

**INTERNATIONAL BIDDING COMPETITION No. 1/2025**

**International Bidding Competition for the ADMINISTRATIVE CONCESSION FOR THE  
CONSTRUCTION, EQUIPPING, OPERATION, MAINTENANCE AND PROVISION OF  
SERVICES OF THE HOPE HEALTH COMPLEX**

**APPENDIX 5.I**

**NEEDS PLAN**

## 1 NEEDS PLAN – HOSPITAL COMPLEX

Item	Environment	Quantity	Description
<b>1</b>	<b>OUTPATIENT</b>		<p>For waiting rooms: an overhead password call panel must be designed, requiring 1 network point per panel and 2 electrical points.</p> <p>Consider spaces for the dissemination of information relevant to the health of the population using the service (Televisions and Displays).</p> <p>For each waiting environment, 1 network point and 2 electrical points for patient check-in equipment must be designed (Consider spaces for self-service totems and ticket withdrawals)</p>
	<b>General requirements for the entire outpatient clinic</b>		
<b>1.1</b>	<b>CLINICAL OFFICES</b>		<p>Each office will have 1 workstation with desktop, with provision for face-to-face and teleservice service, using the same room resources.</p> <p>The shared use of offices by the different specialties should have a strict control in the scheduling and disinfection process between appointments.</p> <p>AFB and mycology collections will be carried out at the collection point of the Cynic Pathology laboratory.</p> <p>The immunization room is located at the Clinical Day Hospital.</p> <p>Demonstration and health education rooms can be shared between specialties (oncology, gynecology and obstetrics, infectious diseases and pediatrics) as long as they respect a schedule and strict disinfection between uses.</p>
	<b>General requirements for all specialties</b>		
<b>1.1.1</b>	<b>Infectious diseases</b>		
1.1.1.1	Reception/Waiting Room for Patients and Companions (registration, scheduling and opening of medical records)	1	<p>The number of seats should be estimated for reoccupancy every 30 minutes, considering 1 companion per patient.</p> <p>For patients with diagnosed tuberculosis and under treatment, it is recommended that there be a specific flow for the identification and prioritization of the care of this patient, that they wait in a well-ventilated place.</p>
1.1.1.2	Collective Toilet for Patients and Public (men/women)	2 *	Adequate measures for accessibility.

Item	Environment	Quantity	Description
			Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.  It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.
1.1.1.3	Area for Stretcher and Wheelchair Storage	1 *	Have a strategic location, with accessibility and that has an average of dimensions for at least 01 stretcher and 02 adult wheelchairs and 01 wheelchair for obese.  Wide doors and spacious corridors to allow easy entry and exit of stretchers and wheelchairs
1.1.1.4	Specialized offices - Infectious diseases - Specialties: Biological accidents, AIDS, STD, Hepatitis, DIP; Gender Adjustment Process (Psychiatry and Multidisciplinary Team)	11	Consider 3 offices with anteroom for respiratory isolation (30% of the total offices).  Consider spaces for office desks, chairs for professionals, patients and companions. Space for drawer/cabinet or place to store small equipment (e.g., otoscope, laryngoscope, stethoscope, etc.).
1.1.1.5	Specialized offices - Sanitary dermatology; Leprosy (physiotherapy)	9	Consider spaces for office desks, chairs for professionals, patients and companions. Space for drawer/cabinet or place to store small equipment (e.g., otoscope, laryngoscope, stethoscope, etc.).
1.1.1.6	Specialized Offices - Dental Offices	1	It can be shared with the lines of care of the same block in the architectural project (e.g., Oncology and Infectious Diseases).  Consider radiological protection, gas network (vacuum and steam), air-conditioned environment, adequate lighting for care.  Consider the dental compressor outside the office.
1.1.1.7	Specialized Practices - Gynecological Practices	1	With toilet.  Consider space for exam tables, office desks and chairs for the professional, patient and companion, gynecological table and accessibility
1.1.1.8	Specialized Offices - Urology/Proctology Offices	1	With toilet.  Consider space for exam tables, office desks and chairs for the professional, patient and companion, gynecological table and accessibility
1.1.1.9	Specialized Offices - Ophthalmology Offices	1	It can be shared with the lines of care of the same block in the architectural project (e.g., Oncology and Infectious Diseases).

Item	Environment	Quantity	Description
			Consider space for a chair and ophthalmological equipment, office desk and chairs for the professional, patient and companion.
1.1.1.10	Specialized Offices - Otorhinolaryngology Offices	1	<p>It can be shared with the lines of care of the same block in the architectural project (e.g., Oncology and Infectious Diseases).</p> <p>Consider space for chair and otorhinolaryngology equipment, office desk and chairs for the professional, patient and companion.</p>
1.1.1.11	Patient preparation room	1	<p>Nursing consultation, screening, biometrics.</p> <p>Consider space for office desk and chairs for the professional, patient and companion, pedestal scale</p>
1.1.1.12	Dressing/Suturing Room	1	<p>It can be shared with the lines of care of the same block in the architectural project (e.g., Oncology and Infectious Diseases).</p> <p>Minimum size of 9 m<sup>2</sup> for the care of 3 patients.</p> <p>For the performance of less complex and short-term procedures. Dimensions and equipment for individualized care (it must be sanitized at each service, avoiding cross-contamination). The room must be sized to hold a stretcher, countertops and cabinets with shelves and drawers for storing supplies and medicines, a sink for hand washing and an area for the circulation of the dressing cart and the care team. It can be shared with the different specialties, according to the location in the blocks, the recommended proportion is one room for each specialty.</p>
1.1.1.13	Demonstration room and health education	1	Equipped with multimedia, consider space for chairs, tables and practical activities. Accessible for 15 people
1.1.1.14	Patient Navigation Office	1	Consider spaces for office desks, chairs for professionals, patients and companions. Space for drawer/cabinet.
<b>1.1.2</b>	<b>Oncology</b>		
1.1.2.1	Reception/Waiting Room for Patients and Companions (registration, scheduling and opening of medical records)	1	<p>The number of seats should be estimated for reoccupancy every 30 minutes, considering 1 companion per patient.</p> <p>For patients with diagnosed tuberculosis and under treatment, it is recommended that there be a specific flow for the identification and prioritization of the care of this patient, that they wait in a well-ventilated place.</p>
1.1.2.2	Collective Toilet for Patients and Public (men/women)	2 *	<p>Adequate measures for accessibility.</p> <p>Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm</p>

Item	Environment	Quantity	Description
			in diameter.  It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.
1.1.2.3	Toilets for ostomy patients	1	For ostomy toilets, the toilet can be smaller, in an elevated position and with frontal space.  Grab and discharge bars in a proportionately higher position and must contain a hygienic shower.  It is necessary to consider that the patient sometimes needs to enter with a companion to size the space.
1.1.2.4	Area for Stretcher and Wheelchair Storage	1 *	Have a strategic location, with accessibility and that has an average of dimensions for at least 01 stretcher and 04 wheelchairs for adults and 01 wheelchair for obese.
1.1.2.5	Specialized offices - Oncology and other support specialties (e.g., Head and Neck, Neurosurgery, general surgery, among others)	9	Consider space for exam tables, office desks and chairs for the professional, patient and companion
1.1.2.6	Specialty Consultations - Haematology	1	Consider space for exam tables, office desks and chairs for the professional, patient and companion
1.1.2.7	Dental offices	1	It can be shared with the lines of care of the same block in the architectural project (e.g., Oncology and Infectious Diseases).  Consider radiological protection, gas network (vacuum and steam), air-conditioned environment, adequate lighting for care.  Consider the dental compressor outside the office.
1.1.2.8	Gynecological Offices	1	With toilet.  Consider space for exam tables, office desks and chairs for the professional, patient and companion, gynecological table and accessibility
1.1.2.9	Urology/Proctology Offices	1	With toilet.  Consider space for exam tables, office desks and chairs for the professional, patient and companion, gynecological table and accessibility
1.1.2.10	Ophthalmology offices	1	It can be shared with the lines of care of the same block in the architectural project (e.g., Oncology and Infectious Diseases).

Item	Environment	Quantity	Description
			Consider space for a chair and ophthalmological equipment, office desk and chairs for the professional, patient and companion.
1.1.2.11	Otorhinolaryngology offices	1	<p>It can be shared with the lines of care of the same block in the architectural project (e.g., Oncology and Infectious Diseases).</p> <p>Consider space for a chair and ophthalmological equipment, office desk and chairs for the professional, patient and companion.</p>
1.1.2.12	Dressing/Suturing Room	1	<p>It can be shared with the lines of care of the same block in the architectural project (e.g., Oncology and Infectious Diseases).</p> <p>Minimum size of 9 m<sup>2</sup> for the care of 3 patients.</p> <p>For the performance of less complex and short-term procedures. Dimensions and equipment for individualized care (it must be sanitized at each service, avoiding cross-contamination). The room must be sized to hold a stretcher, countertops and cabinets with shelves and drawers for storing supplies and medicines, a sink for hand washing and an area for the circulation of the dressing cart and the care team. It can be shared with the different specialties, according to the location in the blocks, the recommended proportion is one room for each specialty.</p>
1.1.2.13	Demonstration room and health education	1	Equipped with multimedia, consider space for chairs, tables and practical activities. Accessible for 15 people
1.1.2.14	Patient Navigation Office	1	Consider spaces for office desks, chairs for professionals, patients and companions. Space for drawer/cabinet.
<b>1.1.3</b>	<b>Paediatrics</b>		
1.1.3.1	Reception/Waiting Room for Patients and Companions (registration, scheduling and opening of medical records)	1	<p>The number of seats should be estimated for reoccupancy every 30 minutes, considering 1 companion per patient.</p> <p>Provide separate waiting for autistic patients.</p> <p>For patients with diagnosed tuberculosis and under treatment, it is recommended that there be a specific flow for the identification and prioritization of the care of this patient, that they wait in a well-ventilated place.</p>
1.1.3.2	Collective Toilet for Patients and Public (men/women)	2 *	Customized adult and child bathroom. Adequate measures for accessibility. Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.

Item	Environment	Quantity	Description
			It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.
1.1.3.3	Area for Stretcher and Wheelchair Storage	1 *	Have a strategic location, with accessibility and that has an average size for at least 01 stretcher and 01 adult wheelchair and 02 child wheelchairs.  Wide doors and spacious corridors to allow easy entry and exit of stretchers and wheelchairs
1.1.3.4	Specialized offices - Clinical cases and diagnosis of rare diseases, Transsexualizing Process, multidisciplinary care	12	Consider space for an exam table, office desk and chairs for the professional, patient and companion. Deducted 1 office for Dentistry to be shared with Women's Health.
1.1.3.5	Dental offices	1	It can be shared with Women's Health, according to the architectural project.  Consider radiological protection, gas network (vacuum and steam), air-conditioned environment, adequate lighting for care.  Consider the dental compressor outside the office.
1.1.3.6	Ophthalmology offices	1	It can be shared with Women's Health, according to the architectural project.  Consider space for a chair and ophthalmological equipment, office desk and chairs for the professional, patient and companion.
1.1.3.7	Otorhinolaryngology offices	1	It can be shared with Women's Health, according to the architectural project.  Consider space for a chair and ophthalmological equipment, office desk and chairs for the professional, patient and companion.
1.1.3.8	Weighing, measuring and sanitizing room	1	It is recommended that it has at least 6m <sup>2</sup> . Consider the size of the room to accommodate a stretcher, pedestal scale (suitable for weighing obese patients and wheelchair users), scale counter, cabinets for storing materials and supplies
1.1.3.9	Dressing/Suturing Room	1	It can be shared with the lines of care of the same block in the architectural project (e.g., Pediatrics and Maternity).  Minimum size of 9 m <sup>2</sup> .  For the performance of less complex and short-term procedures. Dimensions and equipment for individualized care (it must be sanitized at each service, avoiding cross-contamination). The room must be sized to hold a stretcher, countertops and cabinets with shelves and drawers for storing supplies and medicines, a sink for hand washing and an area for the circulation of the dressing cart and the care

