January 29, 2025

Mr. Janio Leonardo Los

Operador Nacional do Sistema Elétrico

Rua Júlio do Carmo, 251 - Cidade Nova

20211-160 – Rio de Janeiro – RJ

RE: **Maintenance Support Services for Grid Protection Alliance, Inc., Products**

Dear Mr. Leonardo:

Per your request, this is a quote for Grid Protection Alliance, Inc., (GPA) to provide annual support services to Operador Nacional do Sistema Elétrico (ONS) for GPA synchrophasor applications in each of the two control centers as described below and reporting.

**Coverage and Licensing**

This agreement covers the following applications in each of two control centers:

* openPDC
* openHistorian
* Stream Splitter

GPA will grant a perpetual, non-exclusive, non-transferable license to use the latest version of the Enterprise Edition released during the term of this agreement **at no cost once released**. Support is provided for the deployment of new versions and patches during the term of this agreement; it is the sole responsibility of ONS to schedule deployments within this timeframe to receive such support.

ONS’s existing agreement covers these applications through June 3, 2025.

**Operating Environment**

This agreement is valid for two (2) operating environments, where an “operating environment” is defined as one or more instances monitoring the same data (e.g., Substation vs. Control Room, Transmission vs. Distribution, etc.), and an “instance” is defined as a separate installation (e.g., failover clusters; production, acceptance, and test; etc.).

Should either operating environment need to be split for performance or any other reason, this agreement will cover only the **original installation environments** until a separate agreement is arranged.

The services to be provided by GPA are described in the attached Product Maintenance Sheet.

**Pricing**

One (1) year of 24x7 support plus reporting is priced as follows:

|  |  |
| --- | --- |
| Package/Application | Price (annual) |
| openPDC | $20,000 USD |
| openHistorian | $20,000 USD |
| Stream Splitter | $2,500 USD |
| Reporting | $2,000 USD |

Given ONS and GPA’s pre-existing relationship, GPA offers a $27,000 USD discount annually, bringing the total cost to:

|  |  |
| --- | --- |
| openPDC EE x2 | $20,000 USD |
| openHistorian EE x2 | $20,000 USD |
| Stream Splitter EE x2 | $2,500 USD |
| Reporting | $2,000 USD |
| Total | $87,000 USD |
| Discount | -$27,000 USD |
| **Total Annual** | **$60,000 USD** |
| **Total Contract** | **$180,000 USD** |

Payment for the first year is due within thirty (30) days of the contract signing or start date and the second and third years due within thirty (30) days following the contract anniversary date with an annual cost of $60,000 USD.

**Time and Materials**

GPA will provide time and materials support services to assist ONS in operating its synchrophasor data system including the addition of additional software features and assistance in configuration among other services to be performed at the discretion of you and your staff. ONS has requested up to 20 hours of work per month at previously established GPA labor rates.

|  |  |
| --- | --- |
| Hourly | $180 USD |
| Monthly Total (20 hrs) | $3,600 USD |
| Annual Total (240 hrs) | $43,200 USD |
| 3 year Contract Total | $129,600 USD |

All work to be performed or supervised by senior personnel. Terms of payment are net 30 days.

GPA has the technical experience and capability to quickly meet ONS’s support needs for these products and to provide enhancements to them as your synchrophasor systems mature.

We look forward to this opportunity to provide support services to ONS. This offer is valid until May 31, 2025. If you have any additional questions, please do not hesitate to get in touch with me at (570) 637-7161 or [clackner@GridProtectionAlliance.org.](mailto:clackner@GridProtectionAlliance.org.)

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Description automatically generated

23-01-2025

Quote Authorization: Date:

Dr. Christoph Lackner, Operating Officer and Lead Engineer

Grid Solutions | Grid Protection Alliance, Inc.

Please sign, date, and return this quote to accept.

Quote Acceptance: Date: