**SEAMEO-Japan ESD Award**

Supporting Partners:

**Submission Form of 2013 SEAMEO-Japan ESD Award**
**Theme: Values Education**
**The last day for submission of entries: 16 September 2013**

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## PART I: Details of Your School

1. Name of your school: **SEKOLAH MENENGAH RAJA PEREMPUAN IPOH**
2. Full address: **JALAN BATU BUNGKAL IPOH, PERAK**
3. Postcode: **30250**
4. Country: **MALAYSIA**
5. Telephone number (country code+city code+telephone number): **+605 2494830 (School)**

   **+60165463032**
6. Fax number (country code+city code+fax number**): +605 2420697**
7. Name of the Head Master/ Principal/ School Director: **CIK RUSNANI BT SHAHRUDDIN**
8. Name of Teacher Coordinator: **PN FONG EE LIN**
9. Email address: **arshil@ymail.com**
10. School website (if available): http://www.smkrajaperempuanipoh.com/
11. Educational level (Such as Kindergarten 1 to Grade/Year 9): Form 1-Pre University (13 – 19yrs )
12. Number of teachers in your school: 116 teachers
13. Number of students in your school: **1258 students**
14. Please provide the name of teachers and students who were/have been involved in the planning and implementation of this school activity/programme on Values Education.

**Main Planning Committee**:

| | |
|---|---|
| Principal | – Cik Rusnani Bt Shahruddin ( Chairman) |
| Vice Principal | - Pn Robitah binti Alang Ahmad (Vice Chairman) |
| Senior Assistants & Head of Depatments | |
| Teacher Coordinator | - Pn Fong Ee Lin |

**Sub- Committee (RPS Teachers) - 116**

i. Publicity Committee
ii. Sponsorhip Committee
iii. Invitation & Protokol Committee
iv. Programme Book & brochures Committee

v. Secretariat & Registration Committee
vi. Accomodation & Logistic Committee
vii. Exhibition Committee
viii. Reception Committee
ix. Paper Presentation Committee
x. Certificates & Souvenirs Committee
xi. Cultural Performance Committee
xii. Photography Committee
xiii. PA System & Technical Committee

**Students**:

a) 130 Students (Exhibition, Photography, Runners etc)

**Participants :**

1. SMA Negeri 1 Purworejo, Indonesia
2. Yadavindra Public School, India
3. SMKA Al-Irshad, Penang
4. Sekolah Tuanku Abdul Rahman
5. Sekolah Menengah Sains Teluk Intan, Perak
6. SMK Raja Perempuan, Ipoh, Perak

**PART II: Information about the School's Values Education Activity/Programme**

**The information of part II from no.1 to 14 should be no longer than nine (9) pages long** of A4 in total. The information should be written in Times New Roman font, 11-12 point size.

**1.** Title of the school's programme

**GO GREEN STUDENTS' CAMP – YOUTH AND ENVIRONMENT SUSTAINABILITY**

**2. Summary of the programme (a half to one page A4)**

SMK Raja Perempuan which is popularly known as Raja Perempuan School (RPS) has been recognized as a school of excellence cluster in 2009. Science is one field in addition to the school's other niche areas hockey and netball. Various programs and activities have been implemented in line with the aspiration to make RPS as a school that will develop the potential of students to the maximum level through a variety of exposure and experience and at the same time to share with the local school community and the surrounding community in an effort to put school as a benchmark .

**GO GREEN STUDENTS CAMP** is a continuation of a national program of **Students Go-Green Conference Towards Green School And Green Hostel** which was held in 2011. The Camp involves participants from overseas and local cluster schools aimed at boosting the local network aspects and linkages and cooperation towards educating the next generation through the sharing of ideas, practices, values, problem solving related to issues GOING GREEN in an effort to make our world more sustainable to live in. Through this camp it is also expected that participants can submit their ideas and perceptions about this critical issue and creative ways to address the issue.