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			team. This room is for the exclusive use of pediatrics, with specific ambiance, equipment and furniture for these patients.
1.1.3.10	Demonstration room and health education	1	Equipped with multimedia, consider space for chairs, tables and practical activities. Accessible for 15 people
<b>1.1.4</b>	<b>Women's Health, Labor and Birth Care Network</b>		
1.1.4.1	Reception/Waiting Room for Patients and Companions (registration, scheduling and opening of medical records)	1	The number of seats should be estimated for reoccupancy every 30 minutes, considering 1 companion per patient.  For patients with diagnosed tuberculosis and under treatment, it is recommended that there be a specific flow for the identification and prioritization of the care of this patient, that they wait in a well-ventilated place.
1.1.4.2	Collective Toilet for Patients and Public (men/women)	2 *	Adequate measures for accessibility.  Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.  It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.
1.1.4.3	Area for Stretcher and Wheelchair Storage	1 *	Have a strategic location, with accessibility and that has an average of dimensions for at least 01 stretcher and 02 adult wheelchairs and 01 wheelchair for obese.  Wide doors and spacious corridors to allow easy entry and exit of stretchers and wheelchairs
1.1.4.4	Specialized consultations - High-risk prenatal care	6	With toilet. Consider space for an exam table, office desk and chairs for the professional, patient and companion.
1.1.4.5	Specialty Consultations - Fetal Medicine	2	Consider space for exam tables, office desks and chairs for the professional, patient and companion
1.1.4.6	Specialized consultations - Outpatient neonatal care	5	Consider space for exam tables, office desks and chairs for the professional, patient and companion
1.1.4.7	Specialized consultations - Endometriosis (support specialties: Mastology, Gynecology and Urogynecology)	1	With toilet. Consider space for an exam table, office desk and chairs for the professional, patient and companion.
1.1.4.8	Dental offices for prenatal care	1	It can be shared with Pediatrics, according to the architectural project.  Consider radiological protection, gas network (vacuum and steam), air-conditioned environment, adequate lighting for care.

Item	Environment	Quantity	Description
			Consider the dental compressor outside the office.
1.1.4.9	Dressing/Suturing Room	1	<p>It can be shared with the lines of care of the same block in the architectural project (e.g., Pediatrics and Maternity).</p> <p>Minimum size of 9 m<sup>2</sup>.</p> <p>For the performance of less complex and short-term procedures. Dimensions and equipment for individualized care (it must be sanitized at each service, avoiding cross-contamination). The room must be sized to hold a stretcher, countertops and cabinets with shelves and drawers for storing supplies and medicines, a sink for hand washing and an area for the circulation of the dressing cart and the care team. It can be shared with the different specialties, according to the location in the blocks, the recommended proportion is one room for each specialty.</p>
1.1.4.10	Demonstration room and health education	1	Equipped with multimedia, consider space for chairs, tables and practical activities. Accessible for 15 people
<b>1.1.5</b>	<b>Outpatient Clinic Support Areas</b>		
1.1.5.1	Administrative Room – Coordination	1	Consider 1 job.
1.1.5.2	Administrative Room – Administrative Support	1	Consider 3 jobs.
1.1.5.3	Room for Patient Navigation	1	<p>Consider 3 jobs.</p> <p>Private room, with adequate acoustics, with space for a table and chairs for professionals, patients and companions.</p>
1.1.5.4	Room for the Municipal EMADE	1	Equipped with a 10-person meeting table, ergonomic chairs, whiteboard, and video conferencing system, the room provides comfort and functionality for discussions and care planning for a multidisciplinary team.
1.1.5.5	Coordination Room and Home Visit	1	<p>Consider 6 jobs.</p> <p>It can be shared with the specialties that have this program.</p>
1.1.5.6	Local Stock Room	1*	<p>The amount depends on the distance and areas that will be shared, according to the architectural project.</p> <p>Consider spaces for smart cabinets or shelves, accommodate carts for transporting materials and medicines.</p>
1.1.5.7	Teleconsultation and Interconsultation Room	2	Consider a private room, with adequate acoustics, with space for a table or bench, chairs for professionals.

Item	Environment	Quantity	Description
1.1.5.8	Modular Meeting Room	4	<p>Internal modular rooms for the care team (doctors and residents), planned to enable its conversion into 2 rooms, both with a meeting table and workstations for evolution and discussion of cases.</p> <p>The rooms must accommodate 12 people - 6 people in each room, totaling, with its division, 4 rooms (one for each specialty)</p>
1.1.5.9	Utility Room	2	<p>It must be provided with a countertop with a sink and a dump sink, with flush valve activation and 75 mm piping</p>
1.1.5.10	Living Area/Employee Cup	1 *	<p>Consider in the space a sink, infrastructure for the installation of a water/coffee filter, appropriate countertop or table, cabinets for storing utensils.</p>
1.1.5.11	Cleaning Material Deposit - DML	2 *	<p>DML for this area, we recommend that it have dimensions above the RDC50 recommendation (1mx2m) because it must accommodate, in addition to the tank, the hygiene cart with dimensions of 119 x 058 x 110, a cabinet for storing consumer products.</p> <p>You should also consider the existence of a drain to remove water from buckets used in the hygiene of the environments.</p>
1.1.5.12	Employee Toilet (male/female)	6 *	<p>Adequate measures for accessibility.</p> <p>Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.</p> <p>It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.</p>
1.1.5.13	Family Toilet with Changing Table	2 *	<p>With diaper changing pad support suitable for patients of different ages, including obese patients. Adequate measures for accessibility.</p> <p>Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.</p> <p>It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary</p>
1.1.5.14	Accessible Toilets	4 *	<p>Adequate measures for accessibility.</p> <p>Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.</p>

Item	Environment	Quantity	Description
			It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.
1.1.5.15	Temporary Shelter for Hazardous Chemical Waste	2 *	Temporary shelters for the packaging of hazardous waste as a temporary way of waiting for recycling, recovery, treatment and/or final disposal must be carried out in containers or drums, according to NBR 12235.  The hazardous waste storage site must be exclusive and have an isolation system that prevents access by unauthorized persons and safety signage that identifies the facility for the risks of access to the site.
1.1.5.16	Temporary Infectious Waste Shelter	2 *	The temporary shelter for infectious waste must comply with Resolution 222/2018 and must provide for the storage of 500L containers (1415mm x 810mm) indicating the biological risk in appropriate and resistant containers. Ventilated place with water point, sealed windows or with protective screens with washable floors and walls and siphoned drain (with cover) with drainage to the sewer network. Space must consider container for each type of waste (group A, B and D). The door must be labeled "Waste Shelter." Presence-triggered lighting
1.1.5.17	Temporary Shelter for Organic Waste	2 *	The temporary shelter for organic waste stores waste from the activities of pre-preparation, preparation and distribution of food through a cold chamber that is specific and exclusive for this purpose. Organic waste will await collection in an air-conditioned environment (Cold Chamber)
1.1.5.18	Temporary Shelter for Dirty Clothes	1 *	The temporary dirty clothes shelter should be exclusively for this purpose and be closed, ventilated and cleaned and disinfected regularly. It must be able to pack container cars for laundry hamper collection. Washable floors and walls and automatic lighting triggered by presence
<b>1.2</b>	<b>CLINICAL DAY HOSPITAL</b>		<b>Considering that the Day Hospital will serve patients of different specialties and ages, it is necessary to ensure the separation of the flow of these patients.</b>  <b>It is also necessary to ensure adequate adaptation for adult and pediatric patients.</b>
	General requirements for single rooms and insulation		Consider the nurse call system for rooms, isolation and toilets.
<b>1.2.1</b>	<b>Chemotherapy Infusion Center (Oncohematology)</b>		Considering 03h in average infusion
1.2.1.1	Internal Waiting Room	1	Intended for companions of patients who are in care. Space for 10 seats, considering the flow of patients and companions and average chemotherapies/day

Item	Environment	Quantity	Description
1.2.1.2	Nurses' station	3	Station with 03 positions and centralized (01 for every 12 seats/beds). Consider space for cabinets for supplies and documents (bins).
1.2.1.3	Service Room	1	Consider space for smart cabinets or cabinets to accommodate medicines and medical supplies, support bench, refrigerator (minimum 8.0 m <sup>2</sup> ). Restricted access.
1.2.1.4	Area for medical prescription	1	It can be next to the nursing station. Consider 02 positions.
1.2.1.5	Box with armchair	27	Area of 5 m <sup>2</sup> per armchair. It is recommended to have dividers between the armchairs and <u>curtains in the front</u> (to ensure patient privacy) and to allow the visualization of the nursing station. Consider gas network, space for injection pump support, companion chair.
1.2.1.6	Walk-in box with bed	2	Area of 7 m <sup>2</sup> per bed. It is recommended to have partitions between the beds and <u>curtains in the front</u> (to ensure patient privacy) and to allow the view of the nursing station. Consider gas network and space for injector pump support, companion chair.
1.2.1.7	Single box with bed	2	For patients who require isolation. Consider gas network and space for injector pump support, companion chair.
1.2.1.8	Emergency box	1	Same size as a single room (minimum 7 m <sup>2</sup> ) that can accommodate an emergency car, IV stand, gas network.
1.2.1.9	Undifferentiated office	1	Consider space for office desk, chairs for professional, patient and companions
<b>1.2.2</b>	<b>Drug Infusion Center + CRIE</b>		
1.2.2.1	Internal Waiting Room	1	Intended for companions of patients who are in care. Consider waiting space for 10 seats.
1.2.2.2	Nurses' station	1 out of every 12 seats/beds	Station with 03 positions and centralized (01 for every 12 seats/beds). Consider space for cabinets for supplies and documents (bins).

Item	Environment	Quantity	Description
1.2.2.3	Vaccination room	1	Exclusive refrigerator area for vaccines that must be connected to the generator.  Countertop with washbasin. Cabinets with drawers for inputs. Table and chairs. Place for storage of thermal boxes.
1.2.2.4	Service Room	1	Consider space for smart cabinets or cabinets to accommodate medicines and medical supplies, support bench, refrigerator (minimum 8.0 m <sup>2</sup> ).  Restricted access.
1.2.2.5	Area for medical prescription	1	It can be next to the nursing station.  Consider 02 positions.
1.2.2.6	Box with armchairs	5	Area of 5 m <sup>2</sup> per armchair.  It is recommended to have dividers between the armchairs and curtains in the front (to ensure patient privacy) and to allow the visualization of the nursing station. Consider gas network, space for injection pump support, companion chair.
1.2.2.7	Single room with armchair	2	For patients who require isolation.  Consider gas network and space for injector pump support, companion chair.
1.2.2.8	Walk-in box with bed	1	Area of 7 m <sup>2</sup> per bed.  It is recommended to have partitions between the beds and curtains in the front (to ensure patient privacy) and to allow the view of the nursing station.  Consider gas network and space for injector pump support, companion chair.
1.2.2.9	Emergency box	1	Same size as a single room (minimum 7 m <sup>2</sup> ) that can accommodate an emergency car, IV stand, gas network.
1.2.2.10	Undifferentiated office	1	Consider space for office desk, chairs for professional, patient and companions
<b>1.2.3</b>	<b>Transfusion and hemotherapy center</b>		<b>For patients discharged from BMT and outpatient transfusions</b>
1.2.3.1	Internal Waiting Room	1	Intended for companions of patients who are in care. Consider the number of seats according to the flow of patients and companions/day
1.2.3.2	Nurses' station	1	Station with 03 positions and centralized.  Consider space for cabinets for supplies and documents (bins).
1.2.3.3	Service Room	1	Consider space for smart cabinets or cabinets to accommodate medicines and medical supplies, support bench, refrigerator (minimum 8.0 m <sup>2</sup> ).

