysia's Staff in Identification of *Aquilaria* to Species Level and in the  
Grading of Agarwood  
18 - 20 May 2015, Kuala Lipis, Pahang, Malaysia**

**REPORT OF THE WORKSHOP**

**1.0 BACKGROUND**

The Workshop is one of the activity (Activity 2.1 – Prepare and conduct a workshop on the grading of Agarwood with stakeholders) in the Activity approved to be implemented by Forestry Department Peninsular Malaysia (FDPM) - “*Capacity Building of Forestry Department Peninsular Malaysia's Staff in Identification of Aquilaria to Species Level and in the Grading of Agarwood*” under the ITTO-CITES 2014/2015 Malaysia's Work Programme.

**2.0 WORKSHOP OBJECTIVE**

The Workshop aims to gather and share information from relevant stakeholders especially Agarwood entrepreneur which will enable Forestry Department Peninsular Malaysia to produce a practical manual in the grading of Agarwood. The specific objectives are as follows:

- i. to share information on the implementation of *Activity Capacity Building of Forestry Department Peninsular Malaysia's Staff in Identifying Aquilaria to Species Level and in the Grading of Agarwood* to relevant stakeholders;
- ii. to gather information on the grades of Agarwood; and
- iii. to discuss issues regarding the grading of Agarwood.



## 3.0 WORKSHOP DELIBERATION

### 3.1 Workshop Venue and Participants

The Workshop was held at Centre Point Hotel, Kuala Lipis, Lipis, Pahang, about 160 kilometres from Kuala Lumpur. Kuala Lipis was chosen as the Workshop venue as it is only about 10 kilometres from one of the *Aquilaria* plantation in the State of Pahang, where a field visit was scheduled prior to the Workshop. A total of 37 participants from various departments, agencies and industries attended the workshop as in **Annex 1**.

### 3.2 The Programme

The workshop's programme was divided into three (3) sessions as below:

- i. Session 1: Field Visit and Opening Ceremony
- ii. Session 2: Presentation of Papers
- iii. Session 3: Breakout Sessions and Group Presentations

The detail workshop's programme is as in **Annex 2**.

#### 3.2.1 Field Visit and Opening Ceremony

##### 3.2.1.1 Field Visit

The field visit was organised prior to the workshop to give participants a hands-on experience on the management of *Aquilaria* plantation and the Agarwood produced from the plantation.

### 3.2.1.2 Opening Ceremony

The Opening Ceremony was graced by Mr. Mohd Nasir bin Abu Hassan, Director of Silviculture and Forest Biodiversity Conservation Division on behalf of Director General of Forestry Peninsular Malaysia (DGFPM). He welcomed the participants and highlighted the purpose of the workshop. He also expressed his appreciation to Ministry of Natural Resources and Environment, Malaysia and Forestry Department Peninsular Malaysia for hosting the workshop and ITTO-CITES for the financial assistance. He stressed that the workshop is conducted timely to refine and standardize the grading of Agarwood and hope that it will assist FDP and state governments in improving the efficiency in tax collection and thus indirectly improve the integrity and image of the department. Finally, he wished the participants a pleasant stay and the workshop a fruitful discussion. The Director General of Forestry Peninsular Malaysia opening speech is attached as in **Annex 3**.

### 3.2.2 Presentation of Papers

There are seven (7) papers presented by the respective departments, agencies and industries. **Annex 4** shows list of paper presenters and **Annex 5** contains abstract / slide presentation of paper presented during the workshop.

### **3.2.3 Breakout Sessions and Group Presentations**

After the presentation of papers session, the participants were divided into four groups and were given assignment as follows:

- i. to grade samples of Agarwood according to their characteristic; and
- ii. to discuss issues pertaining to the current grading of Agarwood practiced by Forestry Department Peninsular Malaysia.

Each group presented their grading on the samples of Agarwood according to their own interpretation and prepared a broad range of recommendations to be reviewed by the National Expert.





KUMPULAN A



#### 4.0 WORKSHOP RECOMENDATION

Each group had deliberated and discussed aspects concerning the standardisation of Agarwood grading method. Based on the group presentations, it is recommended that:

- i. the grading of Agarwood practice by Forestry Department Peninsular Malaysia need to be enhanced and standardised;
- ii. there is a need to come-up with a practical tool in the grading of Agarwood; and
- iii. there is a need for continuous training in the grading of Agarwood.

#### 5.0 CONCLUSION

The successful implementation of the Workshop contributed towards the publication of “**Manual Penggredan Gaharu Jabatan Perhutanan Semenanjung Malaysia (Forestry Department Peninsular Malaysia’s Manual in Grading of Agarwood)**”; and “**Panduan Kerja Luar Penggredan Gaharu Jabatan Perhutanan Semenanjung Malaysia (A Field Guide to the Forestry Department Peninsular Malaysia’s in Grading of Agarwood)**”. The successful of the workshop is also due to the collaboration among relevant departments, agencies and industries as well as effective monitoring by Ministry of Natural Resources and Environment.

