

# GARISPANDUAN SREP

## *SREP GUIDELINE*

Pusat SREP  
Suruhanjaya Tenaga

**1.       PENGENALAN**

*INTRODUCTION*

## PENGENALAN

Kerajaan telah melancarkan Program Pembangunan Janakuasa Kecil Tenaga Yang Boleh Diperbaharui (Renewable Energy), pada 11 Mei 2001. Pelancaran Program ini adalah merupakan antara usaha-usaha Kerajaan untuk menggalak dan meningkatkan penggunaan sumber Tenaga Yang Boleh Diperbaharui di dalam penjanaan elektrik. Ia adalah selaras dengan persetujuan Kerajaan menjadikan Tenaga Yang Boleh Diperbaharui sebagai sumber tenaga kelima di bawah Dasar Pelbagaian Bahan Api negara. Ini adalah terkandung di dalam matlamat-matlamat Rangka Rancangan Jangka Panjang Ketiga 2001 - 2010 (OPP3) dan Rancangan Malaysia Kelapan (RMK8).

Melalui Program ini, janakuasa-janakuasa kecil yang menggunakan sumber tenaga tersebut boleh memohon untuk menjual elektrik kepada utiliti melalui Sistem Grid Pengagihan. Dari segi perjanjian pembelian, pengusaha-pengusaha projek di bawah Program ini adalah dibenarkan berunding terus dengan pihak Utiliti yang berkenaan, termasuklah dari aspek harga jualan, berdasarkan kepada konsep '*willing-seller, willing buyer*' serta '*take and pay*'. Pengeluar elektrik dari sumber Tenaga Yang Boleh Diperbaharui akan diberi lesen bagi tempoh 21 tahun, bermula dari tarikh loji memulakan operasi. Penggunaan semua jenis sumber Tenaga Yang Boleh Diperbaharui, termasuk biomass, biogas, '*municipal waste*', solar, mini-hidro dan angin, adalah dibenarkan di bawah Program ini.

Kapasiti maksimum bagi loji janakuasa kecil menggunakan sumber Tenaga Yang Boleh Diperbaharui yang direkabentuk bagi penjualan kuasa kepada grid adalah 10MW. Dari segi saiz, sesebuah loji janakuasa boleh melebihi 10 MW, tetapi kapasiti kuasa yang dibenarkan bagi dieksport kepada grid pembahagian tidak boleh melebihi 10 MW.

Bagi menyelaraskan pelaksanaan strategi Kerajaan untuk mempertingkatkan pembangunan Tenaga Yang Boleh Diperbaharui sebagai sumber tenaga kelima negara, sebuah Jawatanakuasa Khas Tenaga Yang Boleh Diperbaharui (SCORE) telah diwujudkan di Kementerian Tenaga, Komunikasi dan Multimedia.

Sebuah Urusetia atau Pusat Setempat bagi Program tersebut telah juga diwujudkan di Suruhanjaya Tenaga bagi memudahkan penyertaan pihak industri dalam Program ini.

Pengusaha-pengusaha yang berminat boleh memohon dengan menggunakan Borang Permohonan yang boleh didapati daripada Pusat Setempat tersebut di alamat berikut:

Suruhanjaya Tenaga  
Tingkat 19, Menara Dato' Onn, PWTC  
41, Jalan Tun Ismail  
50480 Kuala Lumpur.  
(U.P.: Pusat SREP)  
Tel: (03) 4047 5441 / 54439 / 5432  
Fax: (03) 4045 7228

Maklumat-maklumat tambahan, khususnya berkaitan teknologi dan sumber-sumber RE juga boleh didapati dari agensi-agensi berikut:

1. Kementerian Tenaga, Komunikasi dan Multimedia  
Tingkat LG & G  
Wisma Damansara  
Jalan Semantan  
50668 Kuala Lumpur.  
(u.p. Bahagian Tenaga)
2. Ketua Pegawai Eksekutif  
Pusat Tenaga Malaysia  
Blok C, Kompleks Petronas Research & Scientific Services  
Lot 3288 & 3289, off Jalan Ayer Itam  
Kawasan Perindustrian Bangi  
43000 Kajang  
Selangor Darul Ehsan  
(u.p. En. Ahmad Zairin Ismail  
Bahagian Emerging Energy Technology R&D Management Services)  
Tel: (03) 8925 2233/ 3379/ 3146  
Fax: (03) 8925 2806
3. Presiden & Ketua Eksekutif  
SIRIM Bhd., 1, Persiaran Dato' Menteri  
Section 2, 40911 Shah Alam  
Selangor Darul Ehsan  
(u.p. En. B. G. Yeoh / En. Hamdan bin Mokhtar  
Pusat Teknologi Alam Sekitar dan Tenaga)  
Tel: (03) 5544 6000 / 6550  
Fax: (03) 5544 6590
4. Institut Penyelidikan Perhutanan Malaysia  
Kepong  
52100 Kuala Lumpur  
(u.p. Dr. Hoi Why Kong  
Bahagian Pengurusan Perniagaan)  
Tel: (03) 62797000  
Fax: (03) 62797865

5. Lembaga Kelapa Sawit Malaysia  
6, Persiaran Institusi  
Bandar Baru Bangi  
43000 Kajang  
Selangor Darul Ehsan  
(u.p. *Dr. Ir. Ma Ah Ngan*  
*Penyelidikan Kejuruteraan Dan Pemprosesan*)  
Tel: (03) 8925 9155 / 9775  
Fax: (03) 8925 9446

**2. GARIS PANDUAN UNTUK PENGGALAKAN  
SREP**

*GUIDELINE ON PROMOTION OF SREP*

## GARIS PANDUAN UNTUK PENGGALAKKAN SREP

### PROGRAM JANAKUASA KECIL TENAGA YANG BOLEH DIPERBAHARUI (SREP) BAGI MEMPROMOSI PENJANAAN KUASA TENAGA YANG BOLEH DIPERBAHARUI

*“SMALL RENEWABLE ENERGY POWER PROGRAMME (SREP)”*

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#### **Pembangunan Loji Elektrik Kecil Tenaga Yang Boleh Diperbaharui** **Development of Small Renewable Electricity Plants**

Program Janakuasa Kecil Tenaga Yang Boleh Diperbaharui adalah satu inisiatif oleh Jawatankuasa Khas bagi Tenaga Yang Boleh Diperbaharui (SCORE) bertujuan menyokong strategi Kerajaan dalam mempromosikan pembangunan tenaga yang boleh diperbaharui (RE) sebagai sumber bahan api kelima.

SREP akan memberi pengalaman berharga yang dapat dimanfaatkan dalam pembangunan dan pemantapan strategi-strategi *‘renewable energy’*(RE), ke arah pencapaian sumbangan RE yang *‘significant’* kepada campuran bahan api penjana kuasa dalam jangkamasa panjang.

Fokus utama SREP adalah untuk memastikan kelancaran dalam pelaksanaan penyambungan loji-loji kecil dari sumber RE kepada sistem grid.

Dalam meningkatkan pembangunan usaha menyambung loji kecil RE kepada sistem grid, SCORE akan menggunakan Garispanduan berikut sepanjang fasa permulaan:

1. SREP adalah meliputi semua jenis sumber tenaga yang boleh diperbaharui, termasuk biomas, biogas, *‘municipal waste’*, solar, mini-hidro dan angin.
2. Pengusaha projek dikehendaki berunding terus dengan pihak Utiliti yang berkenaan mengenai *‘Renewable Electricity Purchase Agreement’*, termasuk harga jualan di atas dasar *‘willing-seller, willing buyer’*, berlandaskan *‘take and pay’*.
3. Pengeluar elektrik RE akan diberi lesen bagi tempoh 21 tahun, bermula dari tarikh loji memulakan operasi.
4. Pengeluar elektrik RE hendaklah menanggung semua kos bagi penyambungan kepada grid, pengukuhan sistem Utiliti yang berkenaan (kabel elektrik, *‘transformer’*, *‘switchgears’* dan peralatan keselamatan yang lain) dan pemasangan meter. Sambungan kepada pembahagian grid adalah pada aras voltan diantara 11-33 kV.
5. Lokasi bagi loji janakuasa kecil RE haruslah terletak di dalam lingkungan 10 km dari *‘interconnection point’* yang terdekat. Pengecualian bagi projek janakuasa hidro.

6. Tiada sebarang '*stand-by charges*' yang akan dikenakan. Walaubagaimanapun, jika pengusaha projek memerlukan '*back energy*', ia akan dikenakan mengikut tarif semasa.
7. Keutamaan akan diberikan kepada penjanaan kuasa melalui teknologi '*co-generation*'.
8. Kapasiti maksimum bagi loji janakuasa kecil RE yang direkabentuk bagi penjualan kuasa kepada grid adalah 10 MW. Dari segi saiz, sesebuah loji janakuasa boleh melebihi 10 MW, tetapi kapasiti kuasa yang dibenarkan bagi dieksport kepada grid pembahagian tidak boleh melebihi 10 MW.
9. Loji janakuasa kecil RE mesti telah sedia bagi penyambungan kepada grid dalam tempoh 12 bulan selepas daripada tarikh mendapat kelulusan bagi penyambungan grid. Ini boleh digunapakai oleh loji yang sedia ada yang ingin disambungkan kepada grid. Walaubagaimanapun, bagi cadangan untuk membina loji janakuasa kecil RE yang baru (atau bagi cadangan untuk '*re-powering*') di mana memerlukan pemasangan '*boiler*' atau sistem penjana turbo yang baru, tempoh memulakan operasi hendaklah dalam tempoh masa 24 bulan. Tempoh bagi permulaan operasi akan dikira dari tarikh *Renewable Electricity Purchase Agreement (REPA)* ditandatangani antara pengusaha dan pihak Utiliti.
10. Loji janakuasa kecil RE mestilah menepati segala peraturan alam sekitar yang ditetapkan oleh Jabatan Alam Sekitar (JAS), dan menjadi bertanggungjawab pengusaha projek untuk mendapatkan kelulusan yang berkenaan dari JAS, dan sebarang kelulusan lain yang di tetapkan oleh undang-undang.
11. Sekurang-kurangnya 30% ekuiti dalam projek janakuasa RE hendaklah dipegang oleh Bumiputera. Syarikat/agensi asing dibenarkan menyertai dalam projek SREP dengan penyertaan had ekuiti maksima sebanyak 30%.

**JAWATANKUASA KHAS PROGRAM PEMBANGUNAN JANAKUASA TENAGA YANG  
BOLEH DIPERBAHARUI (SCORE)**

**Kementerian Tenaga, Komunikasi dan Multimedia**

**Kuala Lumpur.**

**15 April 2002**

## **GUIDELINES FOR THE PROMOTIONAL OF SREP**

### **SMALL RENEWABLE ENERGY POWER PROGRAMME (SREP) FOR THE PROMOTION OF RENEWABLE ENERGY POWER GENERATION**

#### **Development of Small Renewable Electricity Plants**

The Small Renewable Energy Power Programme (SREP) is an initiative of the Special Committee on Renewable Energy (SCORE) aimed at supporting the Government's strategy to intensify the development of Renewable Energy (RE) as the fifth fuel resource. SREP will provide valuable experience that can be utilised to develop and fine-tune RE strategies to achieve a significant share of RE in the fuel mix of the power generation industry in the long-term. SREP's primary focus will be to facilitate the expeditious implementation of grid-connected renewable energy resource-based small power plants.