Item	Environment	Quantity	Description
			Restricted access.
1.2.3.4	Area for medical prescription	1	It can be next to the nursing station.  Consider 02 positions.
1.2.3.5	Box with armchairs	2	Area of 5 m <sup>2</sup> per armchair.  It is recommended to have dividers between the armchairs and <u>curtains in the front</u> (to ensure patient privacy) and to allow the visualization of the nursing station.  Consider gas network, space for injection pump support, companion chair.
1.2.3.6	Individual box with armchair	1	For patients who require isolation. Consider gas network and space for injector pump support, companion chair.
1.2.3.7	Walk-in box with bed	1	It is recommended to have partitions between the beds and <u>curtains in the front</u> (to ensure patient privacy) and to allow the view of the nursing station.  Curtains should be installed on suspended rails, fixed to the ceiling or ceiling.  They must have the lower edge suspended from the floor by 20 cm and have rails and casters made of non-oxidizing material.
1.2.3.8	Emergency box	1	Same size as a single room (minimum 7 m <sup>2</sup> ) that can accommodate an emergency car, IV stand, gas network.
1.2.3.9	Undifferentiated office	1	Consider space for office desk, chairs for professional, patient and companions
<b>1.2.4</b>	<b>Dressings and minor procedures</b>		
1.2.4.1	Room for dressings and small outpatient procedures	2	Minimum of 09 m <sup>2</sup> . Area intended for small outpatient, <u>elective and scheduled procedures</u> , and which do not require the structure of a surgical room. It can be more central and be shared by the Day Hospital services. Consider spaces for cabinets, service stretcher, auxiliary tables, chair and owl. Circulation area for auxiliary tables and for the care team.
1.2.4.2	Wet room	1	Area for preliminary cleaning of wounds, with facilities for hand washing (tap) and body (shower).  Walls and surfaces should be made of materials that can be easily cleaned and disinfected.

Item	Environment	Quantity	Description
			To prevent slips and falls, the floor should be covered with non-slip material.
<b>1.2.5</b>	<b>Day Hospital support areas</b>		
1.2.5.1	Reception	1	Bureaucratic patient care
1.2.5.2	Internal Waiting Room	1	Consider space for 50 waiting places, based on the flow of patients and companions for all areas of care of the Day Hospital. Consider the area of accessibility.
1.2.5.3	Collective Toilet for Patients and Public (men/women)	2 *	<p>With support for diaper changing table.</p> <p>Adequate measures for accessibility. Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.</p> <p>It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary</p>
1.2.5.4	Accessible toilet	1 *	<p>Adequate measures for accessibility.</p> <p>Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.</p> <p>It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.</p>
1.2.5.5	Toilets for ostomy patients	1	<p>For ostomy toilets, the toilet can be smaller, in an elevated position and with frontal space.</p> <p>Grab and discharge bars in a proportionately higher position and must contain a hygienic shower.</p> <p>It is necessary to consider that the patient sometimes needs to enter with a companion to size the space.</p>
1.2.5.6	Equipment storage room	1 *	Consider adequate area to maintain intermittent use equipment (confirm medical technologies project)
1.2.5.7	Meeting and Training Room	1	Equipped with multimedia, with two working positions and a meeting table.
1.2.5.8	Administrative Room	1	Coordination room with 02 positions
1.2.5.9	Utility Room	1 *	It must be provided with a countertop with a sink and a dump sink, with flush valve activation and 75 mm piping

Item	Environment	Quantity	Description
1.2.5.10	Seating Area/Employee Pantry	1 *	Consider in the space a sink, infrastructure for installing a water filter, appropriate countertop or table, cabinets for storing utensils.
1.2.5.11	Patient distribution cup	1 *	Pantry with countertop, cabinets and space for microwave oven
1.2.5.12	Laundry Area	1 *	Locked locker area for clean wardrobe/smart lockers
1.2.5.13	Cleaning Material Deposit - DML	1 *	DML for this area, we recommend that it have dimensions above the RDC50 recommendation (1mx2m) because it must accommodate, in addition to the tank, the hygiene cart with dimensions of 119 x 058 x 110, a cabinet for storing consumer products.  You should also consider the existence of a drain to remove water from buckets used in the hygiene of the environments.  Temporary shelters (both for clothes and waste) must provide for the storage of 500L containers (1415mm x 810mm) explanatory content in lines 75, 76, 77, 78 and 79 of this worksheet
1.2.5.14	Temporary Shelter for Hazardous Chemical Waste	1 *	
1.2.5.15	Temporary Infectious Waste Shelter	1 *	
1.2.5.16	Temporary Shelter for Organic Waste	1 *	
1.2.5.17	Temporary Shelter for Dirty Clothes	1 *	
<b>1.3</b>	<b>PHARMACY</b>		
<b>1.3.1</b>	<b>Outpatient Pharmacy (Dispensation to the Public)</b>		
1.3.1.1	Internal Waiting Room	1	Space for 08 seats (patients and companions), adjust according to the volume of service that will be informed
1.3.1.2	Service and registration counters	3	Number of service counters for an average of 05 minutes/service
1.3.1.3	Management area: Picking and packing for delivery	1	Consider spaces for a desk or work counter, shelves or cabinets with bins for storing medicines and cabinets for storing packages and supplies.
1.3.1.4	Stock areas for medications	1	They need to be air-conditioned and closed in a place restricted to pharmacy professionals and have a total area sufficient to house the shelves where the medicines will be stored in an orderly manner. Sockets connected to the generator
1.3.1.5	Areas for refrigerators	1	

Item	Environment	Quantity	Description
1.3.1.6	Dispensing area and directions	1	It is suggested that counters and tables with chairs and partitions be placed in the dispensing area, allowing greater interaction between the pharmacist and the user.
1.3.1.7	Private Room for Pharmaceutical Guidance	1	Consider space for office desk, chairs for professional, patient and companions
<b>1.3.2</b>	<b>Pharmaceutical Supply Center (CAF)</b>		<b>Centralized for the entire complex - Total area of approximately 700 m<sup>2</sup></b>
1.3.2.1	Area for receiving medicines and supplies	1	It must be close to the docks with an approximate area of 500 m <sup>2</sup> .
1.3.2.2	Stock area for medicines and supplies	1	It must have restricted access only to authorized persons and have sufficient capacity to ensure the orderly storage of the various categories of medicines, raw materials, packaging materials and manipulated products (smart and rail shelves), climatized with workbenches and computers.
1.3.2.3	Area for the storage of refrigerated medicines	1	Area for approximately 08 refrigerators
1.3.2.4	Area for storage of controlled drugs	1	Area with shelves and cabinets, approximate area of 10 m <sup>2</sup> . Area with access control.
1.3.2.5	Area for Unitarization	1	Minimum of 18 m <sup>2</sup> .  Next to the clean area with pass through.  Consider space for unitarization equipment, support bench with two working positions, shelves with divider for storing unitized medicines
1.3.2.6	Kit and Car Assembly Area	1	Workbenches.  Single area to cater to the different specialties.
1.3.2.7	Quarantine Area	1	Equipped with shelves and a workstation
1.3.2.8	Dispensing area for inputs and kits	1	Minimum area of 30 m <sup>2</sup> .  Consider space to accommodate dispensing carts. Support counter for computer and material that will be delivered
1.3.2.9	Area for Clinical Pharmacy	1	Consider 04 workstations with bench and computers. This area was provided for the evaluation of electronic prescriptions before the release of preparation or delivery of medicines. And, to answer doctors' questions. It is recommended that you stay close to the pharmacy.
<b>1.3.3</b>	<b>Pharmacotechnics (Unitarization and Preparation of Medicines Center for the Complex)</b>		<b>ISO class 7 (10,000 particles/cubic foot of air). Total area of approximately 300 m<sup>2</sup></b>  Provide an area for weighing.

Item	Environment	Quantity	Description
1.3.3.8	Men's Barrier Restroom and Locker Room	2	<p>Have a room for clothing, ventilated, preferably with two environments (dirty/clean barrier) and serving as access to the weighing and handling areas.</p> <p>In the dressing room or next to it, there must be a washbasin with liquid soap and antiseptic, as well as a resource for hand drying.</p> <p>This washbasin must be for exclusive use for the dressing process.</p> <p>With an eyewash area and shower.</p>
1.3.3.9	Women's Barrier Bathroom and Locker Room	1	
1.3.3.10	Masterful solution preparation booths	1	Workbench with a working position. Approximate area of 4 m <sup>2</sup>
1.3.3.11	Oral liquid preparation cabinets	1	Workbench with a working position. Approximate area of 4 m <sup>2</sup>
1.3.3.12	Oral solids preparation booth	1	Workbench with a working position. Approximate area of 4 m <sup>2</sup>
1.3.3.13	Area for cleaning materials	1	The room must be contiguous to the handling area and equipped with a double door passage (passthrough) for the entry of material in a safe condition
1.3.3.14	Anteroom for class II B2 cabins	4	<p>They must be independent and exclusive, equipped with air filters for the retention of particles and microorganisms, ensuring the recommended levels - ISO Class 5 (100 particles/cubic foot of air) or under laminar flow, ISO Class 5 (100 particles/cubic foot of air), in an ISO Class 7 area and have positive pressure in relation to adjacent rooms.</p> <p>Space for a chair for the professional and pass through to the quality control area</p>
1.3.3.15	Cabins with exhaust and HEPA filter and negative pressure (Class II B2)	3	
1.3.3.16	Quality control area	1	<p>Separated from the preparation cabins by Pass Through.</p> <p>Conference counter for 04 working positions and assembly area for dispensing carts.</p>
1.3.3.17	Dispensing area for compounded medications	1	<p>Minimum area of 50 m<sup>2</sup>.</p> <p>Dutch window or door with access control for delivery of prepared medications and delivery cars to the units</p>
<b>1.3.4</b>	<b>Support area for Pharmacy (Outpatient, Unitarization Center and Preparation of Medicines for the Complex)</b>		
1.3.4.1	Administrative area	1	Coordination room for 02 positions

Item	Environment	Quantity	Description
1.3.4.2	Meeting and Training Room - Residency and Internship	1	Equipped with multimedia, with two working positions, chairs and table for meetings
1.3.4.3	Training booth	1	Booth with two computer stations for training
1.3.4.4	Living Area/Employee Cup	1 *	Consider in the space a sink, infrastructure for installing a water filter, appropriate countertop or table, cabinets for storing utensils.
1.3.4.5	Toilets for Male Employees	2 *	Adequate measures for accessibility.  Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.  It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.
1.3.4.6	Toilets for female employees	2 *	Adequate measures for accessibility.  Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.  It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.
1.3.4.7	Accessible Employee Toilets	2 *	Free diameter of 1.50 m for wheelchair maneuver 360. Washbasins must ensure a maximum of 0.80 m on the upper surface, so that it is possible to fit the wheelchair. Consider having grates and drains positioned outside the maneuvering and transfer areas
1.3.4.8	Cleaning Material Deposit - DML	1 *	DML for this area, we recommend that it have dimensions above the RDC50 recommendation (1mx2m) because it must accommodate, in addition to the tank, the hygiene cart with dimensions of 119 x 058 x 110, a cabinet for storing consumer products.  You should also consider the existence of a drain to remove water from buckets used in the hygiene of the environments.
1.3.4.9	Temporary Shelter for Hazardous Chemical Waste	1 *	Temporary shelters (both for clothes and waste) must provide for the storage of 500L containers (1415mm x 810mm)
1.3.4.10	Temporary Infectious Waste Shelter	1 *	Temporary shelters (both for clothes and waste) must provide for the storage of 500L containers (1415mm x 810mm)
1.3.4.11	Temporary Shelter for Organic Waste	1 *	Temporary shelters (both for clothes and waste) must provide for the storage of 500L containers (1415mm x 810mm)

