Survey Instrument and Related Documents for CBioD Household Survey

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Contents

1. Tender Invitation Letter and Terms of Reference for Household Survey 1
2. Survey Instrument 5
3. Show Cards for Survey Instrument 21
4. Key to Species Affected by Logging and Poaching 31
5. Experimental Design Attribute Assignment Levels for Module 1 32
6. Experimental Design Attribute Assignment Levels for Module 3 40
7. Survey Introduction Letter 46

1. Tender Invitation Letter and Terms of Reference for Household Survey

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Dear Sir/Madam,

INVITATION TO TENDER FOR A HOUSEHOLD SURVEY IN SELANGOR AND WILAYAH PERSEKUTUAN KUALA LUMPUR

The Forest Research Institute Malaysia (FRIM), under a Global Environment Facility (GEF) project titled "Conserving Biodiversity through Improved Forest Planning Tools," is inviting proposals from survey research firms and other parties interested in implementing a household survey in Selangor and Wilayah Persekutuan Kuala Lumpur. The survey is being conducted in cooperation with the Forestry Department Peninsular Malaysia and in collaboration with foreign experts from the University of California and Duke University.

This solicitation contains:

1. a description of the survey (part 1)
2. a description of the information that proposals should include (part 2)
3. additional details on submission and selection procedures (part 3).

Proposals should be submitted electronically to FRIM by March 31, 2008. They should be submitted to:

Dr. Woon Weng Chuen
Project Manager
woonwc-cbiod@hotmail.com

or

Ms Daphine Tan
Administration Officer
daphine_undpbiod@frim.gov.my

Any questions about the information in this solicitation should be submitted via e-mail to Dr. Woon Weng Chuen (Project Manager), at woonwc-cbiod@hotmail.com or 03-6279 7538 or Ms Daphine Tan (Adminstration Officer), at daphine_undpbiod@frim.gov.my

Thank you.

Yours sincerely,

DR. SHAMSUDIN IBRAHIM
NATIONAL PROJECT DIRECTOR

cc. Dr. Woon Weng Chuen (Project Manager)
Prof. Jeffery Vincent (International Expert)

UNITED NATIONS DEVELOPMENT PROGRAMME UNDP/GEF MAL/04/G31 NRE-FRIM

Part 1: Survey description

Overview: The objective of the survey is to collect data on household demand for outdoor recreation and forest conservation from urban, suburban, and rural households in Selangor and Wilayah Persekutuan Kuala Lumpur. The sample will include households that vary widely in terms of income, occupations, education, ethnicity, and other socio-economic characteristics.

Schedule: The survey is tentatively scheduled to begin on July 1, 2009. It should be completed in no more than 3 months (i.e., by September 30, 2009). Bidders should propose the number of weeks required for the survey as part of their proposal (see part 2).

Survey instrument (questionnaire): The survey instrument will be developed by FRIM, in consultation with the winning bidder. In addition to demographic and socio-economic questions, it will include modules related to a respondent's recent outdoor recreation choices, preferences across hypothetical alternative forest management options, and willingness to pay for the creation of a hypothetical new park in the country. The survey instrument will be approximately 20-30 pages long and will be in two versions, English and Bahasa Malaysia. The winning bidder will be responsible for translating the survey instrument from English to Bahasa Malaysia. Printing of the survey will be done by FRIM, not the winning bidder.

Sample size and locations: The sample size is expected to be 1200 households. Twelve locations, each with an equal number of households (i.e., 100), will be surveyed. The locations will be divided evenly among 4 urban, 4 suburban, and 4 rural areas. Specific locations have not yet been determined, but the urban locations will be within Kuala Lumpur, the suburban locations will be in the Klang Valley (e.g., Petaling Jaya, Subang Jaya, Shah Alam), and the rural locations will be smaller towns and villages within a 1-hour drive of Kuala Lumpur. The locations will be selected randomly from a larger set of potential locations. For example, each section of Petaling Jaya (or a group of adjacent sections) could be considered a distinct potential suburban location. The winning bidder will work with FRIM in determining selection procedures for the locations.

Household selection and interviews: Households will be selected randomly at each location, with sample frames based on aggregated enumeration blocks obtained from the Department of Statistics. The winning bidder will be responsible for obtaining the aggregated enumeration blocks and will work with FRIM in designing the sample frames and determining household selection procedures. Interviews will be in-person and will last approximately 35 minutes. The household head or spouse will be interviewed. Households will be contacted via postcard in advance of survey. The postcard will: (i) briefly state the purpose of the survey and the length of the interview, (ii) indicate the possible dates and times when an enumerator will arrive at the respondent's residence to conduct the interview, and (iii) provide contact details for additional information about the survey (telephone, e-mail, website). If a household refuses to participate, then the enumerator will request basic demographic information necessary for making sample corrections (e.g., age, gender, race). Households that complete the survey will receive a small gift, which will be provided by FRIM.

Focus groups: Five focus groups of 3-5 adults each will be conducted, with at least 2 focus groups taking place in rural areas and 2 in urban/suburban areas. One focus group could occur as soon as June-August 2008; the others will be later in 2008. The winning bidder will be responsible for recruiting focus group participants, arranging meeting places, facilitating the discussions, recording the discussions on cassette tap or other media, and providing a written summary (not a transcript) of key findings from the discussions. Discussion questions will be developed by FRIM, in consultation with the winning bidder.

Pre-testing: The survey instrument will be pre-tested to determine whether respondents comprehend the questions and whether there is sufficient variation in their responses. Pre-testing will be done in six locations (2 urban, 2 suburban, 2 rural), with 25 households sampled at each location. These 150

households will be in addition to the 1200 included in the survey itself. The winning bidder will be responsible for conducting the pre-testing, including the selection of households.

Fieldwork: The winning bidder will be responsible for recruiting, training, transporting, and supervising all personnel required for the survey. Given that all sampled households will be within a 1-hour drive of Wilayah Persekutuan Kuala Lumpur, funds will not be provided for overnight lodging unless a compelling case is made that overnight lodging will reduce the total cost of the survey.

Data entry: The winning bidder must deliver to FRIM an electronic database containing cleaned data from the survey within 1 month of the completion of the survey. FRIM will provide a codebook containing variable names and preliminary value ranges for each variable. The contractor will use this information to design the survey database. Completed surveys are considered the property of FRIM and must be delivered to it at the same time as the electronic database.

2. Information to be included in proposal

A bidder's proposal for the survey should contain the following information, in the indicated order:

1. Name, address, and contact information.
2. Name(s) of key personnel.
3. Training or experience of key personnel related to environmental economics or nonmarket valuation studies.
4. Experience with similar surveys, and contact information for clients of those surveys.
5. Interactions, if any, with the Department of Statistics in previous surveys.
6. Proposed schedule of deadlines leading up to the start of the survey (assume July 1, 2009). Deadlines should include, among others, selection and training of supervisors and enumerators, design of survey instrument, focus groups, and pre-testing.
7. Proposed number of weeks for the survey. Note: should not exceed 12 weeks.
8. Estimated percentage of households that will refuse to be interviewed.
9. Call-back procedure: if neither the head nor spouse is available when an enumerator arrives at a sampled household, how many times would you recommend returning to the household before substituting another household for it?
10. Proposed number of supervisors and enumerators.
11. Criteria and procedures for recruiting, selecting, and training supervisors and enumerators.
12. Field supervision protocols. An important goal of field supervision is to reduce the risk of enumerators falsely completing surveys when they have either not finished an interview or not conducted it all. What steps will you take to reduce and to monitor this risk while the survey is underway?
13. Quality control protocols for data entry.
14. Software options for data storage.
15. Key risks associated with the survey and proposed means of managing them, aside from any discussed above.
16. A budget that itemizes the estimated cost of the survey. Major items should include: salaries and wages (survey leader, supervisors, enumerators); transportation; meals for field crews; costs associated with sample frame; materials and supplies; insurance; overhead and contingencies. Insofar as possible, costs of focus groups, pre-testing, and the survey itself should be broken out separately.

17. Proposed payment schedule.
18. If funding permits, FRIM will add 3 more locations of 100 households each to the survey (1 urban, 1 surburban, and 1 rural). How much would the addition of these 3 locations and their 300 (total) households increase the total cost of the survey?
19. Appendix: resume(s) of company profile and key personnel.

3. Submission of proposal and selection of winning bidder

Proposals should be submitted electronically to FRIM by March 31, 2008. They should be submitted to:

Dr. Woon Weng Chuen
Project Manager
woonwc-cbiod@hotmail.com

or

Ms Daphine Tan
Administration Officer
daphine_undpbiod@frim.gov.my

FRIM intends to interview a short list of bidders during the week of April 28-May 2, 2008 and the winning bidder will be announced in due course. Selection of the winner will be based consideration of all aspects of the proposal, not only cost.

2. Survey Instrument

Survey for Valuing Forest Recreation and Biodiversity

We are surveying people about how they think the government should manage forests in Semenanjung Malaysia. The survey is conducted by the Forest Research Institute Malaysia (FRIM). Findings from the survey might affect how forests in Malaysia are actually managed, as FRIM will share the findings with the Forestry Department Peninsular Malaysia and other government agencies.

We expect that the survey will take approximately 30 minutes to complete. You will receive a small gift if you participate in it, and your identity will not be disclosed to any organization that receives information on the survey results. Would you like to participate?

Household ID: _____

Version of Module 1: _____

Version of Module 3: _____

Respondent name: _____

House address: _____

Today's date: _____

Starting time: _____

Finishing time: _____

Interviewer name: _____

Module 1
Managing Belum-Temenggor Forest Complex

I will start by telling you about an important forest here in Malaysia that you may never have heard of. I will show you a series of pictures as I describe it to you.