During this initial phase, SCORE will adopt the following Guidelines in promoting the development of grid-connected small RE power plants:

1. SREP shall apply to all types of renewable sources of energy, including biomass, biogas, municipal waste, solar, mini-hydro and wind.
2. Project developers will have to negotiate the Renewable Electricity Purchase Agreement with the relevant Utility, including the selling price on a willing-seller, willing buyer basis, based on take and pay.
3. The RE electricity producer shall be given a licence for a period of 21 years, to be effective from the date of commissioning of the plant.
4. RE electricity producers will be responsible for all the costs of the grid-connection, the relevant Utility system reinforcement (electric cables, transformer, switchgears and other protection equipment) and the necessary metering installation. The distribution grid interconnection shall be made at a voltage between 11 - 33 kV.
5. The small RE power plant shall be located within a distance of 10km from the nearest interconnection point. Exception is given for hidro power generation project.
6. No stand-by charges shall be levied. However, if back energy is requested by project developers, it will be charged accordingly with the prevailing tariff.

7. Power generation through co-generation technology shall be given special preference.
8. Maximum capacity of a small RE power plant designed for sale of power to the grid shall be 10 MW. A power plant can be more than 10 MW in size, but the maximum capacity that will be allowed for power export to the distribution grid will be no more than 10 MW.
9. The small RE power plant must be ready for grid-connection within 12 months from the date of approval for such grid connection. This is applicable for existing plant that wish to connect to the grid. However, in the case of proposals for setting up new RE power plants (or where “re-powering” is proposed) that require the installation of new boilers or turbo-generator systems, the plant shall be commissioned within 24 months. The stipulated period of construction until commissioning shall be counted from the date of signing of the Renewable Electricity Purchase Agreement (REPA) between the developer and the utility.
10. The RE power plant must meet all environmental regulations set by the Department of Environment (DoE), and the developer of the project is responsible for obtaining the necessary approval of DoE, and any other statutory approvals required.
11. The minimum of 30% equity in an RE power plant project must be by Bumiputera shareholder(s). Foreign agency/company is allow to participate in SREP project with maximum participation equity of 30%.

**SPECIAL APPROVAL COMMITTEE SMALL RENEWABLE ENERGY POWER PROGRAM**

**Ministry of Energy, Communications and Multimedia**

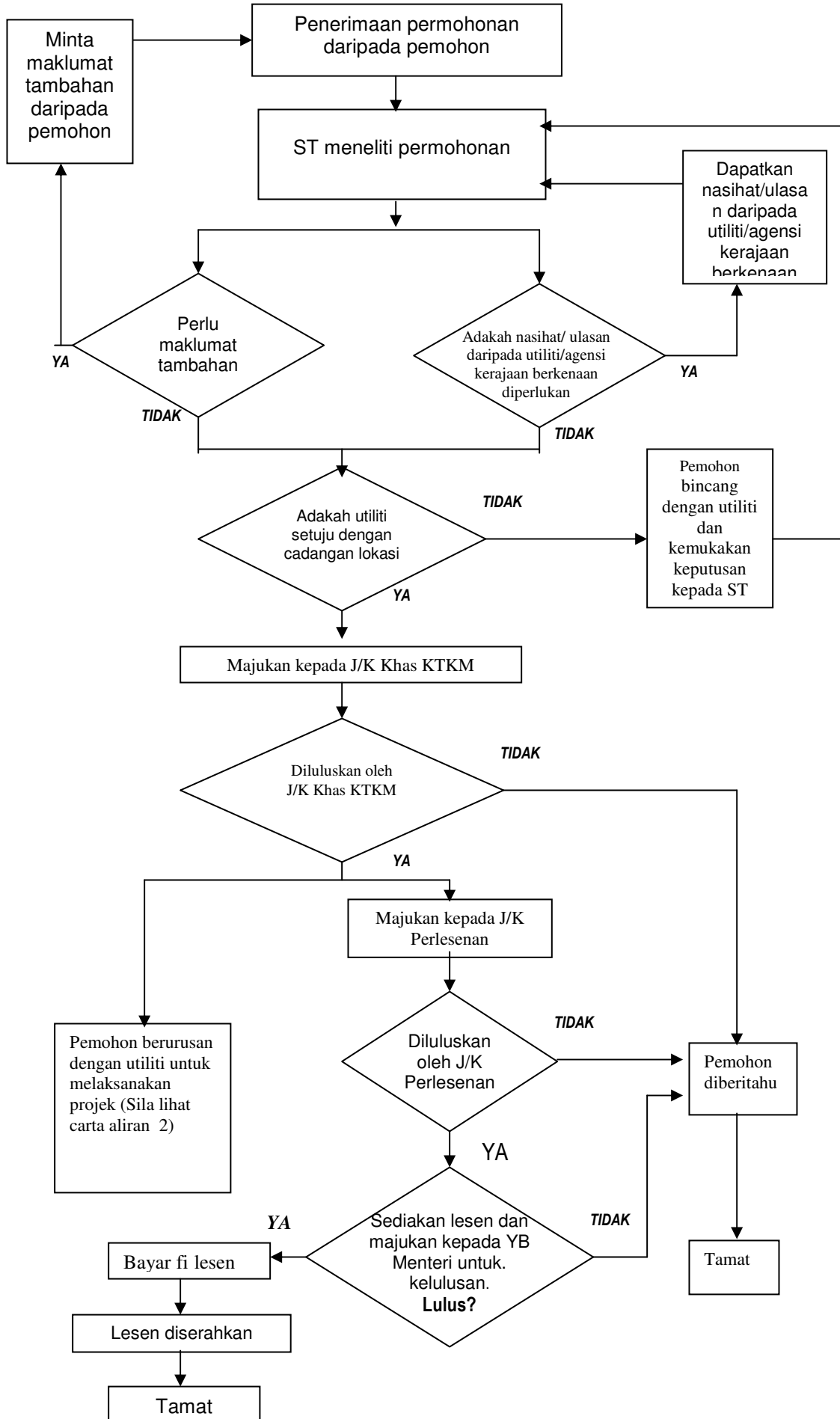
**Kuala Lumpur**

**15 April 2002**

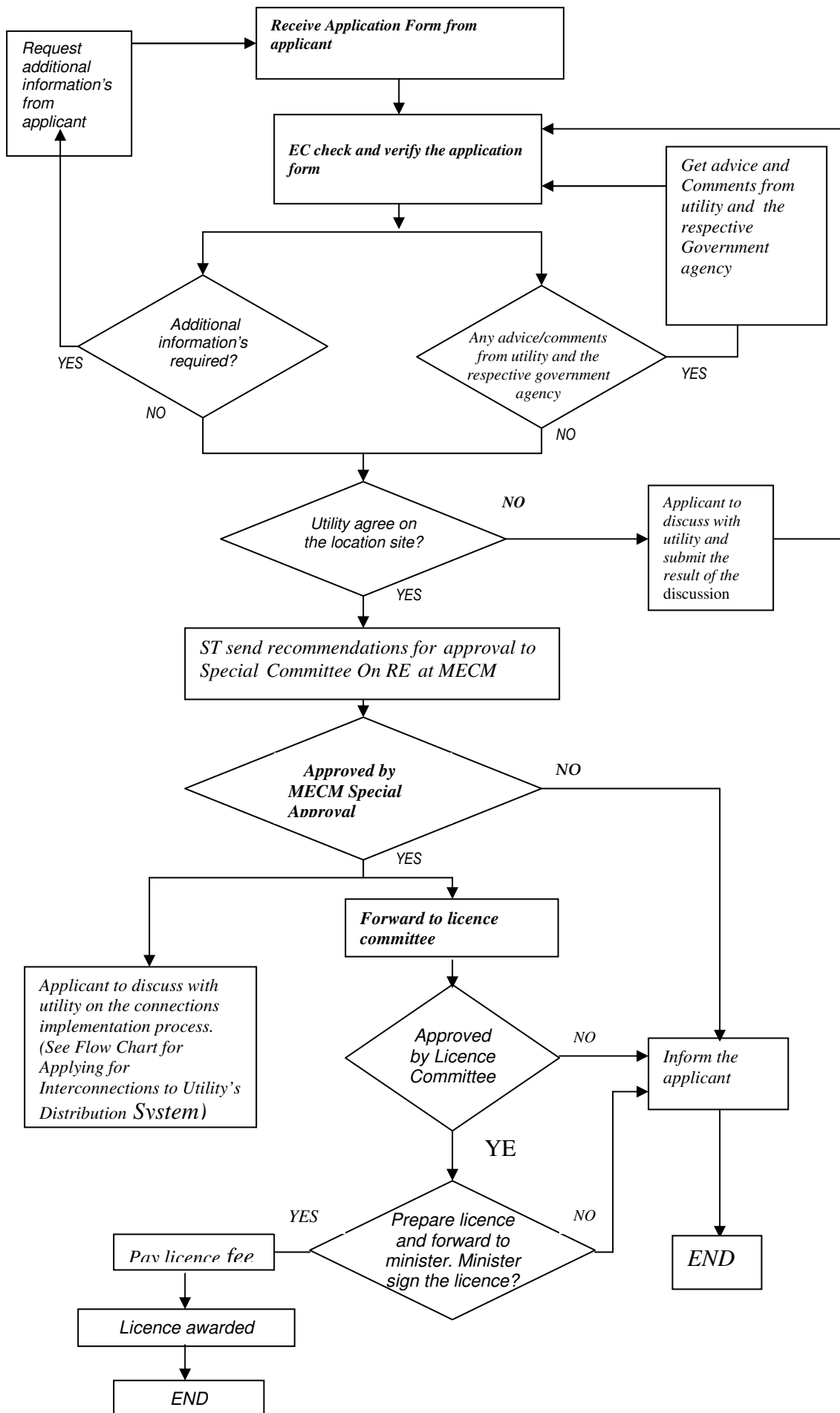
**3. CARTA ALIRAN PEMROSESAN  
PERMOHONAN SREP**

*FLOW CHART OF PROCESSING OF SREP  
APPLICATION*

# CARTA ALIRAN PEMROSESAN PERMOHONAN SREP



# FLOW CHART FOR PROCESSING FOR SREP APPLICATION



**4. CARTA ALIRAN PERMOHONAN  
PENYAMBUNGAN SREP KEPADA  
SISTEM PENGAGIHAN UTILITI**

*FLOW CHART OF APPLYING FOR  
CONNECTION TO UTILITY'S  
DISTRIBUTION SYSTEM*

*(This flow chart is in power point as attached in  
sparate file)*

**5. SOAL JAWAB MENGENAI SREP**

*QUESTION AND ANSWER ON SREP*

# QUESTION AND ANSWER ON SREP

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1. Is there a minimum offtake requirement by the Utility of electricity generated from biomass?

**Answer : No minimum off take.**

2. Any requirement from the Utility for minimum guarantee of units of electricity from biomass to grid? What are the penalties, if any, for not dispatching the minimum to the grid?

