

Building Authority Application # : _____

Project Name: _____

Company:

Contact Person:

Phone Number:

Applicable Facility/Process	Applicable Products
TIP Zone 1	UN RTDG Class 1

Document abstract

File name	Version	Date	Author

Writer – Industrial Engineer	Reviewer – HSE Manager	Approver
Name:	Name:	Name:
Date & Signature:	Date & Signature:	Date & Signature:

Rev	Date	Modification description	Author

TIP Use Only

Template revision

Template abstract

This template is related to the HSE-P13-03-F04_D – SOP ESRM Z1 related to the management of projects of Energetic Material processing. It supports the specification of technical requirements for the projects in TIP Zone 1 between the MoD, TIP and the tenants.

Rev	Date	Template modification description	Author
A	15/05/2025	First version	GP
B	25/09/2025	Addition of minimum requirements for management team	GP
C	30/09/2025	Modification following tenants' feedback	GP

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1. Introduction

This document is intended to support the initial evaluation of the project technical requirements.

It guides the applicant company to list the main inputs and technical elements required to assess the feasibility and conduct an industrial project related to the process and storage of energetic materials and ammunitions.

Its main objective is to ensure the availability of:

- The competent Human Resources
- The technical data for the dimensioning of the facilities and land use
- The safety technical data to evaluate the conformity of the process with the applicable regulations

2. Project description

This paragraph is intended to present the general context of the project that covers:

- *The stakeholders*
- *The references of the stakeholder with similar projects*
- *The operational needs*
- *The type of customer and eventually existing contract with UAE MoD*

Insert presentation of the context:

3. Project management team

Given the complexity of projects related to the design, testing, manufacturing, storage, transport and disposal of energetic materials or ammunitions, TIP requires the company to appoint competent people to manage the project and sign the technical documents.

The minimum requirements are described below.

3.1 Industrial Engineer

The industrial engineer will be the interface between the client and TIP to specify the products and process requirements.

Name:

Resume:

Requirements	Required	Proposed profile
English language – Upper-Intermediate (CEFR)	Yes	☐ YES ☐ NO
Experience in designing hazardous materials manufacturing process	Yes – 3 years +	☐ YES ☐ NO
Experience in designing hazardous materials facilities	Yes – 3 years +	☐ YES ☐ NO
Design, testing and qualification of energetic materials and ammunitions	Yes	☐ YES ☐ NO

3.2 HSE Manager

The HSE Manager will be the interface between the client and TIP to specify the safety requirements of the project.

Name:

Resume:

Requirements	Required	Proposed profile
English language – Upper-Intermediate (CEFR)	Yes	☐ YES ☐ NO
Experience in HAZID and HAZOP studies or similar risk analysis methodology in hazardous materials facilities	Yes – 3 years +	☐ YES ☐ NO
Previous experience with safety regulations - Explosive Safety - Transport and storage of Dangerous Goods - Occupational Hazard	Yes – 1 years +	☐ YES ☐ NO

This paragraph is intended to present the products and the components or energetic materials or chemicals that will be used in the manufacturing process. The objective is to withstand the feasibility study in terms of:

- Insert presentation of the reference products:

Information	Unit	
Product Name	-	
Munition dimensions	mm	
Weight	kg	
Total NEQ	kg TNT	
Packaged product name	-	
Packaged product dimensions	mm	
Packaged product weight	kg	
Safety Data Sheet	-	
UN Marking	-	
Overpack product name	-	
Overpack product dimensions	Mm	
Overpack product weight	Kg	
Overpack product Total NEQ	kg TNT	

[illegible][illegible][illegible]

4.2 Component description

A similar description is required for any relevant subcomponent containing energetic materials.

Information	Unit	
Product Name	-	
Munition dimensions	mm	
Weight	kg	
Total NEQ	kg TNT	
Packaged product name	-	
Packaged product dimensions	mm	
Packaged product weight	kg	
Safety Data Sheet	-	
UN Marking	-	
Overpack product name	-	
Overpack product dimensions	Mm	
Overpack product weight	Kg	
Overpack product Total NEQ	kg TNT	

Product simplified 3D picture (full + cut view) / breakdown of main components
Packaged product 3D picture
Overpack 3D picture

5. Reference operation & output

This paragraph is intended to present the process operations and the potential byproducts that require specific attention. The paragraph also presents the projected output capabilities the manufacturing process. The objective is to withstand the feasibility study in terms of:

- Storage capabilities
- Compatibility of process with UAE environment
- Explosive Safety Footprint
- Compatibility of byproducts chemicals with UAE regulation and Tawazun special restrictions

Insert presentation of the operations and objectives:

5.1 Output capability

Output	Qty products
Per shift	
Per week	
Per month	
Per year	

5.2 Process description

OP n°	Description	Qty products per shift	NEQ per operation	NEQ per shift
1				
2				
3				
4				
5				

Max NEQ for 1 week of production	
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5.3 Process byproducts

This paragraph focuses on the byproducts of the manufacturing process. These byproducts must be identified and characterized in terms of pollution and toxicity.