ANNEX



## ANNEX 1 : List of Participants

| NO. | NAME                               | ORGANIZATION / AGENCY        | EMAIL   |
|-----|------------------------------------|------------------------------|---|
| 1   | Mohd Nasir Bin Abu Hassan          | FDPM HQ                      | hjnasil@forestry.gov.my                       |
| 2   | Mohamed Zin Bin Yusop              | FDPM HQ                      | mzin@forestry.gov.my                          |
| 3   | Aldrich Richard                    | FDPM HQ                      | aldrich@forestry.gov.my                       |
| 4   | Harry Yong                         | FDPM HQ                      | harry@forestry.gov.my                         |
| 5   | Dr. Rusli Bin Ibrahim              | Nuclear Agency Malaysia      | -   |
| 6   | Sahrim Lias                        | FRIM                         | sahrim@frim.gov.my                            |
| 7   | Muhammad Norhisham Bin Yahya       | PERHILITAN                   | -   |
| 8   | Datuk Hj. Abdul Razak Bin Hj. Ali  | BioBenua Teknologi Sdn. Bhd. | ross_abrah@hotmail.com / razak_6@yahoo.com.my |
| 9   | Abdul Wahab Bin Dollah             | Perusahaan Ladang Gaharu     | -   |
| 10  | Rosli Bin Awang                    | RNZ Agarwood                 | gaharuhunter@yahoo.com                        |
| 11  | Almizi Bin Ibrahim                 | MTIB                         | almizi@mtib.gov.my                            |
| 12  | Samsu Anuar Bin Naw                | FDPM HQ                      | samsuanuar@forestry.gov.my                    |
| 13  | Mohd Nasir Bin Mohamad             | SFD of Pahang                | nasir@forestry.gov.my                         |
| 14  | Mohd Hafiz Bin Samsudin            | SFD of Pahang                | hafizsamsudin@forestry.gov.my                 |
| 15  | Zahariah Binti Zainal Abidin       | SFD of Pahang                | zahariah@forestry.gov.my                      |
| 16  | Muhammad Shahrul Anuar Bin Hasaini | SFD of Pahang                | shahrulanuar@forestry.gov.my                  |
| 17  | Mohd Nor Firdaus Bin Rahim         | SFD of Perak                 | firdaus@forestry.gov.my                       |
| 18  | Noor Aida Binti Deros              | SFD of Perak                 | aida@forestry.gov.my                          |
| 19  | Syahir Afizi Bin Abd Aziz          | SFD of Melaka                | -   |

| NO. | NAME                                 | ORGANIZATION / AGENCY | EMAIL                        |
|-----|--------------------------------------|-----------------------|------------------------------|
| 20  | Suhaidi Bin Sinin                    | SFD of Penang         | suhaidi@penang.com.my        |
| 21  | Samsul Kamal Bin Buyong              | SFD of Penang         | -                            |
| 22  | Mohd Fauzi Bin Awang Mat             | SFD of Terengganu     | mfauzi@forestry.gov.my       |
| 23  | Mohd Haris Bin Hamzah                | SFD of Terengganu     | -                            |
| 24  | Basri Bin Abdul Wahid                | SFD of Selangor       | basri_wahid@forestry.gov.my  |
| 25  | Mohd Nashir Sabri Bin Ibrahim        | SFD of Selangor       | nashir@forestry.gov.my       |
| 26  | Nur Ain Bin Mustapa                  | SFD of Kelantan       | nur_ain@forestry.gov.my      |
| 27  | Suryani Binti Mohd Nordin            | SFD of Kelantan       | suryani@forestry.gov.my      |
| 28  | Mohd Zuhir Bin Ahmad Mustafa Khalili | SFD of Kedah          | zuhir@forestry.gov.my        |
| 29  | Mohd Thajirine Bin Sukri             | FDPM HQ               | thajirine@forestry.gov.my    |
| 30  | Mohd Shahril Nizam Bin Mat Ali       | FDPM HQ               | shahrilnizam@forestry.gov.my |
| 31  | Muhammad Ezhar Bin Yusuf             | FDPM HQ               | ezhar@forestry.gov.my        |
| 32  | Juliana Binti Yahya                  | FDPM HQ               | juliana@forestry.gov.my      |
| 33  | Khairunnisa Binti M Mamat            | FDPM HQ               | nisa@forestry.gov.my         |
| 34  | Muhammad Fekri Bin Taib              | FDPM HQ               | Fekri_taib@forestry.gov.my   |
| 35  | Noor Ain Binti Abd Karim             | FDPM HQ               | noorain@forestry.gov.my      |
| 36  | Yumarnis Binti Riasmi                | FDPM HQ               | yumarnis@forestry.gov.my     |
| 37  | Siti Aishah Binti Abdul Wahab        | FDPM HQ               | aishah@forestry.gov.my       |

## ANNEX 2 : Workshop's Programme



Jabatan Perhutanan Semenanjung Malaysia  
Jalan Sultan Salahuddin, 50660 Kuala Lumpur  
Tel: 03-2616 4488 Fax: 03-2692 5657 Hotline: 1-800-88-5776

[www.forestry.gov.my](http://www.forestry.gov.my)



**BENGKEL CAPACITY BUILDING OF FORESTRY DEPARTMENT PENINSULAR MALAYSIA'S STAFF IN IDENTIFYING AQUILARIA TO SPECIES LEVEL AND IN THE GRADING OF AGARWOOD**

**18–20 MEI 2015**  
**HOTEL CENTREPOINT, KUALA LIPIS**  
**PAHANG DARUL MAKMUR**

**Pengenalan**

JPSM telah mendapat peruntukan daripada ITTO-CITES untuk melaksanakan projek *Capacity Building of Forestry Department Peninsular Malaysia's Staff in Identifying Aquilaria to Species Level and in the Grading of Agarwood* dimana salah satu aktiviti yang terdapat di dalam projek ini adalah pelaksanaan bengkel pengecaman spesies pokok karas dan penggredan gaharu untuk kakitangan JPSM.

Pokok Karas atau *Aquilaria* spp. tergolong dalam famili Thymelaeaceae dimana terdapat 25 spesies di seluruh dunia yang boleh didapati di Bangladesh, Bhutan, India, Malaysia, Myanmar, Filipina dan Thailand. Perhatian dunia ke atas pemeliharaan dan status perdagangan spesies *Aquilaria* mula diberi tumpuan setelah ianya dimasukkan ke dalam *Appendix II, Convention on International Trade in Endangered Species of Wild Flora and Fauna (CITES)* pada 16 Februari 1995.

**Objektif**

- Mengumpul dan berkongsi maklumat daripada pelbagai agensi khususnya dalam industri gaharu bagi membolehkan JPSM mewujudkan satu (1) Manual Penggredan Gaharu yang praktikal untuk digunakan; dan
- Meningkatkan kapasiti kakitangan JPSM dalam penggredan gaharu di lapangan.

