

CERTIFICATE OF DESIGNATION OF NEW TECHNOLOGY

- **TITLE :** WIRELESS CENTERLINE ROAD MARKER USING SOLAR ENERGY
- **DEVELOPER :** KIM, KWUNG CHUL
- **PROTECTION PERIOD :** 5 YEARS FROM DATE DESIGNATION
- **SUMMARY OF NEW TECHNOLOGY :**

This wireless road marker technology, using sunlight, involves transforming solar energy into electric energy so that the road marker illuminates automatically at nighttime without other external sources of energy. This was conceived to help prevent accidents caused from centerline violations by securing greater visibility for drivers.

Scope of the technology is as follows :

1. Wireless road centerline indicating device, using sunlight, which is to be used on roads
2. The device minimizes electrical discharge rate by varying the blinking speed
3. The device may be recycled as the main body has been designed to be dismantled from the lower covering part

- **CONTENTS OF PROTECTION :**

- The technology developer may receive royalty from the user(s).
- The use of this new technology is recommended in preference to similar foreign technology.
- The ordering authority may be advised to conduct test performance of new technology equipment, etc. and a pilot project according to the new method.
- Where the results of such performance tests and pilot executions prove superior, the ordering authority may recommend the use of this new technology over other similar technologies to public works implemented by the said authority.

Above technology is hereby designated as a New Technology in accordance with Article 18 of the Construction Technology Management Act.

April 8, 1999

MINISTER OF CONSTRUCTION AND TRANSPORTATION

REPUBLIC OF KOREA

