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Republic of the Philippines  
**ENERGY REGULATORY COMMISSION**  
San Miguel Avenue, Pasig City

RECEIVED BY: \_\_\_\_\_

IN THE MATTER OF THE  
APPLICATION FOR  
APPROVAL OF THE  
IMPLEMENTATION OF ITS  
ADVANCED METERING  
INFRASTRUCTURE (AMI)  
PROJECT,

ERC Case No. 2017-020 RC

**MANILA ELECTRIC COMPANY  
(MERALCO),**

*Applicant.*

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**APPLICATION**

Applicant **MANILA ELECTRIC COMPANY ("MERALCO")**, by counsel, most respectfully states that:

1. MERALCO is a private corporation duly organized and existing under the laws of the Republic of the Philippines, with principal office located at Lopez Building, Ortigas Avenue, Barangay Ugong, Pasig City. It may be served with notices and other processes of this Honorable Commission through its undersigned counsel at the address indicated herein.

2. MERALCO has a legislative franchise to construct, operate and maintain an electric power distribution system for the conveyance of electric power to the end-users in the cities and municipalities of Metro Manila, Bulacan, Cavite and Rizal, and certain cities/municipalities/barangays in Batangas, Laguna, Quezon and Pampanga, pursuant to Republic Act No. 9209.

3. This Application is being filed in compliance with Article II, Section 6 of the Rules to Govern the Implementation of an Advanced Metering Infrastructure System by Distribution Utilities and ERC-Authorized Entities ("AMI Rules"), which requires distribution utilities to file with this Honorable Commission, for its approval, an application to implement an AMI Project prior to the commercial roll-out of such service to its customers. The summary of the AMI Project is set out in Annex "A" of this Application.

4. MERALCO shall begin the implementation of its AMI Project by 1 June 2017, subject to the approval of the necessary Capital Expenditure (CAPEX) projects.

5. To be able to implement the AMI Project, MERALCO shall install smart meters within AMI-activated areas for all new and recontracting MERALCO customers.

6. Within AMI-activated areas, MERALCO shall also be replacing the electric meters of existing MERALCO customers under the following circumstances:

**a. Meters due for replacement**

Existing customers whose meters are already defective and/or have reached the end of their useful lives will have their meters replaced with smart meters.

**b. Elevated metering centers (EMCs)**

Customers under EMC installations will now have another way to access their consumption and account-related information, including meter reads, at their own convenience.

Meralco will start with the use of smart meters for new EMC installations. On the other hand, existing EMC installations will be converted to smart meters, if it will be covered by the other circumstances.

**c. Late Payors/Delinquent Customers**

MERALCO, through AMI, will help customers manage their energy usage and establish good payment habits through Prepaid Retail Electricity Service (PRES) and Postpaid Plus (PP+).

Customers who have not paid and/or have paid their bills beyond the due date at least three (3) times within a twelve (12) month period will have smart meters installed to enable them to monitor and manage their consumption through, among other things, budget limit alerts and daily consumption notifications.

To maximize efficiencies, the replacement of the meters of existing customers under the circumstances above will be performed on a per meter reading route basis with priority being given to routes serving high cost to serve areas.

7. **Network Analytics.** To further utilize the AMI communications network and capabilities of the smart meter, MERALCO will be installing field devices/sensors leveraging on AMI in monitoring select distribution transformers (DTs). MERALCO may also deploy smart meters to act as sensors to facilitate network analytics in certain covered areas.

8. Once basic services become available in AMI-activated areas, customers will be given PP+ as the default service. However, the customer will still have the option to apply for/switch to Prepaid Retail Electricity Service (PRES).

### **MERALCO'S AMI BASIC SERVICES**

9. In accordance with the AMI Rules, the following basic services shall be provided:

#### **a. Remote Reading**

i. MERALCO's AMI is capable of retrieving both the interval and register reads.

ii. MERALCO will retrieve the register reads of the customers' meters at the end of every billing period. The customer will have access to the monthly registered data within forty-eight (48) hours from the meter reading.

iii. MERALCO reserves the right to conduct on-site retrieval of meter reading in the event of any AMI-system malfunction which renders remote reading impossible. In such situations, meter reads may not be immediately available.