**PENGHARGAAN**

*Jawatankuasa Bengkel Capacity Building of Forestry Department Peninsular Malaysia's Staff in Identifying Aquilaria to Species Level and in the Grading of Agarwood merakamkan setinggi-tinggi ucapan penghargaan dan terima kasih kepada semua jabatan dan agensi serta individu yang terlibat secara langsung atau tidak langsung di dalam menjayakan bengkel ini.*



## JAWATANKUASA PENGANJUR

### PENASIHAT

YBHG. DATO' SRI DR. HJ. ABD. RAHMAN BIN HJ. ABD. RAHIM  
KETUA PENGARAH PERHUTANAN SEMENANJUNG MALAYSIA

### PENGERUSI

TUAN HJ. MOHD NASIR BIN ABU HASSAN  
PENGARAH  
BAHAGIAN SILVIKULTUR DAN PEMELIHARAAN BIOLOGI HUTAN

### TIMBALAN PENERUSI

MOHAMED ZIN BIN YUSOP  
KETUA PENOLONG PENGARAH SEKSYEN SILVIKULTUR  
BAHAGIAN SILVIKULTUR DAN PEMELIHARAAN BIOLOGI HUTAN

### AHLI-AHLI

TUAN HJ. ABDUL KHALIM BIN ABU SAMAH  
TUAN MARINA BINTI TUAN IBRAHIM  
ALDRICH RICHARD  
HARRY YONG  
MOHD NASIR BIN MOHD  
SITI RAHANA BINTI RAMLI  
NOOR AIN BINTI ABD. KARIM  
MUHAMMAD FEKRI BIN TAIB  
RAFIZAH BINTI MINHAT  
SITI AISHAH BINTI WAHAB  
MOHD HAFIZ BIN MD. ISA  
YUMARNIS BINTI RIASMI

## ATURCARA PROGRAM

| TARIKH / MASA               | AKTIVITI   |
|-----------------------------|--|
| <b>18 Mei 2015 (Isnin)</b>  |  |
| 12.00 tgh - 12.15 tgh       | Berkumpul di Lobi Hotel  |
| 12.15 tgh - 6.00 ptg        | Sesi Lawatan Tapak Ke Ladang Gaharu di Kechau, Kuala Lipis   |
| 6.00 ptg - 6.30 ptg         | Check in Hotel   |
| 6.30 ptg - 8.00 mlm         | Makan malam  |
| 8.00 mlm - 8.30 mlm         | Sesi taklimat kepada fasilitator / penceramah  |
| 8.30 mlm - 9.30 mlm         | Majlis Perasmian bengkel " <i>Capacity Building of Forestry Department Peninsular Malaysia's Staff in Identifying to Species Level and in the Grading of Agarwood</i> "  |
| 10.00 mlm                   | Bersurai   |
| <b>19 Mei 2015 (Selasa)</b> |  |
| 7.30 pg - 8.00 pg           | Sarapan Pagi   |
| 8.00 pg - 8.30 pg           | Pendaftaran Peserta  |
|                             | Pembentangan Kertas Kerja  |
| 8.30 pg - 9.10 pg           | <b>KERTAS 1:</b><br>" <i>Capacity Building of Forestry Department Peninsular Malaysia's Staff in Identifying to Species Level and in the Grading of Agarwood</i> "<br><b>En. Mohamed Zin Bin Yusop - BSB, JPSM</b> |

|                      |  |
|----------------------|--|
| 9.10 pg - 9.50 pg    | <b>KERTAS 2:</b><br>Laporan Stok dan Taburan Spesies <i>Aquilaria</i> Di Semenanjung Malaysia Mengikut Laporan Inventori Hutan Nasional Kelima<br><b>En. Samsu Anuar Bin Nawli - BUH, JPSM</b> |
| 9.50 pg - 10.30 pg   | <b>KERTAS 3:</b><br>Prosedur Perolehan Permit CITES Bagi Import & Eksport Kayu Dan Produk Berasaskan Gaharu<br><b>MTIB</b>   |
| 10.30 pg - 11.00 pg  | Kudapan  |
| 11.00 pg - 12.00 tgh | Sambungan Pembentangan Kertas Kerja<br><b>KERTAS 4:</b><br>Pengenalan dan Asas Pencapaian Spesies <i>Aquilaria</i><br><b>En. Mohd Nasir Bin Mohamad - JPN Pahang</b>                           |
| 12.00 tgh - 1.00 ptg | <b>KERTAS 5:</b><br>Potensi Inokulan Dalam Penghasilan Gaharu<br><b>Datuk Haji Abdul Razak Bin Haji Ali Pengurus Biobenua Teknologi Sdn. Bhd</b>   |
| 1.00 ptg - 2.00 ptg  | Makan Tengahari  |
| 2.00 ptg - 3.00 ptg  | Sambungan Pembentangan Kertas Kerja<br><b>KERTAS 6:</b><br>Prospek dan Cabaran Dalam Penubuhan dan Pengurusan Ladang Gaharu<br><b>Hj. Abdul Wahab Bin Dollah Pengusaha Gaharu</b>              |

|                           |  |
|---------------------------|--|
| 3.00 ptg - 4.00 ptg       | <b>KERTAS 7:</b><br>Pemrosesan dan Pemasaran Minyak Gaharu<br><b>En. Rosli Bin Awang Pengurus RNZ Agarwood</b> |
| 4.00 ptg - 4.30 ptg       | Kudapan  |
| 4.30 ptg - 6.30 ptg       | Perbincangan Berkumpulan Berkaitan Manual Pengredan Gaharu   |
| 6.30 ptg - 8.00 mlm       | Makan Malam  |
| 8.00 mlm - 11.00 mlm      | Sambungan Perbincangan Berkumpulan Berkaitan Manual Pengredan Gaharu   |
| <b>20 Mei 2015 (Rabu)</b> |  |
| 7.30 pg - 8.00 pg         | Sarapan Pagi   |
| 8.30 pg - 11.00 pg        | Pembentangan Pengredan Gaharu oleh Kumpulan  |
| 11.00 pg - 11.45 pg       | Kudapan  |
| 10.45 pg - 12.00 tgh      | Pembentangan Rumusan Bengkel   |
| 12.00 tgh                 | Penutupan Bengkel  |
| 2.00 ptg                  | Check out  |