The increased popularity of this exclusive event does not only function as an ideal instrument for the promotion of top quality paper presentations, but also serves as a high-impact event that opens discussions and talks related to the most current and pressing issue effecting the world. Thus, **Partnership** with intellectual event like GGSC profiles the potential sponsor as an organization that encourages intellectual discourses and also showcases the organization's capacity with respect to the national concern regarding this human capital development in relation to Mother Earth.

**3. Background information or reasons why the school created this programme**

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It is a platform for sharing of best practices Raja Perempuan School citizens in support of GO GREEN concept initiated by the Rotary Club of Ipoh through Organic Farming Program in 2010. Projections of the program, various GO GREEN projects have been implemented by the students of this school such as Composting, Rain Water Harvesting, Zero Plastic and Styrofoam, Solar Energy, and 3R Micro scale applications. A pilot visit to the Royal Belum using micro scale applications were also carried out in 2012 to en route GGSC.

GGSC which is based on mutual knowledge sharing and friendship provides an opportunity to students from different socio-cultural backgrounds to engage in international programs that allow them to interact, think globally and apply the knowledge gained from participating in a variety of structured activities. The program is able to provide a very large impact in building the skills of students who have high competitiveness as well as to increase discipline and self-confidence as well as creating a great personality in order to produce a dynamic generation.

Realizing this, GO GREEN STUDENTS' CAMP will include presentations of papers by delegation students from local and abroad. GOING GREEN addressing the issues and problems associated with the sustainable living for the present and future. The camp will also invite speakers to provide professional input related to government and NGO efforts towards sustainable living. Focus is on solar energy, biodiesel and biomass. Apart from these scholarly input, the related exhibition will also be held to provide more information to the target function. Moreover, this educational displays is also an effort to educate the young generation towards positive thinking and be more proactive on the environment in their daily actions and conducts.

**3. School vision, mission and core values**

School Vision:
**EXCELLENT SCHOOLS PRODUCING DISTINGUISHED GENERATIONS**

School Mission:
**DEVELOPING THE POTENTIAL OF INDIVIDUALS THROUGH QUALITY EDUCATION**

**School Core Values:**

- To produce loyal and united Malaysians
- To produce individuals who are devout, honourable, knowledgeable, competent and contented
- To provide manpower for the development needs of the nation
- To provide educational opportunities to all Malaysians

**4. Objectives/goals of the programme**

1. Promoting discussions, sharing of knowledge and practices associated to GO GREEN and ENVIRONMENT SUSTAINABILITY which are the current global environmental issues.
2. Provide knowledge, disseminate, encourage and appreciate the concept of GO GREEN and ENVIRONMENT SUSTAINABILITY.
3. Improving soft skills among conference delegates and to nurture the love towards nature.
4. Healthy harmonious ties between the countries and also among the invited schools in the country.
5. To increase potential of the conference delegates and to make them motivated, excellent and a holistic person.
6. The conference delegates are expected to influence their peers in their respective countries to become environmental activists and work in educating the community about global issues involving the environment.

**6. Values that the school aims for within the programme and/or definitions**

1.To **HONE** the potentials of grooming towering personality youth who are competitive, well disciplined and confident;
2.To **INCULCATE** the value of critical thinking and awareness of issues concerning global environment to the future leaders;
3.To **PROVIDE** an avenue for academic discourses and cultural exchange amongst the youth;
4.To **CONTRIBUTE** to the social, cultural and intellectual growth of the world's young generations;
5. To **BUILD** the bonds of friendship and collaboration between the countries

**5. Period of the time when the programme was or has been implemented**

**15 JUN 2013 – 19 JUN 2013**

**6. Activities (Actions and strategies of implementation)**

i. Sharing of knowledge through delegates' presentations related to GOING GREEN activities
ii. Delegates will be exposed to the **MICROSCALE SCIENCE** in teaching and learning in the classroom and as one approach of Going Green initiatives in teaching science.
iii. Presentations and talks by (Ministry of Energy, Green Technology and Water) on Solar Energy, Biomass and Biodiesel.
iv. Exhibitions
v. Eco-trip to Royal Belum Forest :
   - Aboriginal villages, Kejar River (Sustainability)

- Community Service at the aborigine village
- Salt lick Area
- Kelah Fish Sanctuary, Ruok River
- Rafflesia habitat
- Hands On Activities on solar energy, science microscale, biomass and biodiesel at selected locations.