#### **b. Remote Connection**

MERALCO is capable of providing remote connection for new customer service applications with AMI meters. However, MERALCO's current policy is to energize new customer applications through field crew deployment and in the presence of the customer. This is to ensure that the premise where the electric connection will be activated is safe for energization and is free from illegal/unauthorized connections.

#### **c. Remote Disconnection and Reconnection**

##### *Remote Disconnection*

i. MERALCO's remote disconnection policy shall be aligned with existing laws, when applicable, including but not limited to

Republic Act (RA) No. 7832, otherwise known as the Anti-Electricity Pilferage Law, and its Implementing Rules and Regulations (IRR), and applicable rules and regulations of the Honorable Commission, such as the Magna Carta for Residential Electricity Consumers ("Magna Carta") and the Distribution Services and Open Access Rules ("DSOAR"), as amended.

ii. For delinquent postpaid accounts, remote disconnection shall be automatically triggered after the lapse of the 24-hour remote disconnection warning (RDW). If the postpaid account falls within the cases enumerated in the Magna Carta when the disconnection of an electric service may be suspended, the customer, in such cases, is required to promptly inform the DU to stay the disconnection.

iii. Remote disconnection can also be undertaken for non-delinquent services upon the registered customer's written request for justifiable reasons and subject to the execution and submission of a Disconnection Waiver.

#### *Remote Reconnection*

i. As a general rule, remote reconnection of a previously-disconnected electrical service shall be undertaken within one (1) hour from payment of customer's arrearages to MERALCO unless there are system and technical constraints.

ii. MERALCO may likewise manually trigger remote disconnection and reconnection at its discretion for valid and justifiable reasons such as, but not limited to, safety and emergency concerns, confirmed tampering (subject to RA 7832 and its IRR), non-settlement of differential billing, and other business-related commercial issues.

iii. Considering technical and physical limitations, remote disconnection and reconnection cannot be offered to customers with CT-rated metering installations.

#### **d. Meter Irregularity Detection**

i. The meter irregularity detection function will be triggered under the following circumstances:

1. When the smart meter is removed from its base and/or installation; or
2. When the smart meter ceases operations, other than due to disconnection and termination; or

3. When there is loadside voltage while the meter is at disconnected status or when the internal meter relay is at Open State; or

4. Other analogous circumstances.

ii. Once the AMI infrastructure detects an irregularity, the information received shall be subjected to manual audit in order to determine if further analysis and validation should be performed. System indicators or flags will be analyzed to determine the nature of the irregularity which may include, but is not limited to, the following:

1. Reverse flow energy; or

2. Lost status; or

3. Unexpected consumption

iii. Thereafter, analyzed indicators or flags will be subjected to the usual business processes in verifying suspected Violations of Contract (VOC) and Service Irregularities (SI) in accordance with RA No. 7832 and its IRR, as well as the applicable rules and regulations of the Honorable Commission.

iv. MERALCO intends to file a separate application for the additional application systems to analyze and verify detected meter irregularities in order to maximize resources.

#### **e. Outage Detection and Notification**

i. MERALCO's smart meter is capable of detecting outages when the power to the meter is lost. The smart meter will transmit the outage information to MERALCO's head-end system via AMI. The following information gathered from the smart meters shall include: (a) the meter number and (b) a time stamp of when the outage occurred.

ii. Upon receipt of the outage information, MERALCO shall conduct an outage analysis and validation to verify the affected facilities and initial assessment of the outage.

iii. Depending on the nature of the outage, the customer shall be informed, through the customer-enrolled channel with MERALCO, the occurrence of the power outage and the cause, if possible, of such power outage through the web portal and the customer's preferred channel. However, for widespread outages,

notifications shall be sent via social media channels like Facebook, Twitter and other similar channels.

iv. For purposes of Outage Detection a customer shall only be notified of a sustained interruption consistent with the definition of an outage under the globally-accepted Institute of Electrical and Electronics Engineers (IEEE) Standard 1366-20031.

v. With the ongoing implementation of ADMS and development of the Customer Outage Portal (part of MERALCO's approved RY2016 CAPEX program), MERALCO will be able to enhance its implementation of its Advanced Outage Management program. MERALCO's AOM program is detailed further in a separate section below.