**Answer : There will be no minimum guarantee of units of electricity as the transaction is based on energy charge payment i.e. Pay as you take basis.**

3. What are the requirements from the Utility on pooling reserve from our plant, if any?

**Answer : No requirement for pooling of reserve from your plant, as it is based on energy payment only.**

4. Is there any pass through cost component for electricity generation from biomass incineration that is acceptable to the Utility?

**Answer : There will not be any pass through cost component.**

5. What is the typical duration for power purchase agreement with the Utility?

**Answer : Duration is negotiable.**

6. What is the expected base price for dispatch of electricity to the grid in 2002 and beyond?

**Answer : Base price is negotiable.**

7. Are there different base prices for dispatch of electricity for peak and non-peak hours? If so, what are the different prices and when are the defined peak and non-peak hours?

**Answer : Base price and differences are negotiable too. Normally TNB peak is between 8 am to 10 pm.**

8. What are all the connection charges that will be imposed by the Utility?

**Answer : Connection charge is not relevant as this is not a new supply application.**

9. What will be the approved location to dispatch the electricity to the Utility?

**Answer : Depends on the technical feasibility study. Among crucial criteria are voltage drop, Utility's captive load and system load flow studies.**

10. What are all the requirements from the Utility for connecting to the grid?

**Answer : As per TNB Interconnection Technical Guidelines At Medium Voltage. Please contact TNBD/SESB for a sample copy of the Guidelines.**

11. Any compulsory insurance cover required by the Utility for dispatch of electricity to the grid?

**Answer : Generally, it is not necessary for small RE producers i.e. 5 MW below. However, situation may be applicable for larger RE producers.**

12. Could we have information on all the terms and conditions of Power Purchase Agreement with the Utility?

**Answer : Please contact TNBD/SESB for a sample copy of the Renewable Electricity Purchase Agreement (REPA).**

13. Is the Power Purchase Price already finalized?

**Answer : Price is negotiable between the Utility and the RE producers.**

14. When will we be allowed to start the project?

**Answer : Upon obtaining approval from the Special Committee on Renewable Energy (SCORE) and relevant statutory approvals. Discussions with the Utility will follow subsequently.**

15. Will the government co-finance the project/OR

**Answer : SREP is being promoted as a private sector initiative. The Government will not be providing any co-financing support.**

16. Are there any special funding for this project/OR

**Answer : None**

17. Will there be a "low-interest" financial assistance?

**Answer : None**

18. Will licensing be open to all those who has the capability to generate Grid-connectable quality power or will it be restricted to only a few selected players?

**Answer : No restrictions will be placed, as long as the project developer can show technical and economic feasibility, and can negotiate a REPA with the Utility on a willing seller willing buyer basis.**

**6. GARIS PANDUAN DAN CARA-CARA UNTUK MEMOHON GALAKAN CUKAI UNTUK PROJEK PENJIMATAN TENAGA, KECEKAPAN TENAGA DAN PENJANAAN TENAGA MENGGUNAKAN BIOMASS**

*GUIDELINE AND PROCEDURE FOR APPLYING TAX INTENSIVE FOR ENERGY CONSERVATION, ENERGY EFFICIENCY AND POWER GENERATION USING BIOMASS PROJECTS*

## **INCENTIVE FOR UTILISING BIOMASS AS A NEW SOURCE OF ENERGY**

### **Present Position**

Currently, the Government is adopting a four-fuel strategy that is water, oil, gas and coal to generate electricity supply in the country. To further diversify the energy sources, the Government is promoting biomass as a new energy source which is renewable and also environment friendly.

### **Proposal**

To encourage the generation of energy using biomass, it is proposed that companies which undertake such activity be given the following incentives:

- (i) income tax exemption of 70% on statutory income for a 5 years or Investment Tax Allowance of 60% of capital expenditure incurred within a period of 5 years and to be utilized against 70% of the statutory income; and
- (ii) import duty and sales tax exemption on machinery and equipment which are not produced locally. For machinery and equipment which are produced locally, sales tax exemptions will be given.

This incentive is applicable for applications received from 28 October 2000 until 31 December 2005, on condition that the company implements the project within one year from the date of approval.

**GARIS PANDUAN DAN PROSEDUR BAGI MEMOHON GALAKAN CUKAI DI  
BAWAH AKTA PENGGALAKAN PELABURAN 1986  
BAGI MENYEDIAKAN PERKHIDMATAN PENJIMATAN PENGGUNAAN  
TENAGA**

*GUIDELINES AND PROCEDURE FOR APPLYING TAX INCENTIVE UNDER  
THE PROMOTION OF INVESTMENTS ACT 1986  
FOR PROVIDING ENERGY CONSERVATION / ENERGY EFFICIENCY  
SERVICES*

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**I        PENGENALAN**  
*INTRODUCTION*

Syarikat-syarikat yang bercadang untuk menjalankan aktiviti perkhidmatan kontrak prestasi bagi penjimatan penggunaan tenaga adalah layak untuk memohon galakan Taraf Perintis selama 5 tahun atau Elaun Cukai Pelaburan sebanyak 60% daripada perbelanjaan modal yang layak yang dilakukan dalam tempoh 5 tahun yang akan ditolak daripada 70% pendapatan berkanun bagi setiap tahun taksiran. Galakan ini adalah bagi permohonan yang diterima mulai 28 Oktober 2000 hingga 31 Disember 2002 dan syarikat dikehendaki menjalankan perkhidmatan dan/atau melaksanakan projek berkenaan dalam tempoh 1 tahun daripada tarikh galakan diluluskan.

*Companies intending to undertake performance contracting services activity to conserve usage of energy are eligible to apply for Pioneer Status for 5 years or Investment Tax Allowance of 60% on qualifying capital expenditure incurred within a period of 5 years to be utilized against 70% of the statutory income for each year of assessment. This incentive is applicable for applications received from 28 October 2000 until 31 December 2002 and the service and/or project must be implemented within 1 year of approval.*

**II        KRITERIA KELAYAKAN**  
*CRITERIA FOR ELIGIBILITY*

- (i) Syarikat mestilah diperbadankan di Malaysia di bawah Akta Syarikat, 1965  
*The company must be locally incorporated under the Companies Act, 1965.*
  
- (ii) Syarikat hendaklah menjalankan aktiviti perkhidmatan kontrak prestasi bagi penjimatan penggunaan tenaga yang mana definisi dan skop bagi aktiviti tersebut adalah seperti di Lampiran 1.  
*The company must carry out performance contracting services activity to conserve the usage of energy. Definition and scope for activity is as in Appendix 1.*

### **III PERBELANJAAN MODAL YANG LAYAK** *QUALIFYING CAPITAL EXPENDITURE*

Bagi Elaun Cukai Pelaburan, perbelanjaan modal yang layak ditakrifkan sebagai perbelanjaan modal yang dilakukan ke atas bangunan, loji dan jentera yang digunakan bagi tujuan aktiviti-aktiviti berhubung dengan penjimatan penggunaan tenaga.

*For the purpose of Investment Tax Allowance in relation to EC/EE services, qualifying capital expenditure means capital expenditure incurred on building, plant and machinery used for the purpose of EC/EE activities.*

### **IV PROSEDUR BAGI MEMOHON GALAKAN CUKAI** *PROCEDURE FOR APPLYING TAX INCENTIVE*

- (i) Syarikat-syarikat yang bercadang untuk menyediakan perkhidmatan penjimatan penggunaan tenaga hendaklah mengemukakan Borang EE (2001).

*Companies intending to provide energy conservation/energy efficiency services are required to submit their applications using Form EE (2001).*

- (ii) Permohonan hendaklah dikemukakan dalam empat (4) salinan kepada:

*The application should be submitted in four (4) copies to:*

Ketua Pengarah  
Lembaga Kemajuan Perindustrian Malaysia  
Plaza Sentral, Jalan Stesen Sentral 5  
Kuala Lumpur Sentral  
50470 Kuala Lumpur  
(Untuk perhatian : Pengarah,  
Bahagian Industri Tekstil, Galian dan Pelbagai)

*The Director General  
Malaysian Industrial Development Authority  
Plaza Sentral, Jalan Stesen Sentral 5  
Kuala Lumpur Sentral  
50470 Kuala Lumpur  
(For the attention of : Director,  
Textiles, Minerals and Miscellaneous Industries Division)*

**DEFINISI DAN SKOP BAGI AKTIVITI PERKHIDMATAN KONTRAK  
PRESTASI**  
*DEFINITION AND SCOPE FOR PERFORMANCE CONTRACTING SERVICES  
ACTIVITY*

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Perkhidmatan Kontrak Prestasi

Melaksanakan bagi pihak klien projek-projek 'Energy Conservation / Energy Efficiency (EC/EE)\* (termasuk kewangan), atas dasar mendapatkan semula kesemua kos daripada persetujuan pembahagian penjimatan EC/EE dalam tempoh kontrak yang ditetapkan berdasarkan kontrak prestasi. Jika perkhidmatan kontrak prestasi yang dijalankan melibatkan perkhidmatan seperti rundingan dan khidmat nasihat (audit tenaga, latihan, perkhidmatan pengurusan tenaga, kajian feasibiliti projek) serta pengurusan projek (rekabentuk dan menender, perolehan, pengawasan dan memulatugas projek), perkhidmatan-perkhidmatan tersebut juga boleh diambilkira, untuk galakan cukai).

*Performance Contracting Services*

*Undertake the EC/EE projects on behalf of the client (including financing), on the basis of recovery of all costs from agreed sharing of EC/EE savings over a specified contract period based on performance contract. If the performance contracting services undertaken involve services like consultancy and advisory services (energy audit, training, energy management services, feasibility studies project) and project management (design and tendering, procurement, supervision and commissioning of the project), these services can also be taken into account for consideration of tax incentive.*

## INCENTIVE FOR CONSERVATION OF ENERGY

### *Present Position*

*Currently activities related to energy conservation are not eligible for tax incentives.*

### *Proposal*

*As a measure to reduce operating costs while promoting environmental preservation it is proposed that the following tax incentives be given:*

- (A) *Companies providing energy conservation services*
  - (i) *Income tax exemption of 70% on statutory income for 5 years or Investment Allowance of 60% of capital expenditure incurred within a period of 5 years ad to be utilised against 70% of the statutory income;*
  - (ii) *Import duty and sales tax exemption on equipment used in the project provided that the equipment is not available locally. For equipment that is produced locally, sales tax exemption will be given.*

*This incentive is applicable for applications received from 28 October 2000 until 31 December 2002 and insure project must be implemented within one year of approval.*

- (B) *Companies which incur capital expenditure for conserving their own energy consumption*
  - (i) *Accelerated Capital Allowance on related equipment to be fully written off within a period of 3 years; and*
  - (ii) *Import duty and sales tax exemption on equipment that is not produced locally. For equipment that is produced locally, sales tax exemption will be given.*

*The incentive in item B (i) above is effective from year of 2001 and for item B (ii) is effective from 28 October 2000.*

**INCENTIVE FOR UTILISING BIOMASS  
AS A NEW SOURCE OF ENERGY**

*Present Position*

*Currently, the Government is adopting a four fuel strategy that is water, oil, gas and coal to generate electricity supply in the country. To further diversify the energy sources, the Government is promoting biomass as a new energy source which is renewable and also environment friendly.*