**ROYAL BELUM TRIP :**

Delegates will get the opportunity to be on a tour to Royal Belum State Park. It is a world-class protected virgin jungle area. It is also the second largest protected jungle area in Peninsular after Taman Negara. The forest contains a huge magnitude of refuge for a wide array of plants and animals.

Some of the main attraction is Raflesia flowers (species: Azlanii, Cantleyii and Kerrii), Hornbills (10 species), cooling and refreshing waterfalls (Ruok, Kejar, Mes, Semelian, Ko'oi, Belangan, Tiang, Papan, Gen and etc), Salt Licks (estimated at 60 sites altogether), among the accessible site are Sira / Jenut Papan, Sira Rambai, Sira Selantan etc, wildlife (elephant, tiger, gaur, deer, barking deer, mouse deer, snakes, insects, butterflies, fishes, tapir, wild boar, monkeys, squirrels etc).

A common aboriginal or Orang Asli found within Royal Belum is the Jahai Tribe. Locations of their villages are up river in Tiang and Kejar River and remote locations inside the rain forest.

vi. Exhibition on Environment Sustainability (by selected schools)
vii. Dinner and Cultural Show

**7. Teaching strategies or pedagogies used for teaching values in the school**

**MICROSCALE SCIENCE**:

- Microscale Science is a laboratory practice that was introduced in underdeveloped countries where schools did not have proper science laboratories.
- It was found to be a very effective method of teaching scientific skills and was later introduced into the science curriculum of many countries.
- In Microscale science, the sizes of apparatus and quantities of chemicals are reduced tremendously which is environment friendly.
- This increases the speed and ease with which science experiments can be done very safely by the students in school, at home or anywhere.
- The small apparatus and very small amounts of suitable chemicals will form a permanent science kit, the size of an A4 box file.
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**Microscale Science - Keeping It Small**

**Sharing of best practices by SMK Raja Perempuan Ipoh**

Microscale is an alternative method to carry out science experiments using small and easily available apparatus. The innovations are most attractive. It becomes more challenging where by students need to improvise to do experiments and results are achieved at an even faster rate. It is easy, fast and safe. Repetition is no longer a chore. Students can learn at their own pace. With the cost of chemicals and apparatus considerably reduced and shorter preparation time, discovering science becomes fun and focused. Here in RPS, the students are exposed to microscale science in the hopes that everyone can be a scientist and enjoy making new discoveries

**Vermicomposting**

**Sharing of best practices by SMK Raja Perempuan Ipoh**

The RPS administrators have introduced vermicomposting and theme gardens to inculcate Ecological Thinking among the students. This project was started with the collaboration of University Of Science Malaysia, Pulau Pinang. They have contributed the materials needed for vermicomposting such as cow dung, worms (*Eudrilus euginea sp)*, containers and gloves. . The vermicast is used as a fertilizer for the students' theme garden which were formed in groups of 10 students. There are 10 plots of 10 different themes. The students are required to plant plants according to their theme garden The students had undergone a workshop of vermicomposting conducted by USM post graduates.

**Solar Energy – Free, Green & Sustainable**

**Sharing of best practices by SMK Raja Perempuan Ipoh**

Solar energy is a sustainable green energy that helps to maintain a balanced ecosystem. The objective of using solar energy is to create awareness among students about this renewable and sustainable energy that does not require any fuel. RPS students carried out innovative activities related to solar energy such as projects on *Solar Water Heater*, *Solar Cooker*, *Solar Car*, *Sundial*, and circuit and motor powered by solar energy.