**f. Consumption Monitoring, Reporting, and Alerts/ Notification Mechanism**

i. In accordance with the AMI Rules, Meralco shall make available an online web portal to provide a consumption monitoring and reporting mechanism for AMI customers.

ii. The customer can access the following account-related information through the web portal:

1. Running kWh and estimated Php consumption (as of 12:00mn of the previous day) within the billing cycle;
2. Previous billing cycle's kWh and actual Php consumption;
3. Historical monthly kWh and actual Php consumption for the previous 13 months; and
4. Other relevant information.

iii. MERALCO shall also send notifications and alerts, such as usage alerts, outage alerts, disconnection/reconnection alerts, and others through Short Messaging Services (SMS).

iv. Customers may also subscribe to receive alerts and notifications through additional digital channels as they may become available:

1. E-mail;

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<sup>1</sup> Sustained Interruption: Any interruption not classified as a part of momentary event. That is, any interruption that lasts more than 5 minutes.

2. Mobile Application(s) or Apps; or
3. Other channels that may become available

v. Customers will be able to specify the frequency of receiving alerts and notifications, including the option to opt out. Additional fees for receiving more frequent alerts or notifications and/or through an additional channel, other than the default channel, may apply.

10. The information that shall be made available to customers through the various channels may be summarized as follows:

	Web Portal	SMS	Email	Mobile App
Meter Reading	D	D	✓	✓
Discon/Recon status	D	D	✓	✓
Outage Information	D	D	✓	✓
Running kWh and estimated Php consumption within the billing cycle	D	D	✓	✓
Previous billing cycle's kWh and actual Php consumption	D	D	✓	✓
Historical monthly kWh and actual Php consumption for the previous thirteen (13) months	D	N/A	✓	✓
Budget limit alert	D	D	✓	✓

Legend: D – default, ✓ – available option

The sample reports/messages/alerts to be shown to customers in connection with the AMI basic services is set out in Annex “B” of the instant Application.

11. Subject to technology and policy constraints, all AMI Services will be made available to contestable customers. The detailed discussion on the AMI services for contestable customers, including the proposed deployment schedule, is set out in Annex “C”.

### **MERALCO'S AMI SUPPLEMENTAL SERVICES**

12. Other than the basic services, MERALCO shall offer the following AMI supplemental services:

**a. Prepaid Electricity under K-Load**

MERALCO will continue to offer prepaid electricity in accordance with the PRES Rules and the Decision dated 27 April 2015 in ERC Case No. 2014-001 PRES.<sup>2</sup>

**b. Net Metering**

i. MERALCO is currently implementing a Net Metering Program in accordance with applicable rules of the Honorable Commission, particularly ERC Resolution No. 9, Series of 2013, otherwise known as the Net Metering Rules.

ii. In accordance with the AMI Rules, MERALCO will install single bi-directional smart meters capable of recording both import and export energy for all Net Metering customers.

1. For new and future Net Metering installations, single bi-directional smart meters shall be installed if within the coverage of AMI communication infrastructure.

2. For the existing NM installations using (1) two separate meters; and (2) single bi-directional non-smart meters, Meralco has prepared a conversion implementation plan for the Honorable Commission's approval.

**c. Advanced Outage Management**

i. Last September 2016, MERALCO started the deployment of its Advanced Distribution Management System (ADMS), which is a key component of Meralco's Advanced Outage Management (AOM).

ii. Once an outage is detected by the smart meters or reported to the Call Center, the ADMS will analyze the extent of the power outage by performing outage analysis. ADMS will then facilitate the dispatching of field crews through its Integrated Mobile Computing System (IMCS) to perform the necessary restoration works.

iii. The ADMS will also provide the outage data to the Customer Outage Portal, which in turn will notify the affected customer/s through their preferred communication channels.

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<sup>2</sup> In the Matter of the Application for Authority to offer and provide Prepaid Retail Electric Service (PRES) to Customers in Manila Electric Company's (MERALCO) Franchise Area, with Prayer for Provisional Authority.



iv. After restoration, the field crew will update the status in IMCS. The smart meters will trigger the sending of another notification to the ADMS to confirm its power status.

v. To further enhance its AOM, MERALCO has filed with the ERC the upgrade/replacement of the Call Center System in RY 2016 under MER 21. It also intends to file the upgrading of IMCS and other CAPEX as needed.