Here is the first picture.

1 Semenanjung Malaysia map

It is a map of Semenanjung Malaysia. KL is here.

ENUMERATOR- POINT TO THE COUNTRY-LEVEL LOCATION MAP.

Many people do not know that the state of Perak contains a large tropical forest. It is called the Belum-Temenggor forest.

ENUMERATOR- POINT TO LOCATION OF PERAK.

Here is a more detailed map of the Belum-Temenggor forest.

2 Belum-Temenggor forest map

The forest is large. At over 300,000 hectares, it is four times the size of Singapore.

ENUMERATOR- POINT TO THE FORESTED AREA ON THE MAP AND REMIND THE RESPONDENT THE SITE IS IN THE STATE OF PERAK AND WHERE KL IS.

I am going to tell you more about this forest. Then I am going to ask you how you think it should be managed. But first, I would like to ask you two questions.

Have you ever visited Perak, or do you have any friends or relatives who live in Perak?

- ☐ 1 Yes
- ☐ 2 No

Had you ever heard of the Belum-Temengor forest before now?

- ☐ 1 Yes
- ☐ 2 No

Thank you. Here are some pictures of the forest.

3&4 Forest photos

The forest is mountainous and contains many tall trees. Currently most of the forest is a virgin rainforest. This means that it has never been logged.

Here are some of the animals that live in the forest.

5 Animal photos

The forest also contains many other kinds of animals, and many kinds of plants. Some of the plants and animals are found nowhere else on earth.

6&7 Water photos

The forest helps to capture and store rainfall. Water coming from a virgin forest is naturally cleaner than water coming from an area that has been logged. In the future, the Belum-Temenggor forest could help provide clean water to parts of the country that experience water shortages.

Are you ready to go on?

8 Logging photo

The timber industry would like to log this forest. Logging would create jobs for local families. It would also generate money for the Perak state government, which charges logging companies for permits to cut the trees. In these ways, logging provides economic benefits for the state of Perak.

Logging also has harmful effects on the environment, however.

9&10 Siltation and flooding photos

Logging increases soil erosion. Some of this soil winds up in rivers and reservoirs, which reduces water quality. Large-scale logging could also increase the number of floods in Perak.

Logging also harms some animals in the forest. Here is a picture of a large rainforest tree.

11 Photo of large tree

The way logging is done now, only large trees like this are cut. The smaller trees are left alive to grow and be harvested later. However, without the large trees, several types of animals and plants in the Belum-Temenggor forest would die. Here are some of the animals that would disappear from the forest.

12 Picture of animals affected by logging

Most of these are smaller animals.

I would like to ask you a question before telling you more about the Belum-Temenggor forest.

How important do you think the timber industry is to Malaysia's overall economy?

☐1 Very important ☐3 Somewhat important

☐2 Important ☐4 Not important

Thank you. I will now tell you about another important threat facing the animals in this forest, which is illegal hunting by poachers.

13 Poaching photos

The photo on the left shows a young elephant that was injured by a poacher's trap. The one on the right shows pangolins and other animals killed by poachers who were caught by the authorities.

Here is a picture of the main types of animals illegally hunted by poachers.

14 Picture of animals affected by poaching

Many of these are larger mammals. Are you ready to go on?

The Belum-Temenggor forest is currently not well protected from logging and poaching. Here is what is likely to happen over the next 20 years if no effort is made to protect the forest from logging and poaching.

15 Status quo: no protection

ENUMERATOR-READ THIS GRAPHIC

In order for the federal government to protect the forest against logging and poaching, it must raise money to cover costs of protection.

16 Logging photo (same as card 8)

It can protect the forest against logging by prohibiting logging. Then, it would need to pay the state government of Perak for the revenue the state government no longer gets from logging. The larger the area protected against logging, the larger this payment would need to be.

17 Photo of wardens

To protect the forest against poaching, the federal government would need to hire wardens to patrol the forest. The larger the area protected from poaching, the more wardens the government would need to hire. Hiring local people as wardens would create jobs in the state.

The government must decide how much of the forest to protect from logging and poaching and how to raise the money needed for protection. One way to raise the money would be to charge households and businesses more for the water they consume.

18 Photo of water (same as card 6)

Under this system, you and other households in Malaysia would pay an extra amount each month for the foreseeable future. The extra amount would be spent to protect the forests. A special committee that would include members of the public and non-profit environmental groups would be created to ensure that the government actually spends this money on forest protection.

At this point, I would like to ask you another question.

Do you think the Government of Malaysia should place higher priority on economic development or protecting the environment?

☐$_1$ Economic development

☐$_2$ Protecting the environment

Because the government's decision could affect your monthly water bill, we want to understand which forest policies you would be willing to support. To find this out, I am going to show you a pair of policies that the government could potentially implement. For each policy, I will tell you:

- how much logging would occur, and how many species would disappear because of it
- how much poaching would occur, and how many species would disappear because of it
- how many floods would occur in Perak each year,
- how many jobs would be created for people in Perak, in logging, wood processing, forest management, and tourism combined
- how much your monthly water bill would increase.

Remember, here is what is likely to happen over the next 20 years if no effort is made to protect the forest from logging and poaching.

19 Status quo: no protection (same as card 15)

Are you ready to continue?

Good. Here is the first pair of policies, policy A and policy B.

Show policies A and B

ENUMERATOR- PLEASE READ THE GRAPHICS FOR POLICIES A AND B.

Now I am going ask you which of these policies you'd want the government to implement.

Carefully consider how much extra money you can actually afford to pay each month and where that money would come from given the other expenses in your household budget. Assume that if your household pays, then all households in Malaysia would pay something too.

You should choose neither policy if you feel that both policies cost too much for what would be done. If you choose neither policy, then remember that none of the forest will be protected from either logging or poaching.

It is in your best interest to be truthful. The policy that you support is more likely to be implemented if you say that you support it.

Do you prefer policy A or policy B, or do you choose neither policy? _____

ENUMERATOR-IF THE RESPONDENT CHOOSES NEITHER POLICY, THEN ASK THE FOLLOWING QUESTION.

May I ask why you preferred neither option?

ENUMERATOR –DO NOT READ THESE OPTIONS. INSTEAD, CHECK ALL THE BOXES THAT MATCH THE REASONS GIVEN BY THE RESPONDENT.

- ☐ 1 Cost too much for what they provide
- ☐ 2 Cannot afford them
- ☐ 3 Policies would not be implemented or be effective
- ☐ 4 Other _____

Replace policies A and B with policies C and D

ENUMERATOR-DO NOT READ THESE POLICIES. ANSWER QUESTIONS IF THEY ARISE.

Here is another set of choices. Please treat it as separate from the choice you just made.

Take your time and look over the choices. They protect the forest and animals differently. They create different numbers of jobs. And they have different costs.

Do you prefer policy C or policy D, or do you choose neither policy? _____

ENUMERATOR-IF THE RESPONDENT CHOOSES NEITHER POLICY, THEN ASK THE FOLLOWING QUESTION.

May I ask why you preferred neither option?

ENUMERATOR – DO NOT READ THESE OPTIONS. INSTEAD, CHECK ALL THE BOXES THAT MATCH THE REASONS GIVEN BY THE RESPONDENT.

☐$_1$ Cost too much for what they provide

☐$_2$ Cannot afford them

☐$_3$ Policies would not be implemented or be effective

☐$_4$ Other _____

Replace policies C and D with policies E and F

ENUMERATOR-DO NOT READ THESE POLICIES. ANSWER QUESTIONS IF THEY ARISE.

Here is another set of choices. Again, please treat it as separate from the previous choices, and please take time to think carefully.

Do you prefer policy E or policy F, or do you choose neither policy? _____

ENUMERATOR-IF THE RESPONDENT CHOOSES NEITHER POLICY, THEN ASK THE FOLLOWING QUESTION.

May I ask why you preferred neither option?

ENUMERATOR –DO NOT READ THESE OPTIONS. INSTEAD, CHECK ALL THE BOXES THAT MATCH THE REASONS GIVEN BY THE RESPONDENT.

☐$_1$ Cost too much for what they provide

☐$_2$ Cannot afford them

☐$_3$ Policies would not be implemented or be effective

☐$_4$ Other _____

Replace policies E and F with policies G and H

ENUMERATOR-DO NOT READ THESE POLICIES. ANSWER QUESTIONS IF THEY ARISE.

Here is your last set of choices. Again, please treat it as separate from the previous choices, and please take time to think carefully.

Do you prefer policy G or policy H, or do you choose neither policy? _____

ENUMERATOR-IF THE RESPONDENT CHOOSES NEITHER POLICY, THEN ASK THE FOLLOWING QUESTION.

May I ask why you preferred neither option?

ENUMERATOR –DO NOT READ THESE OPTIONS. INSTEAD, CHECK ALL THE BOXES THAT MATCH THE REASONS GIVEN BY THE RESPONDENT.

☐$_1$ Cost too much for what they provide

☐$_2$ Cannot afford them

☐$_3$ Policies would not be implemented or be effective

☐$_4$ Other _____

Module 2
Recreational Activities and Trips

Next I'd like to ask you which **NATURAL PLACES** you have visited in the last twelve months.

Natural places are places like Templer Park, FRIM, Taman Negara, Pulau Tioman, or Krau Wildlife Reserve, where people go to enjoy nature.

Because it is often hard to remember, let me show you a list of places. Please exclude trips for which the primary purpose was to visit family.

If we have not included places that you visited in the last twelve months please let me know.

Which Location/Area/Site	**Did you visit IN LAST 12 MONTHS?** **If so, how many times did you visit in last 12 months?**	**On your last trip did you stay overnight?** **If so, how many nights did you stay?**	**On your last trip, which mode of transportation did you take?** 1 = Private car 2 = Mini van 3 = Motor bike 4 = Others	**On your last trip, how many people directly or indirectly shared the cost of transportation, including yourself?**
Selangor & Kuala Lumpur				
Templer Park				
Hutan Lipur Kanching				
Bukit Gasing				
FRIM				
Klang Gate / Bukit Melawati				
Sungai Chongkak				
Sungai Tekala				
Sungai Tua				
Kuala Selangor Nature Park				
Commonwealth Forest Park				
Selangor Heritage Park				
Bukit Nanas				
Others				
Pahang				
Cameron Highlands				
Fraser's Hill				
Taman Negara Pahang				
Gunung Tahan				
Sungai Lembing				
National Elephant Conservation Centre				
Pulau Tioman				
Gua Charah				
Gunung Tapis Nature Park				
Kenong Rimba				
Gua Kota Gelanggi				
Others				
Johor				
Endau-Rompin				
Tanjung Piai				
Pulau Kukup National Park				
Gunung Ledang National Park				
Gunung Arong				
Gunung Belumut				
Gunung Lambak				
Gunung Panti				
Gunung Pulai				
Sungai Lebam				
Sungai Sedili Besar and Kecil				
Others				

Which Location/Area/Site	**Did you visit IN LAST 12 MONTHS?** **If so, how many times did you visit in last 12 months?**	**On your last trip did you stay overnight?** **If so, how many nights did you stay?**	**On your last trip, which mode of transportation did you take?** 1 = Private car 2 = Mini van 3 = Motor bike 4 = Others	**On your last trip, how many people directly or indirectly shared the cost of transportation, including yourself?**
Melaka				
Air Keroh Recreational Forest				
Tanjung Tuan				
Others				
Negeri Sembilan				
Ulu Bendul Recreational Forest				
Port Dickson				
Others				
Penang				
Ayer Itam Dam				
Penang National Park				
Others				
Perak				
Pulau Pangkor				
Gua Tempurung				
Kuala Gula Bird Sanctuary				
Belum-Temengor-Banding				
Lata Kinjang Waterfall				
Ulu Geroh				
Others				
Perlis				
Perlis State Park				
Gua Kelam / Kaki Bukit				
Hutan Lipur Bukit Air/Kubu				
Others				
Kedah				
Gunung Jerai				
Pulau Payar				
Langkawi				
Others				
Terengganu				
Tasik Kenyir				
Pulau Redang/Perhentian				
Others				
Kelantan				
Jelawang Waterfall (Gunung Stong)				
Others				

Module 3
Valuing Services & Amenities at a New Forested Park

How much you enjoy a forested park can depend upon the services at the park. Park services include things like well-maintained trails, picnic facilities, water and toilets and other amenities.

The government needs information on what services are important to you.

I want you to think about the possibility that the government will open a new forested park. A small river would flow through the park. The government must decide which services and amenities to provide at this park.

Assume that this park will be located within a 2-hour drive of your home so you could visit it and return home within a single day.

The new park might offer many different kinds of services and amenities.

On the next page we are going to show you different plans (A and B) for the new park. Both plans will include a well-lit and secure parking lot.

The costs of these plans differ because they provide different levels of services. To cover costs, entrance fees will be charged for each adult. Parking is free with admission.

We want to know which plan you would most prefer and be willing to pay for.

You are free to choose none of the two plans if neither seems not worth the cost for what you get.

Between Plan A and B, which plan do you most prefer? _____

Would you say that you are :

- ☐ 1 very likely to visit this park if it is built
- ☐ 2 somewhat likely
- ☐ 3 not very likely
- ☐ 4 would not visit this park

If you chose neither plan, why?

ENUMERATOR –DO NOT READ THESE OPTIONS. INSTEAD, CHECK ALL THE BOXES THAT MATCH THE REASONS GIVEN BY THE RESPONDENT.

- ☐ 1 Cost too much
- ☐ 2 Neither option had the services I wanted
- ☐ 3 I do not visit parks
- ☐ 4 Other _____

Here is your last set of choices.

Between Plan C and D, which plan do you most prefer? _____

Would you say that you are :

☐1 very likely to visit this park if it is built
☐2 somewhat likely
☐3 not very likely
☐4 would not visit this park

If you chose neither plan, why?

ENUMERATOR –DO NOT READ THESE OPTIONS. INSTEAD, CHECK ALL THE BOXES THAT MATCH THE REASONS GIVEN BY THE RESPONDENT.

☐1 Cost too much
☐2 Neither option had the services I wanted
☐3 I do not visit parks
☐4 Other _____

Module 4
Background of Respondent

May I know your age? _____ years

What was the ethnicity of the respondent? (Ask if not obvious)

- ☐1 Malay
- ☐2 Chinese
- ☐3 Indian
- ☐4 Other _____

What is your highest level of education?

- ☐1 No formal education
- ☐2 Completed primary education
- ☐3 Completed junior high school/ Form 3
- ☐4 Completed senior high school/ Form 5
- ☐5 Certificate holder/Form 6
- ☐6 Diploma
- ☐7 Bachelor's degree
- ☐8 Masters or other graduate degree

How many people live in your household by age group? Fill in exact numbers, and please include yourself.

_____ Children (less than 18 years)

_____ Adults (18 years and above)

What is your household's total **monthly income including everyone**?

- ☐1 No income
- ☐2 RM 1 – RM 1,500
- ☐3 RM 1,501 – RM 3,000
- ☐4 RM 3,001 – RM 5,000
- ☐5 RM 5,001 – RM 7,500
- ☐6 RM 7,501 – RM 10,000
- ☐7 RM 10,001 – RM 13,000
- ☐8 RM 13,001 – RM 16,000
- ☐9 RM 16,000 – RM 20,000
- ☐10 Above RM 20,000

Which of the following best describes your current job?

- ☐1 Management
- ☐2 Large business owner
- ☐3 Small business owner
- ☐4 Specialist /Professional
- ☐5 Clerical/Retail sales
- ☐6 Factory worker
- ☐7 Farmer/Agricultural worker
- ☐8 Other job (please specify) _____
- ☐9 Don't work (pensioner, student, housewife etc.)
- ☐10 Unemployed

Which of the following best describes the type of location where you lived when you were a child:

- ☐ 1 A rural area, such as a farm or kampung
- ☐ 2 A small town
- ☐ 3 A city or a suburb of a city

Do you consider yourself to be an environmentalist?

- ☐ 1 Yes, strongly
- ☐ 2 Yes, somewhat
- ☐ 3 No
- ☐ 4 Not sure

Did you make any recreational trips by air outside of Semenanjung Malaysia during the past year?

- ☐ 1 Yes
- ☐ 2 No

Consider the following statement:

"The government generally spends money efficiently and in ways that benefit the public."

- ☐ 1 Strongly agree
- ☐ 2 Somewhat agree
- ☐ 3 Somewhat disagree
- ☐ 4 Strongly disagree
- ☐ 5 Not sure

The government has many responsibilities, and all of them require money. With regard to environmental protection, do you think the government is currently spending too much money, too little money, or about the right amount of money?

- ☐ 1 Too much money
- ☐ 2 Too little money
- ☐ 3 About the right amount of money

Questions for the enumerator only

Gender of the respondent:

- ☐ 1 Male
- ☐ 2 Female

In which language was the survey instrument written?

- ☐ 1 English
- ☐ 2 Mandarin
- ☐ 3 Malay
- ☐ 4 Tamil

In which language was the interview given? (Check all that apply)

- ☐ 1 English
- ☐ 2 Mandarin
- ☐ 3 Malay
- ☐ 4 Tamil
- ☐ 5 Other _____

How attentive and engaged was the respondent?