*Proposal*

*To encourage the generation of energy using biomass, it is proposed that companies which undertake such activity be given the following incentives:*

- (i) income tax exemption of 70% on statutory income for 5 years or Investment Tax Allowance of 60% of capital expenditure incurred within a period of 5 years and to be utilised against 70% of the statutory income; and*
- (ii) import duty and sales tax exemption on machinery and equipment which are not produced locally. For machinery and equipment which are produced locally, sales tax exemptions will be given.*

*This incentive is applicable for applications received from 28 October 2000 until 31 December 2005, on condition that the company implements the project within one year from the date of approval.*

PERMOHONAN GALAKAN CUKAI DI BAWAH AKTA PENGGALAKKAN  
PELABURAN 1986 BAGI MENGELUARKAN TENAGA DENGAN  
MENGUNAKAN BIOMASS  
*APPLICATION FOR TAX INCENTIVE UNDER THE PROMOTION OF  
INVESTMENTS ACT 1986 TO GENERATE ENERGY USING BIOMASS*

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**Permohonan untuk : [ tandakan (√) di ruang berkenaan ]**

*Application for: [ tick (√) whichever is relevant ]*

**(i) Taraf Perintis** ( )  
*Pioneer Status*

*Atau/or*

**(ii) Elaun Cukai Pelaburan sebanyak 60%** ( )  
*Investment Tax Allowance for 60%*

A. BUTIR-BUTIR PEMOHON/SYARIKAT  
*PARTICULARS OF APPLICANT/COMPANY*

1. Nama pemohon/syarikat dan alamat surat menyurat:  
*Name of Applicant/company and correspondence address*

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No. Telefon: <i>Telephone No</i>	No. Faks: <i>Fax No</i>	Pegawai dihubungi: <i>Contact person</i>	Jawatan: <i>Designation</i>
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2. (i) Nama syarikat yang akan mengusahakan projek pengeluaran tenaga menggunakan biomass:  
*Name of Company which will undertake energy generation project using biomass*

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**(ii) Tarikh diperbadankan :** \_\_\_\_\_  
*Date of incorporation*

(iii) Alamat pejabat berdaftar :  
*Address of registered office*

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No. Telefon : \_\_\_\_\_  
*Telephone No*

No. faks : \_\_\_\_\_  
*Fax No :*

3 (i) Tapak Stesen Janatenaga dicadangkan :  
*Location of proposed Generating Station*

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4 Butir-butir Pengarah  
*Particulars of Directors*

Nama dan alamat kediaman <i>Name and residential address</i>	Warganegara <i>Nationality</i>	% saham dipegang dalam syarika <i>% shares held in the company</i>

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B. AKTIVITI-AKTIVITI PENJANAAN TENAGA DENGAN MENGGUNAKAN BIOMASS  
*ENERGY GENERATING ACTIVITIES BY USING BIOMASS*

---

a) Senaraikan bahan biomass yang akan digunakan :

*List the type of biomass to be used :*

- Bahan Buangan Kilang Kelapa Sawit / Estet Kalapa Sawit  
*Palm Oil Mill / Estate Waste*
- Bahan Buangan Kilang Padi  
*Rice Mill Waste*
- Bahan Buangan Kilang Tebu  
*Sugar Cane Mill Waste*
- Bahan Buangan Kilang Balak / Papan  
*Timber / Sawmill Waste*
- Bahan Buangan Kilang Kitar-Semula Kertas  
*Paper Recycling Mill Waste*
- Bahan Buangan Kutipan Sampah  
*Municipal Waste*
- Biogas / *Biogas*
  - Tapak Pelupusan / *Landfill*
  - Bahan Buangan Kilang Kelapa Sawit/Palm Oil Mill Effluent (POME)
  - Bahan Buangan Haiwan / *Animal Waste*
  - Lain-Lain/*Others*

b) Nyatakan nama syarikat-syarikat yang akan dibekalkan tenaga yang dikeluarkan:

*State the name of companies that will be supplied with the energy generated*

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c) Jenis-jenis tenaga yang akan dikeluarkan.

*Types of energy form to be generated*

- Tenaga Elektrik / *Electricity*
- Wap / *Steam*
- Air Dingin / *Chilled Water*
- Haba / *Heat*

---

C. MAKLUMAT KELUARAN TENAGA  
ENERGY GENERATION INFORMATION

---

1. Kapasiti Pengeluaran Tenaga  
Energy generation capacity

Tenaga/ <i>Energy</i>		Kapasiti Pengeluaran <i>Generation capacity</i>	Penggunaan 'in house' <i>In-house use</i>	Sedia untuk dijual <i>Available for sale</i>	
				Kuantiti <i>Quantity</i>	%
Elektrik <i>Electricity</i>	kW MD				
Wap <i>Steam</i>	Ton/ <i>hour</i>				
Air Dingin <i>Chilled Water</i>	RT/ <i>hour</i>				
Haba <i>Heat</i>	GJ/ <i>hour</i>				

3. Keupayaan dandang dan jenis :  
*Boiler efficiency and type*

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4. Saiz bagi kemudahan di antara sambungan :  
*Size of Inter Connection Facility (kW)*

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D. MAKLUMAT BIOMASS  
*BIOMASS INFORMATION*

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1. Jenis dan jumlah biomass yang digunakan untuk menjana tenaga :  
*Type and amount of biomass used for energy generation*

i) \_\_\_\_\_

ii) \_\_\_\_\_

iii) \_\_\_\_\_

iv) \_\_\_\_\_

2. Sumber-sumber bahan biomass :  
*Sources of biomass*

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3. Kuantiti biomass yang akan digunakan (sebulan) :  
*Quantity of biomass to be used (monthly)*

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E. KOS PROJEK  
PROJECT COST

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	Jumlah Total RM
<p>1. Harta tetap <i>Fixed assets</i></p> <p>a. Tanah (nyatakan luasnya) : ..... <i>Land (specify area)</i></p> <p>b. Bangunan Stesen Janatenaga (nyatakan luasnya) : <i>Generating Station Building (specify area)</i> .....</p> <p>c. Loji dan Jentera <i>Plant and Machinery</i></p> <p>d. Kelengkapan Lain <i>Other Equipment</i></p> <p style="text-align: right;">Jumlah Harta Tetap <i>Total Fixed Assets</i></p> <p>2. Perbelanjaan Sebelum Pengendalian <i>Pre-operational Expenditure</i></p> <p>3. Modal Kerja <i>Working Capital</i></p>	
Jumlah <i>Total</i>	

Nota: Jika tanah, bangunan stesen janatenaga, loji dan jentera disewa/dipajak, nyatakan kos sewaan/pajakan tahunan.

Note: If the land, generating station, plant and machinery are to be rented/leased, indicated the annual cost of rental/lease.

F. SUMBER KEWANGAN  
FINANCING

	RM	%
1. Modal dibenarkan <i>Authorised capital</i>		
2. Modal dibayar <i>Paid-up capital</i>		
(a) Individu-individu rakyat Malaysia <i>Malaysian Individuals</i>		
Bumiputera <i>Bumiputra</i>		
Bukan Bumiputera <i>Non-Bumiputra</i>		
(b) Syarikat-syarikat yang diperbadankan di Malaysia* <i>Companies incorporated in Malaysia*</i>		
_____		
(c) Individu/syarikat asing (Nyatakan nama dan negara) <i>Foreign individual/company (Specify name and country)</i>		
_____		
Jumlah (a), (b) & (c) <i>Total (a), (b) &amp; (c)</i>		100

\* Bagi 2(b), nyatakan struktur ekuiti seperti berikut: -

\* For 2(b), provide equity structure as follows: -

Nama syarikat .....%  
*Name of company*

Nama syarikat .....%  
*Name of company*

Bumiputera .....%  
*Bumiputra*

Bumiputera .....%  
*Bumiputra*

Bukan Bumiputera .....%  
*Non-Bumiputra*

Bukan Bumiputera .....%  
*Non-Bumiputra*

Rakyat asing .....%  
*Foreigner*

Rakyat asing .....%  
*Foreigner*

	RM	%
3. Pinjaman <i>Loan</i> Tempatan/ <i>Domestik</i> Asing/ <i>Foreign</i>		
4. Sumber-sumber lain <i>Other sources</i>		
Jumlah <i>Total</i>		100

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G. GUNATENAGA  
MANPOWER

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Category	Kategori	<b>Pekerjaan sepenuh masa</b> <i>Full-time employment</i>		
		Rakyat Malaysia <i>Malaysian</i>	<b>Rakyat Asing</b> <i>Foreign</i>	Jumlah <i>Total</i>
1.	Staf Pengurusan dengan: <i>Managerial staff with</i> a. Kelulusan teknikal/ <i>Technical qualification</i> b. Kelulusan lain/pengalaman <i>Other qualification/experience</i>			
2.	Staf teknikal dan penyeliaan dengan: <i>Technical and supervisory staff with</i> a. Kelulusan teknikal/ <i>Technical qualification</i> b. Kelulusan lain/pengalaman <i>Other qualification/experience</i>			
3.	Pekerja jualan, perkeranian dan pekerja lain <i>Sales, clerical and other staff</i>			
4.	Pekerja-pekerja Janakuasa ( <i>Substation workers</i> ) a. Mahir / <i>Skilled</i> b. Tidak mahir/ <i>Unskilled</i>			
	Jumlah/ <i>Total</i>			

---

H. JENTERA DAN PERALATAN UTAMA  
MAJOR MACHINERY AND EQUIPMENT

---

1. Jentera dan kelengkapan  
*Machinery and equipment*

Deskripsi Description	Unit Unit	Baru atau terpakai New or used	Fungsi Function	Negara asal Country of Origin	Kos Cost RM

---

I. PENGELUARAN  
PRODUCTION

---

Tenaga Energy	Tahun 1 Year 1		Tahun 2 Year 2		Tahun 3 Year 3	
	Kuantiti* Quantity	Nilai Value	Kuantiti* Quantity	Nilai Value	Kuantiti* Quantity	Nilai Value
Tenaga Elektrik/ <i>Electricity</i> (kw)/(kwh)						
Air Dingin/ <i>Chilled</i> <i>water (RTh)</i>						

Tenaga <i>Energy</i>	Tahun 1 <i>Year 1</i>		Tahun 2 <i>Year 2</i>		Tahun 3 <i>Year 3</i>	
	Kuantiti* <i>Quantity</i>	Nilai <i>Value</i>	Kuantiti* <i>Quantity</i>	Nilai <i>Value</i>	Kuantiti* <i>Quantity</i>	Nilai <i>Value</i>
Wap/Steam (Tons)						
Haba/Heat (GJ)						
Lain-lain/ <i>Others</i>						

J. PENENTUAN HARGA TENAGA  
*ENERGY PRICING*

Perkara <i>Item</i>	% harga kilang untuk setiap jenis tenaga <i>% of ex-factory price for each type of energy</i>
	Tenaga : ..... <i>Energy</i>
1. Kos bahan biomass <i>Cost of biomass</i>	
2. Kos Buruh <i>Cost of Labour</i>	
3. Susut Nilai <i>Depreciation</i>	
4. Bayaran faedah, cukai tidak langsung, cukai tanah dsb <i>Interest payments, indirect taxes, quit rent &amp; etc</i>	
5. Kos pentadbiran dan pemasaran <i>Administrative and marketing cost</i>	
6. Kos teknologi (termasuk kos royalti, perkhidmatan pengurusan dan kos yang berkaitan) <i>Cost of technology (includes royalty, management services and other related costs)</i>	
7. Keuntungan Penjanaan tenaga <i>Energy generation profit</i>	
Jumlah/ <i>Total</i>	100%

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K.    PENGAKUAN  
      DECLARATION

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Saya ..... dengan ini mengaku  
bahawa sebaik-baik yang saya tahu dan percaya butir-butir yang diberikan dalam  
permohonan ini adalah benar.