**d. Demand Response**

Currently, Meralco is implementing the Interruptible Load Program (ILP) and Time-of-Use (branded as Peak Off-Peak) as its Demand Response programs to its customers. A pilot project design for Demand Response projects that will demonstrate the consumer's ability to alter electricity consumption at their location when electricity prices are high or the reliability of the grid is threatened during high system demand situations will be proposed.

**e. Home Area Network (HAN)**

HAN service is envisioned to be available for all AMI-enabled customers (PRES and PP+). Initially, only PP+ customers will be part of the planned HAN Technical Pilot, which is targeted to commence after the PP+ Commercial Pilot implementation scheduled on the fourth quarter of CY 2017.

**f. Electric Vehicle Supply Equipment (EVSE) Management**

The electric vehicle supply equipment (EVSE) infrastructure includes the conductors, electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets or apparatuses installed specifically for the purpose of delivering energy from the customer premises wiring to an electric vehicle (EV Charging Station). MERALCO intends to include EVSE Management as a module embedded in the total AMI system.

**g. Smart Streetlights**

i. MERALCO intends to incorporate smart streetlights as part of its AMI Project through the purchase of compatible luminaires equipped with communication modules to replace ageing facilities within the AMI coverage areas. MERALCO will file the necessary CAPEX for the pilot project to test the advanced capabilities of smart streetlights.

ii. With Smart Streetlights, automatic notification of streetlight outages and detection of secondary line outages will ensure faster maintenance response to improve public safety and convenience. Likewise, during adverse and emergency conditions when public safety is at risk, MERALCO can remotely monitor and control the status of smart streetlights, especially in flood-prone areas. Smart streetlights will help improve the AMI network's mesh capability as they serve as repeaters.

#### **h. Management of Distributed Energy Resources (DERs)**

Considering that the current level of DER penetration, MERALCO is looking for the proper platform for managing the impact of Distributed Energy Resources (DERs) such as Solar PV, Wind Turbines, Biomass, and the like.

#### **i. Distribution Automation (DA) Infrastructure Support**

As part of its overall distribution network reliability, power quality, and efficiency improvement initiatives, MERALCO has been implementing its Distribution Automation (DA) program which involves the installation of back-end systems (e.g., ADMS, SCADA), communications infrastructure, and line devices (e.g., remote controlled switches/reclosers, line sensors, DT monitoring equipment). MERALCO is looking at the possibility of using its AMI's RF Mesh communications infrastructure for its DA program.

The detailed discussion of these supplemental services are set out in Annexes "D" and series, respectively.

13. MERALCO may file a separate application for the approval of any CAPEX and/or additional rules to govern the commercial roll-out of AMI supplemental services as may be necessary. MERALCO further reserves the right to file an application for other value-added services anchored on AMI that it may decide to offer or may become available in the future.

### **MERALCO'S ADVANCED METERING INFRASTRUCTURE**

14. To be able to provide the basic and supplemental services, MERALCO intends to build on and further enhance its existing AMI. The proposed expanded AMI shall be composed of the following major components:

#### ***Major AMI Components***

##### **a. Smart Meters**

i. MERALCO is currently utilizing smart meters for the provision of PRES to enrolled customers in accordance with the provisions of the PRES Rules and the Decision dated 27 April 2015 in ERC Case No. 2014-001-PRES. These smart meters have already been type-approved by the Honorable Commission. MERALCO may use the same type and manufacturer for its AMI deployment to captive customers as these smart meters are compliant with the minimum specifications under the AMI Rules.

ii. Unless warranted, MERALCO will maintain the same smart meters for the provision of AMI supplementary services.

iii. If MERALCO will employ a different type/brand or manufacturer of smart meters in its AMI deployment, such smart meters will only be deployed once they have been type-approved by the Honorable Commission and should be capable of providing the above-mentioned minimum technical specifications to support the delivery of basic AMI services.

iv. The detailed specifications of the smart meters, the relevant type approvals and the future roadmap are set out in Annex "E".

#### **b. Communications Infrastructure**

i. The data from the smart meters are transmitted through the AMI wireless communication infrastructure, currently via Radio Frequency (RF) Mesh and GPRS, and subsequently collected by the Meter Data Collection System (MDCS), also known as Head-end System.

ii. The network is bi-directional, enabling the flow and transfer of data and commands from the Implementing Systems to the meter-end and vice versa.

