



Official Communication No. 825 -SEREE-DNEE- 2009 0 3119

Quito DM a, 18 NOV. 2009

Mr./Mrs.
Quito.-

Subject: Request of a technical and economical offer to supply compact fluorescent lamps

To whom it may concern:

Due to the electrical power restrictions that Ecuador is suffering, it was declared the state of electrical emergency in all the national territory through the Presidential Decree No. 124, which article Sixth says: *"The Ministry of Electricity and Renewable Energy (...) will adopt the measures to implement a program of electrical energy saving."*

Under this context, the Ministry of Electricity and Renewable Energy has decided the substitution of incandescent light bulbs by compact fluorescent lamps to save energy in the residential and commercial sectors. The Ministry requests a technical and economical offer by November 28th, 2009 in order to supply and deliver to Ecuador the quantity of 6'500.000 compact fluorescent lamps, which must comply with the following technical specifications:

Lamp Rating: 20 or 23 W

- Average Lifetime: more than 6.000 hours.
- Luminous Flux: more than 55 lumen / W
- Base: E27
- Model: 3U or spiral.

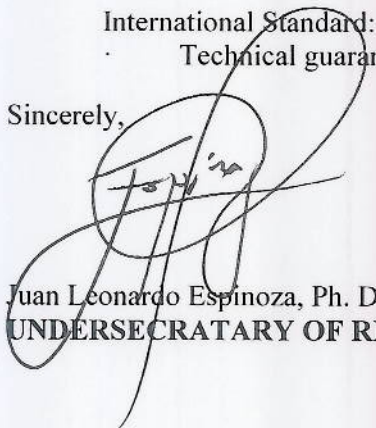
Voltage: 120V +/- 15%.

- Frequency: 60Hz.
- Mercury Content: less than 5mg.
- Power factor: more than 0.6
- Lamp color: cold (6400 K) or warm (2700 K)
- THD voltage: Less than 2%
- THD current: Less than 120%

International Standard: IEC 60969 or RTE035.

- Technical guarantee: At least 12 months for manufacture failures.

Sincerely,


Juan Leonardo Espinoza, Ph. D

UNDERSECRETARY OF RENEWABLE ENERGY AND ENERGY EFFICIENCY