- ☐ 1 Not very attentive
- ☐ 2 Somewhat attentive
- ☐ 3 Very attentive

3. Show Cards for Survey Instrument

Semenanjung Malaysia Map

Source: WWF Malaysia

1

Belum–Temenggor Forest Map

Source:
1.) Novista Sdn Bhd
2.) WWF Malaysia

2

Forest
3
Source: Novista Sdn Bhd

Forest
4
Source: Novista Sdn Bhd

Animals

5

Water

Source:
1.) Belum: A Rainforest in Malaysia
2.) www.belumresort.com

6

Water Shortage

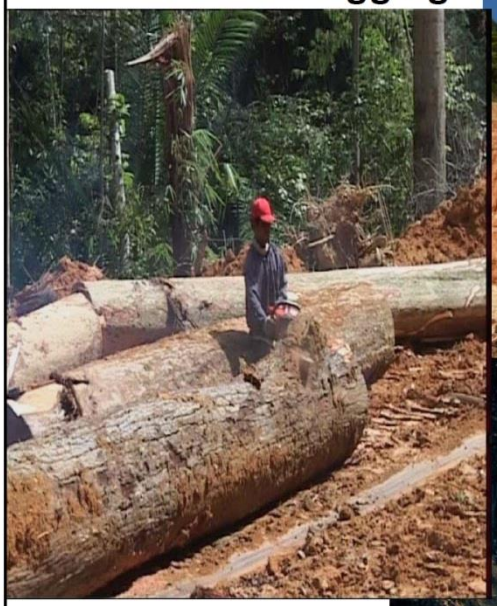
Drought – Dam Water Level

Water truck distributing water

Source:
1.) www.sinchew-i.com
2.) images.search.yahoo.com

7

Logging



Logs at a log yard
sanjittpal/MNS/06

Logging Road
ginnyng/UNDP/07

8

Siltation

Source: Novista Sdn Bhd

9

Flooding

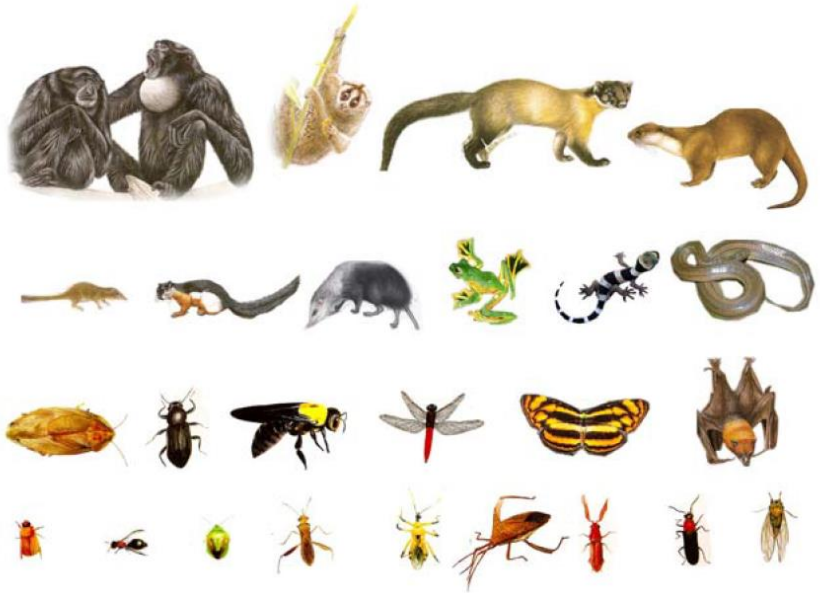
Source: www.sinchew-i.com

10

Source: Novista Sdn Bhd

11

Animals Affected by Logging



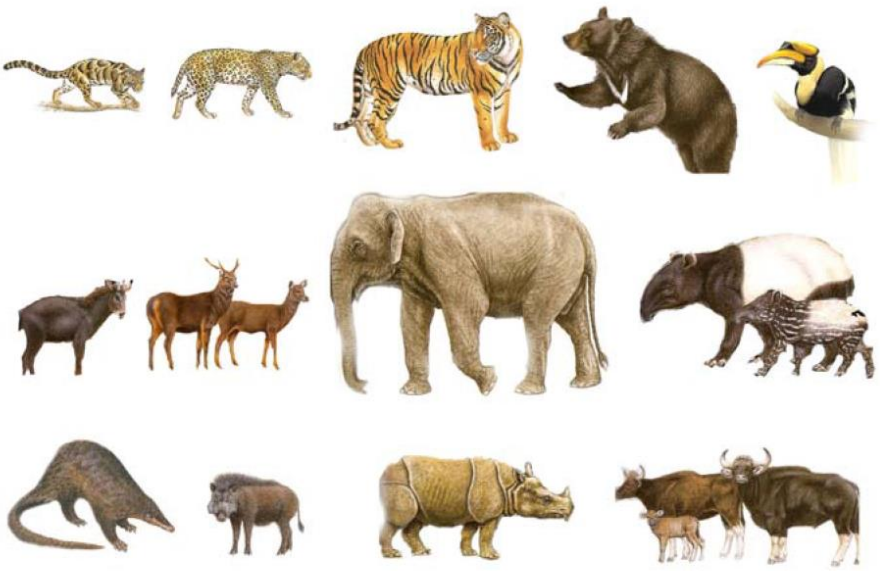
12

Poaching

Source: www.stnchew-i.com

13

Animals Affected by Poaching



14

If the Government Protects Nothing

	No protection
Logging	In all the forest (0 ha protected)
	All these species go extinct (none survive)
Poaching	In all the forest (0 ha protected)
	All these species go extinct (none survive)
Floods in Perak	4-6 times a year
Jobs created in Perak	7,500
Cost to you	No new cost

15

Logging

Logs at a log yard
sanjitpal/MNS/06

Logging Road
ginnvng/UNDP/07

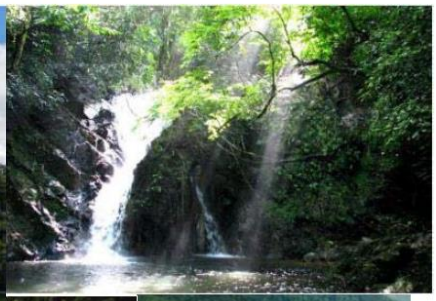
16

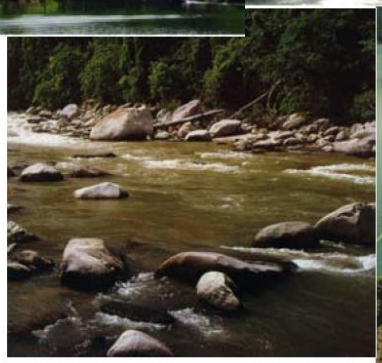
Warden

Source: www.sinchew-i.com

17

Water





Source:
1.) Belum: A Rainforest in Malaysia
2.) www.belumresort.com

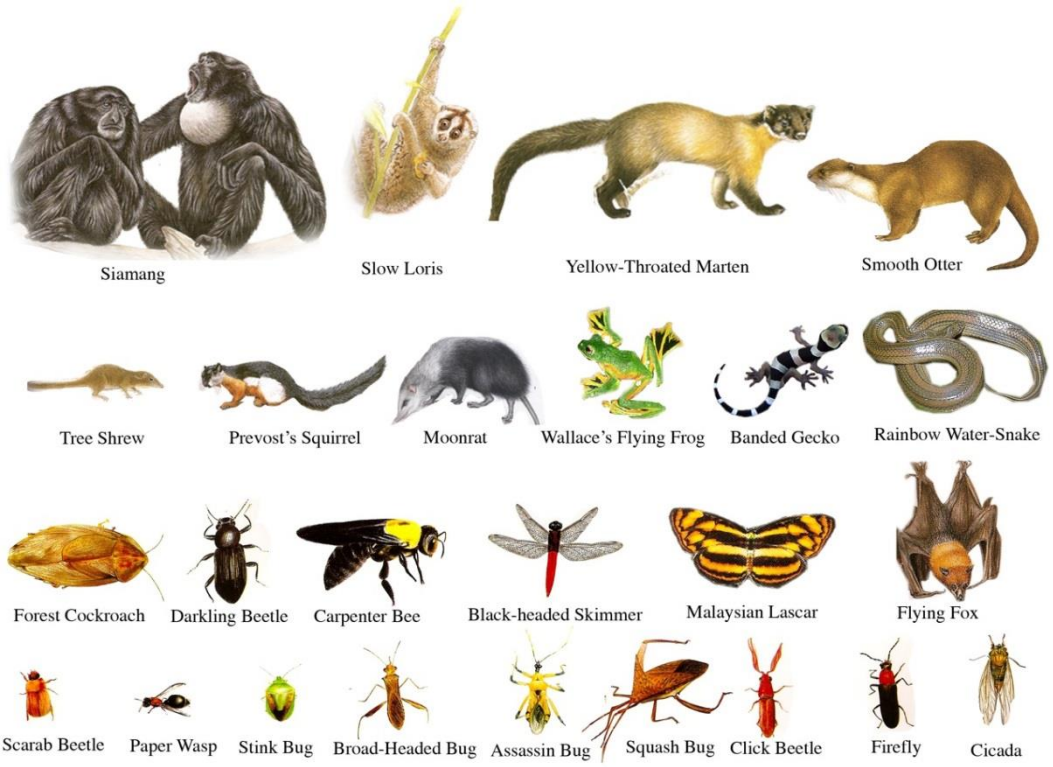
18

If the Government Protects Nothing

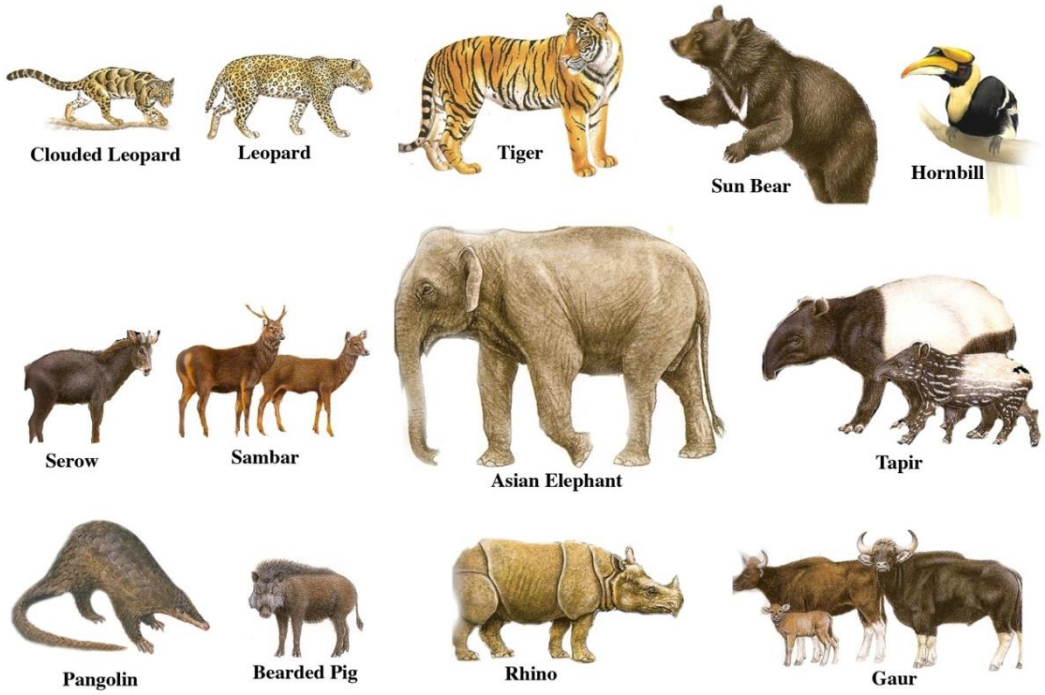
	No protection
Logging	In all the forest (0 ha protected)
	All these species go extinct (none survive)
Poaching	In all the forest (0 ha protected)
	All these species go extinct (none survive)
Floods in Perak	4-6 times a year
Jobs created in Perak	7,500
Cost to you	No new cost

4. Key to Species Affected by Logging and Poaching

Species affected by logging



Species affected by poaching



5. Experimental Design Attribute Assignment Levels for Module 1

The table on the following pages shows attribute assignment levels for the choice experiments in module 1, protection of Belum-Temengor against logging and poaching. Each respondent received a block of four choice sets. Blocks are denoted by numbers from 1 to 81, and choice sets within a block are denoted by letters a, b, c, and d. Terms are defined as follows:

Pair Number represents the pair of protection policies ("alternatives") within a given choice set. Each choice set also contains the status quo (no-protection) alternative, but that alternative is the same for all choice sets and hence is not shown on the following pages (but was shown to the respondent). For instance, a respondent randomly selected to receive the 67^{th} block receives choice sets 67a, 67b, 67c, and 67d.

Log is the level of the logging attribute for the first alternative in the choice pair, and *MLog* is the level of the logging attribute for the second alternative. Level 0 represents logging 300,000 hectares, level 1 represents logging 150,000 hectares, and level 2 represents logging 0 hectares.

Poaching is the level of the poaching attribute for the first alternative in the choice pair, and *MPoach* is the level of the poaching attribute for the second alternative. Level 0 represents poaching on 300,000 hectares, level 1 represents poaching on 150,000 hectares, and level 2 represents poaching on 0 hectares.

Jobs is the job creation attribute for the first alternative in the choice pair, and *MJobs* is the job creation attribute for the second alternative. Level 0 represents 2,500 jobs created, level 1 represents 5,000 jobs created, and level 2 represents 7,500 jobs created.

Cost is the cost attribute for the first alternative in the choice pair, and *MCost* is the cost attribute for the second alternative. Level 0 represents 2 RM, level 1 represents 6 RM, and level 2 represents 10 RM.

PAIR NUMBER	LOG	POACH	JOBS	COST	MLOG	MPOACH	MJOBS	MCOST
1a	0	0	1	2	1	1	1	2
1b	0	1	2	2	0	0	2	0
1c	1	0	0	0	1	2	0	1
1d	0	0	0	0	2	0	1	1
2a	1	2	1	1	2	1	2	1
2b	2	1	0	1	2	2	2	2
2c	2	1	2	2	2	1	1	2
2d	1	0	1	2	0	2	0	1
3a	0	1	1	0	0	2	1	0
3b	1	2	0	2	2	0	2	0
3c	0	1	0	1	0	1	2	1
3d	2	0	0	0	1	1	0	0
4a	0	2	2	0	0	1	1	2
4b	2	0	1	2	2	1	0	0
4c	1	1	0	1	1	0	0	2
4d	1	1	2	2	1	2	1	0
5a	2	2	2	0	0	1	0	0
5b	2	2	1	1	1	1	2	1
5c	1	1	1	0	0	0	0	2
5d	0	2	0	2	2	2	1	0
6a	2	2	0	2	1	2	2	2
6b	1	2	2	0	1	0	2	0
6c	0	0	2	1	1	0	1	1
6d	2	1	1	0	0	2	2	2
7a	2	0	2	1	2	0	0	2
7b	0	2	1	1	0	0	1	1
7c	1	0	2	1	2	2	0	1
7d	0	1	1	0	1	0	2	0
8a	1	2	1	1	0	1	0	0
8b	2	0	2	1	1	1	0	0
8c	1	0	2	1	1	1	1	2
8d	0	1	2	2	1	1	2	1
9a	1	2	0	2	2	0	2	0
9b	1	0	1	2	0	1	1	2
9c	0	2	1	1	0	2	2	2
9d	2	2	0	2	2	0	0	2
10a	0	1	0	1	0	1	2	1
10b	0	2	2	0	1	2	1	0
10c	2	1	2	2	0	2	0	1
10d	0	0	0	0	0	0	0	2
11a	1	1	1	0	1	2	2	2
11b	2	2	1	1	1	0	0	2
11c	1	1	2	2	0	2	1	0
11d	2	0	0	0	2	1	2	1
12a	2	1	0	1	2	1	1	2
12b	1	0	0	0	2	1	0	0
12c	0	2	0	2	0	0	1	1
12d	2	0	1	2	2	2	0	1

13a	1	1	0	1	2	2	2	2
13b	1	2	2	0	0	0	2	0
13c	0	0	1	2	2	0	1	1
13d	0	0	2	1	2	2	1	0
14a	2	2	2	0	1	0	1	1
14b	2	1	1	0	1	2	0	1
14c	2	0	0	0	1	2	2	2
14d	2	2	0	2	0	0	2	0
15a	1	0	2	1	1	0	2	0
15b	2	0	1	2	2	0	2	0
15c	2	1	0	1	2	1	1	2
15d	0	1	0	1	0	1	0	0
16a	1	0	1	2	1	2	1	0
16b	0	1	2	2	2	2	1	0
16c	1	2	0	2	2	0	0	2
16d	0	2	1	1	0	1	1	2
17a	1	1	2	2	2	2	0	1
17b	1	0	0	0	0	2	0	1
17c	0	0	2	1	1	2	0	1
17d	0	2	2	0	0	2	1	0
18a	1	1	0	1	1	1	2	1
18b	1	2	1	1	0	1	2	1
18c	0	0	0	0	1	1	0	0
18d	1	1	1	0	0	0	1	1
19a	0	1	1	0	1	0	0	2
19b	0	2	0	2	2	1	0	0
19c	1	2	2	0	1	1	1	2
19d	2	1	2	2	1	0	1	1
20a	0	0	1	2	2	2	2	2
20b	2	2	2	0	2	1	2	1
20c	2	1	1	0	0	0	0	2
20d	2	2	1	1	2	0	1	1
21a	2	0	2	1	0	2	2	2
21b	0	2	1	1	2	1	1	2
21c	2	0	1	2	1	2	0	1
21d	1	1	1	0	1	2	2	2
22a	2	0	2	1	2	1	0	0
22b	0	1	2	2	1	0	1	1
22c	2	2	1	1	2	2	2	2
22d	0	0	1	2	0	0	2	0
23a	0	0	0	0	0	2	1	0
23b	1	1	0	1	1	0	2	0
23c	1	1	2	2	1	1	1	2
23d	2	1	1	0	1	2	1	0
24a	2	1	0	1	2	0	1	1
24b	0	0	2	1	0	1	2	1
24c	2	2	2	0	2	2	1	0
24d	0	2	0	2	0	0	0	2

25a	1	0	0	0	0	0	1	1
25b	0	1	0	1	0	1	0	0
25c	2	2	0	2	2	1	2	1
25d	1	2	0	2	2	0	2	0
26a	1	2	2	0	1	1	0	0
26b	1	0	1	2	1	1	2	1
26c	0	1	1	0	0	1	1	2
26d	0	2	2	0	2	0	0	2
27a	2	0	0	0	0	2	2	2
27b	1	2	1	1	1	0	0	2
27c	1	0	2	1	2	2	0	1
27d	2	1	2	2	0	2	0	1
28a	0	2	2	0	1	2	1	0
28b	2	0	0	0	0	0	0	2
28c	0	1	2	2	1	1	2	1
28d	1	1	2	2	0	1	2	1
29a	0	1	0	1	0	2	2	2
29b	1	1	1	0	2	2	2	2
29c	2	2	0	2	2	2	1	0
29d	1	2	1	1	0	1	1	2
30a	1	0	0	0	2	2	0	1
30b	0	0	1	2	2	1	1	2
30c	0	0	2	1	0	0	1	1
30d	1	2	2	0	1	0	0	2
31a	2	2	2	0	0	0	2	0
31b	1	1	0	1	1	1	0	0
31c	2	1	0	1	1	2	2	2
31d	1	0	1	2	2	1	2	1
32a	0	0	0	0	2	0	2	0
32b	2	0	1	2	2	1	0	0
32c	2	0	2	1	0	2	1	0
32d	2	2	1	1	0	1	0	0
33a	0	2	1	1	2	0	0	2
33b	1	2	0	2	1	2	0	1
33c	2	1	2	2	0	2	0	1
33d	0	2	0	2	1	0	2	0
34a	1	0	2	1	1	1	1	2
34b	0	1	1	0	2	0	1	1
34c	2	1	1	0	1	0	1	1
34d	2	0	2	1	2	0	0	2
35a	0	2	0	2	2	1	1	2
35b	1	2	0	2	2	0	2	0
35c	0	1	2	2	2	2	1	0
35d	2	0	0	0	2	2	0	1
36a	2	1	1	0	1	1	2	1
36b	1	1	2	2	0	1	2	1
36c	0	2	2	0	2	2	2	2
36d	1	2	2	0	0	0	1	1

