




Sterling Chemical Malta Ltd

DESCRIPTION STERLING BY BLOCK

PROJECT DESCRIPTION

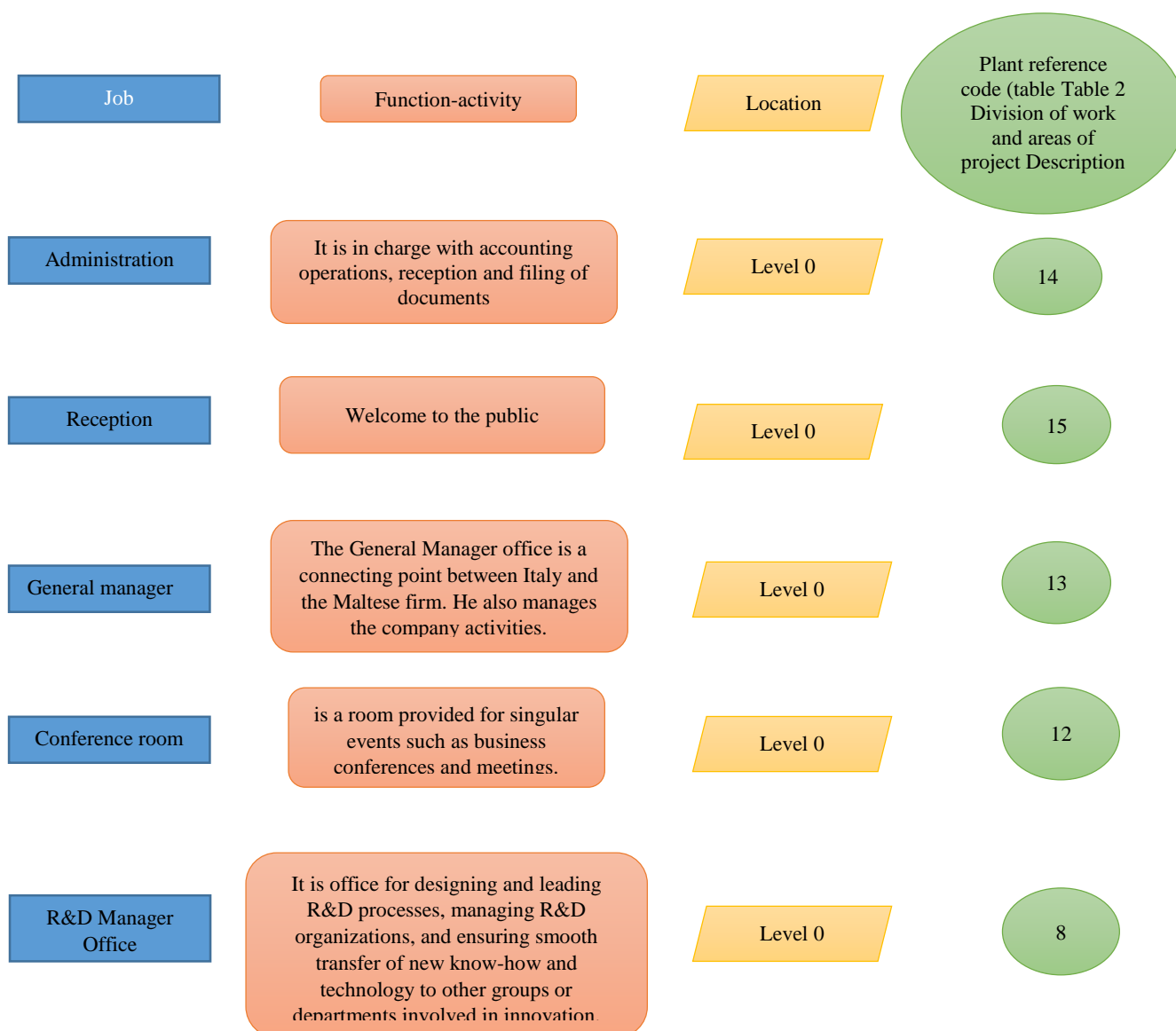
ANNEX B.1.4-A3


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With reference to the -plans attached B.1.2-A1 “lay out factory”, and for the future with reference to the plan attached B.1.2-A2 “lay out factory-level 0- stage III”, the following block-diagrams are provided in order to describe the different workplaces with the relative activities performed. For more detailed information on the activities and operations carried out, please refer to the specific paragraph in Project description.


Offices Area: see lay out factory Level 0 into annex B.1.2-A1

In this area will be carried out only administrative activities. All activities have been started in stage I.



