

To: SEM SYSTEMS LTD (member of SEMAN Group)

Attention: Dr K. J. Satsios, CEO of SEMAN Group

Komotini, 25/04/2021

Dear Dr. Satsios,

We are pleased to inform you about the successful results of the **customized electric energy saving and power quality improvement project**, which your company successfully completed in November 2020.

Specifically, our company DIAXON PLASTIC PACKAGING MATERIALS SA assigned to your company SEM SYSTEMS LTD (a member of SEMAN Group) to perform a **new upgraded scientific project for electric energy saving and power quality improvement**, by applying for a second time in twelve years your scientific know-how, in the internal electricity distribution network of our plant in Komotini. It is worth mentioning here that the first energy saving project at the electrical installations of DIAXON was successfully executed by your company SEMAN in 2008.

Under the new project, the following actions were taken:

- **MAINTENANCE & UPGRADE:** All old interventions of the first energy saving project were maintained with new materials, so that their lifetime is extended, thus, they can contribute even more years to the electric energy saving. In addition, the interventions concerning the "heart" of the electrical installation of the plant were radically redesigned and upgraded based on all technological advances and developments of your technical department in the recent years. The above upgrades aimed to the greater contribution of the interventions to the power quality optimization and electric energy saving, especially in the most energy-intensive part of our electrical installation.
- **DESIGN AND INSTALLATION OF NEW INTERVENTIONS:** Regarding the new electric loads installed in the plant during the last years, new, state-of-the-art, custom-made interventions were designed and successfully installed, taking into account all technical particularities and environmental requirements of the plant.
- **FUTURE SUPERVISION:** At all project interventions (Maintained, Upgraded & New), it was installed new generation software, not only for the better control of their operation but also for their interconnection, in the near future, with a central monitoring system of all individual electric loads of the installation (SCADA).

The customized equipment, which was manufactured and delivered in time, included state-of-the-art components from top manufacturers of industrial equipment worldwide (SIEMENS, EPCOS, ABB, MERUS POWER, ACCUENERGY).

The project was installed and set into operation in **November 2020**. During our collaboration, the engineers of SEMAN Group & the technicians for the equipment installation demonstrated excellent attitude, punctuality, and professionalism. Moreover, from the time that SEM SYSTEMS set its project into operation, **the custom-made energy saving interventions are working completely fine, while they are optimizing the operation of our installation, too**. That proves that the engineers of SEMAN Group performed the best actions during the design, construction and installation phases of project interventions, to **ensure maximum reliability in project operating results**.

The project evaluation was performed via instant **measurements**, with and without each energy saving intervention into operation, **concerning the rms value of the consumption currents (I_{rms}) of the electric loads at the plant, according to which the achieved electric energy saving arises**. The measurements of the project evaluation were carried out twice in the presence of both parties, firstly during the project delivery in operation (03/11/2020) and secondly three months later (19/02/2021). **The weighted average energy saving result was calculated equal to 8,44%, greater than the guaranteed result of 7,8% according to the project contract**.

Concluding, **we consider SEM SYSTEMS's project to be absolutely successful, as it not only fulfilled but also exceeded its conventional goals**, while it also led to **significant additional improvements, regarding the operational conditions inside the electrical installations of our plant**. For all above reasons, **we highly recommend the customized energy saving project of SEMAN Group without hesitation**.

For DIAXON,



PAPALAZAROU NIKOLAOS
Maintenance Section Head