**Sustainability of Mangrove Forests**

**Sharing of best practices by SMK Raja Perempuan Ipoh**

Mangrove forests in Peninsular Malaysia are found mainly on the sheltered coasts, estuaries, rivers and some near-shore islands. There are five major types of mangrove forest zones in peninsular Malaysia, based on the dominant species (i) the *Avicennia* - *Sonneratia* type (on pioneer shore), (ii) *Bruguiera cylindrica* type; (iii) *Bruguiera parviflora* type, (iv) *Rhizophora* type, and (v) *Bruguiera gymnorhiza* type. Mangrove forests support a diverse range of animals and plants and are important breeding ground for a vast array of organisms, besides its importance in providing invaluable goods and services both in economics and ecological system. Mangrove resources are exploited by humans for coastal protection, forestry products, fisheries, wildlife, agriculture, aquaculture, settlement, urban and industrial development, and ecotourism. There are a total of 112 mangrove forest reserves, of which 75 are located in peninsular Malaysia, 26 in Sabah and 11 in Sarawak. The Matang mangroves are identified as the best described mangrove forests in the world and is an exemplary of the sustainable managed mangrove forests.

**Organic Farming - Sustaining Life**

**Sharing of best practices by SMK Raja Perempuan Ipoh**

The demand for organic food is increasing significantly. This is due to the increasing awareness on the effect of food quality to health and the importance of sustaining environment. Organic food is obtained from sustainable farming system that does not damage the environment and no synthetic additives are added in the progress of production. To achieve the aim of sustaining life, organic farming helps to maintain the ecology at equilibrium by reducing soil erosion without the use of agro-chemicals, maximizing the use of soil nutrients through various planting methods, recycling wastes through composting and saving water by harvesting rain water. In RPS, students are exposed to organic farming in order to inculcate the idea of sustainable living. To achieve this, three science innovations were carried out in SMK Raja Perempuan Ipoh. They are: making insect repellent from lemongrass, making enzyme from fruit peel and making fertilizer from tea leaves.

**8. Programme monitoring and evaluation mechanisms and summary of results**

**MICROSCALE SCIENCE**:

i. Schedule for using microscale kits
ii. Experiments carried out by students during Teaching & Learning for subjects like Science, Chemistry and Physics. Results are recorded in their worksheets and Learning Modules (PEKA)
iii. Tests and Examinations ( Summative and Formative )

**COMPOSTING**

i. Daily/ Weekly collection of canteen waste
ii. Compost is mixed every fortnightly
iii. Compost used for organic garden after every 3 months

**ORGANIC GARDEN:**

i. Vegetables and fruits are sold to teachers, staff and community after they are harvested. Revenue generated from this harvest is used to buy products or seeds for future planting
ii. Crop rotation is carried out according to schedule
iii. Everyday students in the morning sessions( 7.30-8.00 am) and afternoon session ( 6.00-6.30pm) are required to carry out weeding , watering or harvesting at this garden. Schedule is fixed for them and every class rotates according to the schedule.

**VERMICOMPOSTING**

**i**. Weekly and Monthly Analysis carried out according to schedule

**RAINWATER HARVESTING**

**i**. Water collected from the tank near organic garden is used for watering the plants in the garden
ii. Water collected from the tank near the school building is used for cleaning the drains ,washing the walkways or etc by the cleaners.

**POWER SAVING** : Students are supposed to on fan only after 10 am.
Teachers and school administrators can only on Aircond after 10 am
(This does not apply if the weather is unbearable)

*Composting, activity at organic farming, rainwater harvesting and vermicomposting are all to create awareness among students on ecological thingking*