Item	Environment	Quantity	Description
1.3.4.12	Temporary Shelter for Dirty Clothes	1 *	Temporary shelters (both for clothes and waste) must provide for the storage of 500L containers (1415mm x 810mm)
<b>1.5</b>	<b>REHABILITATION CENTER</b>		
<b>1.5.1</b>	<b>Paediatric Room</b>		
1.5.1.1	Practical Life Activity Room - AVP	1	Environment to re-educate, readapt and rehabilitate the patient for their daily lives. 20m <sup>2</sup> room
1.5.1.2	Individual bathroom with accessibility to Practical Living Activity Room (AVP)	1	With minimum dimensions of 5m <sup>2</sup> .
1.5.1.3	Multiprofessional Room	1	It can contain different rehabilitation modalities. 20m <sup>2</sup> room
<b>1.5.2</b>	<b>Adult Room</b>		
1.5.2.1	Practical Life Activity Room - AVP	1	Environment to re-educate, readapt and rehabilitate the patient for their daily lives. 20m <sup>2</sup> room
1.5.2.2	Individual bathroom with accessibility to Practical Living Activity Room (AVP)	1	With minimum dimensions of 5m <sup>2</sup> .
1.5.2.3	Multiprofessional Room	1	It can contain different rehabilitation modalities. 20m <sup>2</sup> room
<b>1.6</b>	<b>MILK BANK</b>		<b>About 15,000 individual consultations per year</b>
1.6.1	Administrative area	1	Coordination room for 02 positions
1.6.2	Internal reception	1	Area for arrival registration and password, totem for self-service.
1.6.3	Donor Waiting Room	1	Space for 08 seats (patients and companions), adjust according to the volume of service that will be informed
1.6.4	Donor screening room	1	Workstation for 01 position, office desk and chairs
1.6.5	Linen	1	Area with lockers for clothes storage and keys
1.6.6	Offsite pickup reception room	1	It needs a counter or exclusive area to receive the milk that arrives from the home donor.  Have an area with a sink that allows you to sanitize the milk pot
1.6.7	Barrier changing room, prior to the room for milk extraction	1	Have a room for clothing, ventilated, preferably with two environments (dirty/clean barrier) and serving as access to the milking areas. In the dressing room or next to it, there must be a washbasin with liquid soap and antiseptic, as well as a resource for hand drying. This washbasin must be for exclusive use for the dressing process.

Item	Environment	Quantity	Description
1.6.8	Milk extraction room	1	Space for 04 chairs, 1.5 m <sup>2</sup> per chair. Structure that allows the donor to clean the breast, have a cabinet with sterile jars, gloves and caps and offer privacy. With passthrough for the processing area
1.6.9	Barrier locker room for the processing area	1	Have a room for clothing, ventilated, preferably with two environments (dirty/clean barrier) and serving as access to the processing areas. In the dressing room or next to it, there must be a washbasin with liquid soap and antiseptic, as well as a resource for hand drying. This washbasin must be for exclusive use for the dressing process.
1.6.10	Selection, classification and pasteurization room	1	Dynamic environment that requires a mobile bench to change the space according to the activity carried out in the various stages of milk processing. It needs attention at the height of the countertops and water and sewage points. Both need to be sized according to specified equipment
1.6.11	Storage room (freezer or cold room and refrigerators)	1	Have an access window for the milking parlor to facilitate the flow of raw milk and avoid contamination. Refrigerators and freezers connected to the generator
1.6.12	Microbiological Quality Control Laboratory	1	Ideally, this environment should have a direct access window for the processing room. This will prevent unnecessary flow of the milk sample
1.6.13	Utility Room	1	It must be provided with a countertop with a sink and a dump sink, with flush valve activation and 75 mm piping
1.6.14	Undifferentiated office	2	Minimum area of 7.5 m <sup>2</sup> with space for office desk, chairs and stretcher for examination.
1.6.15	Nursing Care Rooms	4	Rooms of at least 2 m <sup>2</sup> . No scale needed.
<b>1.6.15</b>	<b>Support area for the Milk Bank</b>		
1.6.15.1	Utility Room	1	It must be provided with a countertop with a sink and a dump sink, with flush valve activation and 75 mm piping
1.6.15.2	Employee Living Area/Cup	1 *	Consider in the space a sink, infrastructure for installing a water filter, appropriate countertop or table, cabinets for storing utensils.
1.6.15.3	Restrooms for employees (female and male)	2 *	Adequate measures for accessibility.  Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.  It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.
1.6.15.4	Accessible toilet	1 *	Free diameter of 1.50 m for wheelchair maneuver 360. Washbasins must ensure a maximum of 0.80 m on the upper surface, so that it is possible to fit the wheelchair.

Item	Environment	Quantity	Description
			Consider having grates and drains positioned outside the maneuvering and transfer areas
1.6.15.5	Cleaning Material Deposit - DML	1 *	DML for this area, we recommend that it have dimensions above the RDC50 recommendation (1mx2m) because it must accommodate, in addition to the tank, the hygiene cart with dimensions of 119 x 058 x 110, a cabinet for storing consumer products.  You should also consider the existence of a drain to remove water from buckets used in the hygiene of the environments.
1.6.15.6	Temporary Shelter for Organic Waste	1 *	Temporary shelters (both for clothes and waste) must provide for the storage of 500L containers (1415mm x 810mm)
1.6.15.7	Temporary Shelter for Dirty Clothes	1 *	
1.6.15.8	Meeting Room & Education	1	Equipped with multimedia, with two working positions, chairs and table for meetings
<b>2</b>	<b>DIAGNOSTIC AND THERAPEUTIC SUPPORT SERVICE (SADT)</b>		
	General requirements for the entire SADT		IT: For each workstation, 1 complete desktop (microcomputer and monitor), 1 network point and recommendation of at least 4 ABNT standard electrical points per workstation must be designed.  For the waiting room, an overhead password call panel must be designed, requiring 1 network point per panel and 2 electrical points.  For each waiting for care environment, 1 network point and 2 electrical points for patient check-in equipment should be designed.  Consider in the exam rooms 1 network and 4 electrical points for the installation of patient call equipment in the service queue
<b>2.1</b>	<b>CLINICAL PATHOLOGY LABORATORY (collection, emergency exams and routine exams with rapid response)</b>		
<b>2.1.1</b>	<b>Clinical Pathology Laboratory Areas</b>		
2.1.1.1	Reception/Waiting Room for Patients and Companions	1	Position for 01 self-service totem to generate arrival and password.  Waiting space with approximately 40 seats.
2.1.1.2	Ponytail Box	6	With approximately 4 m <sup>2</sup> , 01 for every 15 collections/hour with sink for hand washing and cabinets for storing supplies for use on site.

Item	Environment	Quantity	Description
			Individual Box on the front to ensure privacy.
2.1.1.3	Collection Box with stretcher	2	Approximately 6 m <sup>2</sup> , space for stretcher and countertop with sink for hand washing and cabinet for storing supplies for local use.
2.1.1.4	Pediatric collection box with stretcher	2	Approximately 6 m <sup>2</sup> , space for stretcher and countertop with sink for hand washing and cabinet for storing supplies for local use.  Consider ambience and sound insulation for pediatric care
2.1.1.5	Mycological collection box	1	Approximately 6 m <sup>2</sup> , space for stretcher and countertop with sink for hand washing and cabinet for storing supplies for local use.
2.1.1.6	Box collects BAAR	1	With Approximately 4 m <sup>2</sup> , 01 With sink for hand washing and cabinets for storing supplies for use on site.  Box with door and air exhaust.
2.1.1.7	Toilet for test collection (urine)	2	With a minimum area of 2 m <sup>2</sup>
2.1.1.8	Area for classification and distribution of samples	1	It must be separated from the collection area by a Dutch door or service window. Window for receiving exams from hospitalized patients.  Workbench with computer and 01 working position. With a workbench with sink and cabinets to accommodate transport cases and supplies for local use.
2.1.1.9	Biochemical Area	1	Area with bench for equipment (Centrifuge, biochemistry equipment) and 02 workstations.
2.1.1.10	Refrigerator area	1	Consider that the sockets in this environment should be connected to the generator
2.1.1.11	Local Warehouse	1	Consider space for shelves to store laboratory materials and supplies and a refrigerator for reagents
2.1.1.12	Administrative Room	1	Coordination room 02 positions
<b>2.1.2</b>	<b>Support areas of the Clinical Pathology Laboratory</b>		
2.1.2.1	Public toilet for Patients and Companions (male and female)	2 *	Adequate measures for accessibility.  Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.  It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.

Item	Environment	Quantity	Description
2.1.2.2	Comfort for employees	1 *	Can be coordinated with the common area (comfort for various areas).  Space for comfortable and reclining beds and armchairs
2.1.2.3	Cup for collaborators	1 *	Consider in the space a sink, infrastructure for installing a water filter, appropriate countertop or table, cabinets for storing utensils.
2.1.2.4	Cleaning Material Deposit - DML	1 *	DML for this area, we recommend that it have dimensions above the RDC50 recommendation (1mx2m) because it must accommodate, in addition to the tank, the hygiene cart with dimensions of 119 x 058 x 110, a cabinet for storing consumer products.  You should also consider the existence of a drain to remove water from buckets used in the hygiene of the environments.
2.1.2.5	Restrooms for Employees (male and female)	2 *	Adequate measures for accessibility.  Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.  It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.
2.1.2.6	Temporary Shelter for Hazardous Chemical Waste	1 *	Temporary shelters must provide for the storage of 500L containers (1415mm x 810mm)
2.1.2.7	Temporary Infectious Waste Shelter	1 *	Temporary shelters must provide for the storage of 500L containers (1415mm x 810mm) and a shelf for the storage of Group E sharps boxes
2.1.2.8	Temporary Shelter for Common Waste	1 *	Temporary shelters must provide for the storage of 500L containers (1415mm x 810mm)
<b>2.2</b>	<b>IMAGING</b>		
	General requirements for Imaging		Plan the area by modules (e.g.: Radiology, Tomography and Magnetic Resonance Imaging, Graphic Methods, Obstetric and Women's Exams) and with different accesses, for the distribution of the number of users in the waiting rooms and specialties, when possible.
<b>2.2.1</b>	<b>Radiology</b>		
	General requirements for radiology		With internal corridors for the circulation of patients who are undergoing exams, care staff and stretchers (hospitalized patients or patients from the Clinical Decision Unit). Handwashing sinks strategically located near exam rooms
2.2.1	Internal Waiting Room	2	Space for 04 seats.