*I ..... hereby  
declare that to the best of my knowledge and belief the particulars furnished in this  
application are true.*

Tarikh : .....  
Date :

.....  
( Tandatangan pemohon )  
( Signature of applicant )

.....  
( Jawatan )  
( Designation )

.....  
( Cap Syarikat )  
( Company's Chop )

**PERMOHONAN GALAKAN CUKAI DI BAWAH AKTA PENGGALAKAN  
PELABURAN 1986 BAGI PROJEK PERKHIDMATAN PENJIMATAN  
PENGUNAAN TENAGA**

*APPLICATION FOR TAX INCENTIVE UNDER THE PROMOTION OF  
INVESTMENT ACT 1986 FOR ENERGY CONSERVATION / ENERGY  
EFFICIENCY SERVICES PROJECTS*

---

Permohonan untuk : [ tandakan (√) di ruang berkenaan ]  
*Application for : [ tick (√) whichever is relevant ]*

(i) Taraf Perintis ( )  
*Pioneer Status*

*Atau/or*

(ii) Elaun Cukai Pelaburan sebanyak 60% ( )  
*Investment Tax Allowance of 60%*

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A. BUTIR-BUTIR PEMOHON/SYARIKAT  
*PARTICULARS OF APPLICANT/COMPANY*

---

1. Nama pemohon/syarikat dan alamat surat-menyurat:  
*Name of applicant/company and correspondence address*

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No. Telefon  
*Telephone No*

No. Faks:  
*Fax No*

Pegawai dihubungi:  
*Contact person*

Jawatan:  
*Designation*

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2. Adakah syarikat menjadi ahli Malaysian Association of Energy Service Companies (MAESCO)/*Is company a member of MAESCO?*

(        ) Ya/Yes                      No. Ahli/Member No \_\_\_\_\_

(        ) Tidak/No

3. (i) Nama syarikat yang akan mengusahakan perkhidmatan melaksanakan projek penjimatan tenaga:

*Name of company which will undertake the energy conservation service project*

\_\_\_\_\_

(ii) Tarikh diperbadankan : \_\_\_\_\_  
*Date of incorporation*

(iii) Alamat pejabat berdaftar :  
*Registered address*

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

No. Telefon : \_\_\_\_\_  
*Telephone No.*

No. Faks : \_\_\_\_\_  
*Fax No.*

4. Butir-butir pengarah  
*Particulars of Directors*

NAMA DAN ALAMAT KEDIAMAN <i>NAME AND RESIDENTIAL ADDRESS</i>	WARGANEGARA <i>NATIONALITY</i>	% SAHAM DIPEGANG DALAM SYARIKAT <i>% SHARE HELD IN THE COMPANY</i>

---

B. AKTIVITI-AKTIVITI PENJIMATAN & KECEKAPAN TENAGA  
*ENERGY CONSERVATION & EFFICIENCY ACTIVITIES*

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Sila terangkan projek-projek EC/EE yang akan dilaksanakan  
*Please elaborate on EC/EE projects to be undertaken*

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C. KOS PROJEK  
PROJECT COST

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	Jumlah Amount RM
<p>1. Harta tetap <i>Fixed assets</i></p> <p>a. Tanah (nyatakan luasnya) : ..... <i>Land (specify area)</i></p> <p>b. Bangunan Pejabat (nyatakan luasnya) :  ..... <i>Office Building (specify built-up area)</i></p> <p>c. Peralatan, mesin dan kelengkapan-kelengkapan untuk ujian (Sila senaraikan butir-butir di Seksyen D) <i>Test equipment, machinery and appliances (Please list details in Section D)</i></p> <p style="text-align: center;">Jumlah Harta Tetap <i>Total Fixed Assets</i></p>	
2. Perbelanjaan Sebelum Pengendalian <i>Pre-operational Expenditure</i>	
3. Modal Kerja <i>Working Capital</i>	
Jumlah <i>Total</i>	

Nota : Jika tanah, bangunan kilang, loji dan jentera disewa/dipajak, nyatakan kos sewaan/pajakan tahunan

*Note : If the land, factory building, plant and machinery are to be rented/leased, indicate the annual cost of rental/lease*

---

D. JENTERA DAN PERALATAN UTAMA  
MAJOR MACHINERY AND EQUIPMENT

---

Deskripsi <i>Description</i>	Unit <i>Unit</i>	Baru atau terpakai <i>New or used</i>	Fungsi <i>Function</i>	Negara Asal <i>Country of origin</i>	Kos <i>Cost</i> RM

---

E. KEWANGAN  
FINANCING

---

	RM	%
1. Modal dibenarkan <i>Authorised capital</i>		
2. (i) Modal dibayar <i>Paid-up capital</i>		
(a) Individu-individu rakyat Malaysia <i>Malaysian individuals</i>		
Bumiputera <i>Bumiputra</i>		
Bukan Bumiputera <i>Non-Bumiputra</i>		
(b) Syarikat-syarikat yang diperbadankan di Malaysia* <i>Companies incorporated in Malaysia*</i>		
_____		
(c) Individu/syarikat asing (Nyatakan nama dan negara) <i>Foreign individual/company (Specify name and country)</i>		
_____		
Jumlah (a), (b) & (c) <i>Total (a), (b) &amp; (c)</i>		100

\* Bagi 2(b), nyatakan, struktur ekuiti seperti berikut:  
*For 2(b), provide equity structure as follows :*

Nama Syarikat .....%  
*Name of Company*

Nama Syarikat.....%  
*Name of Company*

Bumiputera .....%  
*Bumiputra*

Bumiputera.....%  
*Bumiputra*

BukanBumiputera.....%  
*Non-Bumiputra*

Bukan Bumiputera .....%  
*Non-Bumiputra*

Rakyat Asing.....%  
*Foreigner*

Rakyat Asing .....%  
*Foreigner*

	RM	%
3. Pinjaman <i>Loan</i>		
Tempatan/ <i>Domestik</i>		
Asing/ <i>Foreign</i>		
4. Sumber-sumber lain <i>Other sources</i>		
Jumlah <i>Total</i>		<b>100</b>

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F. PERANCANGAN KEWANGAN PROJEK  
*PROJECT FINANCIAL PLAN*

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Sila nyatakan perancangan kewangan projek:  
*Please state your project financing*

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G. MAKLUMAT KECEKAPAN TENAGA  
ENERGY EFFICIENCY INFORMATION

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Sektor <i>Sector</i>	Jenis Tenaga <i>Energy Type</i>	Tenaga/ <i>Energy</i>					
		Penggunaan Semasa <i>Current Consumption</i>		Anggaran Penjimatan <i>Estimated Savings</i>		% Penjimatan <i>% of Savings</i>	
		Unit <i>Unit</i>	RM	Unit <i>Unit</i>	RM	Unit <i>Unit</i>	RM
Perindustrian <i>Industrial</i>							
Perdagangan <i>Commercial</i>							

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H. GUNATENAGA  
MANPOWER

---

Kategori <i>Category</i>	<b>Pekerjaan sepenuh masa</b> <i>Full-time employment</i>		
	Rakyat Malaysia <i>Malaysian</i>	<b>Rakyat Asing</b> <i>Foreign</i>	<b>Jumlah</b> <i>Total</i>
1. Staf Pengurusan dengan: <i>Managerial staff with</i> a. Kelulusan teknikal/ <i>Technical qualification</i>  b. Kelulusan lain/pengalaman <i>Other qualification/experience</i>			
2. Staf teknikal dan penyeliaan dengan: <i>Technical and supervisory staff with</i> a. Kelulusan teknikal/ <i>Technical qualification/experience</i>  b. Kelulusan lain/pengalaman <i>Other qualification/experience</i>			
3. Pekerja jualan, perkeranian dan pekerja lain <i>Sales, clerical and other staff</i>			
Jumlah <i>Total</i>			

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I.     PENGAKUAN  
       DECLARATION

---

Saya ..... dengan ini mengaku  
bahawa sebaik-baik yang saya tahu dan percaya butir-butir yang diberikan dalam  
permohonan ini adalah benar.

*I ..... hereby declare that to  
the best of my knowledge and belief the particulars furnished in this application  
are true.*

Tarikh : .....  
Date :

.....  
( Tandatangani pemohon )  
( *Signature of applicant* )

.....  
( Jawatan )  
( *Designation* )

.....  
( Cap Syarikat )

**7. CONTOH LESEN SREP**

*SAMPLE OF SREP LICENCE*

## **ELECTRICITY SUPPLY ACT 1990**

### **LICENCE FOR GENERATION AND SUPPLY OF ELECTRICITY**

#### **PART I - GRANT OF LICENCE**

1. The Energy Commission, with the approval of the Minister of Energy, Communications and Multimedia, in exercise of the powers conferred on him by section 9 of the Electricity Supply Act, 1990 (hereinafter referred to as "the Act") and of all other powers exercisable by him for that purpose, hereby grants to .....**(name of the licence)** ....., a company incorporated under the Companies Act, 1965, having its registered office at .....**(address of the licensee)** .....(hereinafter referred to as "the Licensee"), a licence for the period specified in paragraph 2, subject to the terms in this Part and Conditions set out in Part III of this Licence (hereinafter referred to as "the Conditions"), the Act and to any Regulations made or which may be made under the Act and to revocation as provided for in paragraph 2 and in Part IV, to use, work or operate, or permit to be used, worked or operated any electrical installation to be constructed by or for the Licensee at .....**(address of the project location)**..... more particularly shown in the Location / Site Plan attached as Annex A (hereinafter referred to as the "generating facility"), and to supply energy to and for the use of Tenaga Nasional Berhad, a limited company incorporated under the Companies Act 1965, having its registered office at No. 129, Jalan Bangsar, 59200 Kuala Lumpur (hereinafter referred to as "TNB") and/or to any other person permitted by the Energy Commission with the approval of the Minister in writing (hereinafter referred to as "Buyer").
2. This Licence shall come into force from the date of issuance of the Licence, and shall expire **twenty one (21) years** thereafter, but without prejudice to Part III of this Licence, shall be subject to revocation as provided for in Part IV.
3. The granting of this Licence does not remove any need by the Licensee to comply with any provision of any other written law or to obtain any other licence that is required under any other written law for the time being in force for the implementation, operation and maintenance of the generating facility or any part thereof.

#### **PART II - INTERPRETATION AND CONSTRUCTION**

1. Unless the contrary intention appears, words and expressions used in the Conditions shall be construed as if they were an Act of Parliament, and references to an enactment shall include any statutory modification or re-enactment thereof after the date when this Licence comes into force.
2. Nothing in this Licence shall in any way affect the powers of the Energy Commission under the Act and any purported detraction or derogation of such powers shall have no force or effect.

