



MEMORANDUM OF UNDERSTANDING

Between:

Godavari Institute of Engineering & Technology (Autonomous), with administrative autonomy, located NH - 16, Chaitanya Knowledge City, Rajahmundry - 533296. Andhra Pradesh, India, here represented by **Dr. P. M. M. S. Sarma, Principal**, empowered to act, below abbreviated as **GIET (A)** ;
and

O-PITBLAST, Lda., company dedicated to providing optimization services, control, safety and quality aimed to the extractive industry, specifically in rock blasting using explosives, based in Rua Professor Manuel Baganha, nº 249, 4350-414 Porto, Portugal, with NIF 513831045, here represented by its partner **Eng. Francisco Sena Leite**, below abbreviated as **O-PITBLAST**.

1. Introduction

GIET (A) and **O-PITBLAST** company, identified above, considered of much interest to promote the strengthening of scientific and technical cooperation between the two institutions, so that, through their legitimate representatives, celebrate the present Memorandum of Understanding.

2. Objectives

Considering:

- The need to promote closer works between university and the business world;
- The gains from the promotion of cooperative mechanisms that allow, and encourage, the joint participation of the parties in the technical-scientific activities and research;
- The extractive industry details and the importance of optimization of its various production processes;
- Be of prime importance to promote the research in the area of the Mining, keeping up a constantly evolving process and a practical confrontation of the results of its application in mining activity;
- The rock blasting an area in constant development, depending on his, many subsequent processes of valorization of mineral raw materials;
- Being fundamental suit the Mining Engineers training to new technic/technological realities of the use of industrial explosives in rock blasting and allow them to contact with planning methodologies currently under development with a view to optimizing processes at various levels.

The parties undertake to cooperate with each other with a view to achieving the following general objectives:

- Collaborate in long term in the research field, promoting the increase in the number of those who dedicate time to the study and development issues in the area of the Mining;
- Establish cooperation mechanisms that make possible joint participation in projects and studies;
- Contribute to develop, by various means, an innovative culture of cooperation University - Enterprise, which results in better training to Mining Engineers;
- Develop innovative ways to increase productivity, service quality, image and competitiveness of the company **O-PITBLAST** the global market.
- **The O-PITBLAST** undertakes to **provide up to 30 licenses of O-PITBLAST – OP Platform Software totally free** (for information purposes, a contributed benefit of 150000,00€). The software will

be installed by following the safety requirements demanded by the **O-PITBLAST** in university equipment and laboratories belonging to the same. **O-PITBLAST** also commits to keeping the software up to date according to the release of the latest version to date.

3. Actions to be taken

The proposed collaboration will be developed with the possibilities of each institution and carried out by:

- Conducting joint research projects;
- Collaboration in the implementation of specific projects requested by the business sector of the extractive industry sector;
- Stimulating debates, involving people of both institutions, leading to the definition of new research topics, both for undergraduate project, Master's Thesis or Doctoral Theses, to be held in **GIET (A)**;
- Promotion of internships for students and/or young graduates by **GIET (A)**;
- Mutual participation in conferences, symposiums, seminars, workshops and public initiatives;
- Implementation of training activities for various audiences;
- Participation of elements from **O-PITBLAST** in open classes/courses of Mining Engineering;
- Cooperation in the organization of specialized courses, including for the promotion of new practices that promote sustainability at various levels within the rock blasting with explosives;
- Participation in outreach initiatives of Mining Engineering for young people;
- Others to be defined.

4. Resources Management

For the realization of the interventions made in **point 3.**, **GIET (A)** ensures representation expenses (for 1 or 2 technicians - to be defined) for the following:

- Travel from Porto, Portugal to the event in question;
- Travel from airport to hotel / accommodation;
- Travel from hotel / accommodation to the event in question;
- Accommodation (with Internet access);
- Daily breakfast, lunch and dinner;
- Extra representation expenses (minimum and ultimately) essential to the smooth running of the event (taxi, prints, etc.).

5. Memorandum of Understanding Management

The management of this Memorandum of Understanding shall be secured by a representative nominated by each of the institutions that will have the privileged mission to establish results from it, that benefits both institutions.

From **GIET (A)**, is designated, **Dr. P. M. M. S. Sarma** and from **O-PITBLAST**, is designated **Eng. Francisco Sena Leite**.

6. Duration, alteration and termination of the Memorandum of Understanding

This Memorandum of Understanding will last for five years, which can be renewed for the same period, by a writing express agreement of the parties. This agreement will set as an addendum to this **Memorandum of Understanding**. It may be revoked at any time by mutual agreement, expressed by any of the parties, within the principle of good-faith, when a just cause situation for termination is considered, by prior written communication. During the term of the Memorandum of Understanding may be introduced alterations, which, by mutual agreement and after formalization, became an integral part of the Memorandum of Understanding.

7. Specific cooperation actions

The parties establish that each specific project/action to be developed will be defined and detailed, as far as the objectives, charges, mechanisms, and terms are concerned, through complementary documents, signed by the representatives of both Institutions, which will be part of this **Memorandum of Understanding** about the form of attachments.

8. Confidentiality

Each part agrees not to disclose, in any form, scientific and technical information belonging to the other part, while it is not authorized, or while such information is not in a public domain.

9. Conflict resolution

The parties undertake to settle, amicably, any dispute from the implementation of this **Memorandum of Understanding**.

10. Interpretation

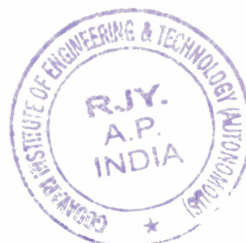
The doubts raised by the application of the rules of this Memorandum of Understanding will be interpreted and clarified by agreement, within the general principle of interpretation most favorable for the execution of the express purposes.

Porto, Portugal - _____

Godavari Institute of Engineering & Technology (A)

Dr. P. M. M. S. Sarma
Principal, GIET(A)

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O-PITBLAST

Eng. Francisco Sena Leite
COO – O-PITBLAST