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*GE Medical Systems*

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## PET ADVANCE



*Dr*  
*Hospital name*

**SITE PLANNING GUIDE**

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## OBSERVATIONS

These notes are a general guide to the site planning requirements to assist the customer in:

- Selecting a suitable site,
- Considering modifications to the building and services,
- Preparing budget cost.

Two types of documentation can be produced:

## EQUIPMENT LAYOUT FEASIBILITY

Documents given to the customer before the order is signed.

The purpose of this equipment layout feasibility is to help choosing solutions to meet its specific requirements.

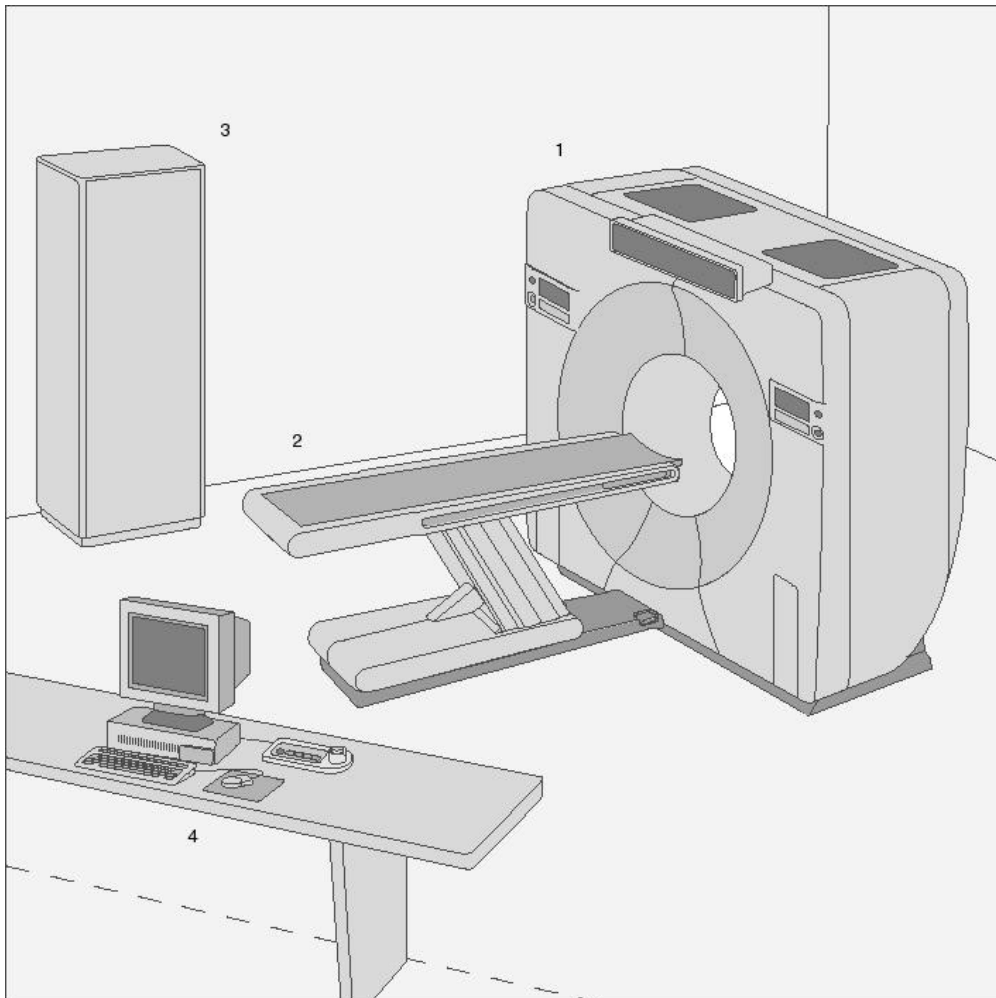
## EQUIPMENT INSTALLATION SPECIFICATIONS

Documents given to the customer when the order is signed.

The purpose of the equipment installation specifications is to provide the customer with technical environmental specifications relating to the equipment ordered.