3. Any word or expression defined for the purpose of Part I of the Act shall, unless the contrary intention appears, have the same meaning when used in the Conditions.
4. Where a time limit is stipulated, the Licensee shall comply with the obligation within the time limit and that obligation shall be deemed to continue after that time limit if the Licensee fails to comply with that obligation within that time limit. However, the Energy Commission may, after an application by the Licensee, extend the time limit as he deems fit.
5. **Any reference to a numbered Condition is a reference to the Condition bearing that number in this Licence and any reference to a numbered paragraph is a reference to the paragraph bearing that number in the Condition in which the reference occurs.**
6. **In construing the Conditions, the heading or title of any Condition shall be disregarded.**
7. Any reference to "person" in this Licence, shall be deemed to include natural and legal person.
8. **In the Conditions and Part IV of this Licence unless the context otherwise requires:**

"Act" means the Electricity Supply Act 1990, as it may from time to time be amended, extended, modified or re-enacted;

"affiliate" in relation to the Licensee means any holding company or subsidiary of the Licensee or any subsidiary of a holding company of the Licensee, related to the Licensee's core business of generation and supply of electricity within the meaning of the Companies Act 1965;

"Auditors" means the Licensee's auditors, for the time being holding office in accordance with the requirements of the Companies Act 1965;

" authorised officer" means any public officer or officer of the Commission who is authorised in writing by the Minister for the purposes of this Act;

"Buyer" means TNB or any other person permitted by the Energy Commission for the Licensee to sell or supply energy;

" Energy Commission " means the Energy Commission established under the Energy Commission Act 2000;

"Director General of Environmental Quality" means the Director General of Environmental Quality appointed under section 3 of the Environmental Quality Act 1974 and includes his Deputy or officer authorised by him;

	"disposal" includes any sale, gift, lease, licence, loan, mortgage, charge or the grant of any encumbrance or the permitting of any encumbrance to subsist or any other disposition to a third party, including the affiliate;
	"distribution code" means any code or similar Regulations made under the Act relating to the planning, design operation and maintenance of an electricity distribution system in Malaysia, as the same may be amended from time to time;
"Financial Year" 17;	bears the meaning given in paragraph 1 of Condition
“generating facility”	means an installation producing electricity;
"Power Purchase Agreement"	means a power purchase agreement made or to be made between the Licensee and TNB as the same may be amended, modified or novated from time to time;
	"Regulations" means the Electricity Regulations 1994 and any Regulations made or which may be made under the Act, as it may from time to time be amended, extended, modified or re-enacted;
	"relevant assets" means any asset for the time being forming part of the Licensee's generation business and any beneficial interest in land upon which the foregoing is situated;
“renewable energy source”	means energy source which is not depleted when used and includes energy obtained from energy sources such as biomass, hydro power, solar power, geothermal power, wind power, waves and tides;
“Renewable Energy Sources Supply Agreement”	means the renewable energy sources supply agreement to be made between the Licensee and the relevant supplier for the supply of renewable energy sources to the Licensee for the operation of the generating facility;
	"TNB" means Tenaga Nasional Berhad, a limited company incorporated under the Companies Act 1965, having its registered office at

### **PART III - CONDITIONS OF THE LICENCE**

#### **CONDITION 1 : OBLIGATIONS OF THE LICENSEE**

1. The Licensee is to finance, construct, complete, own, operate and maintain a generating facility using renewable energy sources with nominal installation capacity of ..... at ..... **(address of the project location)** ..... and any distribution and/or interconnection facilities as shown in the Location / Site Plan as Annex A, in order to supply energy to or for the use of the Buyer.
2. The Licensee shall not, at any time supply electricity to any person other than TNB, provided that the Energy Commission may with the approval of the Minister in writing, permit the Licensee to distribute and supply energy to such person.

#### **CONDITION 2 : NOTIFICATION OF THE ROUTE OF THE DISTRIBUTION AND/OR INTERCONNECTION SYSTEM**

1. The Licensee shall notify the Energy Commission the route of the distribution and/or interconnection system, including any subsequent modification or extension, required to be constructed by the Licensee in order to supply energy.
2. The Licensee shall, within three (3) months after this Licence enters into force, submit to the Energy Commission and the relevant authorities, a map and schematic diagram showing the route and the main components of the distribution and/or interconnection system.

#### **CONDITION 3 : CONSTRUCTION, SUPERVISION, QUALITY ASSURANCE INSPECTION AND PERFORMANCE TESTS**

1. All designs, plans, drawings and specifications shall be approved by suitably qualified and experienced engineer(s) registered as Professional Engineer(s) with the Board of Engineers, Malaysia (hereinafter referred to as “the plan and specification”).
2. No substantial amendment and modification shall be made to the plan and specification unless such amendment and modification shall have been approved by the said engineer(s) in paragraph 1.
3. A certified copy of the designs, plans and specifications including any subsequent approved amendments and modifications, shall be submitted to the Energy Commission within one (1) month upon request.
4. The construction, installation, testing and commissioning works shall be supervised and approved by suitably qualified and experienced engineer(s) registered as Professional Engineer(s) with the Board of Engineers, Malaysia and shall comply with:

- (a) the plan and specification as mentioned in paragraph 1 and including any subsequent approved amendments and modifications;
- (b) Malaysian Standards or any acceptable international standard and prudent utility practices;
- (c) the requirements and measures for environmental protection and mitigation of adverse environmental impact (if any) imposed by the Director General of Environmental Quality appointed under the Environmental Quality Act 1974; and
- (d) such other requirements imposed by any other written laws relating to the construction and installation of the generating facility.

5. The Licensee, its contractors, subcontractors, servants, agent or workmen shall at all times comply with such direction given by the Energy Commission or any person duly authorised by him pertaining to any matters concerning the construction, installation, testing, commissioning, operation and maintenance, safety and efficiency of the installations.

6. The Licensee shall set up its own quality control and quality assurance team consisting of suitably qualified personnel to ensure that the design, the materials used, the equipment and the plants installed, the technology, methods and procedures adopted for fabrication, installation, construction, testing and commissioning of the installation are in accordance to good engineering practices and of quality and standard as stipulated in the plan and specification.

7. The Licensee shall notify the Energy Commission not later than thirty (30) days or such other period as may be required by the Energy Commission before any major equipment, plant, system or structure such as generating unit, power transformer and switchgear, including materials used for the fabrication and construction, is ready for quality assurance inspection and performance tests.

8. The Energy Commission may conduct or cause to be conducted any quality assurance inspection and performance tests as mentioned in paragraph 6 above if he deems necessary. All costs, expenses and incidental incurred by the Director General or any other person appointed or authorised by him for the said inspections and tests shall be borne by the Licensee.

**CONDITION 4:    INSTALLATION    CAPACITY,    BUILD-UP    PERIOD,  
COMMISSIONING AND DATE OF COMPLETION**

1. The Licensee shall ensure that the generating facility shall have a nominal installation capacity as mentioned in Condition 1.

2. The generating facility shall be completed and successfully commissioned not later than two (2) years from the date of issuance of this Licence or within such extended period as the Energy Commission may allow in writing in order to supply energy to or for the use of the Buyer.

3. Without prejudice to paragraph 2 above, the generating facility shall be regarded as completed and ready to supply energy upon the Licensee certifies that the same has been duly constructed, installed, set, calibrated and tested in accordance with the plan and specification referred to in Condition 3 above and with the provisions of the other conditions of this Licence and in compliance with all statutory requirements and, if so required, that the same shall have passed all the inspections, tests and certification on compliance carried out or caused to be carried out by the Energy Commission. All costs, expenses, fees and incidental incurred by the Energy Commission for the said inspections, tests and certification shall be borne by the Licensee.

4. The Licensee shall notify the Energy Commission in writing at least thirty (30) days prior to the date the inspections and tests as mentioned in paragraph 3 above can be carried out.

5. After successful commissioning of the generating facility, the Licensee shall submit to the Energy Commission, within one (1) month upon request, a full report of the commissioning tests, detail of the settings of the major equipment and relays and a complete set of the built-up designs, plans and specifications of the installation, showing precisely the extent of the variation and divergence if any, from the plan and specification referred to in Condition 3 above.

#### **CONDITION 5: STANDARD OF PERFORMANCE AND SYSTEM SECURITY**

1. Without prejudice to the Power Purchase Agreement, the Licensee shall maintain sufficient capacity referred to in Condition 1 above to meet the capacity and energy demand of the Buyer approved under the Licence unless he is prevented from doing so by complying with regulatory requirements or the malfunction or failure of any plant, equipment or installation beyond his control, or as result of fire, flood, drought, landslide, earthquake, explosion, accident, industrial disturbance on national level, emergency, riot, civil disturbance, war, or any other similar event not within the control of the Licensee.

2. The Licensee shall ensure that the operations of the generating facility is to continue uninterrupted notwithstanding arbitration, contractual or industrial dispute which the Licensee may be engaged in except where it is prevented from doing so in the circumstances mentioned in paragraph 1 above.

#### **CONDITION 6: VOLTAGE, FREQUENCY AND QUALITY OF SUPPLY**

The voltage, frequency and quality of electricity supplied shall be kept within a range specified in the Regulations and distribution code or as determined by the Energy Commission.

#### **CONDITION 7: OPERATION AND MAINTENANCE OF THE GENERATING FACILITY**

1. The generating facility shall be operated and maintained by the Licensee throughout the period of this Licence, solely for the purpose of supplying electricity to TNB and/or any other person permitted by the Energy Commission and approved by the Minister in writing.

2. The Licensee shall, throughout the period of this Licence, operate and maintain the generating facility to ensure that the safety, security, reliability, availability and efficiency of

the installation are in accordance with prudent utility practices and in conformity with the Act and the Regulations made thereunder or such other standards or requirements determined by the Energy Commission.

**CONDITION 8: COMPLIANCE WITH DISTRIBUTION CODE AND INSTRUCTIONS OF THE DISTRIBUTION SYSTEM OPERATOR**

1. In so far as it may affect the operation and performance of the distribution system, the Licensee shall :-

- a. comply with the provisions of the distribution code as it may be amended, extended or modified by the Energy Commission and in accordance with such directive and ruling made from time to time by the Energy Commission; and
- b. comply, at all time, with the instructions, directives and guidelines of the person who operates the distribution system to ensure the safety, security and reliability of the distribution system.

2. Under emergency conditions of the distribution system, the Licensee shall provide every facility to assist in maintaining and/or restoring the safety, security and reliability of the distribution system.

**CONDITION 9: COMPLIANCE WITH ENVIRONMENTAL PROTECTION MEASURES**

1. The Licensee shall throughout the period of this Licence, observe and comply with the provisions of any written law for the time being in force in relation to environmental protection and to mitigate any adverse impact which the Power Station may have on the environment.

2. The Licensee shall comply with and implement all measures, conditions and requirements imposed by the Director General of Environmental Quality and/or other relevant authorities when approving the Licensee's environmental impact assessment report (EIA Report) for the construction and operation of the generating facility for protection of the environment throughout the period of this Licence.

