

**Republic of the Philippines
ENERGY REGULATORY COMMISSION
Exquadra Tower
Jade Drive, Ortigas Center
Pasig City**

**IN THE MATTER OF THE
APPLICATION FOR THE
APPROVAL OF THE REFILED
LAPU-LAPU 230KV
SUBSTATION PROJECT, WITH
PRAYER FOR THE ISSUANCE
OF PROVISIONAL APPROVAL.**

ERC CASE NO 2026-028RC

March 04, 2026

**NATIONAL GRID
CORPORATION OF THE
PHILIPPINES,
Applicant.
X-----X**

APPLICATION

Applicant **NATIONAL GRID CORPORATION OF THE PHILIPPINES** (NGCP), by counsel, respectfully states that:

1. NGCP is a corporation created and existing under the laws of the Philippines, with principal office address at NGCP Building, Quezon Avenue corner B.I.R. Road, Diliman, Quezon City. It is the concessionaire, which was granted the rights and obligation to construct, install, finance, manage, improve, expand, operate, maintain, rehabilitate, repair, refurbish, and replace the Transmission Assets pursuant to Republic Act No. 9136, otherwise known as the "*Electric Power Industry Reform Act of 2001*" (EPIRA). It may be served with notices and other processes of this Honorable Commission through its counsel at the address indicated below.

2. Pursuant to Republic Act No. 9511, NGCP was granted the franchise to operate, manage and maintain, and in connection therewith, to engage in the business of conveying or transmitting electricity through a high-voltage backbone system of interconnected transmission lines, substations and related facilities, system

operations, and other activities that are necessary to support the safe and reliable operation of the transmission system¹ and is authorized to charge its customers at the rates approved by the Honorable Commission.

3. NGCP seeks authority from the Honorable Commission for the immediate implementation of the Lapu-Lapu 230kV Substation Project (or “the Project”) pursuant to Section 9 (d) of the EPIRA which directs NGCP to submit any plan for expansion or improvement of its facilities for approval by the Honorable Commission.

4. The proposed project aims to support the load growth in Mactan Island. The existing Mandaue–Lapu-lapu 138 kV Line has a total transfer capacity of 200 MW. The Lapu-lapu 138 kV GIS has a capacity of 3x100 MVA. Without the project, both the Mandaue-Lapu-lapu 138 kV Line and the Lapu-lapu 138 kV GIS will overload which will result in power curtailment on Mactan Island.

5. At present, the highly urbanized area of Mactan Island currently draws power from Lapu-lapu GIS. Shown in the tables below are the actual (2021-2025) and forecasted demand (2026-2040) of Mactan Island, and the historical loading of the monitored transmission facilities.

Actual (2021-2025) and Forecasted (2026-2040) Demand of Mactan Island

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2040
Mactan Island	168	163	183	198	193	222	233	246	259	271	288	306	324	343	359	451

Historical Loading of Monitored Transmission Facilities

Monitored Facility	Capacity (MVA)	Peak MW Loading				
		2021	2022	2023	2024	2025
Mandaue–Lapu-lapu 138 kV L1	106	75	78	81	82	85
Mandaue–Lapu-lapu 138 kV L2	106	77	77	81	82	84
Lapu-lapu 138/69 kV Transformer 1	100	75	78	81	82	88
Lapu-lapu 138/69 kV Transformer 2	100	77	78	81	86	89

6. Load flow simulations show that the Mandaue–Lapu-Lapu 138 kV underground cable is already overloaded under both normal and N-1 conditions. The Lapu-Lapu GIS, on the other hand, is projected to be overloaded under normal conditions by the year 2030, while it is already overloaded under N-1 condition. While the 45.5 MW diesel plant of East Asia Utilities (EAUC) may alleviate the aforesaid overloading, this is only a short-term solution.

7. Accordingly, the construction of a 230 kV Substation in Mactan Island is thus recommended to address the overloading problems.

¹ Section 1, Republic Act No. 9511;

8. The Lapu-Lapu 230kV Substation Project involves the construction of a 230 kV Pusok gas insulated substation (GIS), laying of the Umapad-Pusok 230 kV submarine cables (S/C) with 2x600 MW transfer capacity, which will traverse along a portion of the Mandaue LGU Reclamation Project and is aligned with the DPWH's proposed 4th bridge connecting Mandaue City and Mactan Island, as follows:

Major Project Components

Table 1: Substation Components

Substation	Power Transformer		Installation of New PCB	
	Qty	MVA	230 kV	69 kV
Pusok 230 kV GIS and associated lines	2	300	8	10

Table 2: Transmission Line Components

Transmission Line	Length	Voltage	Conductor/cable capacity	Type of Structure
Umapad-Pusok 230 kV S/C	1.375 km	230 kV	Submarine cable with 600 MW transfer capacity per circuit	Double Circuit S/C

9. The estimated cost of the proposed Lapu-Lapu 230kV Substation Project is Php8,331.655, with a projected implementation period of eighty-two (82) months.