**ANNEX 3 : Director General of Forestry Peninsular Malaysia Speech**

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**UCAPAN**

Y.BHG. DATO' SRI DR. HJ. ABD. RAHMAN BIN HJ. ABD. RAHIM  
KETUA PENGARAH  
PERHUTANAN SEMENANJUNG MALAYSIA

SEMPENA MAJLIS PERASMIAN

*BENGKEL CAPACITY BUILDING OF FORESTRY DEPARTMENT  
PENINSULAR MALAYSIA'S STAFF IN IDENTIFYING AQUILARIA TO  
SPECIES LEVEL AND IN THE GRADING OF AGARWOOD  
PADA 18 MEI 2015 (ISNIN) (29 REJAB 1436H)  
DI HOTEL CENTREPOINT KUALA LIPIS,  
PAHANG DARUL MAKMUR*

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**Bismillahir-rahman-nirrahim.**

**Selawat dan Salam Keatas Nabi Muhammad SAW.**

Assalamualaikum Warahmatullahi-wabarakatuh,  
Salam Sejahtera,  
Salam 1Malaysia,  
Salam 1NRE; dan  
Salam 1JPSM.

Terima kasih Saudara/Saudari Pengacara Majlis.

**YBhg. Dato' Hj. Mohd. Paiz bin Kamaruzaman,**  
Pengaroh Perhutanan Negeri Pahang Darul-Makmur.

**YBrs. Tn. Hj. Mohd Nasir bin Abu Hassan,**  
Pengaroh Bahagian Silvikultur dan Pemeliharaan Biologi Hutan,  
Ibu Pejabat Jabatan Perhutanan Semenanjung Malaysia,

Merangkap Pengerusi Jawatankuasa Penganjur Bersama JPMS-NRE-ITTO Bengkel *Capacity Building of Forestry Department Peninsular Malaysia's Staff in Identifying Aquilaria to Spesies Level and in the Grading of Agarwood*.

**YBrs. Puan Fazilah binti Mohd Zaini**

Ketua Penolong Setiausaha  
Bahagian Biodiversiti dan Perhutanan  
Kementerian Sumber Asli dan Alam Sekitar, Malaysia (NRE).

**YBrs. Encik Muhamad Hafiz bin Samsudin,**

Pegawai Hutan Daerah Lipis, Pahang

**YBhg. Datuk Haji Abdul Razak bin Haji Ali,**

Timbalan Presiden Persatuan Pengusaha Gaharu Bumiputera Malaysia (PENGHARUM)

Penceramah-penceramah jemputan

Pegawai-pegawai Kanan,  
Jabatan Perhutanan Negeri Pahang.

Dif-dif Jemputan, Dato'-Dato', Tuan-tuan dan Puan-puan peserta bengkel yang dihormati sekalian.

Pertama-tamanya, marilah kita memanjatkan kesyukuran kehadiran Allah SWT kerana dengan limpah dan iradahnya dapatlah kita berkumpul di Hotel Centrepoint Kuala Lipis Pahang Darul Makmur yang serba indah pada pagi ini bersempena dengan Majlis Perasmian Bengkel *Capacity Building of Forestry Department Peninsular Malaysia's Staff in Identifying Aquilaria to Spesies Level and in the Grading of Agarwood* anjuran bersama Kementerian Sumber Asli dan Alam Sekitar, Malaysia (NRE), International Tropical Timber Organisation (ITTO) dan Jabatan Perhutanan Semenanjung Malaysia (JPMS).

2. Sebelum meneruskan ucapan ini, izinkan saya mengambil kesempatan di sini untuk merakamkan ucapan setinggi-tinggi terima kasih serta penghargaan kepada YBhg. Dato' Hj. Mohd. Paiz bin Kamaruzaman, Pengarah Perhutanan Negeri Pahang Darul Makmur di atas kesudian Jabatan Perhutanan Negeri Pahang menjadi tuan rumah bagi Bengkel pada kali ini.

3. Di kesempatan ini, izinkan saya juga merakamkan ucapan setinggi-tinggi terima kasih kepada YBrs. Tn. Hj. Mohd Nasir bin Abu Hassan Pengarah Bahagian Silvikultur dan Pemeliharaan Biologi Hutan Ibu Pejabat Jabatan Perhutanan Semenanjung Malaysia selaku Pengerusi Jawatankuasa Penganjur Bersama JPSM-NRE-ITTO Bengkel Capacity Building of Forestry Department Peninsular Malaysia's Staff in Identifying Aquilaria to Spesies Level and in the Grading of Agarwood kerana sudi menjemput saya untuk menyampaikan sepatah dua kata dan setrusnya akan merasmikan Bengkel *Capacity Building of Forestry Department Peninsular Malaysia's Staff in Identifying Aquilaria to Spesies Level and in the Grading of Agarwood* pada kali ini.

4. Izinkan saya juga mengambil kesempatan di sini untuk merakamkan penghargaan dan ucapan setinggi-tinggi terima kasih kepada YBhg. Datuk Haji Abdul Razak bin Haji Ali, Timbalan Presiden Persatuan Pengusaha Gaharu Bumiputera Malaysia (PENGHARUM) kerana sudi meluangkan masa untuk bersama-sama pada Majlis Perasmian ini dan akan turut juga berkongsi pelbagai pengalaman mengenai karas melalui pembentangan kertas kerja dalam bengkel ini. Semoga segala kerjasama dan penglibatan aktif dari PENGHARUM akan dapat juga membantu menyemarakkan lagi usaha-usaha JPSM untuk memantapkan aktiviti-aktiviti pengurusan dan pembangunan pokok karas di Semenanjung Malaysia, samada dalam kawasan-kawasan Hutan Simpanan Kekal dan Bukan Hutan Simpanan Kekal.

]

5. Tidak ketinggalan juga izinkan saya merakamkan ucapan setinggi-tinggi ucapan terima kasih kepada Penganjur-penganjur Bersama JPSM-NRE-ITTO, semua Pembentang kertas kerja, Para peserta Bengkel serta semua pihak yang terlibat samada secara langsung dan tidak langsung dalam memastikan kejayaan penganjuran Bengkel yang amat penting dan bermakna ini.

**Y.Bhg. Dato'-Dato', Tuan-tuan dan Puan-puan yang saya hormati sekalian.**

6. Saya amat bersukacita memaklumkan bahawa seramai 50 orang Peserta yang telah terpilih untuk mengambil bahagian dalam Bengkel pada kali ini. Peserta-peserta yang menyertai Bengkel pada kali ini adalah terdiri daripada Pegawai-pegawai Ibu Pejabat Jabatan Perhutanan Semenanjung Malaysia dan Jabatan-jabatan Perhutanan Negeri serta pakar-pakar dalam bidang gaharu dari pelbagai Agensi Kerajaan dan Swasta serta pengusaha-pengusaha gaharu yang dijemput khas. Dalam konteks ini, di antara Agensi-agensi Kerajaan yang terlibat dalam Bengkel pada kali ini adalah wakil daripada Kementerian Sumber Asli dan Alam Sekitar (NRE), Jabatan Perlindungan Hidupan Liar dan Taman Negara (PERHILITAN), Lembaga Perindustrian Kayu Malaysia (MTIB), Institut Penyelidikan Perhutanan Malaysia (FRIM), Agensi Nuklear Malaysia dan

Persatuan Pengusaha Gaharu Bumiputera Malaysia (PENGHARUM). Adalah menjadi harapan murni saya agar pelbagai maklumat dan pengalaman yang lebih luas akan dapat dikumpulkan melalui penyertaan pelbagai pihak yang saya sebutkan tadi.

7. Bagi tujuan Bengkel pada kali ini, isi kandungan utamanya adalah melibatkan sesi pembentangan sebanyak tujuh (7) kertas kerja dan satu (1) lawatan ke ladang gaharu di sekitar Kuala Lipis, Pahang. Kesemuanya ini diadakan dengan tujuan untuk meningkatkan pengetahuan, pemahaman serta berkongsi pelbagai pengalaman serta idea-idea baru yang bersangkutan dengan industri gaharu. Adalah diharapkan semoga daripada penganjuran Bengkel ini, pelbagai maklumat yang lebih terkini dan relevan dapat dikumpulkan oleh JPSM serta berupaya membantu bagi menggubal serta mewujudkan satu (1) manual penggredan kualiti gaharu yang lebih praktikal berbanding penggredan sediaada masa kini untuk digunakan bagi tujuan pengurusan, penguatkuasaan dan kutipan hasil hutan oleh JPSM dengan lebih mantap serta berkesan berbanding dengan keadaan di masa lalu.

8. Lanjutan daripada itu, bagi tujuan menzahirkan aspirasi tersebut, semua Peserta Bengkel pada kali ini menggalas satu tanggungjawab penting yang melibatkan komitmen tinggi semua Peserta Bengkel untuk menimba sebanyak-banyaknya ilmu dan maklumat dari Bengkel ini dalam membantu usaha JPSM mewujudkan kakitangan yang berpengetahuan dan terlatih khususnya dalam pengecaman spesies *Aquilaria* dan penggredan gaharu yang merupakan salah satu spesies yang tersenarai dalam *Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES)*. Adalah menjadi harapan saya juga agar kesempatan yang ada ini dimanfaatkan sepenuhnya oleh semua pihak yang terlibat secara langsung dengan industri pemprosesan gaharu. Penganjuran Bengkel ini juga sekali gus dapat menghasilkan beberapa resolusi penting dan seterusnya membantu menzahirkan usaha kita untuk menyediakan satu "Manual Penggredan Gaharu Di Semenanjung Malaysia" yang lebih praktikal dan sesuai digunakan oleh kakitangan jabatan serta semua pihak yang berkepentingan serta mereka yang terlibat dalam pengeluaran dan perdagangan gaharu.

**Y.Bhg. Dato'-Dato', Tuan-tuan dan Puan-puan yang saya hormati sekalian.**

9. Sepertimana yang kita sedia maklum, Jabatan Perhutanan Semenanjung Malaysia (JPSM) bertanggungjawab penuh mendokong misi untuk mengurus dan membangunkan sumber hutan secara berkekalan serta mengoptimumkan sumbangannya kepada pembangunan sosio-ekonomi negara. Sumber hutan yang dimaksudkan ini tidak terhad hanya kepada pengeluaran kayu-kayan

semata-mata tetapi terdapat hasil hutan lain yang mempunyai permintaan pasaran yang tinggi sama ada dari dalam dan luar negara. Dengan kata lain, Hutan Tropika kita akan terus diurus dan dibangunkan bukan untuk pengeluaran kayu-kayan semata-mata (*Forest Beyond Timbers*) tetapi lebih daripada itu. Salah satu hasil hutan tersebut ialah gaharu yang dihasilkan oleh pokok karas ataupun *Aquilaria*. Merujuk kepada sumber statistik MTIB, nilai eksport gaharu adalah sebanyak RM17.09 juta bagi tahun 2014 dengan pecahan RM15.91 juta bagi bongkah kayu dan RM1.18 juta bagi pati minyak gaharu. Nilai tambah produk gaharu juga semakin bertambah dari nilai asalnya dalam bentuk kepingan atau bongkah gaharu kepada minyak dan debu karas bagi kegunaan upacara keagamaan dan kosmetik.