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Production Manager Office	Production manager oversee the manufacturing process and make sure that production lines are running smoothly and efficiently. His work closely with supervisors and maintenance staff to plan work, set targets and make sure the finished products meet quality standards.	Level 0	10
QA office	Office in charge with supervising all procedures and operations necessary to ensure the compliance with the rules which guarantee the product quality.	Level 0	9
Canteen	Use for lunch. No cooking food	Level 0	16
Court yard	is an enclosed area, often a space enclosed	Level 0	7
Disabled & Visitor WC	Toilets are accessible to disabled visitors. with facilities for persons in wheelchairs are situated in Sterling or visit to Sterling	Level 0	17-18
Corridors	a passageway whose purpose is to provide access between rooms inside a building	Level 0	11

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Research & Development and Quality control Area

All activities have been in stage I but in stage II the laboratory located at level 0 (reference number n.o 23) will be dedicated only to quality control for checking the quality of raw materials and APIs. The Research and Development activity will be moved into a new laboratory on level 2 (reference number n.o 43). So the pilot production will be called "Line 1 production" in Stage II and will start producing in the marketing of API.

Laboratory Dressing room	is a room or area designated for changing one's clothes.	Level 0	24-26
Staff WC	Toilets for Sterling employees	Level 0	25
Laboratory	Chemical analysis for checking the quality of raw materials and finished products	Level 0	23
QC/RD office	Administration and management of laboratory activities	Level 0	22
Stability Chamber	used to test and store a wide range of products in specific temperature and/or humidity conditions.	Level 0	19
Weighing room (QC)	weight small samples for analysis	Level 0	20

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Clean rooms

A cleanroom or clean room is an environment, typically used in manufacturing or scientific research, with a low level of environmental pollutants such as dust, airborne microbes, aerosol particles, and chemical vapors. More accurately, a cleanroom has a controlled level of contamination that is specified by the number of particles per cubic meter at a specified particle size.

Level 0

28

Pilot production –
Production Line I

Pilot plant in stage I usually during engineering or manufacturing development, to test new methods, processes, chemical synthesis, and systems. In stage II e is a set of sequential operations established in a factory, during Research and development activity, whereby materials are put through a refining process to produce an end-product that is suitable for onward consumption; or components are assembled to make a finished APIs.

Level 0

30

R&D laboratory

Synthesis of new molecules and improvement of the existing ones to reach new solutions with higher yields and lower costs

Level 2

43

Future pilot plant

This pilot plant will be used to test new methods, processes and chemical synthesis in stage III

Level 2


44

RD office

Strategic Research Advancement, Communication of Research and Research Opportunities, Enhancement of Collaboration/Team Science, Proposal Support Functions

Level 2


41

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Production area

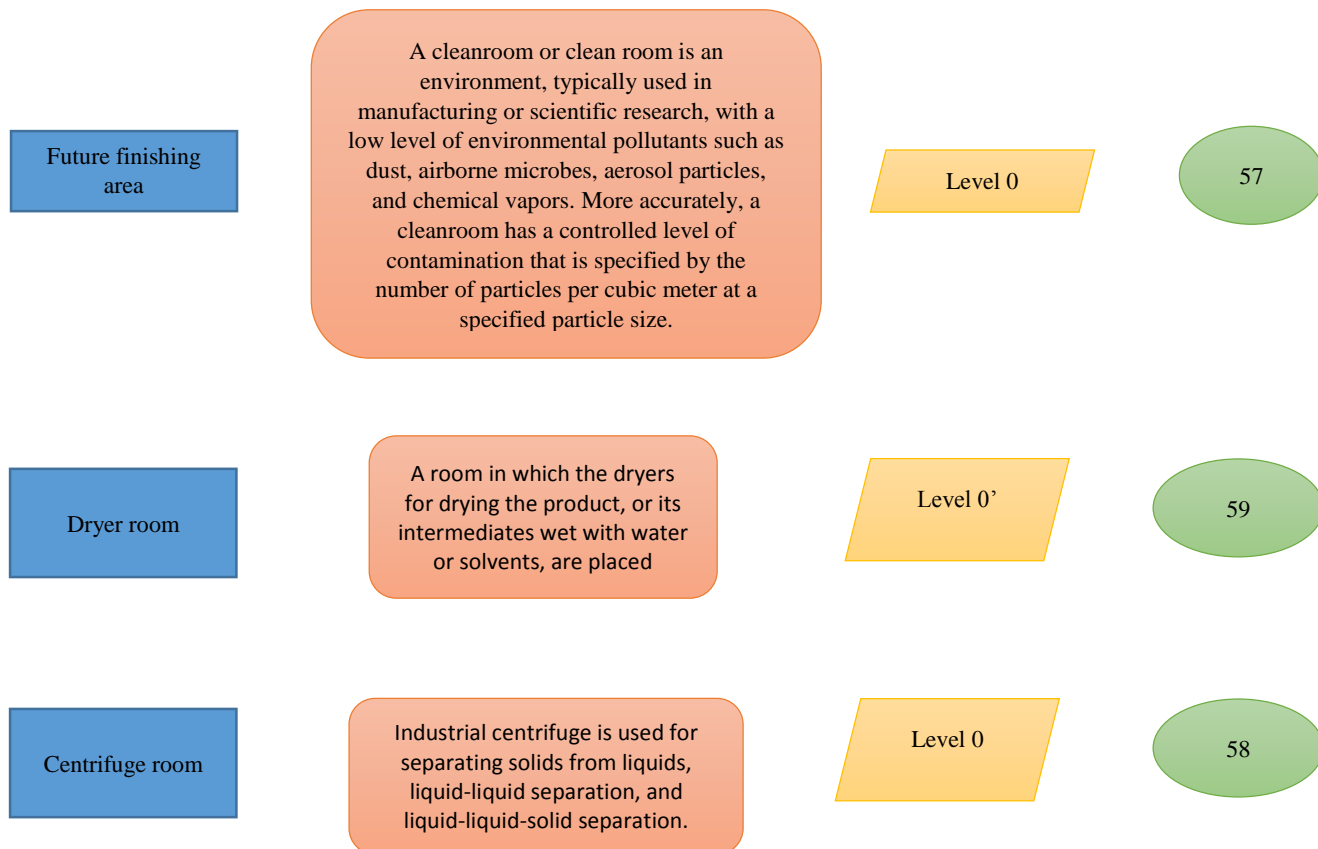
The production area will start in Stage II except for the third line will be activities in the third phase.