37a	0	0	2	1	1	1	0	0
37b	1	2	1	1	2	1	0	0
37c	1	1	1	0	0	0	2	0
37d	2	2	1	1	1	2	2	2
38a	1	0	0	0	0	2	0	1
38b	1	0	2	1	1	0	1	1
38c	2	1	0	1	1	2	1	0
38d	0	1	0	1	0	1	0	0
39a	0	1	1	0	2	1	2	1
39b	2	0	1	2	0	0	0	2
39c	0	0	1	2	0	1	1	2
39d	1	0	1	2	1	0	0	2
40a	2	1	2	2	2	0	1	1
40b	2	2	2	0	1	2	0	1
40c	0	0	0	0	1	1	1	2
40d	1	1	0	1	0	2	2	2
41a	0	2	1	1	1	0	2	0
41b	2	2	0	2	0	2	1	0
41c	0	2	1	1	2	2	1	0
41d	2	2	1	1	1	0	0	2
42a	0	1	1	0	0	1	2	1
42b	0	2	0	2	1	1	1	2
42c	1	1	2	2	1	2	1	0
42d	0	1	0	1	2	1	0	0
43a	1	0	0	0	1	1	0	0
43b	2	1	1	0	2	2	2	2
43c	2	2	0	2	0	2	2	2
43d	2	1	2	2	1	0	2	0
44a	1	1	1	0	2	1	2	1
44b	0	0	2	1	1	2	2	2
44c	1	2	0	2	0	0	0	2
44d	0	0	1	2	2	0	2	0
45a	2	1	0	1	2	2	0	1
45b	1	0	1	2	1	0	1	1
45c	1	1	0	1	1	2	0	1
45d	2	0	2	1	2	0	0	2
46a	0	2	2	0	1	1	2	1
46b	1	0	2	1	0	0	1	1
46c	2	0	0	0	0	2	1	0
46d	2	0	1	2	2	0	1	1
47a	1	2	2	0	0	2	0	1
47b	1	2	1	1	2	1	1	2
47c	0	1	2	2	0	1	0	0
47d	0	0	0	0	0	0	2	0
48a	2	2	2	0	0	1	1	2
48b	1	0	2	1	1	2	2	2
48c	0	1	2	2	0	1	1	2
48d	2	2	1	1	0	0	1	1

49a	2	1	2	2	2	2	1	0
49b	2	1	0	1	2	1	2	1
49c	1	1	0	1	2	1	1	2
49d	1	0	0	0	2	0	1	1
50a	1	1	2	2	0	0	2	0
50b	0	2	1	1	0	1	2	1
50c	0	1	1	0	2	1	0	0
50d	2	0	2	1	1	2	0	1
51a	2	1	1	0	0	1	0	0
51b	2	2	2	0	0	2	1	0
51c	2	0	0	0	2	2	0	1
51d	1	2	1	1	1	0	1	1
52a	0	0	1	2	2	0	2	0
52b	0	1	0	1	2	0	0	2
52c	1	1	1	0	1	0	0	2
52d	0	0	0	0	0	2	0	1
53a	1	2	2	0	1	1	2	1
53b	0	2	0	2	2	2	2	2
53c	0	2	2	0	1	1	1	2
53d	2	0	1	2	1	1	0	0
54a	1	0	1	2	1	0	2	0
54b	2	2	0	2	0	0	0	2
54c	1	2	0	2	0	2	2	2
54d	0	0	2	1	1	2	1	0
55a	0	1	0	1	0	0	0	2
55b	1	0	1	2	0	0	2	0
55c	0	2	2	0	0	0	1	1
55d	2	1	0	1	0	1	1	2
56a	2	2	0	2	0	2	0	1
56b	1	2	1	1	2	0	2	0
56c	0	1	1	0	1	1	1	2
56d	0	0	1	2	2	2	0	1
57a	2	2	1	1	1	0	0	2
57b	0	2	0	2	0	2	1	0
57c	2	2	2	0	1	1	0	0
57d	1	2	0	2	2	2	2	2
58a	2	1	2	2	1	0	2	0
58b	0	0	2	1	0	2	2	2
58c	1	1	1	0	2	1	2	1
58d	2	0	0	0	2	1	0	0
59a	1	0	2	1	1	0	1	1
59b	0	1	2	2	2	1	1	2
59c	2	1	1	0	1	1	2	1
59d	1	1	0	1	2	2	1	0
60a	1	0	0	0	1	2	1	0
60b	2	0	2	1	1	2	2	2
60c	1	1	2	2	2	0	0	2
60d	0	0	0	0	2	0	1	1

61a	1	2	2	0	0	1	0	0
61b	2	0	1	2	1	2	0	1
61c	0	2	1	1	0	1	2	1
61d	2	2	2	0	2	1	0	0
62a	2	2	0	2	1	2	1	0
62b	2	2	1	1	0	1	1	2
62c	1	1	2	2	0	0	1	1
62d	0	0	1	2	1	1	2	1
63a	2	1	2	2	1	1	1	2
63b	0	2	1	1	2	2	0	1
63c	0	1	0	1	1	0	0	2
63d	1	2	2	0	1	2	2	2
64a	0	2	2	0	0	1	0	0
64b	2	0	1	2	1	0	1	1
64c	0	0	0	0	0	2	2	2
64d	1	0	2	1	0	2	0	1
65a	1	2	0	2	2	0	2	0
65b	1	0	1	2	2	2	2	2
65c	1	1	1	0	2	1	2	1
65d	0	1	2	2	0	2	1	0
66a	2	1	0	1	2	2	1	0
66b	2	0	2	1	0	0	2	0
66c	2	0	0	0	2	1	1	2
66d	1	0	0	0	1	2	0	1
67a	1	2	1	1	0	0	0	2
67b	0	1	1	0	1	0	2	0
67c	0	0	2	1	2	0	1	1
67d	0	2	0	2	2	0	0	2
68a	1	1	0	1	0	1	2	1
68b	2	1	1	0	1	1	0	0
68c	2	1	2	2	1	1	1	2
68d	2	0	1	2	2	2	0	1
69a	1	0	2	1	0	2	2	2
69b	2	0	0	0	0	0	2	0
69c	0	2	2	0	0	2	1	0
69d	0	2	0	2	1	1	0	0
70a	0	0	0	0	2	1	1	2
70b	1	0	1	2	1	1	2	1
70c	2	2	0	2	1	2	2	2
70d	0	1	2	2	1	0	2	0
71a	0	1	0	1	0	0	1	1
71b	0	0	1	2	1	2	1	0
71c	1	1	1	0	0	0	0	2
71d	0	2	1	1	0	1	1	2
72a	2	2	1	1	0	1	0	0
72b	1	2	0	2	0	1	2	1
72c	0	1	1	0	2	0	2	0
72d	2	2	2	0	2	2	1	0

73a	2	1	1	0	1	0	0	2
73b	1	0	0	0	0	2	0	1
73c	1	1	0	1	1	0	1	1
73d	1	2	2	0	2	1	0	0
74a	2	0	2	1	2	2	2	2
74b	2	1	0	1	2	1	2	1
74c	0	0	2	1	2	0	0	2
74d	1	2	1	1	2	0	1	1
75a	1	1	2	2	1	2	0	1
75b	2	1	1	0	1	1	2	1
75c	0	2	1	1	2	2	2	2
75d	1	1	2	2	2	0	0	2
76a	2	1	0	1	0	2	0	1
76b	1	2	2	0	0	2	2	2
76c	2	1	2	2	0	1	2	1
76d	1	0	2	1	2	0	1	1
77a	0	0	1	2	0	0	0	2
77b	0	2	2	0	2	2	1	0
77c	1	1	0	1	1	2	2	2
77d	0	1	0	1	1	2	1	0
78a	1	2	1	1	1	1	0	0
78b	0	0	2	1	2	0	2	0
78c	0	2	0	2	0	1	0	0
78d	1	1	1	0	2	2	0	1
79a	0	0	0	0	2	1	0	0
79b	0	1	2	2	1	2	0	1
79c	1	0	1	2	0	1	1	2
79d	2	2	2	0	1	0	0	2
80a	2	2	1	1	2	1	1	2
80b	2	0	1	2	0	0	1	1
80c	2	2	0	2	1	0	2	0
80d	1	2	0	2	1	0	1	1
81a	2	0	0	0	0	0	0	2
81b	1	0	0	0	1	2	1	1
81c	0	0	1	1	0	0	2	1
81d	2	1	0	2	2	1	1	2

6. Experimental Design Attribute Assignment Levels for Module 3

The table on the following pages shows attribute assignment levels for the choice experiments in module 3, design of a new forest recreational park. Each respondent received a block of two choice sets. Blocks are denoted by numbers from 1 to 80, and choice sets within a block are denoted by letters a and b. Terms are defined as follows:

Pair Number represents the pair of protection policies ("alternatives") within a given choice set. Each choice set also contains the status quo (no-protection) alternative, but that alternative is the same for all choice sets and hence is not shown on the following pages (but was shown to the respondent). For instance, a respondent randomly selected to receive the 67^{th} block receives choice sets 67a, 67b, 67c, and 67d.

Pair represents the pair of park plans ("alternatives") within a given choice set. Each choice set also contains the status quo alternative alternative (no park), but that alternative is the same for all choice sets and hence is not shown on the following pages. (Respondents received it as a "choose neither plan" option.) For instance, a respondent randomly selected to receive the 38^{th} block receives choice sets 38a and 38b.

A1 is the availability of drinking water fountains and toilets for the first alternative in the choice pair, and *MA1* is the availability of drinking water fountains and toilets for the second alternative. Level 0 represents none are present, while level 1 represents several are present.