Item	Environment	Quantity	Description
			This is an internal area (it is designed for all exams that may have some prior preparation of the patient, such as changing clothes). The patient is already waiting in a common reception and is called to this internal space to advance these preparations, while another patient is already performing the exam. This speeds up service, avoids delays and equipment downtime.
2.2.2	Patient changing rooms	2 *	Changing space and lockers for storing belongings
2.2.3	Linen (clean laundry)	1	Cabinets with shelves and keys
2.2.4	Preparation room for contrasts	1	Minimum area of 2.5 m <sup>2</sup> , space for an armchair for the patient, cabinet for storing supplies, swivel stool, IV stand and bench with sink.  It is advisable to have this space for patient preparation, puncture and contrast administration to avoid this time being occupied in the examination room and generating possible delays.
2.2.5	Nurses' station and service room	1	Area for 02 workstations and service room with electronic dispensary (storage of contrasts and supplies)
2.2.6	Controlled examination room - X-ray	4	Agenda: Monday, Tuesday, Thursday and Friday - 12 pm; Wednesday - 3 pm; and Saturday - 12 pm.  4 pieces of equipment, considering that 1 of these pieces of equipment should be purchased for the care of obese patients.  Consider access for beds and stretchers in this room.
2.2.7	Controlled examination room - Remote Controlled X-ray	1	
2.2.8	Exam room with control - Mammography	2	
2.2.9	Controlled Examination Room - Bone Densitometry	1	
2.2.10	Room for storage of two mobile X-ray devices	1	Measures dependent on the type of equipment. In this place, the mobile X-ray equipment is "parked" (stored) - which will be used by the SADT team to carry out bedside exams in the ICUs.
2.2.11	Patient changing room	2 *	Considering the changing rooms close to the imaging services, the quantities will vary according to the distances of the rooms
<b>2.2.2</b>	<b>Tomography and Magnetic Resonance Imaging</b>		
2.2.2.1	Internal Waiting Room	1	Space for 04 seats.  This is an internal area (it is designed for all exams that may have some prior

Item	Environment	Quantity	Description
			preparation of the patient, such as changing clothes). The patient is already waiting in a common reception and is called to this internal space to advance these preparations, while another patient is already performing the exam. This speeds up service, avoids delays and equipment downtime.
2.2.2.2	Patient changing rooms	2 *	Consider space for belongings lockers and support benches to change
2.2.2.3	Linen (clean laundry)	1	Cabinets with shelves and keys
2.2.2.4	Induction and anesthetic recovery room with toilet	1	They can be shared between imaging services; the quantities will vary according to the distances from the exam rooms. Space for O2 boxes with bed (dividers and curtain in the front) and O1 box with armchair for venipuncture and medication administration. Consider gas netting for boxes with bed.
2.2.2.5	Nursing station and services	1	Located in the induction and anesthetic recovery room. Countertop with sink and cabinets. Space for the emergency car.
2.2.2.6	Tomography Room	3	<p>Agenda: Monday, Tuesday, Thursday and Friday - 12 pm; Wednesday - 3 pm; and Saturday - 12 pm.</p> <p>2 equipment considering that 1 of these equipment is acquired for the care of obese patients.</p> <p>1 room will be planned for future expansion, without equipment at the beginning of the operation.</p>
2.2.2.7	Tomography Control Room	2	
2.2.2.8	Technical components room for tomography	3	Technical components of the equipment, dimensions to be clarified according to the model.
2.2.2.9	Magnetic Resonance Room	2	<p>Agenda: Monday, Tuesday, Thursday and Friday - 12 pm; Wednesday - 3 pm; and Saturday - 12 pm.</p> <p>2 equipment considering that 1 of these equipment is acquired for the care of obese patients.</p>
2.2.2.10	Magnetic Resonance Control Room	1	Share up to two MRI rooms
2.2.2.11	Area for storing Magnetic Resonance Coils	1	<p>The cabinet must be designed in such a way as to protect the coils from physical damage and electromagnetic interference. This can include the use of non-magnetic materials in the construction of the cabinet and a design that allows easy access to the coils.</p> <p>It can be projected inside the examination room or in adjacent areas if it is easily</p>

Item	Environment	Quantity	Description
			accessible and in a safe place. The coils have different sizes, the dimensions depend on the number and type of coils
2.2.2.12	Room for chilled water circuit and technical components	1	Technical components of the equipment, dimensions to be clarified according to the model.
2.2.2.13	Patient changing room	2 *	Considering the changing rooms close to the imaging services, the quantities will vary according to the distances of the rooms
<b>2.2.3</b>	<b>Ultrasound</b>		<p>Agenda: Monday, Tuesday, Thursday and Friday - 12 pm; Wednesday - 3 pm; and Saturday - 12 pm.</p> <p><b>Consider the acquisition of a stretcher for the performance of tests in obese patients</b></p>
2.2.3.1	Internal Waiting Room	3	<p>Space for 04 seats.</p> <p>This is an internal area (it is designed for all exams that may have some prior preparation of the patient, such as changing clothes). The patient is already waiting in a common reception and is called to this internal space to advance these preparations, while another patient is already performing the exam. This speeds up service, avoids delays and equipment downtime.</p>
2.2.3.2	Patient changing rooms	2 *	Consider space for belongings lockers and support benches to change
2.2.3.3	Linen (clean laundry)	1	Cabinets with shelves and keys
2.2.3.4	Ultrasound room	4	
2.2.3.5	Gynecology ultrasound room with toilet	1	Consider these rooms close to the woman's privacy, and her journey in the diagnostic support service.
2.2.3.6	Obstetrics ultrasound room with toilet	4	
2.2.3.7	Fetal medicine ultrasound room with toilet (4D device)	1	
2.2.3.8	Ultrasound room for urological programs with toilet	1	
2.2.3.9	Echocardiogram Room (Preoperative/Inpatient)	1	
2.2.3.10	Patient changing room	3 *	Considering the changing rooms close to the imaging services, the quantities will vary according to the distances of the rooms
<b>2.2.4</b>	<b>Graphical Methods</b>		<b>Consider the acquisition of equipment and furniture for the care of obese patients.</b>
2.2.4.1	Cardiotocography room	2	2 devices (prenatal and maternity)
2.2.4.2	Electroencephalography (EEG) room	2	

Item	Environment	Quantity	Description
2.2.4.3	Electrocardiography (ECG) room	2	The distribution of equipment in the Complex must be defined at the time of equipping the rooms.
2.2.4.4	Holter Room/MAP	1 + 1	For high-risk pregnancies
2.2.4.5	Pulmonary function room	1	1 device (Spirometer). To care for patients with cystic fibrosis, you must have at least 1 Mobile Spirometer.
<b>2.2.5 Support areas for Imaging</b>			
2.2.5.1	Reception	1	A totem for arrival registration and ticket withdrawal.
2.2.5.2	Reception/Waiting Room for Patients and Companions	1 *	Modular waiting rooms for the different services, as mentioned in the general requirements. Number of seats will depend on the services that will be grouped.
2.2.5.3	Wheelchair storage space	1 *	Have a strategic location, with accessibility and that has an average of dimensions for at least 01 stretcher and 02 adult wheelchairs and 01 wheelchair for obese.  Wide doors and spacious corridors to allow easy entry and exit of stretchers and wheelchairs
2.2.5.4	Public toilets (male and female)	2 *	Adequate measures for accessibility.  Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.  It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.
2.2.5.5	Public toilet with accessibility	2 *	Free diameter of 1.50 m for wheelchair maneuver 360. Washbasins must ensure a maximum of 0.80 m on the upper surface, so that it is possible to fit the wheelchair.  Consider having grates and drains positioned outside the maneuvering and transfer areas
2.2.5.6	Comfort for employees	1 *	For night shift, with reclining seats.
2.2.5.7	Lounge/Employee Cup	1 *	Consider in the space a sink, infrastructure for installing a water filter, appropriate countertop or table, cabinets for storing utensils.
2.2.5.8	Toilets for employees (male and female)	4 *	Adequate measures for accessibility.  Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.

Item	Environment	Quantity	Description
			It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.
2.2.5.9	Cleaning Material Deposit - DML	1 *	DML for this area, we recommend that it have dimensions above the RDC50 recommendation (1mx2m) because it must accommodate, in addition to the tank, the hygiene cart with dimensions of 119 x 058 x 110, a cabinet for storing consumer products.  You should also consider the existence of a drain to remove water from buckets used in the hygiene of the environments.
2.2.5.10	Weekly Warehouse Area	1 *	Area with electronic dispensary that can serve the areas of imaging services.  Strategic location considering the distances of the rooms, if necessary, plan more than 01 room.
2.2.5.11	Temporary Shelter for Hazardous Chemical Waste	1 *	Temporary shelters must provide for the storage of 500L containers (1415mm x 810mm)
2.2.5.12	Temporary Infectious Waste Shelter	1 *	Temporary shelters must provide for the storage of 500L containers (1415mm x 810mm)
2.2.5.13	Temporary Shelter for Common Waste	1 *	Temporary shelters must provide for the storage of 500L containers (1415mm x 810mm)
2.2.5.14	Meeting and Training Room	1	Equipped with multimedia, with two working positions, chairs and table for meetings
2.2.5.15	Training booth	1	With two computer stations for training
<b>2.3</b>	<b>RADIOTHERAPY AND NUCLEAR MEDICINE</b>		
<b>2.3.1</b>	<b>Radiotherapy</b>		Agenda: Monday, Tuesday, Thursday and Friday - 12 pm; Wednesday - 3 pm; and Saturday - 12 pm.  Consider an area with restricted access.  <b>At the beginning, the operation of only 1 linear accelerator will be planned, with areas for future expansion of 1 more linear accelerator.</b>
2.3.1.1	Fountain stock room in use	1	Minimum of 8 m <sup>2</sup> , with shielding. The room should have a designated place for the secure storage of radiopharmaceuticals.
2.3.1.2	Local stock	1	Space for storage of medical materials and supplies, minimum of 6 m <sup>2</sup>
2.3.1.3	Decay Room (radioactive waste)	1	Must house lead-shielded containers (decay boxes)

Item	Environment	Quantity	Description
2.3.1.4	Internal Waiting Room	1	Space for 04 seats.  This is an internal area (it is designed for all exams that may have some prior preparation of the patient, such as changing clothes). The patient is already waiting in a common reception and is called to this internal space to advance these preparations, while another patient is already performing the exam. This speeds up service, avoids delays and equipment downtime.
2.3.1.5	Box for collecting materials	1	Space for armchair and side table
2.3.1.6	Box for collecting materials with stretcher	1	Space for stretcher and auxiliary table
2.3.1.7	Eyewash area and shower	1	Must be close to radiopharmaceutical administration areas in case of accidents
2.3.1.8	Radiopharmaceutical preparation room	1	The area must have a space for clothing, equipped with a washbasin or sink for hand hygiene and the area for the preparation of the radiopharmaceutical must be equipped with a bench suitable for the preparation of radiopharmaceuticals.
2.3.1.9	Nurses' station	1	Station with 02 positions and centralized.  Consider space for cabinets for supplies and documents (bins).
2.3.1.10	Individual Injected Patients Box with Bed	2	Not minimum 2 m <sup>2</sup> per patient
2.3.1.11	Injected patient room	1	Armored room with restricted access
2.3.1.12	Brachytherapy room	1	The size of the room depends on the equipment that will be purchased.
2.3.1.13	Circulation access to the treatment room (Linear Accelerator)	2	
2.3.1.14	Linear Accelerator Control Room	2	Each therapy or simulation room must have a control room, and 1 room can be shared by up to 2 therapy or simulation rooms.
2.3.1.15	Labyrinth (access to treatment area)	2	
2.3.1.16	Treatment area (Linear Accelerator)	2	The size of the room depends on the equipment that will be purchased
2.3.1.17	Technical area of the equipment	2	
2.3.1.18	Area for cooling chillers	2	
2.3.1.19	Room for electrical components	2	
2.3.1.20	Equipment storage room	1	Consider an adequate area to keep portable equipment.
2.3.1.21	Physicist's room (planning)	1	
2.3.1.22	Undifferentiated office	2	Minimum area of 7.5 m <sup>2</sup> with space for office desk, chairs and stretcher for examination.

Item	Environment	Quantity	Description
2.3.1.23	Mold and mask room	1	Minimum of 10 m <sup>2</sup> . The room must contain a flat-top table, positioners and a water bath for making molds and masks.
2.3.1.24	Utility room (purge)	1	It must be provided with a countertop with a sink and a sink
2.3.1.25	Dosimetry room	1	
<b>2.3.2</b>	<b>Nuclear medicine</b>		Agenda: Monday, Tuesday, Thursday and Friday - 12 pm; Wednesday - 3 pm; and Saturday - 12 pm.  Consider an area with restricted access.
2.3.2.1	Gama Chamber Control Room	1	
2.3.2.2	Gama Chamber Room	1	
2.3.2.3	PET/CT control room	1	1 room can be shared by up to 2 therapy or simulation rooms
2.3.2.4	PET/CT room	1	
2.3.2.5	Area for future expansion (PET/CT or PET/MRI room)	1	
2.3.2.6	Area for future expansion (PET/CT or PET/MRI Control Room)	1	
2.3.2.7	Area for future expansion (Area for storing MRI coils)	1	The cabinet must be designed in such a way as to protect the coils from physical damage and electromagnetic interference. This can include the use of non-magnetic materials in the construction of the cabinet and a design that allows easy access to the coils.  It can be projected inside the examination room or in adjacent areas if it is easily accessible and in a safe place. The coils have different sizes, the dimensions depend on the number and type of coils
2.3.2.8	Area for future expansion (Room for chilled water circuit and technical components)	1	Technical components of the equipment, dimensions to be clarified according to the model.
<b>2.3.3</b>	<b>Support areas for Nuclear Medicine</b>		
2.3.3.1	Reception	1	Space for Totem for arrival registration and ticket withdrawal. Network Point for Nursing Call Panel
2.3.3.2	Reception/Waiting Room for Patients and Companions	1	Space with 08 seats (chairs or stringers), based on the flow of patients/day.
2.3.3.3	Wheelchair storage space	1*	Have a strategic location, with accessibility and that has an average of dimensions for at least 01 stretcher and 02 adult wheelchairs and 01 wheelchair for obese.