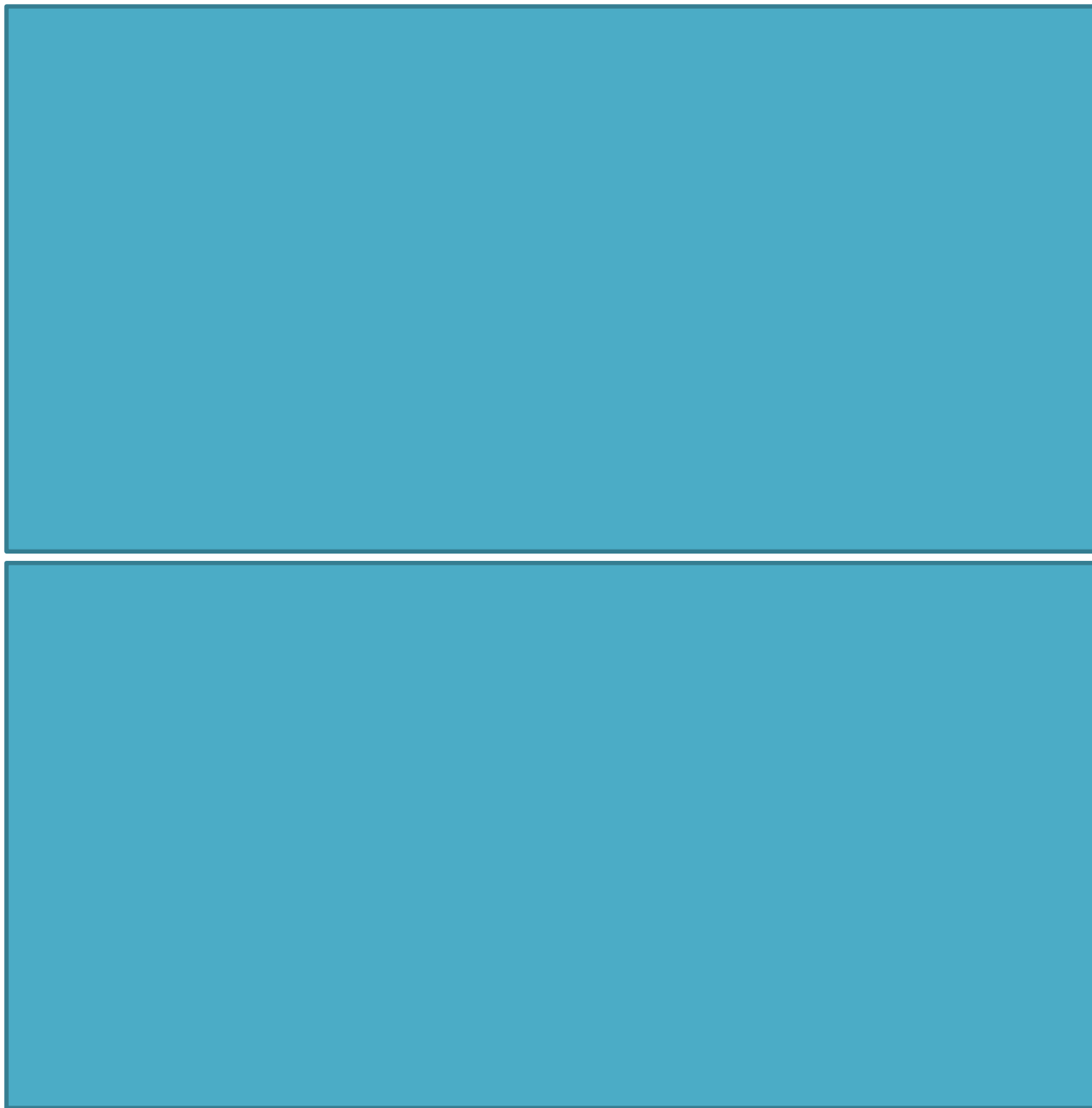
N°	REACH registration number	Description	REACH Warning
			Yes/No

6. Pre-concept

The pre-concept of the project provides a visual of the proposed facility and the explosive safety footprints. The visual displays:

- *the buildings of the facility*
- *the Inhabited Building Distance in the sense of UN IATG*

Insert description text of the project:



7. Facility technical requirements

The following paragraph identifies the features, constrains and applicable norms, regulations and documents that will drive the design of the facility.

7.1 Features & constrains

Function n°	Function description	Feature/constrain description	Requirement description	Criteria = Value & Tolerance	Flexibility

Notes:

- Function shall be noted F-xx where xx is the number
- Function description example: Logistic, operation, safety, security
- Feature/constrain description example: Assemble medium calibre ammunitions
- Requirement description example: Assembly line output
- Value & Tolerance example: 200000 per year
- Applicable tolerance n_ refers to the table below
- Flexibility are noted:
 - A = No flexibility
 - B = Slight modification possible
 - C = Open to modification

7.2 Applicable documents

N°	Name	Reference	Version

8. Timeline & availability

Estimate of the timeline of the project on a yearly base

9. Budget

ROM Estimate of the budget of the project