3. The Licensee shall submit to the Director General of Environmental Quality and/or other relevant authorities from time to time or on such periodical intervals as may be directed by him, a report on all the environmental protection measures and requirements undertaken by the Licensee.

**CONDITION 10: OBLIGATION ON ECONOMIC PURCHASE**

1. The Licensee shall ensure that the purchase of renewable energy sources, supplies, equipment and services to be from the most economical sources available.

2. The Licensee shall at any time upon request by the Energy Commission furnish a report containing details of:

- (a) prices for the purchase of renewable energy sources, supplies, equipment and services referred to in paragraph 1; and
- (b) factors justifying the prices offered by the Licensee in making available of such renewable energy supply and services to the Buyer or any other person.

#### **CONDITION 11: OBLIGATION ON GOVERNMENT POLICIES**

1. The Licensee shall, in the general conduct of its business and the operation of the generating facility, comply with the policies of the Government in the production, supply and use of electricity and in the promotion of competition in the electricity supply industry.

2. The Licensee shall at all times take cognisance of the Government's policies in particular Bumiputera equity participation, the transfer of technology and expertise to Malaysian, the employment of local personnel, contractors and services and the use of local materials and products.

#### **CONDITION 12: RIGHT OF ENTRY**

An authorised officer shall be entitled to enter any premises or land in or upon which the generating facility is installed or in the course of being installed and may examine, test, survey or take measurement of the generating facility and inspect any record and document kept by the Licensee pertaining thereto, to ensure compliance with the Conditions of this Licence.

#### **CONDITION 13: PROVISION OF INFORMATION TO THE DIRECTOR GENERAL**

1. The Licensee shall submit to the Energy Commission at monthly interval, information on the maximum daily load, energy sold per month, overall plant efficiency and performance, quantity of renewable energy sources used per month, accidents, breakdown of major plants or equipment, forced and mandatory outages and schedule of maintenance and overhaul programme.

2. Notwithstanding paragraph 1 above, the Licensee shall furnish to the Energy Commission in such manner and at such times as the Energy Commission may reasonably require, such documents, accounts, estimates, returns, reports and other information as the Energy Commission may consider necessary in the light of the Conditions or as he may require for the purpose of performing the duties and functions assigned or transferred to him under the Act or any Regulations made thereunder.

3. The Licensee shall submit to the Energy Commission the following information:

- (a) within three (3) months after this Licence enters into force, a copy of the Power Purchase Agreement and Renewable Energy Sources Supply

- Agreement and any subsequent amendment, modification, rectification or novation of the said agreement; and
- (b) within six (6) months after this Licence enters into force, details of financial arrangements and construction programmes of the generating facility and subsequently submission of reports at regular intervals on the status and progress of the said generating facility during its stages of construction.

**CONDITION 14: SEPARATE ACCOUNT FOR BUSINESS UNDER THE LICENCE**

1. Within three (3) months after issuance of the Licence, the Licensee shall inform the Energy Commission the commencement date of each Financial Year.
2. The Licensee shall keep or cause to be kept such accounting records in respect of its business under the Licence required under the Companies Act 1965 so that the revenues, costs, assets, liabilities and reserves are identifiable in the books of the Licensee.
3. The Licensee shall prepare in respect of its business under the Licence commencing on the 1st Financial Year and each subsequent Financial Year, an accounting statements comprising a profit and loss account, a balance sheet and statements of source and application of funds in respect of the business under the Licence.
4. The Licensee shall appoint approved Auditors to audit its accounts and the Auditors shall prepare a report stating whether in their opinion those statements have been properly prepared in accordance with this Condition and give a true and fair view of the revenues, costs, assets, liabilities, reserves and financial transactions reasonably attributable to the business under the Licence to which the statements relate.
5. The Licensee shall deliver to the Energy Commission a copy of the account referred to in paragraphs 3 and 4 above as soon as reasonably practicable, and in any event not later than three (3) months after the end of each Financial Year.

**CONDITION 15: RESTRICTION OF CHANGES IN SHAREHOLDINGS**

1. The shareholders and shareholding structure of the Licensee shall be in accordance to particulars as stated in FORM 24 – Return of Allotment of Shares, Companies Act, 1965 attached as Annex B.
2. The Licensee shall undertake to the Government that the present shareholders and shareholding structure as set out in paragraph 1 remain the same within a period of five (5) years from the date of successful commissioning of the generating facility. Any changes to the shareholders and the shareholding structure shall be subject to the prior written approval of the Minister.
3. Notwithstanding paragraph 2 and subject to the prior written approval of the Minister, and the approval of all relevant authorities, the Licensee may apply for its shares to be listed and quoted on the official list of the Kuala Lumpur Stock Exchange (KLSE).

**CONDITION 16: ACQUISITION AND DISPOSAL OF RELEVANT ASSETS**

1. The Licensee shall give the Energy Commission not less than two (2) months prior written notice of its intention to acquire or relinquish control over any asset with a value in excess of RM 1.0 million, relevant to the generating facility together with such further information as the Energy Commission may request, relating to such asset or the circumstances of such intended acquisition, disposal or relinquishment of control.
2. For purposes of paragraph 1 above, "relinquishment of control" includes the transfer of any operational control of the asset with or without a transfer of any legal or beneficial interests in the relevant asset.
3. The Energy Commission shall be furnished with details of the relevant assets, acquisition and disposal procedures of the Licensee.

**CONDITION 17: LICENCE IS NON-TRANSFERABLE, NON-ASSIGNABLE ETC.**

1. The Licensee shall not assign, transfer, sublet or otherwise dispose of its rights, duties, liabilities, obligations and privileges or part thereof under the terms and Conditions of this Licence except with the prior written approval of the Minister.
2. The Licence shall not be transferred, charged, pledged or otherwise encumbered without the prior written approval of the Minister.
3. The creation of any charge, mortgages, pledges, lien or other securities over the land used for the generating facility is prohibited without express written consent of the Minister.
4. Any such approval or consent shall be subject to such terms and conditions as the Minister in his absolute discretion may impose.

**CONDITION 18: NO RIGHT OF EXTENSION**

Nothing in this Licence shall be deemed to entitle the Licensee, as of right to an extension of the term of this Licence or to renewal thereof, provided that the Energy Commission in consultation with the Minister, may extend the period of this Licence upon such terms and conditions as he may deem fit to impose.

**CONDITION 19: INSURANCE**

The Licensee shall, throughout the period of this Licence, reasonably insure or keep insured the generating facility against any possible risks and to pay the premiums necessary for that purpose and whenever required by Energy Commission, to produce on demand a true copy of the policy of insurance and requisite evidence of payment of the premiums and other fees and duties for the said policy.

**CONDITION 20: PAYMENT OF FEES**

The Licensee shall, at the times stated hereunder, pay to the Energy Commission the amount of fees as provided for in the Regulations currently in force:

- (a) on the issuance of the Licence; and
- (b) thereafter, an annual fee when due.

**CONDITION 21: REVIEW**

The Energy Commission, with the approval of the Minister may add to, vary or revoke any of the terms and Conditions in this Licence whenever it appears necessary or expedient for the purpose of extending Part I of the Licence or meeting the technical, safety and efficiency requirements applied generally to the electricity supply industry in Malaysia.

**CONDITION 22: SUSPENSION OF LICENCE**

1. The Energy Commission may, upon service of written notice to the Licensee, suspend this Licence upon the occurrence of the following events:

- (a) if the Licensee has failed to comply with or is in breach of any Condition of this Licence, and has failed or neglected to remedy the same after the Licensee has been requested to do so by the Energy Commission; or
- (b) if the Licensee has failed to comply with any directive or order or notice given in writing pursuant to Conditions of this Licence by the Energy Commission; or
- (c) if the Licensee has breach the provision of the Power Purchase Agreement entered into with TNB and has failed to remedy such breach despite notice from TNB to remedy the same.

2. When this Licence is suspended pursuant to paragraph 1 above:

- (a) the Energy Commission, with the approval of the Minister, may appoint TNB and/or such other person as may be appointed by him, to carry out, discharge, assume or perform any of the obligations, duties and responsibilities imposed under this Licence on the Licensee, and to receive such payments, benefits or privileges which the Licensee is entitled under this Licence to receive or to enjoy;
- (b) the Licensee shall not be entitled to any payment or compensation from the Government for any loss or damage that may have occurred, incurred or suffered by the Licensee; and
- (c) the Licensee, its agents, servants or workmen shall render all necessary assistance and cooperation to TNB and/or such person appointed by the Energy Commission.

3. In exercising the right under paragraph 2 above, the Energy Commission shall have regard to the rights of TNB under the Power Purchase Agreement.

4. The period of any suspension imposed shall be determined by the Energy Commission, provided always that where the suspension is as a result of the breach of any Conditions of this Licence, the suspension shall cease as soon as the breach has been remedied by the Licensee and the Energy Commission shall certify the same.

#### PART IV - REVOCATION

1. Notwithstanding paragraph 2 of Part I of this Licence, the Energy Commission may at any time revoke this Licence by giving not less than thirty (30) days notice in writing to the Licensee at its registered office in any of the following circumstances:

- (a) upon breach of any of the Conditions imposed in this Licence;
- (b) if the Licensee ceases to work or operate the generating facility;
- (c) if any amount payable under Condition 24 is unpaid after it has become due whether notice in writing has been given to the Licensee or not;
- (d) if a receiver or liquidator has been appointed for the Licensee;
- (e) **If any action taken for voluntary winding up or dissolution of the Licensee's company or any order pursuant to the Companies Act 1965 is made for the compulsory winding up the Licensee's company;**
- (f) if the Power Purchase Agreement has expired or is revoked and terminated;
- (g) **if the generating units are not completed on or before the dates as mentioned in paragraph 2 of Condition 4 or within such extended period as may be allowed in writing by the Energy Commission;**

2. Where this Licence is revoked pursuant to paragraph 1 above, the Licensee shall not be entitled to any payment of compensation whatsoever from the Government for any loss or damage that may have occurred, incurred or suffered by him;

3. The determination of this Licence under this Part shall not prejudice or affect the right of the Government to recover any sum due thereunder of any breach, non-performance of any of the Conditions on the part of the Licensee therein contained.

4. Any notice which is required to be given to the Licensee under paragraph 1 above, shall be deemed to have been given if sent by hand or pre-paid post or by facsimile to the Licensee's registered address as lodged in the Registry of Companies.

Granted by:

.....  
**(Ir. DATUK MOHD ANNAS BIN HJ. MOHD NOR)**  
Chairman  
Energy Commission  
Malaysia

Dated : 200....

Approved by:

.....  
**( DATUK AMAR LEO MOGGIE )**  
Minister of Energy, Communications and Multimedia  
Malaysia

Dated : 200....

**CONTOH LESEN SREP**  
*SAMPLE OF SREP LICENCE*

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PART IV - REVOCATION

**8. BORANG PERMOHONAN SREP (1/2002)**

*SREP APPLICATION FORM (1/2002)*

**PERMOHONAN UNTUK MELAKSANAKAN PROJEK DI BAWAH  
"SMALL RENEWABLE ENERGY PROGRAMME"**

**PANDUAN KEPADA PEMOHON:**

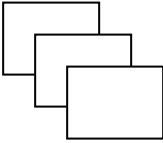
- (1) Setiap permohonan hendaklah lengkap dengan dokumen-dokumen dan lukisan-lukisan seperti yang diperlukan.
- (2) **Semua lukisan-lukisan yang dikemukakan hendaklah dicop dan ditandatangani oleh seorang Jurutera Profesional yang dilantik oleh pemohon untuk merekabentuk pemasangan yang berkenaan.**
- (3) Permohonan ini hendaklah ditandatangani dan dicop oleh pemunya atau pihak pengurusan pemunya.