10. Pokok Karas adalah dari genus *Aquilaria* yang tergolong dalam famili Thymelaeaceae. Genus *Aquilaria* terdiri daripada 28 spesies yang boleh di jumpai India, Myanmar, Indo-China, Selatan China, Thailand dan Malesia. Malaysia mempunyai 15 spesies dengan 5 spesies boleh dijumpai di Semenanjung Malaysia iaitu *Aquilaria hirta*, *Aquilaria beccariana*, *Aquilaria rostrata*, *Aquilaria microcarpa* dan *Aquilaria malaccensis* yang didapati tumbuh di kawasan tanah pamah hingga ke kawasan berketinggian 750 meter dari aras paras laut. Berdasarkan keputusan Inventori Hutan Nasional Ke-5 (NFI-5) yang dijalankan oleh JPSM pada tahun 2010-2013 menunjukkan negara kita masih kaya dengan taburan pokok *Aquilaria* spp. yang mana dianggarkan sebanyak 1.11 juta pokok dengan anggaran isipadu sebanyak 0.627 juta m<sup>3</sup>. Pada masa kini, terdapat penanaman spesies Karas secara Perladangan Komersial yang dijalankan oleh pihak swasta bagi menampung keadaan kenaikan permintaan tinggi dan berterusan kayu gaharu dari dalam dan luar negara.

11. Bersesuaian dengan Senario ini, adalah amat penting untuk JPSM untuk meningkatkan kapasiti dan keupayaan kakitangan JPSM dalam aspek pengecaman dan penggredan gaharu melalui penyediaan satu (1) manual yang seragam dalam pengecaman *Aquilaria* dan penggredan gaharu. Di samping itu, penganjuran Bengkel ini juga adalah merupakan salah satu komponen penting dalam projek *Capacity Building of Forestry Department Peninsular Malaysia's Staff in Identifying Aquilaria to Species Level and in the Grading of Agarwood* yang dibiayai di bawah program ITTO-CITES. Di bawah program ini, JPSM telah menerima peruntukan sebanyak USD39,840.00 untuk pelaksanaan projek ini dalam tempoh dua belas (12) bulan. Di samping itu, sumbangan Kerajaan Malaysia adalah dalam bentuk 'in-kind' bagi membiayai pegawai/kakitangan yang terlibat dalam projek ini. Di sini saya ingin mengucapkan ribuan terima ribuan terima kasih kepada pihak ITTO-CITES dan berharap jalinan kerjasama ini dapat diteruskan di masa akan datang. Di kesempatan ini, saya ingin mengucapkan tahniah dan syabas kepada dua (2) orang Pegawai

JPSM, dari Bahagian Perancangan Ekonomi, IP JPSM iaitu Puan Tuan Marina binti Tuan Ibrahim dan Encik Mohd Nasir bin Mohd yang telah dilantik sebagai “Pakar Kebangsaan (National Expert)” dalam bidang khusus yang berkaitan dengan karas dan gaharu bagi membantu pelaksanaan projek ini. Justeru itu, penganjuran Bengkel ini adalah amat mendesak dan bertepatan sekali dengan pelaksanaan Amalan Pengurusan Hutan Secara Berkekalan yang menekan kepada kaedah pendekatan “Hutan Bukan Untuk Pengeluaran Kayu-Kayan Semata-mata (*Forest Beyond Timbers*)”.

### **Y.Bhg. Dato’-Dato’, Tuan-tuan dan Puan-puan yang saya hormati sekalian.**

12. Izinkan saya mengambil kesempatan di sini untuk berucap sedikit dalam Bahasa Inggeris bagi dapat dimanfaatkan oleh rakan-rakan kita dari ITTO yang fasih dalam Bahasa ini.

#### ***Distinguish Ladies and Gentlemen,***

13. *The MTIB statistics for the Year 2014 has recorded that the export of Agarwood is valued at RM17.09 million, that comprises of RM15.91 million for wood block and RM1.18 million for essential Agarwood oil. Currently, the value-added of Agarwood products are at increasing trend from merely wood chip or wood block to essential oil and sawdust for religious and cosmetic purposes. Karas (Aquilaria) tree are from the family Thymeleaceae and genus Aquilaria. This genus comprises of 28 species, which commonly found in India, Myanmar, Indo-China, South of China, Thailand and Malesia. In Malaysia, there are total of 15 species of genus Aquilaria and 5 (five) of these species namely Aquilaria hirta, Aquilaria beccariana, Aquilaria rostrata, Aquilaria microcarpa and Aquilaria malaccensis are commonly available in Peninsular Malaysia. In Peninsular Malaysia, these species can be found in lowland forests, from 350 meter up to 750 meter above sea level. The Fifth National Forest Inventory (NFI) conducted by the FDPM in 2010-2013, has shown that these Aquilaria spp. are still abundance in Peninsular Malaysia forests. This NFI has reported that about 1.11 million trees still persisted in our forest with an estimated volume of 0.627 million cubic meters. In addition, it has also been reported that large numbers of Karas species plantations have also been established by the private sector to meet the high and continuous increasing demand from local and international markets.*

14. *Looking into the current demand trend and expected increasing demand projection of Karas products coupled with limited number of Karas tree experts, FDPM, therefore, has undertaken bold strategy involving initiative to strengthen its existing staffs’ knowledge in dendrology which involve identifying*

*Aquilaria* as well as more effective grading of Agarwood assisted by a practical and standardised Manual of Karas tree identification. In this endeavour, the organizing of today Workshop, is very timely and opportuned to support the implementation of the current ITTO-CITES funded project. One of the key important scope within this project is the implementation of Capacity Building for the Forestry Department Peninsular Malaysia's (FDPM) Staff, particularly crucial in Identifying *Aquilaria* to Species Level and in the Grading of Agarwood. FDPM, as the Executing Agency has been allocated sum amount of USD 39,840.00 to implement this project for a period of 12 months. In addition, The Government of Malaysia contributes in the form of in-kind contribution in funding the emoluments of FDPM officers and staffs involved in this collaborative project. In this contexts, please allow me to extend our sincere thank and gratitude to ITTO-CITES collaboration for providing us with great opportunity and sufficient fund for the effective implementation of this project. And also at this juncture, I am pleased to inform that two (2) of FDPM officers, namely Madam Tuan Marina binti Tuan Ibrahim and Mr. Mohd Nasir bin Mohd, BPE FDPM has been appointed as National Experts in the related field to assist for the effective implementation of this project.