#### **c. Implementing Systems**

i. The data transmitted by the communications infrastructure is utilized by various implementing systems that allow MERALCO to deliver the AMI Services. Meralco's implementing systems are composed of three (3) major application groups, namely, the existing AMI-IS, new customer applications and other major supporting applications.

ii. New systems need to be deployed in order to fully deliver the AMI services and to manage all interactions with the customers through multiple channels. These new systems include

the Customer Relationship Management (CRM) System, Customer Portal, Payment Gateway, Outage Portal, and Consumption Report.

15. The proposed AMI components are certified to meet international metering and communications standards. The detailed discussion on the planned AMI architecture, the major AMI components and how the entire infrastructure will support the AMI services is set out in Annex "F".

### **AMI CYBERSECURITY AND DATA PROTECTION**

16. The AMI Project will be provided with stringent cybersecurity and data protection measures throughout the network at all levels in compliance with the international and local standards. The cybersecurity and data protection policies and principles are set out in Annex "G" and made an integral part hereof.

### **DATA RETENTION AND AVAILABILITY POLICY**

17. MERALCO will make available in the web portal consumption information for the last 13 months.

- a. For the current billing cycle: Daily kWh and estimated Php (as of 12mn) consumption
- b. For the last 13 months: Monthly kWh and actual Php consumption

18. For historical monthly consumption beyond 13 months, the customer may request for the needed information from the Business Centers or through the Call Center, which will be provided via email or print out. The system is capable of providing up to the last five (5) years of information from date of request as shown in the sample format attached as Annex "B".

### **AMI BENEFITS AND ADVANTAGES**

19. AMI is expected to help customers through the following:
  - a. Efficient management of their energy usage and budget through consumption information, alerts and notifications, that will consequently enable them to save;
  - b. Flexible payment method/s via prepaid and postpaid;
  - c. Faster reconnection upon payment of bill;

- d. Increased knowledge and awareness of outage information

20. The projected savings in kWh consumption of AMI customers as a result of AMI implementation would also redound to the benefit of MERALCO's entire customer base by:

- a. Lowering MERALCO total demand, thus, mitigating possible supply shortages, reducing the need for reserve and peaking plants, and limiting exposure to WESM. Overall, these would result in lower rates.
- b. Helping minimize the incidence of congestion in the distribution network, especially during times of peak periods, resulting in a more efficient utilization of network assets.
- c. Contributing to the reduction of carbon emissions and greenhouse gas output, due to reduction of total demand and efficient utilization of network assets.

21. Apart from the customer benefits, the utility benefits in the following ways:

- a. Operational Efficiency

Through the remote functionalities of the smart meters, execution of manual activities such as meter reading, truck rolls for service disconnection and reconnection will be reduced.

- b. Safety precaution during calamities

In coordination with the local government, the utility is able to remotely disconnect the smart meters serving all affected households, streetlight and traffic lights to prevent electrocution of residents during flooding, typhoons, and natural calamities.

- c. Remote Detection of Potential Service Irregularities and Violation of Contract

The utility is able to detect service irregularities and violation of contract through events and analysis of data. This will improve management of metering inspection activities through more targeted field crew dispatch.

- d. Remote detection of damaged smart meters

AMI helps utilities analyze meter status and data in order to determine if the smart meter installed in a customer premise is damaged or needs to be replaced.

e. Network analytics

The utility is able to remotely conduct load analysis through the summation of smart meters in a secondary circuit, which will help the utility assess/improve the power quality situation in an area.

**AMI PROJECT DEPLOYMENT AND COMMUNICATION PLAN**

22. MERALCO's AMI deployment strategy is to scale up AMI quickly and efficiently to maximize customer and utility benefits. MERALCO will be installing smart meters to different use cases within the AMI coverage areas.