A2 is the type of walking trail for the first alternative in the choice pair, and *MA2* is the type of walking trail for the second alternative. Level 0 represents dirt/gravel trails, while level 1 represents paved trails.

B1 indicates whether picnic tables and grills are available for the first alternative in the choice pair, and *MB1* indicates whether picnic tables and grills are available for the second alternative. Level 0 represents no picnic tables and grills are present, while level 1 represents several are present.

B2 is the level of crowdedness for the first alternative in the choice pair, and *MB2* is the level of crowdedness for the second alternative. Level 0 represents few people are present, while level 1 represents many people are present.

C1 is the level of litter for the first alternative in the choice pair, and *MC1* is the level of litter for the second alternative. Level 0 represents no noticeable litter, while level 1 represents noticeable litter.

C2 is the level of wildlife and birds likely to be seen for the first alternative in the choice pair, and *MC2* is the level of the wildlife and birds likely to be seen for the second alternative. Level 0 represents wildlife and birds rarely seen, while level 1 represents wildlife and birds frequently seen.

D1 is the level of the access to streams and waterfalls for the first alternative in the choice pair, and *MD1* is the level of access to streams and waterfalls for the second alternative. Level 0 represents no access to streams and waterfalls, while level 1 represents easy access to streams and waterfalls.

D2 is the information/signs attribute for the first alternative in the choice pair, and *MD2* is the information/signs attribute for the second alternative. Level 0 represents no visitor information is available, level 1 represents maps and frequent interpretive information signs are available.

FEE is the park entrance attribute for the first alternative in the choice pair, and *MFEE* is the park entrance fee attribute for the second alternative. Level 0 represents 2 RM, level 1 represents 5 RM, level 2 represents 10 RM, and level 3 represents 15 RM.

PAIR	A1	A2	B1	B2	C1	C2	D1	D2	FEE	MA1	MA2	MB1	MB2	MC1	MC2	MD1	MD2	FEE
1a	0	0	0	0	1	0	1	0	3	1	1	0	1	1	1	0	0	2
1b	0	1	1	1	0	1	0	0	1	0	0	1	1	0	0	0	1	2
2a	0	0	1	0	1	0	0	1	1	0	0	0	0	1	1	1	0	1
2b	1	0	1	1	0	0	0	0	3	0	1	1	0	1	1	0	0	2
3a	0	1	0	0	0	0	0	1	2	1	0	1	0	0	0	1	0	0
3b	1	0	0	1	0	0	1	1	1	1	1	0	0	1	0	1	0	3
4a	1	1	1	1	0	0	0	1	2	1	0	0	1	1	1	0	1	3
4b	0	1	0	0	1	0	1	1	2	1	0	1	1	1	1	1	0	1
5a	1	0	0	0	1	1	1	1	0	0	0	0	1	1	0	0	0	0
5b	1	1	0	1	0	0	1	0	0	0	1	0	1	0	0	1	1	1
6a	0	1	1	1	1	1	1	0	1	0	0	1	0	1	1	0	1	3
6b	0	0	1	1	0	1	0	1	0	1	1	1	0	0	0	1	1	1
7a	0	1	0	1	1	1	0	1	3	1	1	0	1	0	1	1	0	2
7b	1	1	0	0	1	1	1	0	1	1	0	0	0	0	0	0	1	2
8a	0	1	1	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0
8b	0	0	0	0	0	0	0	0	3	1	0	0	1	0	1	1	1	3
9a	1	1	0	1	1	0	0	0	0	1	0	1	0	1	0	0	0	0
9b	1	1	1	0	0	1	1	1	3	1	1	1	1	0	1	0	1	0
10a	0	0	0	1	1	1	0	0	2	0	1	0	0	0	1	0	1	0
10b	0	0	1	1	1	1	1	1	0	0	0	1	1	1	0	1	1	2
11a	0	1	1	0	0	0	1	0	0	0	1	1	1	0	0	0	0	3
11b	1	0	1	1	1	0	1	0	3	0	1	1	1	1	0	1	0	3
12a	0	0	0	1	0	1	1	0	2	1	1	1	0	1	0	0	1	1
12b	1	1	0	0	0	1	0	0	1	1	1	0	0	0	0	0	0	3
13a	0	1	0	1	0	1	1	1	3	0	0	0	0	0	1	0	0	1
13b	1	0	1	0	0	1	1	0	2	0	1	0	1	1	0	0	1	1
14a	1	1	1	0	1	1	0	1	3	1	1	1	1	1	1	1	1	0
14b	0	0	1	0	0	0	1	1	1	1	0	0	0	1	0	1	1	2
15a	1	0	0	0	0	1	0	1	0	0	1	1	0	0	1	1	0	2
15b	1	1	1	1	1	0	1	1	2	1	0	1	1	0	1	0	0	1
16a	1	0	1	0	1	1	0	0	2	0	0	1	0	0	1	1	1	3
16b	1	0	0	1	1	0	0	1	1	0	1	0	0	1	1	1	1	0
17a	1	0	0	0	1	1	1	1	0	0	0	1	1	0	0	0	1	2
17b	0	0	0	0	0	0	0	0	3	0	0	0	0	0	1	0	0	1
18a	1	0	0	1	0	0	1	1	1	0	1	1	1	1	0	1	0	3
18b	0	1	0	0	0	0	0	1	2	0	0	0	0	1	1	1	0	1
19a	1	1	0	0	1	1	1	0	1	0	1	1	1	0	0	0	0	3
19b	0	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0
20a	1	0	1	1	0	0	0	0	3	1	0	1	0	0	0	1	0	0
20b	1	0	1	0	0	1	1	0	2	1	0	1	0	1	0	0	0	0
21a	1	1	0	0	0	1	0	0	1	1	0	1	1	0	1	0	0	1
21b	0	1	0	1	0	1	1	1	3	0	1	0	1	1	0	0	1	1
22a	1	0	1	1	1	0	1	0	3	1	1	0	1	0	1	1	0	2
22b	1	0	0	0	0	1	0	1	0	1	1	1	0	1	0	0	1	1
23a	1	1	1	0	1	1	0	1	3	1	0	1	1	1	1	1	0	1
23b	0	1	0	0	1	0	1	1	2	1	1	0	0	0	0	0	0	3

24a	0	1	0	1	1	1	0	1	3	0	0	0	1	1	0	0	0	0
24b	0	0	1	0	1	0	0	1	1	0	0	0	1	0	0	1	0	0
25a	1	1	1	0	0	1	1	1	3	0	1	0	0	0	1	0	1	0
25b	0	0	0	1	1	1	0	0	2	1	1	0	0	1	0	1	0	3
26a	1	1	0	1	0	0	1	0	0	1	0	0	0	1	0	1	1	2
26b	0	1	1	1	1	1	1	0	1	0	1	0	1	0	0	1	1	1
27a	0	0	1	1	1	1	1	1	0	0	0	1	1	1	0	1	1	2
27b	1	1	1	1	0	0	0	1	2	1	1	1	0	0	0	1	1	1
28a	0	1	1	0	0	0	1	0	0	0	0	1	0	1	1	0	1	3
28b	1	0	0	1	1	0	0	1	1	1	1	1	1	0	1	0	1	0
29a	0	0	0	1	0	1	1	0	2	1	0	0	1	1	1	0	1	3
29b	1	1	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	2
30a	1	1	1	1	1	0	1	1	2	0	1	1	0	0	1	1	0	2
30b	1	0	1	0	1	1	0	0	2	0	1	0	0	1	1	1	1	0
31a	0	1	1	1	0	1	0	0	1	0	1	1	0	1	1	0	0	2
31b	0	0	1	1	0	1	0	1	0	1	0	0	1	0	1	1	1	3
32a	0	1	1	0	1	0	0	0	0	0	0	1	0	0	1	1	1	3
32b	0	0	0	0	1	0	1	0	3	1	1	0	1	1	1	0	0	2
33a	1	0	0	0	1	1	1	1	0	0	0	1	1	0	0	0	1	2
33b	0	0	0	0	0	0	0	0	3	0	0	0	0	0	1	0	0	1
34a	1	0	0	1	0	0	1	1	1	0	1	1	1	1	0	1	0	3
34b	0	1	0	0	0	0	0	1	2	0	0	0	0	1	1	1	0	1
35a	1	1	0	0	1	1	1	0	1	0	1	1	1	0	0	0	0	3
35b	0	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0
36a	1	0	1	1	0	0	0	0	3	1	0	1	0	0	0	1	0	0
36b	1	0	1	0	0	1	1	0	2	1	0	1	0	1	0	0	0	0
37a	1	1	0	0	0	1	0	0	1	1	0	1	1	0	1	0	0	1
37b	0	1	0	1	0	1	1	1	3	0	1	0	1	1	0	0	1	1
38a	1	0	1	1	1	0	1	0	3	1	1	0	1	0	1	1	0	2
38b	1	0	0	0	0	1	0	1	0	1	1	1	0	1	0	0	1	1
39a	1	1	1	0	1	1	0	1	3	1	0	1	1	1	1	1	0	1
39b	0	1	0	0	1	0	1	1	2	1	1	0	0	0	0	0	0	3
40a	0	1	0	1	1	1	0	1	3	0	0	0	1	1	0	0	0	0
40b	0	0	1	0	1	0	0	1	1	0	0	0	1	0	0	1	0	0
41a	1	1	1	0	0	1	1	1	3	0	1	0	0	0	1	0	1	0
41b	0	0	0	1	1	1	0	0	2	1	1	0	0	1	0	1	0	3
42a	1	1	0	1	0	0	1	0	0	1	0	0	0	1	0	1	1	2
42b	0	1	1	1	1	1	1	0	1	0	1	0	1	0	0	1	1	1
43a	0	0	1	1	1	1	1	1	0	0	0	1	1	1	0	1	1	2
43b	1	1	1	1	0	0	0	1	2	1	1	1	0	0	0	1	1	1
44a	0	1	1	0	0	0	1	0	0	0	0	1	0	1	1	0	1	3
44b	1	0	0	1	1	0	0	1	1	1	1	1	1	0	1	0	1	0
45a	0	0	0	1	0	1	1	0	2	1	0	0	1	1	1	0	1	3
45b	1	1	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	2
46a	1	1	1	1	1	0	1	1	2	0	1	1	0	0	1	1	0	2
46b	1	0	1	0	1	1	0	0	2	0	1	0	0	1	1	1	1	0
47a	0	1	1	1	0	1	0	0	1	0	1	1	0	1	1	0	0	2
47b	0	0	1	1	0	1	0	1	0	1	0	0	1	0	1	1	1	3