Item	Environment	Quantity	Description
			Wide doors and spacious corridors to allow easy entry and exit of stretchers and wheelchairs
2.3.3.4	Toilets (male and female)	2 *	<p>Adequate measures for accessibility.</p> <p>Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.</p> <p>It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.</p>
2.3.3.5	Accessible toilet	1 *	<p>Free diameter of 1.50 m for wheelchair maneuver 360. Washbasins must ensure a maximum of 0.80 m on the upper surface, so that it is possible to fit the wheelchair.</p> <p>Consider having grates and drains positioned outside the maneuvering and transfer areas</p>
2.3.3.6	Patient changing room	2 *	Consider belongings lockers
2.3.3.7	Linen	1 *	You should consider the existence of locked cabinets
2.3.3.8	Cup for collaborators	1 *	Consider in the space a sink, infrastructure for installing a water filter, appropriate countertop or table, cabinets for storing utensils.
2.3.3.9	Cleaning Material Deposit - DML	1 *	<p>DML for this area, we recommend that it have dimensions above the RDC50 recommendation (1mx2m) because it must accommodate, in addition to the tank, the hygiene cart with dimensions of 119 x 058 x 110, a cabinet for storing consumer products.</p> <p>You should also consider the existence of a drain to remove water from buckets used in the hygiene of the environments.</p>
2.3.3.10	Restrooms/Changing rooms for employees (male and female)	2 *	<p>Adequate measures for accessibility.</p> <p>Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.</p> <p>It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.</p>
2.3.3.11	Meeting and Training Room	1	Equipped with multimedia, with two working positions, chairs and table for meetings
2.3.3.12	Training booth	1	Booth with two computer stations for training

Item	Environment	Quantity	Description
<b>2.4 LABORATORY OF PATHOLOGICAL ANATOMY AND CYTOLOGY</b>			
General requirement for the pathology service			Consider a sample receiving station. The samples will be sent for analysis at the contracted laboratory
2.4.1	Reception room and classification of samples (internal user service)	1	Window for service and receipt of samples. Bench with computer and support for samples. Area for sink and cabinets for storing supplies.
2.4.2	Area for refrigerators and transport boxes	1	Space for storage of transport boxes. Consider that the sockets in this environment should be connected to the generator.
2.4.3	Frozen biopsy room	1	Located in the Operating Room
<b>3 IMMEDIATE CARE - CLINICAL DECISION UNIT</b>			
<b>General requirements for all Immediate Service</b>			<p><b>For waiting rooms:</b> an overhead password call panel must be designed, requiring 1 network point per panel and 2 electrical points.</p> <p>Consider spaces for the dissemination of information relevant to the health of the population using the service (Televisions and Displays). For each waiting room for care, 1 network point and 2 electrical points for patient check-in equipment should be designed For each workstation, 1 complete desktop (microcomputer and monitor), 1 network point and recommendation of at least 4 ABNT standard electrical points per workstation must be designed.</p>
<b>General requirements for the Clinical Decision Unit</b>			<p>The access door is unique. However, after entry, patients follow specific flows according to the specialty.</p> <p><b>Consider 10% of the physical structure, equipment and furniture for the care of obese patients.</b></p>
<b>3.1 INFECTIOUS DISEASES</b>			
<b>He had no history of emergency care - criterion of 50% of hospitalizations</b>			
3.1.1	External Area for Ambulance Disembarkation	1	Covered (single entry)
3.1.2	Area for Stretcher and Wheelchair Storage	1 *	Have a strategic location, with accessibility and that has an average of dimensions for at least 01 stretcher and 02 adult wheelchairs and 01 wheelchair for obese. Wide doors and spacious corridors to allow easy entry and exit of stretchers and wheelchairs
3.1.3	Emergency Room (red room) - Shock Room	1	Minimum footage of 14 m <sup>2</sup> . Single room for all specialties with 04 service boxes, each equipped with a gas strip, easy-access cabinets for emergency kits, stretcher, mechanical ventilator, multi-parameter monitor support, emergency car, auxiliary tables and IV stands. Countertop with sink and hanging cabinets. Room with negative pressure.

Item	Environment	Quantity	Description
3.1.4	Reception/Waiting Room for Patients - Infectious Diseases	1	Follow flow signs for the specialty so that patients are segregated according to the specialty they will be attended.  02 Counters for patient admission and waiting room for 20 seats, based on patient care flows/day and seasonality.
3.1.5	<b>Offices for triage with respiratory isolation (negative pressure and antechamber)</b>	<b>1</b>	Minimum footage of 10 m <sup>2</sup> and 2.5 m <sup>2</sup> for the antechamber. Space for a table, chairs and stretcher for examination.
3.1.6	Offices for triage	1	Minimum footage of 10 m <sup>2</sup> . Space for a table, chairs and stretcher for examination.
3.1.7	Observation beds	4	Minimum of 7.5 m <sup>2</sup> . It is recommended to have partitions between the beds and curtains in the front (to ensure patient privacy) and to allow the view of the nursing station. Curtains should be installed on suspended rails, fixed to the ceiling or ceiling. They must have the lower edge suspended from the floor by 20 cm and have rails and casters made of non-oxidizing material.
3.1.8	<b>Observation bed for isolation with bathroom and sanitary barrier</b>	<b>2</b>	Toilet with exclusive entrance and box sewage for incineration. With antechamber for dressing and undressing, cabinets for PPE and space for hampers to disregard PPE. With HEPA air filtration, negative and positive pressure (with large front glass display). Space for bed, IV stand, gas network, space for circulation.
3.1.9	<b>Inpatient Admission Room (pre-admission)</b>	1	<b>Room intended for the pre-hospitalization of elective patients (scheduled surgical and clinical). Room with space for 03 stretchers and chairs for companions, separated by partitions and front visor. Next to the nursing station.</b>
3.1.10	Medication/inhalation/exam collection room with toilet	1	Room with 4 distributed armchairs allowing a view of an internal nursing station
3.1.11	Individual box for medication/inhalation/collection of exams with toilet	1	With space for armchair and chair for companion. Front glass display.  Consider individual inhalation prediction.
3.1.12	Nursing station and services	1	Station with 03 positions and centralized (01 for every 12 armchairs/beds) Consider space for cabinets for inputs and documents (bins).
3.1.13	<b>Medical prescription room</b>	1	<b>Consider 04 positions and close to the nursing stations</b>
3.1.14	Patient toilet	2 *	Next to the observation beds.
3.1.15	Small Procedures Room	1	With space for a procedure stretcher, emergency car, bench with sink and cabinets, focus. Consider gas network.
3.1.16	Utility Room	1	It must be provided with a countertop with a sink and a dump sink, with flush valve activation and 75 mm piping
3.1.17	Social Worker Room	1	Can be shared for other specialties
3.1.18	Psychologists Room	1	Can be shared for other specialties

Item	Environment	Quantity	Description
3.1.19	Equipment storage room	1	They can be shared for other specialties. Shelves with shelves and electrical outlets for infusion pump, space for portable equipment.
3.1.20	Linen	1	Consider the existence of locked cabinets
<b>3.2</b>	<b>ONCOLOGY</b>		<b>Criterion of 50% of hospitalizations being urgent.</b>
3.2.1	External Area for Ambulance Disembarkation	1	Covered (single entry)
3.2.2	Area for Stretcher and Wheelchair Storage	1 *	Have a strategic location, with accessibility and that has an average of dimensions for at least 01 stretcher and 02 adult wheelchairs and 01 wheelchair for obese. Wide doors and spacious corridors to allow easy entry and exit of stretchers and wheelchairs
3.2.3	Emergency Room (red room) - Shock Room	1	Minimum footage of 14 m <sup>2</sup> / emergency bed. Single room for all specialties with 04 service boxes, each equipped with a gas strip, easy-access cabinets for emergency kits, stretcher, mechanical ventilator, multi-parameter monitor support, emergency car, auxiliary tables and IV stands. Countertop with sink and hanging cabinets. Room with negative pressure.
3.2.4	Patient Reception/Waiting Room - Oncology	1	Follow flow signs for the specialty so that patients are segregated according to the specialty they will be attended.  02 Counters for patient admission and waiting room for 20 seats, based on patient care flows/day and seasonality.
3.2.5	Offices for triage	1	Minimum footage of 10 m <sup>2</sup> . Space for a table, chairs and stretcher for examination.
3.2.6	Observation beds	6	Minimum of 7.5 m <sup>2</sup> . It is recommended to have partitions between the beds and curtains in the front (to ensure patient privacy) and to allow the view of the nursing station. Curtains should be installed on suspended rails, fixed to the ceiling or ceiling. They must have the lower edge suspended from the floor by 20 cm and have rails and casters made of non-oxidizing material.
3.2.7	<b>Observation bed for isolation with bathroom and barrier and toilet</b>	<b>1</b>	Toilet with exclusive entrance and box sewage for incineration. With antechamber for dressing and undressing, cabinets for PPE and space for hampers to disregard PPE. With HEPA air filtration, negative and positive pressure (with large front glass display). Space for bed, IV stand, gas network, space for circulation.
3.2.8	<b>Inpatient Admission Room (pre-admission)</b>	<b>1</b>	<b>Room intended for the pre-hospitalization of elective patients (scheduled surgical and clinical). Room with space for 03 armchairs and chairs for companions, separated by partitions and front visor. Next to the nursing station.</b>
3.2.9	Medication/inhalation/exam collection room with toilet	1	Room with 6 distributed armchairs allowing a view of an internal nursing station
3.2.10	Individual box for medication/inhalation/collection of exams with toilet	1	With space for armchair and chair for companion. Front glass display.

Item	Environment	Quantity	Description
3.2.11	Nursing station and services	1	Station with 03 positions and centralized (01 for every 12 seats/beds). Consider space for cabinets for supplies and documents (bins).
3.2.12	<b>Medical prescription room</b>	1	<b>Consider 04 positions and close to the nursing stations</b>
3.2.13	Patient toilet	2 *	Next to the observation beds.
3.2.14	Small Procedures Room	1	With space for a procedure stretcher, emergency car, bench with sink and cabinets, focus. Consider gas network.
3.2.15	Utility Room	1	It must be provided with a countertop with a sink and a dump sink, with flush valve activation and 75 mm piping
3.2.16	Social Worker Room	1	Can be shared for other specialties
3.2.17	Psychologists Room	1	Can be shared for other specialties
3.2.18	Equipment storage room	1	They can be shared for other specialties. Shelves with shelves and electrical outlets for infusion pump, space for portable equipment.
3.2.19	Linen	1	Consider the existence of locked cabinets
<b>3.3</b>	<b>PAEDIATRICS</b>		
3.3.1	External Area for Ambulance Disembarkation	1	Covered (single entry)
3.3.2	Area for Stretcher and Wheelchair Storage	1 *	Have a strategic location, with accessibility and that has an average of dimensions for at least 01 stretcher and 02 adult wheelchairs and 01 wheelchair for obese. Wide doors and spacious corridors to allow easy entry and exit of stretchers and wheelchairs
3.3.3	Emergency Room (red room) - Shock Room	1	Minimum footage of 14 m <sup>2</sup> / emergency bed. Single room for all specialties with 04 service boxes, each equipped with a gas strip, easy-access cabinets for emergency kits, stretcher, mechanical ventilator, multi-parameter monitor support, emergency car, auxiliary tables and IV stands. Countertop with sink and hanging cabinets. Room with negative pressure.
3.3.4	Reception/Waiting Room for Patients - Pediatrics	1	Follow flow signs for the specialty so that patients are segregated according to the specialty they will be attended. 02 Counters for patient admission and waiting room for 20 seats, based on patient care flows/day and seasonality.
3.3.5	Offices for triage	1	Minimum footage of 10 m <sup>2</sup> . Space for table, chairs
3.3.6	<b>Offices with respiratory isolation (negative pressure and antechamber)</b>	<b>1</b>	Minimum footage of 10 m <sup>2</sup> and 2.5 m <sup>2</sup> for the antechamber. Space for a table, chairs and stretcher for examination.