- a. AMI meters will be mandatorily deployed to customers, which include both residential and non-residential customers, in accordance to the deployment plan.
- b. Expansion of AMI Communication coverage area

To efficiently expand the AMI coverage, MERALCO will take the existing coverage areas as starting points for the consequent communications infrastructure installation. From the "belt" – Manila, Makati, Mandaluyong, Pasig and portions of Rizal, MERALCO will be activating adjacent cities such as San Juan, Quezon City, Taguig, Marikina, Pasay, Caloocan, Pateros (filed in MER 23 RY 2017 CAPEX filing) as AMI-covered areas. This concentric expansion will continue until coverage of Metro Manila is completed in RY 2019 and the whole franchise in RY 2022.

From the identified coverage areas per RY, and proposed meter installations and replacement, MERALCO will be activating an estimated total of 3.3M customers and targeted points within the distribution network by 2024.

23. Details of MERALCO's proposed deployment plan for its AMI Project is set out in Annex "H."

24. Considering the timing of the phased deployment, the first phase of the AMI Project communication plan shall be geared towards informing and educating customers on what AMI is about and its benefits to consumers. Whenever possible and feasible, MERALCO shall rely on existing channels such as: (a) Meralco Business Center programs; (b) Direct mail; (c) Social media, websites and mobile apps; and (d) Conduct of forums. MERALCO's detailed communication plan for its AMI Project is set out in Annex "I."

## COST RECOVERY

25. All the costs associated with the provision of the services under the AMI project, will form part of the annual revenue requirement that will be the basis for Meralco's regular rates.

26. As in any roll out plan affecting all customers, those within a customer class, whose meters are replaced ahead of the others, will not be charged differently from those whose meters have not yet been replaced.

27. For certain supplemental services, incremental costs associated with the services will be the basis for the collection of incremental charges.

28. Considering the needed preparations and requirements, MERALCO requires sufficient preparation period prior to the target initial commercial offering date.

29. In support of the allegations in this Application, attached as Annexes "J" and "K" of the Application are the Judicial Affidavits of MERALCO's Senior Assistant Vice President and Head of Corporate Technology Strategy and Architecture, Mr. Juan Carlo S. Casem, and Manager, Customer Solutions and Product Development, Engineer Jonathan M. Aguilar.

## PRAYER

**WHEREFORE**, it is most respectfully prayed to this Honorable Commission that, subject to filing of the necessary capital expenditure:

1. the AMI Project be **APPROVED** and MERALCO be allowed to deploy its Basic AMI Services under the terms and conditions in this Application starting 1 June 2017, subject to the approval of the necessary Capital Expenditure (CAPEX);

2. MERALCO's implementation of its Prepaid Retail Electricity Service (PRES), Net Metering Program, Advanced Outage Management (AOM), Distribution Automation, and Smart Streetlights be **DEEMED IN COMPLIANCE** with the AMI Rules; and

3. **ALLOW** MERALCO to offer the following AMI Supplemental Services: (a) Demand Response (DR); (b) Home Area Network (HAN); (c) Management of Distributed Energy Resources (DER); and (d) Electric Vehicle Supply Equipment Management for commercial deployment upon the filing, if

necessary, of the applicable CAPEX and rules and guidelines to govern these services.

Applicant MERALCO prays for such other relief as are deemed just and equitable under the premises.

Pasig City, 10 March 2017.

**MANILA ELECTRIC COMPANY**

Lopez Building, Ortigas Avenue  
Barangay Ugong, Pasig City

By:



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MCLE Compliance No. V-0004608; 6 November 2014



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REPUBLIC OF THE PHILIPPINES     )  
CITY OF PASIG                     ) s.s.

**VERIFICATION  
AND CERTIFICATION OF NON-FORUM SHOPPING**

I, **JOSE RONALD V. VALLES**, Filipino, of legal age, married, with office address at 7th Floor, Lopez Building, MERALCO Compound, Ortigas Avenue, Barangay Ugong, Pasig City, after being sworn in accordance with law, hereby depose and say that –

1. I am the Vice President and Head, Regulatory Affairs Office, of Applicant Manila Electric Company (“MERALCO”). In such capacity, I have caused the preparation and filing of the foregoing Application;

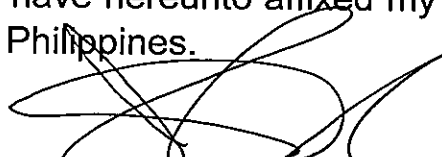
2. Moreover, I have been authorized by the Board of Directors of MERALCO to certify that Applicant has not heretofore filed any similar action, pleading or application involving the same issues before the Supreme Court, the Court of Appeals or any other lower courts or administrative bodies. A copy of the Secretary’s Certificate authorizing me to cause the preparation of the instant Application and sign this Verification and Certification is attached hereto as **ANNEX “L”**;