Production Dressing room	is a room or area designated for changing one's clothes. Here employees can take a shower	Level 0	27
Production Line 2	is a set of sequential operations established in a factory, during Research and development activity, whereby materials are put through a refining process to produce an end-product that is suitable for onward consumption; or components are assembled to make a finished APIs.	Level 0	29
Staff Air lock	An airlock is a device which permits the passage of people and objects between a pressure vessel and its surroundings while minimizing the change of pressure and loss of air from it. The lock consists of a small chamber with two airtight doors in series which do not open simultaneously.	Level 0	11 EP 11 QC 11 CP
Material Air lock	as above but it used for the passage of raw materials and products	Level 0	11 EM 11 CM
Dryer room	A room in which the dryers for drying the product, or its intermediates wet with water or solvents, are placed	Level 0'	11 E 12 F
Centrifuge room	Industrial centrifuge is used for separating solids from liquids, liquid-liquid separation, and liquid-liquid-solid separation.	Level 0	11 C

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Material Safety Access System	See Material Air lock	Level 0	12 CM 12 EM
Staff Safety Access System	See Staff Air lock	Level 0	12 WP
Centrifuge- Buckner room	Industrial centrifuge and filter are used for separating solids from liquids, liquid-liquid separation, and liquid-liquid-solid separation.	Level 0	12 C
Packaging room	Pharmaceutical packaging has to be carried out for the purpose of the safety of the pharmaceutical preparations in order to keep them free from contamination, hinder microbial growth, and ensure product safety through the intended shelf life for the pharmaceuticals. Packaging is a critical tool in the pharmaceutical industry for product delivery and regulatory compliance,	Level 0	12 W
Production plant Line 3	Future production line (stage III)	Level 0	46
Air lock – Finishing Area	An airlock is a device which permits the passage of people and objects between a pressure vessel and its surroundings while minimizing the change of pressure and loss of air from it. The lock consists of a small chamber with two airtight doors in series which do not open simultaneously.	Level 0	47 A/B/C