**BAHAGIAN A : BUTIR-BUTIR PEMOHON**

<p>1.0 Nama, Alamat Berdaftar, No. Telefon, No. Fax dan Alamat E-mail Syarikat.</p> <p>(Sila sertakan perakuan pendaftaran syarikat / perniagaan terkini)</p>	
<p>2.0 Alamat tapak pemasangan, jika tidak sama dengan (1.0) di atas.</p>	
<p>3.0 Jenis perniagaan yang dijalankan oleh pemohon / syarikat induk buat masa ini.</p>	
<p>4.0 Jumlah ekuiti dan pinjaman.</p>	
<p>5.0 Pemilik ekuiti dan pembahagian ekuiti (Sila nyatakan pemilikan ekuiti tempatan dan asing jika berkenaan)</p>	

**BAHAGIAN B : KETERANGAN PEPASANGAN**

<p>1.0 PENJANAAN TENAGA HABA</p>	
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<p>1.1 Jenis Pengilangan.</p> <p>1.2 Jumlah kapasiti penjanaan tenaga haba (Jika berkenaan). (Sila nyatakan jenis, kapasiti dan tekanan setiap unit dandang).</p> <p>1.3 Jumlah tenaga haba yang diperlukan untuk pemprosesan pengilangan. (kJ / jam atau kg stim / jam).</p> <p>1.4 Jumlah tenaga haba yang boleh digunakan untuk penjanaan elektrik.</p>	
<p>2.0 PENJANAAN TENAGA ELEKTRIK</p> <p>2.1 Jumlah kapasiti penjanaan elektrik. (Sila nyatakan jenis, kuasa (kW) dan voltan setiap unit loji penjanaan elektrik).</p> <p>2.2 Kapasiti (kW) dan voltan elektrik yang akan disalur kepada grid tempatan.</p> <p>2.3 Penjanaan tenaga elektrik setahun (kWj).</p> <p>2.4 Tenaga elektrik dicadangkan untuk dibekalkan kepada grid tempatan (kWj) setahun.</p> <p>2.5 Jarak pemasangan ke lokasi sambungan grid tempatan.</p> <p>2.6 Sama ada tenaga tunggu sedia daripada pihak utiliti diperlukan. Jikalau perlu, sila nyatakan kapasiti tunggu sedia yang diperlukan (kW).</p>	<p>Ya                      Tidak</p> <p><input type="checkbox"/>                      <input type="checkbox"/></p>
<p>3.0 <b>BAHAN API / SUMBER TENAGA</b></p> <p>3.1 Jenis bahan api utama dan bahan api gantian dan nilai kalorifik (KJ/Kg) bahan api.</p>	

<p>3.2 Jumlah sumber bahan api yang diperlukan setahun. (KJ atau Kg atau unit yang berkaitan).</p> <p>3.3 Bahan api diperolehi daripada sumber sendiri atau pihak lain.</p> <p>3.4 Kecekapan thermal keseluruhan (Jumlah tenaga berguna yang dihasilkan) <hr/>(Jumlah tenaga bahan api digunakan)</p> <p>3.5 Jika bahan api (sama ada kesemua atau sebahagian) diperolehi daripada sumber lain, sila nyatakan sama ada persetujuan perolehan sumber bahan api telah dibuat.</p>	<p>Sendiri                      Pihak lain</p> <p><input type="checkbox"/> %                      <input type="checkbox"/> %</p> <p>Ya                              Tidak</p> <p><input type="checkbox"/>                              <input type="checkbox"/></p>
<p>4.0 <b>JADUAL PERLAKSANAAN</b></p> <p>4.1 <i>Mobilization Period</i> selepas permohonan dilulus.</p> <p>4.2 Jadual Pelaksanaan.</p>	

**BAHAGIAN C : KETERANGAN SYARIKAT JURUTERA PERUNDING**

<p>1.0 Nama, Alamat dan No. Telefon Syarikat Jurutera Perunding yang dilantik. (Jika belum dilantik, maklumat ini mesti dikemukakan sebaik sahaja ianya dilantik).</p>	
<p>2.0 Keterangan Jurutera Profesional yang bertanggungjawab:</p> <ul style="list-style-type: none"> <li>▪ Nama</li> <li>▪ No. Pendaftaran Lembaga Jutera Malaysia</li> <li>▪ Tarikh dikeluarkan</li> </ul>	

**BAHAGIAN D : KETERANGAN KEWANGAN**

<p>1.0 Jumlah kos projek keseluruhan.</p>	
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2.0 Jumlah kos untuk pemasangan penjanaan elektrik dan penyambungan kepada grid tempatan:-	
3.0 Penjimatan kos perlupusan bahan-bahan buangan bagi satu tahun dari segi keperluan untuk melupuskannya jika ia tidak digunakan untuk tujuan penjanaan . (Jika berkenaan)	
4.0 Kos pengendalian dan penyelenggaraan pemasangan dan loji berkaitan dengan penjanaan elektrik setahun.	
5.0 Kos seunit elektrik setelah mengambil kira penjimatan kos pelupusan bahan buangan (sen / kWj).	
6.0 Tempoh bayaran balik (pay back period) pelaburan untuk penjanaan elektrik.	
7.0 Cadangan harga jualan elektrik (sen / kWj) (14 – 17 sen / KWj)	

BAHAGIAN E : LAIN-LAIN

<p>1.0 Sama ada tapak projek telah diperolehi / dipersetujui.</p>	<p><input type="checkbox"/> Belum diperolehi</p> <p><input type="checkbox"/> Dalam perbincangan</p> <p><input type="checkbox"/> Telah selesai</p> <p><input type="checkbox"/> Tapak sendiri</p>
<p>2.0 Perjanjian pembelian elektrik renewable (REPA) dengan TNB / SESB.</p>	<p><input type="checkbox"/> Belum bincang</p> <p><input type="checkbox"/> Dalam perbincangan</p> <p><input type="checkbox"/> Perjanjian telah ditandatangani</p>
<p>3.0 Penggunaan bahan tempatan.</p> <p>(Sila nyatakan peratusan bahan tempatan dan peratusan bahan import yang akan digunakan dalam projek ini).</p>	<p>Tempatan                      Import</p> <p><input type="checkbox"/> %                      <input type="checkbox"/> %</p>
<p>5.0 Pihak yang akan mengendalikan operasi setelah pemasangan siap.</p>	
<p>5.0 Adakah kelulusan Jabatan Alam Sekitar diperlukan untuk perlaksanaan projek ini.</p>	<p>Perlu                      Tidak perlu</p> <p><input type="checkbox"/>                      <input type="checkbox"/></p>

Jika perlu, sila nyatakan sama ada kelulusan telah diperolehi.

Telah  
lulus

Belum  
lulus

## **BAHAGIAN F : DOKUMEN-DOKUMEN DAN LUKISAN-LUKISAN KEPERLUAN**

(Dokumen dan lukisan berikut hendaklah disertakan bersama permohonan ini).

<b>PERKARA-PERKARA</b>
1.0 Salinan MOA Syarikat, Borang 24 Dan 49. (atau dokumen yang berkenaan)
2.0 Lukisan-lukisan ringkas berkaitan pemasangan <ul style="list-style-type: none"><li>▪ Lokasi dan Pelan Tapak;</li><li>▪ Pelan lokasi yang menunjukkan kedudukan tapak loji dan cadangan lokasi terdekat <i>interconnection</i> kepada grid tempatan;</li><li>▪ Lukisan ringkas skematik induk (<i>main schematic diagram</i>); dan</li><li>▪ Lukisan susunatur loji dan pemasangan elektrik berkaitan serta kedudukan pencawang (jika ada).</li></ul>
3.0 Dua salinan ringkas cadangan projek mengandungi maklumat :- <ul style="list-style-type: none"><li>▪ Lokasi projek;</li><li>▪ Jadual pelaksanaan;</li><li>▪ Jenis bahan api utama dan bahan api gantian serta jenis loji;</li><li>▪ Kesan ke atas alam sekitar;</li><li>▪ Sistem bekalan elektrik dipersekitaran projek dan cara penyambungan bekalan elektrik yang dijanakan kepada sistem tersebut;</li><li>▪ Kapasiti penjanaan dan kapasiti yang akan disambung kepada sistem grid;</li><li>▪ Jumlah tenaga yang akan dijana dan jumlah tenaga yang akan dijual kepada grid dalam satu tahun;</li><li>▪ Cadangan kadar harga tenaga (sen / kWj) yang akan dijual kepada TNB / SESB; dan</li><li>▪ <i>Viability</i> projek tersebut dari segi pembekalan sumber bahan api untuk penjanaan, kos projek, <i>rate of return</i> dan lain-lain yang berkaitan.</li></ul>

## **BAHAGIAN G : PENGAKUAN PEMOHON**

1. Saya.....  
No. Kad Pengenalan.....mengaku bahawa maklumat-maklumat yang terkandung di dalam permohonan ini adalah benar dan kenyataan-kenyataan adalah betul dan saya sedar adalah menjadi suatu kesalahan di bawah seksyen 8 Akta Bekalan Elektrik 1990 jika maklumat-maklumat yang diberikan itu adalah palsu.
  
2. Saya akan memohon lesen penjanaan elektrik daripada Suruhanjaya Tenaga apabila permohonan ini diluluskan dan syarikat kami bersedia untuk memulakan projek.

.....  
Tandatangan Pemohon

.....  
Cop Rasmi

Jawatan :

Tarikh :

### **SENARAI SEMAKAN PERMOHONAN SREP**

- a. Borang “Permohonan Untuk Melaksanakan Projek di Bawah *Small*



*Renewable Energy Programme* yang lengkap diisi (2 salinan).

- b. Dokumen-dokumen yang diperlukan seperti tercatat dalam borang permohonan (2 salinan).
- c. "Project proposal" (2 salinan)
- d. Ringkasan projek (tidak lebih daripada 2 muka surat) yang mengandungi, antara lain, keterangan-keterangan ringkas mengenai (2 salinan):
- Lokasi, projek
  - Jadual pelaksanaan
  - Jenis bahan api utama dan bahan api gantian serta jenis loji
  - Kesan ke atas alam sekitar
  - Sistem bekalan elektrik di persekitaran projek dan cara penyambungan bekalan elektrik yang dijanakan kepada sistem tersebut
  - Kapasiti penjanaan dan kapasiti yang akan disambung kepada sistem grid
  - Jumlah tenaga yang akan dijana dan jumlah tenaga yang akan dijual kepada grid dalam satu tahun
  - Cadangan kadar harga tenaga (sen/kWh) yang akan dijual kepada TNB.
  - "Viability" projek tersebut dari segi pembekalan sumber bahan api untuk penjanaan, kos projek, 'rate of return' dan lain-lain yang berkaitan.