10. The Project is exhaustively discussed in the *Project Application Document on the proposed Lapu-Lapu 230kV Substation Project* attached as **Annex "A."**

Justifications for the Issuance of Provisional Approval

11. NGCP is mandated to plan and construct transmission facilities to ensure reliable transmission service to its customers. In pursuit of this mandate, it provides adequate transmission capacity to foster economic growth and serve the growing demand of the load customers. Considering that planning, site development, right-of-way concerns, and construction of the transmission facilities would take several years to develop and complete, it is critical for NGCP to align its project development with the expected demand by acting immediately and address issues early through undertaking the proposed project.

12. Furthermore, the immediate approval of the Project is necessary as the Lapu-lapu 230 kV Substation Project aims to support the load growth in Mactan Island. The existing Mandaue-Lapu-lapu 138 kV Line has a total transfer capacity of 200 MW. The Lapu-lapu 138 kV GIS has a capacity of 3x100 MVA. Without the project, both the

Mandaue-Lapu-lapu 138 kV Line and the Lapu-lapu 138 kV GIS will overload which will result in power curtailment on Mactan Island.

13. In support of this application, NGCP submits the Judicial Affidavit of Engr. Michael R. Baylosis, Transmission Planning Manager, Transmission Development Division, Transmission Planning Department of NGCP attached as **Annex "B."**

PRAYER

WHEREFORE, premises considered, NGCP most respectfully prays that this Honorable Commission:

1. Immediately **ISSUE** an Order **PROVISIONALLY AUTHORIZING** the implementation of Lapu-Lapu 230kV Substation Project (Refiled); and

2. After notice and hearing, **APPROVE** the Application for the implementation of the Lapu-Lapu 230kV Substation Project (Refiled).

NGCP prays for other equitable relief.

San Juan City for Pasig City, 19 February 2026.

NATIONAL GRID CORPORATION OF THE PHILIPPINES

NGCP Building, Quezon Avenue corner
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Through the:

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By:



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Courtesy copy:

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REPUBLIC OF THE PHILIPPINES)

) S.S.

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

I, **MA. CYNTHIA Y. MANRIQUE**, under oath states that:

1. I am the Vice President and Head of the Revenue and Regulatory Affairs of the National Grid Corporation of the Philippines (“NGCP”) with office address at NGCP Head Office, NGCP Building, Quezon Avenue corner BIR Road, Diliman, Quezon City, Philippines; and I am duly authorized to sign the Verification and Certification of Non-Forum Shopping in the above-entitled Application for and in behalf of NGCP as evidenced by the Secretary’s Certificate hereto attached as **Annex “A-Verification”**;

2. I have caused the preparation of the foregoing Application;

3. I have read the Application and I attest that the allegations in the foregoing Application are true and correct based on my personal knowledge or based on authentic documents;

4. The foregoing Application is not filed to harass, cause unnecessary delay, or needlessly increase the cost of litigation;

5. The factual allegations therein have evidentiary support or, if specifically so identified, will likewise have evidentiary support after a reasonable opportunity for discovery;

6. NGCP has not filed any other similar Application or action, involving the subject matter of this Application before any court, tribunal or quasi-judicial agency and, to the best of my knowledge, no such other Application or action is pending therein; and

7. If I should thereafter learn that such similar Application, action or claim has been filed or is pending, I shall report that fact to this Honorable Commission within five (5) calendar days therefrom.

IN WITNESS WHEREOF, I have hereunto affixed my signature this 19 February 2026, in Quezon City, Philippines.

MA. CYNTHIA Y. MANRIQUE
Affiant

SUBSCRIBED AND SWORN to before me this 19 February 2026, in Quezon City, affiant exhibited to me her Philippine Driver’s Lic. No X01-91014806 issued by the LTO-QC.

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Series of 2026.

MR. RICO R. CASARA
Notary Public - Appointment No. 076
Commission until 31 December 2027
PTR No. 8368132; 01-05-2026; Quezon City
IBP Lifetime No. 08600; Bulacan
Roll of Attorney’s No. 53664; 27 April 2007
MCLE Compliance VIII-0011770, valid until 14 April 2028
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