48a	0	1	1	0	1	0	0	0	0	0	0	1	0	0	1	1	1	3
48b	0	0	0	0	1	0	1	0	3	1	1	0	1	1	1	0	0	2
49a	0	0	0	0	0	0	0	0	3	0	0	1	1	0	0	0	1	2
49b	0	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0
50a	1	0	1	0	0	1	1	0	2	1	1	0	0	0	0	0	0	3
50b	1	0	1	0	1	1	0	0	2	1	0	0	0	0	0	0	1	2
51a	1	1	1	1	1	0	1	1	2	0	0	0	1	0	0	1	0	0
51b	1	1	0	1	1	0	0	0	0	0	0	1	0	0	1	1	1	3
52a	1	1	0	0	1	1	1	0	1	0	1	1	0	0	1	1	0	2
52b	0	1	0	0	1	0	1	1	2	0	1	1	1	1	0	1	0	3
53a	0	0	1	0	1	0	0	1	1	1	0	1	0	1	0	0	0	0
53b	0	1	1	1	1	1	1	0	1	1	0	0	0	1	0	1	1	2
54a	0	0	0	1	1	1	0	0	2	0	0	1	1	1	0	1	1	2
54b	0	1	0	1	0	1	1	1	3	0	0	0	0	1	1	1	0	1
55a	1	0	1	1	0	0	0	0	3	0	1	0	0	0	1	0	1	0
55b	1	0	1	1	1	0	1	0	3	0	1	0	1	1	0	0	1	1
56a	0	0	0	1	0	1	1	0	2	0	0	0	1	1	0	0	0	0
56b	0	0	1	1	0	1	0	1	0	1	0	1	1	0	1	0	0	1
57a	0	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1
57b	1	1	0	0	0	1	0	0	1	1	1	1	0	1	0	0	1	1
58a	1	1	0	1	0	0	1	0	0	0	1	0	0	1	1	1	1	0
58b	0	1	0	0	0	0	0	1	2	1	0	1	0	0	0	1	0	0
59a	0	0	0	0	1	0	1	0	3	1	0	0	1	1	1	0	1	3
59b	1	1	1	0	1	1	0	1	3	0	0	1	0	1	1	0	1	3
60a	0	1	1	0	1	0	0	0	0	1	1	1	1	0	1	0	1	0
60b	0	1	1	1	0	1	0	0	1	1	0	1	1	1	1	1	0	1
61a	1	0	0	1	1	0	0	1	1	1	1	0	0	1	0	1	0	3
61b	1	0	0	1	0	0	1	1	1	1	0	0	1	0	1	1	1	3
62a	1	0	0	0	0	1	0	1	0	0	1	1	0	1	1	0	0	2
62b	1	0	0	0	1	1	1	1	0	0	1	0	1	0	0	1	1	1
63a	1	1	1	0	0	1	1	1	3	1	1	0	1	0	1	1	0	2
63b	0	1	0	1	1	1	0	1	3	0	1	1	1	0	0	0	0	3
64a	1	1	1	1	0	0	0	1	2	1	1	0	1	1	1	0	0	2
64b	0	0	1	1	1	1	1	1	0	1	1	1	0	0	0	1	1	1
65a	0	0	0	1	0	1	1	0	2	1	1	1	1	0	1	0	1	0
65b	1	1	0	0	1	1	1	0	1	0	0	0	0	0	1	0	0	1
66a	1	0	1	1	1	0	1	0	3	1	0	1	0	1	0	0	0	0
66b	1	0	0	0	0	1	0	1	0	1	1	1	0	0	0	1	1	1
67a	0	1	1	0	0	0	1	0	0	0	1	0	1	1	0	0	1	1
67b	1	0	1	0	1	1	0	0	2	0	1	1	0	0	1	1	0	2
68a	0	1	1	1	1	1	1	0	1	0	1	0	1	0	0	1	1	1
68b	0	1	0	0	1	0	1	1	2	1	1	0	0	1	0	1	0	3
69a	1	0	1	0	0	1	1	0	2	1	0	0	0	1	0	1	1	2
69b	0	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0
70a	0	0	0	0	1	0	1	0	3	0	0	0	0	1	1	1	0	1
70b	0	1	1	1	0	1	0	0	1	1	1	0	1	1	1	0	0	2
71a	1	0	0	0	1	1	1	1	0	1	0	1	0	0	0	1	0	0
71b	1	0	1	1	0	0	0	0	3	0	0	1	0	0	1	1	1	3

72a	1	1	1	1	1	0	1	1	2	1	1	0	0	0	0	0	0	3
72b	1	0	0	1	1	0	0	1	1	0	0	0	1	1	0	0	0	0
73a	0	0	0	1	1	1	0	0	2	0	0	0	1	0	0	1	0	0
73b	1	1	0	0	0	1	0	0	1	0	1	1	0	1	1	0	0	2
74a	0	0	1	0	0	0	1	1	1	0	1	1	1	0	0	0	0	3
74b	1	0	0	1	0	0	1	1	1	0	0	1	0	1	1	0	1	3
75a	1	1	0	1	1	0	0	0	0	1	0	0	1	0	1	1	1	3
75b	0	0	1	0	1	0	0	1	1	1	1	1	0	1	0	0	1	1
76a	0	1	1	0	1	0	0	0	0	0	0	1	1	0	0	0	1	2
76b	1	1	1	1	0	0	0	1	2	1	0	1	1	1	1	1	0	1
77a	0	1	0	1	0	1	1	1	3	0	1	0	0	0	1	0	1	0
77b	0	1	0	1	1	1	0	1	3	1	0	0	1	1	1	0	1	3
78a	1	1	1	0	0	1	1	1	3	1	0	1	1	0	1	0	0	1
78b	0	0	1	1	0	1	0	1	0	0	1	1	1	1	0	1	0	3
79a	0	1	0	0	0	0	0	1	2	1	0	0	0	0	0	0	1	2
79b	1	1	0	1	0	0	1	0	0	1	1	0	1	0	1	1	0	2
80a	1	1	1	0	1	1	0	1	3	0	0	1	1	1	0	1	1	2
80b	0	0	0	0	0	0	0	0	3	0	1	0	0	1	1	1	1	0

7. Survey Introduction Letter

Conservation of Biological Diversity Project
Project Support Unit (MAL/04/G31) & [PD 165/2 Rev.3 (F)]
Forest Research Institute Malaysia (FRIM)
52109 Kepong, Selangor Darul Ehsan, Malaysia.
T: +603-6279 7617 F: +603-6273 4704
www.cbiod.org

Date: 22 March 2010

«NAME»
«ADD1»
«ADD2»
«POSTCODE», «TOWN»

Dear Resident (*or individual name*),

FRIM Survey of Forest Recreation and Biodiversity

I am writing to ask for your help with an important survey that the Forest Research Institute Malaysia (FRIM) is conducting on how the government should manage our nation's forests. Within the next three weeks of the date stated above, a FRIM field representative will visit your home. He or she will have an official identification letter and card for this study.

Findings from the survey will be used to evaluate current forest management policies and to recommend new ones, with a focus on forest-based recreation and conservation of biodiversity. By participating in the survey, you will provide confidential information that policymakers can use in planning the future use of Malaysia's forests.

Your house has been randomly selected by the Department of Statistics. They chose your address, but not you personally. We need to interview every selected household to gain an accurate understanding of the Malaysian public's views about forest management practices. Your participation in the survey is very important as policymakers will consider the results from the survey in determining what policies to implement in the future.

We estimate that the survey will take about 30 minutes to complete. This includes time for reviewing instructions as well as completing and reviewing your answers. You will receive a small gift if you participate in the survey, as a token of FRIM's appreciation for your cooperation.

Any information that you provide during the survey about you or your household will be held in strictest confidence. Your identity will not be disclosed to any organization. Your responses will be combined with other households. No one who reads the survey report will be able to attribute any specific response or view to you personally, nor will your name, address, or any other identifying information appear anywhere in the report.

Your participation is greatly appreciated as it could have an impact on the future of our country's forests. If you have any questions about this survey, please contact either Ms Jaya Radha Veerasamy at 03-62797619 or email jayaradha_undpbiod@frim.gov.my, or Ms Chong Siew Kook at 03-78042664 or email siewkook@peresearch.com.my.

Thank you for your cooperation.

Sincerely,

Dr Shamsudin Ibrahim
National Project Director, UNDP-GEF-ITTO-FRIM CBioD Project
Forest Research Institute Malaysia