**9. Resources used for programme implementation**

Existing Resources in school:

i. **Organic Farm** (since 2010)
- Setting up the farm by Rotary Club of Ipoh ( advisors of Interact Club Of RPS) and sponsored by CIMB Bank
- **Composting** – School Cafeteria Waste
- **VermiComposting** – Universiti Sains Malaysia (USM) adopted RPS to implement this program by sponsoring :
  - Hands On Activity by Experts
  - Clips for Basins and 20 Basins to keep the worms
  - Worms ( 150 African Night Crawlers)
  - Cowdung (40 Kg)

ii. **Microscale Kit** (since 2011)
- Cluster School Fund

iii. **Solar Panel** (since 2012)
iv. **Rainwater harvesting Tanks**

**10. List of partners, local government bodies, companies or development agencies who have participated in the planning and implementation, including their roles in the activity/programme.**

| Name of Partners | Roles or contributions |
|---|---|
| a) National Education Department ( Cluster School) | Sponsorships |
| b) State & District Education Department | Key Note Speech for Opening & Closing Ceremony |
| c) Department of Environment | Exhibition |
| d) Forestry Department | Sponsorship of Boat Trip & Rangers for Eco Trip |
| e) Department of Orang Asli Development | Royal Belum Trip |
| f) Ministry of Energy, Green Technology and Water | Keynote Address & Sponsorship |
| g) Centre of Renewable Energy Efficiency, USM | Paper presentation |
| h) Tunku Abdul Razak university | Paper presentation |
| i) MARA Technology University | Paper presentation |
| j) Soka Gakkai | Exhibition |

| | |
|---|---|
| k) Centre of Environment, Technology & Development Malaysia (CETDEM) | Exhibition |
| l) Centre for Education and Training in Renewable Energy and Energy Efficiency (CETREE) | Exhibition & Talk |
| m) Wisdom Solar Sdn. Bhd. | Exhibition |
| n) Individuals and Private Companies | Sponsorships |
| o) International participants from India & Indonesia, Local participants from SMKA Al-Irshad (Kepala Batas), SEMESTI (Teluk Intan), STAR (Ipoh) & RPS (Ipoh) | Delegates of camp |
| p) Neighbouring Schools In Ipoh, Perak | Visit Exhibition sites & listen to paper presentations |
| q) RPS Parents Teachers Association ( PTA) | Planning, Overall Active Participation and Sponsorship |
| r) CIMB Bank | Sponsorhip (RM32000) in 2010 for setting up Organic Garden under the guidance of Rotary Club of Ipoh |

**11. Benefits/Impacts/ positive outcomes of the activity/programme to teachers, students, parents and the community**

***Short Term Impact***

1. This camp serves as a platform to build and strengthen the bonds of friendship and collaboration between the countries and students involved . Besides that, it also serves as mutual interaction in improving the performance individually and in groups through participation in various activities organized
2. Students to be more creative and critical thinking in knowledge sharing sessions and will be able to apply it for beneficial reasons in their places.
3. Indirectly, the students will learn a variety of forms and patterns of community, socio-cultural life and customs of various countries through their interaction and cultural activities

***Long-Term Impact***

i. Public awareness of the environment and ability to emotionally understand the surrounding world, including the laws of the natural environment, sensitivity to all the changes occurring in the environment, understanding of cause-and-effect relationships between the quality of the environment and human behaviour, an understanding of how the environment works as a system, and a sense of responsibility for the common heritage of the Earth, such as natural resources - with the aim of preserving them for future generations

ii. Through this camp students can build a superior competency that has high competitiveness as well as to increase discipline and self-confidence and develop a great personality in order to create a generation of dynamic in line with the master plan for educational development.

iii. Improving student social skills and leadership skills through the exchange of ideas and interaction among students

iv. Provide opportunities for students to engage in international programs that allow them to think globally and apply the knowledge acquired in accordance with the cultural norms that mold is the underlying principle of this program

v. Enhance the image of the school to achieve the status of a high-performing schools

**12. Proof of achievement from students, teachers and the community**

1. The program has been successful in making the camp participants to adopt 'GO GREEN and ENVIRONMENT sustainability, thus helping to promote the sharing of knowledge among student leaders about the importance of caring and being concerned about environmental issues.
2. It could also trigger green thinking and implement environmentally friendly actions towards creating an outstanding personality among student leaders.
3. Students are more confident in presenting paper in public
4. Linkages and Networking with participated schools on ideas and social communication through Facebook. https://www.facebook.com/GGSC2013 and other modes of communication