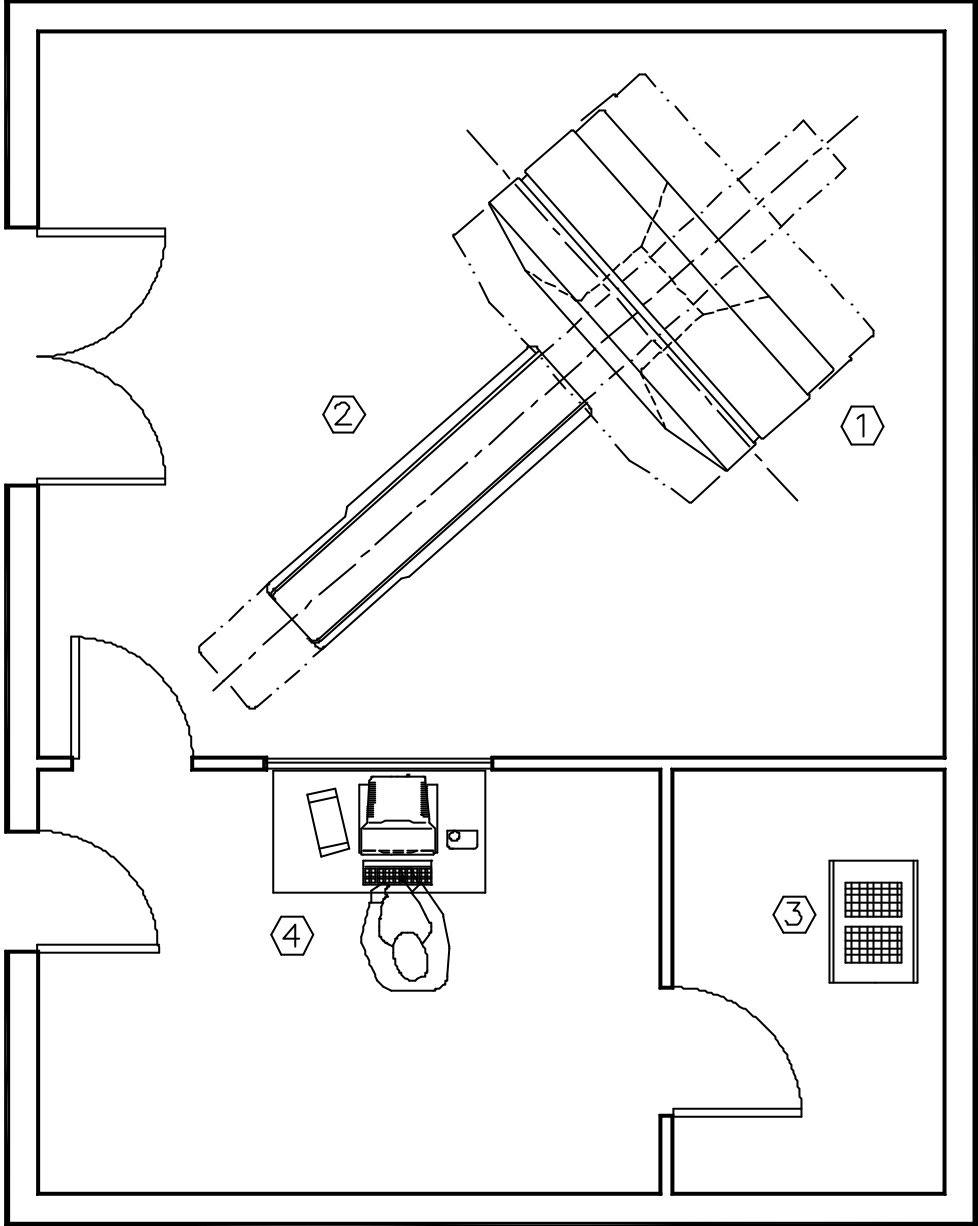
These documents are correct at the present date and will be modified as the equipment is upgraded.