Item	Environment	Quantity	Description
3.3.7	Conventional offices	1	Minimum footage of 10 m <sup>2</sup> . Space for a table, chairs and stretcher for examination.
3.3.8	Observation beds	8	It is recommended to have partitions between beds/cribs and curtains in the front (to ensure patient privacy) and to allow the view of the nursing station. Curtains should be installed on suspended rails, fixed to the ceiling or ceiling. They must have the lower edge suspended from the floor by 20 cm and have rails and casters made of non-oxidizing material.
3.3.9	<b>Isolation room with antechamber and bathroom</b>	<b>2</b>	Toilet with exclusive entrance and box sewage for incineration. With an antechamber for dressing and undressing, cabinets for PPE and space for hampers to disregard PPE. With HEPA air filtration, negative and positive pressure (with large front glass display). Space for bed, IV stand, gas network, space for circulation.
3.3.10	<b>Inpatient Admission Room (pre-admission)</b>	1	<b>Room intended for the pre-hospitalization of elective patients (scheduled surgical and clinical). Room with space for 03 armchairs and chairs for companions, separated by partitions and front visor. Next to the nursing station.</b>
3.3.11	Medication/inhalation/exam collection room with toilet	1	Room with 8 distributed armchairs allowing a view of an internal nursing station
3.3.12	Individual box for medication/inhalation/collection of exams with toilet	1	With space for armchair and chair for companion. Front glass display.
3.3.13	Nursing station and services	1	Station with 03 positions and centralized (01 for every 12 armchairs/beds) Consider space for cabinets for inputs and documents (bins).
3.3.14	<b>Medical prescription room</b>	1	<b>Consider 04 positions and close to the nursing stations</b>
3.3.15	Patient toilet	2 *	Next to the observation beds.
3.3.16	Small Procedures Room	1	With space for a procedure stretcher, emergency car, bench with sink and cabinets, focus. Consider gas network.
3.3.17	Utility Room	1	It must be provided with a countertop with a sink and a dump sink, with flush valve activation and 75 mm piping
3.3.18	Social Worker Room	1	Can be shared for other specialties
3.3.19	Psychologists Room	1	Can be shared for other specialties
3.3.20	Plaster room and fracture reduction	1	Can be shared for other specialties
3.3.21	Equipment storage room	1	They can be shared for other specialties. Shelves with shelves and electrical outlets for infusion pump, space for portable equipment.
3.3.22	Linen	1	Consider the existence of locked cabinets
<b>3.4</b>	<b>OBSTETRICS, MATERNITY AND WOMEN'S HEALTH</b>		
3.4.1	External Area for Ambulance Disembarkation	1	Covered (single entry)

Item	Environment	Quantity	Description
3.4.2	Area for Stretcher and Wheelchair Storage	1 *	<p>Have a strategic location, with accessibility and that has an average of dimensions for at least 01 stretcher and 02 adult wheelchairs and 01 wheelchair for obese.</p> <p>Wide doors and spacious corridors to allow easy entry and exit of stretchers and wheelchairs</p>
3.4.3	Patient Reception/Waiting Room - Obstetrics & Gynecology	1	<p>Follow flow signs for the specialty so that patients are segregated according to the specialty they will be attended.</p> <p>02 Counters for patient admission and waiting room for 20 seats, based on patient care flows/day and seasonality.</p> <p>It must have lockers for the companions' belongings.</p>
3.4.4	Reception room for the parturient and her companion	1	<p>Minimum area of 8 m<sup>2</sup>, with space for a gynecological table, bench with sink and cabinets, table and chairs</p> <p>This room must be prepared to carry out integrative and complementary practices for patients in the latent phase and/or who are awaiting evaluation (humanization of care) with a massage chair, adjustable lighting, possibility of sound.</p>
3.4.5	Emergency Room (red room) - Shock Room	1	<p>Minimum footage of 14 m<sup>2</sup> / emergency bed.</p> <p>Single room for all specialties with 04 service boxes, each equipped with a gas strip, easy-access cabinets for emergency kits, stretcher, mechanical ventilator, multi-parameter monitor support, emergency car, auxiliary tables and IV stands. Countertop with sink and hanging cabinets.</p> <p>Considering the equipment necessary for the care of newborns, less than 28 days of life, it is necessary that at least one of these boxes contains, in addition to the equipment mentioned above: radiant heat cradle, neonatal resuscitator in T with blender, neonatal resuscitation material, neonatal multiparameter monitor with 3-way ECG, scale, gas strip.</p> <p>Room with negative pressure.</p>
3.4.6	Undifferentiated offices for triage	1	<p>Minimum footage of 10 m<sup>2</sup>.</p> <p>Space for a table, chairs and stretcher for examination.</p>
3.4.7	Obstetrics, Gynecology and Women's Violence offices for consultation with attached bathroom	3	<p>It must be provided with a countertop with a sink. Bathroom doors should open out of the room.</p>

Item	Environment	Quantity	Description
			1 office for Women's Violence in a segregated environment, with restricted, exclusive and controlled access to the chain of custody with refrigerator/cold room to store traces collected in the consultations, locker with key to store the envelopes.
3.4.8	Prepartum box	8	Bed and chair for companion
3.4.9	Room equipped for deliveries (surgical and normal)	1	Minimum area of 20 m <sup>2</sup> .  Rooms with isolation structures with ante camera and exclusive bathroom are in the hospitalization and obstetric center areas.  Space for gynecological table, gas network for parturient and newborn, anesthesia car, surgical focus, heated crib with baby puff, multiparameter monitor, scale, stadiometer.
3.4.10	Recovery Box	2	Up to 06 beds each room
3.4.11	<b>Inpatient Admission Room (pre-admission)</b>	1	<b>Room intended for the pre-hospitalization of elective patients (scheduled surgical and clinical). Room with space for 03 armchairs and chairs for companions, separated by partitions and front visor. Next to the nursing station.</b>
3.4.12	Medication/inhalation/exam collection room with toilet	1	Room with 6-8 armchairs distributed allowing a view of an internal nursing station
3.4.13	Individual box for medication/inhalation/collection of exams with toilet	1	With space for armchair and chair for companion. Front glass display.
3.4.14	Nursing station and services	1	Station with 03 positions and centralized (01 for every 12 seats/beds).  Consider space for cabinets for supplies and documents (bins).
3.4.15	<b>Medical prescription room</b>	1	<b>Consider 04 positions and close to the nursing stations</b>
3.4.16	Patient toilet	2 *	Next to the observation beds.
3.4.17	Small Procedures Room	1	With space for a procedure stretcher, emergency car, bench with sink and cabinets, focus. Consider gas network.
3.4.18	Utility Room	1	It must be provided with a countertop with a sink and a dump sink, with flush valve activation and 75 mm piping
3.4.19	Social Worker Room	1	Can be shared for other specialties
3.4.20	Psychologists Room	1	They can be shared for other specialties.  Shelves with shelves and electrical outlets for infusion pump, space for portable equipment.

Item	Environment	Quantity	Description
3.4.21	Plaster room and fracture reduction	1	Can be shared for other specialties
3.4.22	Equipment storage room	1	They can be shared for other specialties. Shelves with shelves and electrical outlets for infusion pump, space for portable equipment.
3.4.23	Linen	1	Consider the existence of locked cabinets
<b>3.5</b>	<b>Support areas for the Clinical Decision Unit</b>		
3.5.1	Administrative Room - Coordination	1	Consider 1 job.
3.5.2	Public toilets (male and female)	4 *	Adequate measures for accessibility. Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter. It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.
3.5.3	Accessible toilet	2 *	Free diameter of 1.50 m for wheelchair maneuver 360. Washbasins must ensure a maximum of 0.80 m on the upper surface, so that it is possible to fit the wheelchair. Consider having grates and drains positioned outside the maneuvering and transfer areas
3.5.4	Comfort for employees	1 *	Space with comfortable armchairs
3.5.5	Cup for collaborators	2 *	Consider in the space a sink, infrastructure for installing a water filter, appropriate countertop or table, cabinets for storing utensils.
3.5.6	Cleaning Material Deposit - DML	2 *	DML for this area, we recommend that it have dimensions above the RDC50 recommendation (1mx2m) because it must accommodate, in addition to the tank, the hygiene cart with dimensions of 119 x 058 x 110, a cabinet for storing consumer products. You should also consider the existence of a drain to remove water from buckets used in the hygiene of the environments.
3.5.7	Weekly warehouse	1 *	With cabinets or electronic dispensary and restricted access in a strategic location so that it can serve all UDCs

Item	Environment	Quantity	Description
3.5.8	Toilets for employees (male and female)	4 *	Adequate measures for accessibility.  Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.  It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.
3.5.9	Meeting and Training Room	1	Equipped with multimedia, with two working positions, chairs and table for meetings
3.5.10	Training booth	1	Booth with two computer stations for training
<b>3.6</b>	<b>Satellite Pharmacy</b>		
	General requirements for Satellite Pharmacy		To meet the areas of Clinical Decision.  Strategic location considering the distances from the care areas.  Access control area
3.6.1	Room for satellite pharmacy	2	Minimum area of 20 m <sup>2</sup>
3.6.2	Medicine and supplies storage area		Consider shelves and cabinets for medicines and medical supplies
3.6.3	Refrigerator and freezer area		Consider that the sockets in this environment should be connected to the generator
3.6.4	Kit dispensing area		Dutch window or door for dispensing with access control
<b>3.7</b>	<b>Transfusion Center</b>		
	<b>General requirement</b>		The entire area must be air-conditioned.  It must be close to the UDCs and the Clinical and Surgical Day Hospital.
3.7.1	Administrative Room – Transfusion Agency	1	Consider 4 jobs.
3.7.2	Area for receiving blood components	1	Bench for equipment and bag conference
3.7.3	Compatibility test room	1	Conference bench and equipment (centrifuges, sealers, agitators and other devices)
3.7.4	Blood component storage room	1	Consider space for refrigerators and freezers connected to the generator
3.7.5	Area for distribution of blood components	1	Computer bench and conference support. Consider Dutch window or door for delivery of blood components, with access control.