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Warehouse working areas

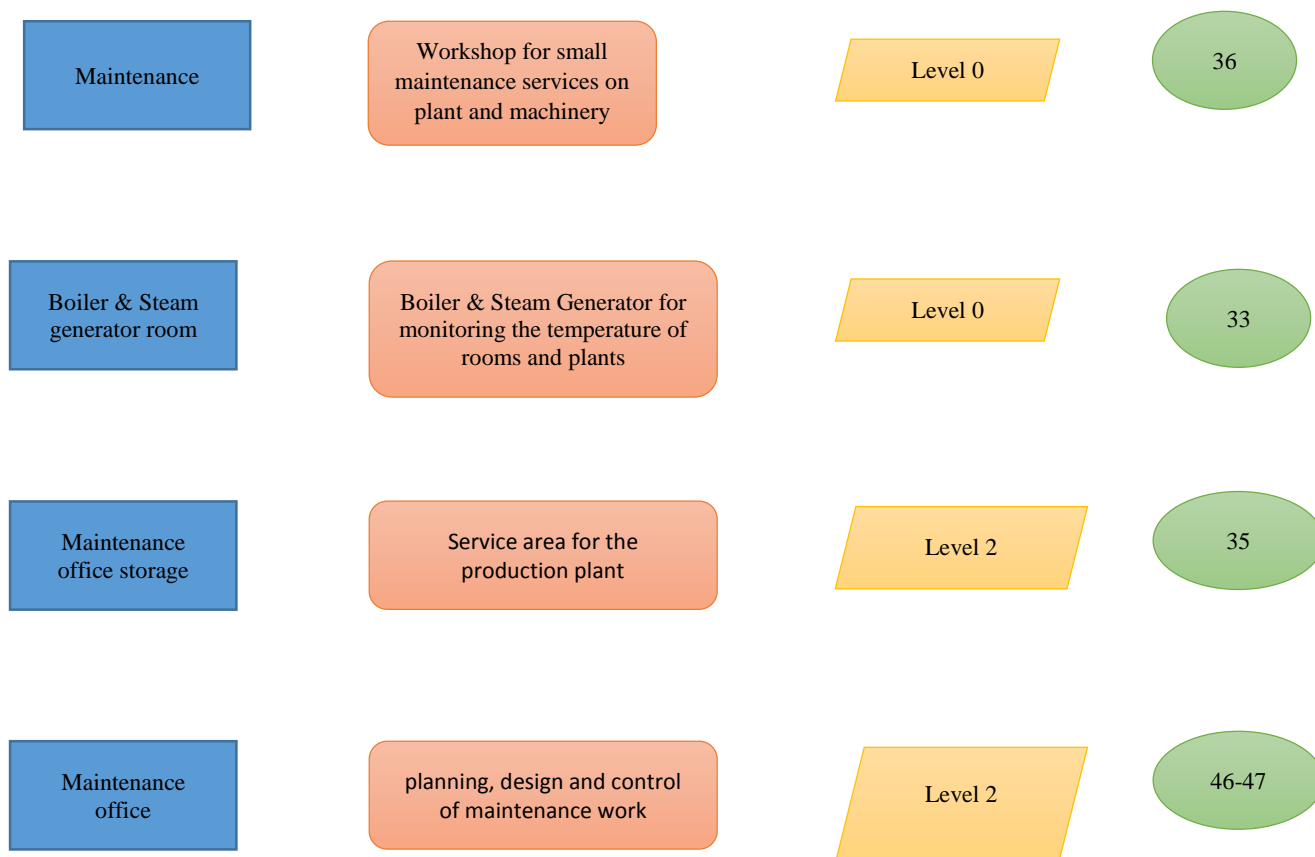
All activities have been started in stage I excepted for line 3 on External Flammable warehouse


Finished good warehouse	Depository for finished products or production intermediates or RD product while waiting for being reprocessed or shipped to the customer.	Level 0	31
Raw Material warehouse	An area in which non-flammable raw materials are stored	Level 0	32
Sampling room	Weighing room for small liquid drums, sample of raw materials (liquid, solid) and all solid raw material	Level 0	34
External Flammable warehouse	Storage are for liquid&solid waste, and liquidi flammable raw materials	Level 0	55
External weighing room	Weighing area for liquid raw material and solid without manipulation (weighing in original packaging only)	Level 0	55 B
Pump room	Location of pumps for lifting water in washing reservoir and rean water reservoir	Level 0	55 C
Warehouse Manager office	Responsible for the management of the warehouse, in line with organisations policies.	Level 1	38

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Maintenance working areas

All activities have been started in stage I excepted for Maintenance office storage and office only.




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External working areas

All activities have been started in stage I except for a wash water reservoir

External utilities area	Scubber, Carbon filter, azoto liquid tower, pump utilities	Level 0	61
Electrical switchgear	Switchgears for monitoring and checking machinery	Level 2	42
Utility plant area	Service area for the production plant	Level 2	45
LPG Tank area	A room in which the product is dried	Level 0	60
Water washing reservoir	Polluted washing water resulting after washing the plant or in case of spill into warehouse and production lines	Level 0	62
Rain water reservoir	Collecting tank for rainwater	Level 0	63
Cooling tower	is a heat rejection device which rejects waste heat to the atmosphere through the cooling of a water stream to a lower temperature	Level 3 (Roof top)	64

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Other areas

Parking area	Parking area	Level -1	4-5
Switchroom	A room, often an entire floor, containing switching equipment, especially for telephone lines.	Level -1	2
Reception lobby	Staff/employee enter	Level -1	3
Shaft	In subterranean civil engineering, ventilation shafts, also known as airshafts or vent shafts. are vertical	Level -1	7
Other future offices	Administration activity	Level 2	40A
Future meeting room	Administration activity	Level 2	51
Archive	Administration activity	Level 2	40 B
Sub station	A substation is a part of an electrical generation, transmission, and distribution system. Substations transform voltage from high to low, or the reverse, or perform any of several other important functions. Between the generating station and consumer, electric power may flow through several substations at different voltage levels.	Level 2	1