### **Distinguished Ladies and Gentlemen,**

15. Current high demand for Agarwood (*Gaharu*) products as well as very attractive selling prices for both raw wood and processed wood in domestic and international markets have also triggered for the incidence of very rampant illegal harvesting of these woods from our natural forests. These illegal and unregulated harvesting activities have resulted in great economic lost to Malaysia in term of monetary values. The occurrence of such illegal activities has been identified as a major driver for the possible lost or extinction of *Aquilaria* trees. From the current statistics accumulated by the FDPM from Year 2000 to 2009, there have been a total of 18 cases of illegal poaching of Agarwood from Permanent Forest Reserves (PRFs) areas amounting to a total overall volume lost of 854 kilograms worth RM34 million. All these revenues lost must urgently be stopped with strong law enforcement operation both at domestic and international markets. The CITES convened in February 19, 1995 has successfully listed *Aquilaria* spp. As in Appendix II of CITES Act for which the trade of these species must be accompanied with an approval letter issued by CITES from the Country of origin which will then produces export permits by the exporting country to avoid illegal trade of Agarwood (*Gaharu*) internationally. On this score, Malaysia is also not exemption and must also subjected to the Appendix III requirement of CITES. This Appendix III expressed all Countries/ Parties who have ratified and is fully committed and obliged to compliance to the CITES requirement.

16. *FDPM is fully committed and has responded positively to the CITES requirement by formulating a specific Standard Operating Procedures (SOPs) to ensure the sustainable management and harvesting of Karas tree and effecting controls on the Gaharu trade on the supply side of the industry, issued as the Director General of Forestry Department Peninsular Malaysia Circular No. 1 year 2011. On the other frontier, the current grading system of Gaharu available in the Country need to be also improved and fine-tuned to reflect the real price in accordance to wider range of different types of Gaharu grades in varying markets. These are among some important issues dealing with Agarwood (Gaharu) in the market. It is in this context also, today workshop will further dealing with possible further refinement and standardization of Agarwood grading in tandem with current market demand. It is my humble hope that from today workshop we will be able to produce special Working Manual which will further facilitate effective collection of tax and forest revenue from Agarwood (Gaharu) trading.*

17. Permintaan dan harga pasaran yang tinggi terhadap gaharu telah menyebabkan berlakunya pengambilan gaharu secara haram sehingga memberi ancaman kepupusan kepada spesies tersebut jika tidak ditangani segera. Mengikut rekod JPSM, pada tahun 2000 hingga 2009 terdapat 18 kes pengambilan Gaharu secara haram dari Hutan Simpanan Kekal dengan rampasan 854kg dengan anggaran nilai RM34 juta. Bagi mengawal perdagangan gaharu di peringkat antarabangsa pula, spesies *Aquilaria* ini telah disenaraikan dalam Appendix II CITES mulai 16 Februari 1995 yang mana perdagangan spesies ini memerlukan kelulusan dan pengeluaran permit eksport CITES oleh negara pengeksport. Malaysia adalah salah satu negara yang telah menandatangani perjanjian tersebut dan komited untuk mematuhi sepenuhnya perjanjian ini.

18. Bagi memenuhi komitmen tersebut, JPSM telah memperkemas kawalan dan aktiviti penguatkuasaan gaharu dengan menyediakan Standard Operating Procedures (SOP) khas untuk gaharu bagi memastikan pengurusan dan pengusahailannya adalah secara berkekalan sepertimana Pekeliling Ketua Pengarah Semenanjung Malaysia Bilangan 1 Tahun 2011. Walaubagaimanapun, aspek dalam penentuan cukai dan penggredan gaharu perlu diperhalusi memandangkan gaharu mempunyai nilai pasaran yang sangat berbeza berdasarkan kepada grednya iaitu di antara RM15,000 bagi Gred C kepada RM40,000 bagi Gred A. Selain daripada itu, kutipan cukai gaharu adalah perlu bersesuaian dengan nilai pasarnya bagi memastikan hasil yang dikutip adalah berpatutan dan menjana pendapatan Kerajaan Negeri. Bengkel yang diadakan adalah amat bertepatan sekali dengan matlamat ini di mana perbincangan di antara pengumpul, pengusaha dan pengeksport gaharu



bersama-sama dengan pegawai-pegawai Jabatan dalam menetapkan dan menyeragamkan gred gaharu yang lebih praktikal. Oleh yang demikian, adalah diharap dengan pewujudan manual penggredan gaharu akan dapat membantu JPMSM dan kerajaan negeri dalam meningkatkan kecekapan dalam pengutipan cukai dan seterusnya secara tidak langsung meningkatkan integriti dan imej jabatan.

**Y.Bhg. Dato'-Dato', Tuan-tuan dan Puan-puan yang saya hormati sekalian.**

19. Sebelum mengakhiri ucapan saya ini, izinkan saya sekali lagi merakamkan ucapan setinggi-tinggi terima kasih kepada YBhg. Dato' Pengarah Perhutanan Negeri Pahang kerana kesudian menjadi tuan rumah kepada bengkel ini. Terima kasih sekali lagi kepada Bahagian Silvikultur dan Pemeliharaan Biologi Hutan, IPJPSM dan urusetia yang terlibat secara langsung dan tidak langsung dalam menjayakan bengkel ini. Tahniah dan syabas kepada penceramah-penceramah yang akan berkampung selama tiga (3) hari bagi mencurahkan segala ilmu dan pengalaman yang ada. Ucapan terima kasih sekali lagi kepada dif-dif jemputan di atas kesudian Dato'-Dato', tuan-tuan dan puan-puan hadir ke Majlis Perasmian ini. Kepada para peserta bengkel diucapkan selamat berbengkel dan semoga bengkel ini akan berlangsung dengan jayanya.