### BASIC UNITS



	Description	Masse kg
1	Gantry.....	3175
	....	
2	Patient Table.....	340
3	Electronic Cabinet.....	190
4	Operator Console.....	65

# SUGGESTED ROOM LAYOUT



- 1 Gantry
- 2 Patient Table
- 3 Electronic Cabinet
- 4 Operator Console

# TECHNICAL DESCRIPTIONS

## TEMPERATURE AND HUMIDITY SPECIFICATIONS

The environmental conditions should ensure that both patient and user are comfortable.  
The maximum values given below shall not be exceeded:

	Temperature	Relative humidity	Heat dissipation
Exam room	<b>24°C max.</b>	<b>30%-60%</b>	<b>4,7 kW</b>
Technical room	<b>22°C max.</b>	<b>30% -60%</b>	<b>3,5 kW</b>

## SPECIAL REQUIREMENTS

- Sensibility to static magnetic field: 1Gauss (maxi).
- The room housing the equipment should be cleaned thoroughly prior to the delivery.
- Caution : CE marking, compulsory in the EU, requires adding a 40dB RF shielding attenuation for the Examination room (RF shield room at GEMSE expense ).

## STRUCTURAL REQUIREMENTS

- The gantry and the patient table are anchored to the floor. (the plates are supplied and installed by GEMS ).

## POWER SUPPLY

Line Supply Characteristics	
Power Line	Single Phase + Ground
Maximum power	<b>10 kVA</b>
Average power	<b>6 kVA</b>
Fréquency	<b>50-60 Hz ± 0,5%</b>
Nominal Voltage	<b>220 - 240V + 10% - 4%</b>

## POWER SUPPLY TO BE PROVIDED BY THE CUSTOMER

- Single phase, 3 conductors (1 phase conductor , 1 protective conductor and 1 ground conductor).
- In case of a neutral wire connected to the ground through an impedance,make sure that there is a PIC connected to the electrical network (PIC = Permanent Insulation Controller).
- Line supply should reach the power distribution board (PDB) with protection and control equipment. This power distribution board will be common for the entire GEMS equipment.
- Safety provisions and cable connections for emergency shutdown, remote & control will be connected in the power distribution board (PDB).
- The system feeder wires will be connected to a junction box . Its position will be definded in the equipment layout specifications.

## GROUNDING

- Equipotential grounding system.
- The protective conductor sleeve independant to the GEMS equipment and the equipotential connection linking the others components, will be connected at an equipotential bar.

## CABLES

- The power distribution and the cables installation must comply with the schematic power circuit.
- All cables must be flexible, and must comply with the standard electrical installation.

## TELESERVICE

A dedicated phone line with a local socket is needed for connection to a modem.

This line will be a direct standard phone line or will go through a PABX switch board with an automatic call distributor (ACD).

A power outlet 10/16 A+ T is required close to the phone socket in compliance with the modem.

## IONIZING RADIATION

This equipment produce some ionizing radiation, the customer should ensure accordance with the radioprotection rules.

## DELIVERY

### THE CUSTOMER SHOULD:

- Provide an area adjacent to the system site for delivery and unloading of the GEMS equipment.

- Ensure that the dimensions of all doors, corridors, ceiling height are sufficient to accommodate the movement of GEMS equipment from the delivery area into the definitive installation room.
- Ensure that all access routes for equipment can accommodate the weight of the equipment and any transportation, lifting and rigging equipment.
- Ensure that all necessary arrangements for stopping and unloading on public or private property belonging to a third party have been made.

## ROUTING

The absolute minimum requirements for equipment delivery are:

Floor loading = 2700 kg.

H = 213 cm

W = 113 cm,

Maxi slope = 3%

## CASING

Trable frame on dolly	
Length	<b>292 cm</b>
Width	<b>107 cm</b>
Height	<b>206 cm</b>
Weight	<b>2700 kg</b>