**GO GREEN PROGRAMMES ADOPTED IN SCHOOL SUCCESSFULLY:**

i. Paperless System for teachers and students:-
- ❖ Erecord – Teachers have stopped using hard cover record book since 2010
- ❖ Joomla – Online programme for cocurriculum reports, minutes of meeting etc.
- ❖ Moodle – Online programme for paperless worksheet prepared by students and teachers

ii. Eco canteen ( Teachers, Students and Outsiders)
- ❖ No Plastic and Stryofoam in Canteen ( all reusable items and utensils)
- ❖ Canteen Waste used for Composting

iii. Zero Dustbin ( students)
- ❖ Recycling boxes in every class for discarded papers

**13. Plan for sustainability and plan for the future**

**Plan for sustainability**:

1. Implementing partnerships with industry, government agencies, local government and community organisations to achieve more efficient use of their resources
2. Reducing school waste to landfill by 50 per cent
3. Conserving water use in schools by 15 per cent
4. Improving energy effi ciency in schools by up to 30 per cent through behaviour change, solar power and other innovative solutions
5. Increasing biodiversity in the school ground

**Plan for the future:**

The principal has lined a few plans for the future;

i. Hosting GGSC as an annual event with more participation from local and abroad schools
ii. All the Go Green projects in school will be continued and expanded if funds and other resources from Government and NGO's are available.
iii. Students and teachers from RPS will be sent to other schools locally and abroad for sharing of best practices and to strengthen bilateral relationship between schools –
   Local- *Sharing of ideas with SEMESTI teachers on 6 Sept 2013*
   Abroad- *RPS is at the moment planning to send its team and teachers to Yadavindra Public School, India on 18 and 19th October 2013 for a debate competition(23rd Col. Frank Von Goldstein Memorial Debate) in response to invitation from that school which participated in GGSC*
iv. Teachers will present papers related to environment sustainability if it is required at Ministry level.
v. Incorporate in school curriculum

**14. List of attachments such as a copy of the school plan, learning/ teaching materials, samples of student worksheet, manual, etc. If the attached materials are in the local language, please provide a brief description in English language.**

| | |
|---|---|
| Attachment 1) | - School Plan |
| Attachment 2) | – Go Green website : http://smkrajaperempuanipoh.com/ggsc2013/index.html |
| .Attachment 3) | - Programme Book |
| Attachment 4) | -Teaching Module on Solar Circuit using Microscale Kit |
| Attachment 5) | -Teaching Module on Vermicomposting |
| Attachment 6) | -Teaching Module on Food Test on Carbohydrate using Microscale Kit |

**15. Photos related to the activity/programme (Maximum of 10 photos with captions in English)**

Photo1

**(REGISTRATION OF CAMP PARTICIPANTS)**

Photo 2

**ICE BREAKING SESSIONS**

Photo 3

**ECO TRIP TO ROYAL BELUM**

Photo 4

**COMMUNITY SERVICE WITH SG. KEJAR ABORIGINECHILDREN AT ROYAL BELUM**

Photo 5

**OPENING CEREMONY OF GGSC CAMP**

Photo 6



**PAPER PRESENTATION ON SHARING OF BEST PRACTICES BY PARTICIPANTS**

Photo 7


**HANDS ON ACTIVITIES DURING THE CAMP**

(Caption in English)

Photo 8

**EXHIBITION SITES**

Photo 9


**CULTURAL NIGHT**

Photo 10

**ORGANIC FARMING**

**COMPOSTING**

**SOLAR PANEL**

**RAIN WATER HARVESTING**

**VERMICOMPOSTING**

**GO GREEN PROJECTS PRACTISED IN SCHOOL**

**PREPARED BY,**

**…….**
**MS. N. SUSHIL KAUR**
**GGSC COMMITTEE MEMBER**