20. Dengan lafaz suci "Bismillahir-rahman-nirrahim (Dengan Nama Allah Yang Maha Pemurah Lagi Maha Penyayang)", saya dengan ini merasmikan **BENKEL CAPACITY BUILDING OF FORESTRY DEPARTMENT PENINSULAR MALAYSIA'S STAFF IN IDENTIFYING AQUILARIA TO SPESIES LEVEL AND IN THE GRADING OF AGARWOOD.**

**Selamat Bersidang!**

Sekian, terima kasih.

**Wabillahi-taufik walhidayah.  
Wassallamualaikum WBT.**

## ANNEX 4 : List of Presenters



**Mr. Mohamed Zin bin Yusop**

Forestry Department Peninsular Malaysia  
Headquarters (FDPM HQ)

*Capacity Building of Forestry Department Peninsular Malaysia's Staff in Identifying Aquilaria to Species Level and in the Grading of Agarwood*



**Mr. Samsu Anuar bin Nawi**

Forestry Department Peninsular Malaysia  
Headquarters (FDPM HQ)

Laporan Stok dan Taburan Spesies *Aquilaria* di Semenanjung Malaysia Mengikut Laporan Inventori Hutan Nasional Ke-Lima



**Mr. Almizi bin Ibrahim**

Malaysian Timber Industrial Board (MTIB)

Prosedur Perolehan Permit CITES bagi Import dan Eksport Kayu dan Produk Berasaskan Gaharu



**Mr. Mohd. Nasir bin Mohamed**

State Forestry Department of Pahang (SFD of Pahang)

Pengenalan dan Asas Pengecaman Spesies *Aquilaria*



**YBhg. Datuk Haji Abdul Razak bin Haji Ali**

Biobenua Teknologi Sdn. Bhd.

Potensi Inokulan dalam Penghasilan Gaharu



**Tuan Haji Abdul Wahab bin Dollah**

Owner of *Aquilaria* plantation

Prospek dan Cabaran dalam Penubuhan dan Pengurusan Ladang Gaharu



**Mr. Rosli bin Awang**

RNZ Agarwood

Pemprosesan dan Pemasaran Minyak Gaharu

## ANNEX 5 : Abstract / Slide Presentation of Paper Presented

**Paper 1:** *Capacity Building of Forestry Department Peninsular Malaysia's Staff in Identifying Aquilaria to Species Level and in the Grading of Agarwood*

Mr. Mohamed Zin bin Yusop, Forestry Department Peninsular Malaysia Headquarters, presented an overview of the ITTO-CITES 2014/2015 Malaysia's Work Programme. He highlighted the background and objective of the programme and emphasis that the project have very good impact to the countries, not only in terms of economic, but also in strengthening the capacity for managing the species. His presentation is attached as in **Compact Disk (CD)**.

**Paper 2:** **Laporan Stok dan Taburan Spesies *Aquilaria* di Semenanjung Malaysia Mengikuti Laporan Inventori Hutan Nasional Ke-Lima**

Mr. Samsu Anuar bin Nawi, Forestry Department Peninsular Malaysia Headquarters, presented the report of stocking and distribution of *Aquilaria* species in Peninsular Malaysia based on the Fifth National Forest Inventory. He also share the information on biological features of wild populations of *Aquilaria malaccensis* in Peninsular Malaysia and the current status of *Aquilaria* plantation in Malaysia. He ends his presentation with a few recommendations. His presentation is attached as in **Compact Disk (CD)**.

**Paper 3:** **Prosedur Perolehan Permit CITES bagi Import dan Eksport Kayu dan Produk Berasaskan Gaharu**

Mr. Almizi bin Ibrahim, Malaysian Timber Industrial Board (MTIB), presented the requirement of appropriate permits and licenses for all imports, exports and re-exports of CITES-listed timber species. He also share the latest decision made at the 16<sup>th</sup> Conference of Parties (CoP) in Bangkok, March 2013. He conclude his presentation with issues and challenges faced by MTIB in handling of CITES-listed timber species in Malaysia. His presentation is attached as in **Compact Disk (CD)**.

**Paper 4: Pengenalan dan Asas Pengecaman Spesies Aquilaria**

Mr. Mohd. Nasir bin Mohamed, State Forestry Department of Pahang, presented the basic key to identification of *Aquilaria* species in the wild. He explained the identification keys are used to identify specimens. His presentation is attached as in **Compact Disk (CD)**.

**Paper 5: Potensi Inokulan dalam Penghasilan Gaharu**

YBhg. Datuk Haji Abdul Razak bin Haji Ali, Biobenua Teknologi Sdn. Bhd., presented on how the formation of Agarwood occurs. He also mentioned on various techniques and methods in artificial inoculate tested by many parties in order to produce Agarwood. His presentation is attached as in **Compact Disk (CD)**.

**Paper 6: Prospek dan Cabaran dalam Penubuhan dan Pengurusan Ladang Gaharu**

Tuan Haji Abdul Wahab bin Dollah, Owner of *Aquilaria* plantation and one of the renowned player in this industry. He previously involved in the research conducted by the Malaysian Nuclear Agency. He verbally presented on the prospect of *Aquilaria* plantation establishment and its challenges.

**Paper 7: Pemprosesan dan Pemasaran Minyak Gaharu**

Mr. Rosli bin Awang, RNZ Agarwood, presented on extraction method for isolating Agarwood essential. He also share the market prospect on this product. His presentation is attached as in **Compact Disk (CD)**.



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