3. I have read and understood the allegations contained therein and the same are true and correct based on my personal knowledge and authentic records made available to me in the ordinary course of business of MERALCO;

4. To the best of my knowledge, no similar action or proceeding is pending before the Supreme Court, the Court of Appeals, the lower courts or administrative bodies;


5. If I should hereafter learn that a similar action has been filed before the Supreme Court, the Court of Appeals, the lower courts or administrative bodies, I undertake to report such fact to this Honorable Commission within five (5) days from notice of such fact.

**IN WITNESS WHEREOF**, I have hereunto affixed my signature this 10 March 2017 at Pasig City, Philippines.

  
**JOSE RONALD V. VALLES**  
*Affiant*

**SUBSCRIBED** and **SWORN** to before me this  
MAR 10 2017, affiant having exhibited to me his Social Security  
System ID bearing the number 33-10900088:

Doc. No. 121 ;  
Page No. 26 ;  
Book No. 111 ;  
Series of 2017.

  
**ATTY. MICHAEL DAVID D. AZUCENA**  
Notary Public  
Pasig, San Juan, Taguig and Pateros  
Issued on December 25, 2015 at Pasig City  
Appointment No. 76 (2016-2017)  
Roll No. 58433/ IBP No. 1062733/ 01-09-17 Makati Chapter  
PTR No. 2682556/ 01-25-17 Pasig City  
MCLE VI-0000223-07/11/16  
8th Floor Lopez Bldg. Ortigas Avenue, Pasig City



ORTIGAS AVENUE, PASIG CITY  
0300 PHILIPPINES

ANNEX " L "

## SECRETARY'S CERTIFICATE

I, **WILLIAM S. PAMINTUAN**, a duly elected, qualified and incumbent Assistant Corporate Secretary of the Manila Electric Company (MERALCO), a corporation duly organized and existing under and by virtue of the laws of the Philippines, do hereby certify that:

At the regular meeting of the Board of Directors of the Company duly convened and held on February 23, 2015, at which meeting a quorum was present, acted throughout and voted, the following resolution amending the resolution of the Board on January 27, 2014 on the same subject, was approved and that said amendatory resolution is in full force and effect on the date hereof:

"RESOLVED, that the Board of Directors of the Manila Electric Company (MERALCO) authorize, as it hereby authorizes, Messrs. **MANUEL V. PANGILINAN**, Chairman, **OSCAR S. REYES**, President & Chief Executive Officer, **SIMEON KEN R. FERRER**, Corporate Secretary, **ALFREDO S. PANLILIO**, Senior Vice President, Head, Customer Retail Services and Head, Corporate Communication, **RAMON B. SEGISMUNDO**, Senior Vice President & Head, Human Resources & Corporate Services, **ROBERTO R. ALMAZORA**, Senior Vice President, **RUBEN B. BENOSA**, First Vice President & Head, Corporate Logistics, **Ms. IVANNA G. DELA PEÑA**, First Vice President & Head, Regulatory Management Office, **WILLIAM S. PAMINTUAN**, First Vice President, Assistant Corporate Secretary, Compliance Officer and Head, Legal and Corporate Governance, **RONNIE L. APEROCHO**, First Vice President & Head, Networks, **JOSE RONALD V. VALLES**, Vice President and Head, Regulatory Affairs, **MARIA ZARAH R. VILLANUEVA-CASTRO**, Senior Assistant Vice President & Head, Corporate Legal Services, **HORATIO ENRICO M. BONA**, Assistant Vice President & Head, Litigation Team 2, **RAUL G. CORALDE**, Assistant Vice President & Head, Litigation Team 1, **MICHELLE O. DELOS SANTOS-BONA**, Assistant Vice President & Head, Legal Operations Support, **EUGENE JUDE DENIS GERARD E. ALABANZA**, Senior Manager & Head, Litigation Team 3, **CORNELIO MANUEL C. DICCION**, Manager & Legal Counsel, and any lawyer or employee of MERALCO that any of them may designate, name or appoint:

