

## **SPECIFICATIONS**

### **“Improvement of ECHONET Lite certification support center in Malaysia”**

#### **1. Subject Matter**

Improvement of ECHONET Lite certification support center in Malaysia

#### **2. Objectives**

ECHONET (Energy Conservation and Homecare Network) was conceived in 1997 to provide the base technology for the development of next-generation home network systems. The aim for a universal communication standard is to link home appliances made by different manufacturers and providing various services using easily installed transmission media, in both new and existing homes.

ECHONET Lite is the improved version of ECHONET and it has more flexibility in communication media and expanded controllable devices heading to energy creation, energy storage and energy saving for HEMS (Home Energy Management System). On February 2012, Smart House Standardization Council recommended ECHONET Lite as the public and standard interface for HEMS in Japan. The ECHONET Lite certification support center was established on November 2012, which provides interoperability certification and development support in order to spread ECHONET Lite in Japan.

The ECHONET Lite certification support center in Malaysia was established and begun to be operated in JFY 2013. This center has been operated as the first global ECHONET Lite certification support center placed outside Japan and supervised by ECHONET Consortium, the HEMS Certification Support Center in Japan, and Japanese experts in this field.

This year, the center will be improved and upgraded in its functions etc.

#### **3. Contents of implementations**

As the upgrading of our ECHONET Lite certification support center in Malaysia, the

Contractor must install the additional equipment for connection test and improve its hardware environments and make a showcase that original application controls ECHONET Lite device, e.g. air conditioners and lightings, on IP network environment.

The Contractor must receive the IAE's acceptance of the Contractor's improvement plan before implementation of the upgrading

#### **4. Meeting to report about project**

IAE will hold a meeting to report about this implementation. The contractor should dispatch a researcher to the meeting, and should report information and findings of research which will be available up to the meeting. The meeting will be held in Tokyo. The details will be adjusted based on the progress of implementation.

#### **5. Contract Period**

From: The date of contract signing

To: February 27, 2015

#### **6. Interpretation of specifications and treatment of matters not stipulated herein**

Any matter not stipulated herein shall be discussed with the Director of Research and Development Division IAE and his directions followed.

#### **7. Submission of Outcomes**

(1) Interim Report

1) Items of Delivery

One set of electric files of the report

2) Delivery Deadline

The details will be adjusted based on the progress of project.

(2) Final Report

1) Items of Delivery

- Two sets of hard copy
- One set of electronic files of the report

2) Delivery Deadline

February 27, 2015

(3) Place for Delivery

Research and Development Division, The Institute of Applied Energy

## **8. Acceptance**

Acceptance inspection comprises receive of the completion notice and check of the final report.