## STORAGE

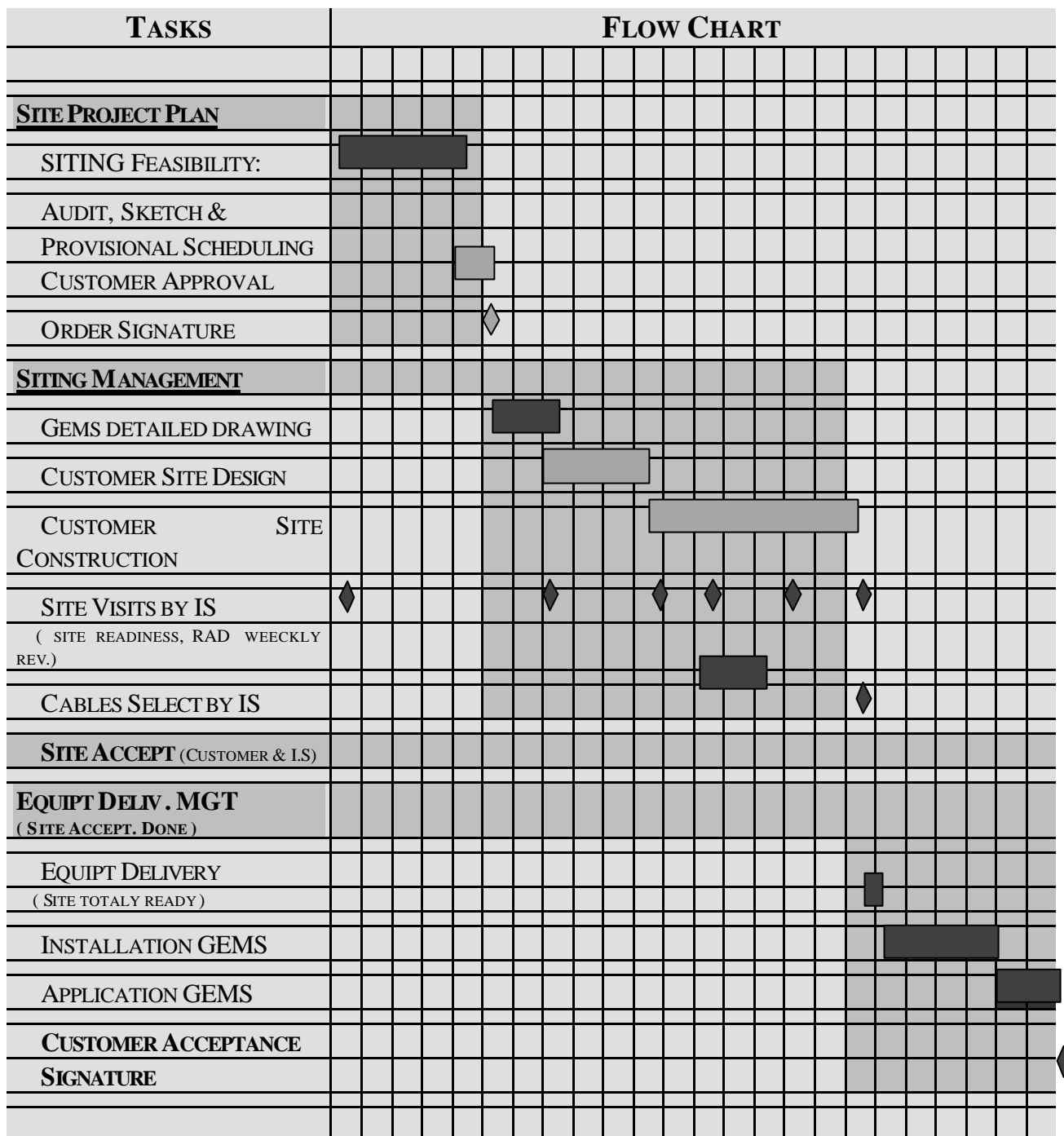
Storage conditions for material:

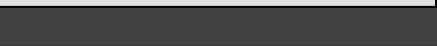



Temperature	Relative humidity	Time
<b>7°C to +40°C</b>	<b>80% max.</b>	<b>90 days</b>

## SITE ACCEPTANCE

GEMS should visit the site prior to delivery and installation of the system to ensure that all site works are complete and comply with the equipment installation specifications.

# PLANNING TYPE



LEGEND	
GEMS IS ACTION	
GEMS MILESTONES	
CLIENT USER, SUBCONTRACTORS, ...	
CUSTOMER MILESTONES	

# GLOSSARY

<b>IT</b>	Isolated Neutral
<b>PABX</b>	Switch Board
<b>PDB</b>	Power Distribution Box
<b>TNC</b>	Protection to Ground + Neutral is the same wire
<b>IS</b>	Installation Specialist

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**GE Medical Systems**

*Data subject to change*

*GE Medical Systems - Europe  
Siting Management Services  
283 rue de la Minière  
78530 Buc  
Tél: (33) 1 30 70 94 80  
Fax: (33) 1 30 70 94 60*

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