- (1) to represent the Company, in the institution, prosecution, and defense of any claim, complaint, action, proceeding, petition, application, protest, suit, or case, for or against the Company, before any court, prosecutor's office, regulatory, quasi-judicial, or administrative body, agency, or office of the national or any local government;
- (2) to sign, execute, and deliver in connection therewith the necessary or appropriate complaint, petition, application, position paper, memorandum, all types of pleadings and motions, verifications, affidavit-complaint, counter-affidavit, affidavit of merit, affidavit of desistance, affidavit of witness, and all other affidavits of whatever nature, certificate of non-forum shopping, powers of attorney, certifications, and all other instruments as may be necessary or proper;
- (3) to represent the Company or to designate, name, and appoint a representative or an attorney-in-fact in behalf

of the company during the investigation, inquest, preliminary investigation, preliminary conference, pre-trial, mediation, conciliation, arbitration, trial, execution, and all other stages of or incidents related to the case, proceeding or action; to negotiate, enter into, and agree to an amicable settlement, compromise agreement, plea bargaining, admissions or stipulations of fact or documents, simplification of issues, limitation on the number of witnesses, alternative modes of dispute resolution, withdrawal, dismissal or waiver of claim or action; and to perform and execute any and all actions or deeds as may aid in the prompt disposition of such cases, proceedings, or actions filed in behalf of or against the Company;

“RESOLVED, FURTHER, that any previous resolution of the Board of Directors on the same subject matter that is inconsistent herewith shall be deemed terminated, superseded and revoked.”

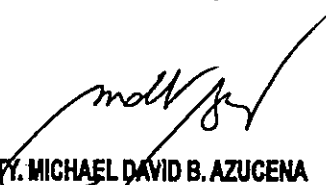
Pursuant to the above resolutions, it is hereby certified that MERALCO is authorized to file the Application with the Energy Regulatory Commission (ERC) entitled: “IN THE MATTER OF THE APPLICATION FOR APPROVAL OF THE IMPLEMENTATION OF ITS ADVANCED METERING INFRASTRUCTURE (AMI) PROJECT” and that Atty. JOSE RONALD V. VALLES, Vice President and Head, Regulatory Affairs, is an authorized representative and signatory of the company with respect to the aforesaid application.

WITNESS THE SIGNATURE of the undersigned as such officer of the Company and its corporate seal hereunto affixed on this    day of   MAR 01   2017.

  
WILLIAM S. PAMINTUAN  
Assistant Corporate Secretary

SUBSCRIBED AND SWORN to before me this    day of   MAR 01   2017, affiant exhibited to me his Taxpayer Identification Number (TIN) 146-473-562, issued by the Bureau of Internal Revenue (BIR) as his competent evidence of identity.

Doc. No.   101  ;  
Page No.   22  ;  
Book No.   111  ;  
Series of 2017.

  
ATTY. MICHAEL DAVID B. AZUCENA  
Notary Public  
Pasig, San Juan, Taguig and Pateros  
Issued on December 29, 2015 at Pasig City  
Appointment No. 76 (2016-2017)  
Roll No. 58433/ IBP No. 1062733/ 01-09-17 Makati Chapter  
PTR No. 2682566/ 01-25-17 Pasig City  
MCLE VI-0000223-07/11/16  
8th Floor Lopez Bldg. Ortigas Avenue, Pasig City



Republic of the Philippines  
**SANGGUNIANG PANLUNGSOD**  
City Government of Pasig

## ACKNOWLEDGMENT

This is to acknowledge the receipt of a copy of Manila Electric Company's (MERALCO) verified Application entitled "IN THE MATTER OF THE APPLICATION FOR APPROVAL OF THE IMPLEMENTATION OF ITS ADVANCED METERING INFRASTRUCTURE (AMI) PROJECT," with **attached Annexes**, served by MERALCO, prior to its filing with the Energy Regulatory Commission (ERC).

This acknowledgment is being issued upon the request of MERALCO for whatever legal intents and purposes it may served.

Issued this **10<sup>th</sup>** day of **March 2017** at Pasig City.

  
**REYNALDO R. SAN BUENAVENTURA III**  
Acting City Council Secretary

14.2017