Item	Environment	Quantity	Description
<b>4</b>	<b>SURGICAL BLOCK – Surgical Center – Surgical Day Hospital – Obstetric Center</b>		
<b>4.1</b>	<b>SURGICAL DAY HOSPITAL</b>		<b>Opening Hours Monday to Friday 07–19h.</b>
	General requirements for single rooms and insulation		Consider the nurse call system for rooms, isolation and toilets.
<b>4.1.1</b>	<b>Endoscopy</b>		
4.1.1.1	Patient Locker Room (Male/Female)	2 *	Locker room with lockers for patients' belongings, segregated between male and female.
4.1.1.2	Linen (smart closet)	1	Clean laundry area with access control
4.1.1.3	Internal Waiting Room	1	Space for 04 seats.  This is an internal area (it is designed for all exams that may have some prior preparation of the patient, such as changing clothes). The patient is already waiting in a common reception and is called to this internal space to advance these preparations, while another patient is already performing the exam. This speeds up service, avoids delays and equipment downtime.
4.1.1.4	Exam room	3	1 room for Endoscopy equipment, 1 room for colonoscopy equipment and 1 room with Hybrid Rack equipment/specific tips (can be used in the operating room as well). <b>Consider a room with structure, equipment and furniture for the care of obese patients.</b>
4.1.1.5	Admission and anesthetic recovery room with toilet	1	With 09 stretchers with dividers and front curtain, with gas strip
4.1.1.6	Individual Respiratory Isolation Box for Anesthetic Recovery	3	Closed room with space for stretcher and front visor, with gas strip. <b>Consider a box with structure, equipment and furniture for the care of obese patients.</b>
4.1.1.7	Nursing station and services	1	Station with 02 positions and centralized.  Consider space for cabinets for supplies and documents (bins).
4.1.1.8	Local stock	1	Room with cabinets and shelves or space for electronic dispensaries
4.1.1.9	Cleanroom (dirty area)	1	With benches and sink with deep bowl for cleaning endoscopes and tests. With air exhaust, negative pressure and potable water. Passthrough between the cleaning room and the disinfection room.
4.1.1.10	Automated disinfection (clean) and drying room	1	Consider space for 02 disinfection machines. With air exhaust, negative pressure and potable water. Compressed air gun systems (endoscope drying)
4.1.1.11	Endoscope Guard Room	1	Consider 02 cabinets for storing endoscopes
<b>4.1.2</b>	<b>Minor surgeries</b>		

Item	Environment	Quantity	Description
4.1.2.1	Reception/Waiting Room for Patients - Surgical Day Hospital	1	Area with self-service totem to register arrival and password. Number of seats: 20 seats.
4.1.2.2	Undifferentiated office	1	Minimum area of 7.5 m <sup>2</sup> with space for desk, chairs
4.1.2.3	Nursing station and services	1	Station with 03 positions and centralized (01 for every 12 beds) Consider space for cabinets for inputs and documents (bins).
4.1.2.4	<b>Observation beds</b>	22	For patients who need prolonged stay, an average of 06 hours, not exceeding 12 hours. There are 07 beds for pediatrics (otorhinolaryngology) and 15 beds for adult patients of all specialties (endoscopy and small surgeries)
4.1.2.5	Patient changing room	1*	Space for exchanging and storing belongings
4.1.2.6	Anesthetic preparation and recovery area with bathroom	1	Consider circulation space for wheelchair users, with 12 stretchers with partitions and front curtain, with gas strip
4.1.2.7	Patient clipboard	1	Location of passage of the stretcher/wheelchair to the Operating Room for safety checks (patient data and medical documentation)
4.1.2.8	Brushing area	6	02 taps for each operating room
4.1.2.9	<b>Small operating room</b>	<b>3</b>	3 rooms with 30 m <sup>2</sup> . 1 room equipped for obese patients. All rooms with stands, two gas strips, air exhaust system.
4.1.2.10	Linen (smart closet)	1	Consider electronic garment dispenser
4.1.2.11	Equipment storage room	1	Minimum area of 08 m <sup>2</sup> . Consider an adequate area to keep portable equipment.
<b>4.2</b>	<b>SURGICAL CENTER</b>		
	External environment to operating rooms		Aerial panel for monitoring surgeries in the room, requiring 1 network point per panel and 2 electrical points;
4.2.1	Waiting Room for Companions	1	Room with space for 10 seats, based on patient flow and surgical times.
4.2.2	Patient clipboard	1	Location of passage of the stretcher/wheelchair to the Operating Room for safety checks (patient data and medical documentation)
4.2.3	Surgical Center Locker Room	1*	In the corridors that give access to the locker room, space must be provided for smart electronic lockers, private laundry dispenser for all units with 225height, 185width, 85depth with electrical outlet point (height from 1.8 to 2.2 m) and compressed air (up to 8 Bar) and network connection. Consider inside the locker room, a clothes collection closet equipped with an RFID system in the dimensions 180(width) x 80(depth) x 225(h) cm Drop Box energized 230 VAC,50hz

Item	Environment	Quantity	Description
4.2.4	<b>Mid-sized operating room</b>	<b>5</b>	5 rooms with 36 m <sup>2</sup> . 1 room equipped for obese patients.  All rooms with stands, two gas strips, air exhaust system.
4.2.5	<b>Large operating room</b>	<b>5</b>	3 rooms with 36 m <sup>2</sup> . 1 room equipped for obese patients.  2 rooms of 45m <sup>2</sup> with the possibility of future adaptation to hybrid rooms or robotic surgeries.  All rooms with stands, two gas strips, air exhaust system.
4.2.6	Brushing area	10	02 taps for each operating room
4.2.7	Equipment storage area	1	Consider an adequate area to keep equipment for intermittent use (confirm medical technologies project) such as: Surgical Arch, Ultrasound, endoscopes, laser, operating table accessories, orthopedic traction table, video surgery system/rack, scalpel etc. Consider a shelf with outlets for storing an infusion pump and equipment that needs to be kept with charged batteries.
4.2.8	Area for cars (supplies and surgical instruments)	1	Minimum area of 15 m <sup>2</sup> near the exit of the satellite pharmacy of the Surgical Center and the CSSD
4.2.9	Living room for the multi-professional team	1	Approximately 30 m <sup>2</sup> . Consider 02 workstations for computers, table and chairs for quick meals and sofa. Counter with sink. Located near or adjacent to the barrier locker room
<b>4.2.1</b>	<b>Anesthetic recovery</b>		<b>Consider 10% of beds equipped for the care of obese patients</b>
4.2.1.1	Nursing station and services	2	Station with 03 positions and centralized (01 for every 10 beds) Consider space for cabinets for inputs and documents (bins). Space for emergency car (01 for every 10 beds)
4.2.1.2	Area for medical prescription	2	It can be next to the nursing station. Consider 02 positions.
4.2.1.3	Anesthetic recovery box	11	Number of rooms + 1. With curtains and bed space, multi-parameter monitor stand, gas strip
4.2.1.4	Linen (smart closet)	1	Consider a clothes dispenser cabinet equipped with an RFID system in the dimensions 180 (width) x 80 (depth) x 225 (h) cm with a capacity of up to 600 items
4.2.1.5	Equipment storage room	1	Area for storing serum supports, hyperthermia system, transfer board, etc. Consider a shelf with outlets for storing an infusion pump and equipment that needs to be kept with charged batteries.
<b>4.2.2</b>	<b>Operating Room Satellite Pharmacy</b>	<b>1</b>	<b>Approximately 50 m<sup>2</sup></b>
4.2.2.1	Medicine and supplies storage area	1	Consider shelves and cabinets for medicines and medical supplies

Item	Environment	Quantity	Description
4.2.2.2	Refrigerator and freezer area	1	Consider that the sockets in this environment should be connected to the generator
4.2.2.3	Kit and Cart Dispensing Area	1	Dutch window or door for dispensing with access control
<b>4.2.3</b>	<b>Blood components room</b>		<b>Approximately 14 m<sup>2</sup></b>
4.2.3.1	Blood component dispensing area	1	Dutch window or door with access control. Work desk and computer
4.2.3.2	Refrigerator and freezer area	1	Consider that the sockets in this environment should be connected to the generator
<b>4.2.4</b>	<b>Pathological Anatomy Room</b>		<b>Approximately 09 m<sup>2</sup></b>
4.2.4.1	Frozen biopsy room	1	Equipment bench (microscope, cryostat and microtome)
<b>4.3</b>	<b>OBSTETRIC CENTER</b>		
	General requirements for the Obstetric Center		Easy access to the maternity and neonatology, with EXCLUSIVE road.
4.3.1	Reception for the obstetric center	1	Exclusive entrance to the obstetric center, with space for 10 people
4.3.2	Reception room for parturient and companion	1	Reception area with stretcher space and reception desk, chairs for companions
4.3.3	Examination room and admission of parturients to the obstetric centre with toilet	2	Space for examination table, USG machine
4.3.4	PPP rooms with bathrooms without tubs	3	Minimum area of 14.50 m <sup>2</sup> , 4 m <sup>2</sup> for the care of the NB, with an armchair for the companion.  Countertop and sink, with hot and cold water. Gas network for parturient and newborn.
4.3.5	Area for walking the parturient and her companion	1	Minimum area of 30 m <sup>2</sup> , with bars, areas for installation of ladder
4.3.6	Nurses' station and PPP/prescription room services	1	Station with 03 positions and centralized (01 for every 04 PPP).  Consider space for cabinets for supplies and documents (bins).
4.3.7	Anesthetic induction room with toilet	1	Room for analgesia of patients in labor, with no impact on prolonged use of the operating room.  Space for 02 boxes with bed (dividers and curtain in the front) and 01 box with armchair for venipuncture and medication administration.  Consider gas netting for boxes with bed.

Item	Environment	Quantity	Description
4.3.8	Obstetrics operating room	3	<b>Room with 50 m<sup>2</sup> with stands, two gas strips, air exhaust system. 1 room equipped for obese patients.</b>  It must have a structure to care for multiple pregnancies (twin, triplet, etc.), with space for a multiparameter monitor, radiant heat cradle, manual T-respirator with blender in all rooms.
4.3.9	Anesthetic and postpartum recovery	4	Number of rooms + 1. Consider space for a neonatal crib and stretcher, for each box, with curtain dividers, gas network, support for multi-parameter monitor. <b>Consider 01 bed equipped for the care of obese patients.</b>
4.3.10	Nurses' station and services for anesthetic recovery	1	Station with 03 positions and centralized (01 for every 10 beds) Consider space for cabinets for inputs and documents (bins). Space for emergency car (01 for every 10 beds)
4.3.11	Utility Room	1	It must be provided with a countertop with a sink and a dump sink, with flush valve activation and 75 mm piping
4.3.12	Equipment storage room	1	Consider an adequate area to maintain equipment for intermittent use (confirm medical technologies project) such as: Ultrasound, operating table accessories, scalpel, etc. Consider a shelf with outlets for storing the infusion pump and equipment that needs to be kept with charged batteries."
<b>4.4</b>	<b>Surgical Block Support Areas</b>		<b>Consider these areas for both blocks (maternal-infant and oncology/infectiology)</b>
4.4.1	Administrative Room – Coordination	1	Consider 3 jobs for coordinators + 1 job for Administrative Support.
4.4.2	Meeting/Reception Room for Families	2	One located in the Surgical Center and the other in the Obstetric Center, near the entrance or reception. Space for sofa or armchairs.
4.4.3	Public Toilets (male and female)	2 *	Adequate measures for accessibility.  Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.  It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.
4.4.4	Accessible Toilet	2 *	Free diameter of 1.50 m for wheelchair maneuver 360. Washbasins must ensure a maximum of 0.80 m on the upper surface, so that it is possible to fit the wheelchair. Consider having grates and drains positioned outside the maneuvering and transfer areas
4.4.5	Barrier Locker Room for Patients (male and female, for gowns)	2 *	The changing room for patients and companions must be in the obstetric center. Have a room for clothing, ventilated, preferably with two environments (dirty/clean

Item	Environment	Quantity	Description
			barrier) and serving as access to the processing areas. In the dressing room or next to it, there must be a washbasin with liquid soap and antiseptic, as well as a resource for hand drying. This washbasin must be for exclusive use for the dressing process.
4.4.6	Barrier Locker Room for the Surgical Center and Surgical Day Hospital (male and female)	2 *	
4.4.7	Wheelchair and Stretcher Storage Area	3 *	Have a strategic location, with accessibility and that has an average of dimensions for at least 01 stretcher and 02 adult wheelchairs and 01 wheelchair for obese. Wide doors and spacious corridors to allow easy entry and exit of stretchers and wheelchairs
4.4.8	Utility Room	1 *	It must be provided with a countertop with a sink and a dump sink, with flush valve activation and 75 mm piping
4.4.9	Cleaning Material Deposit - DML	1 *	DML for this area, we recommend that it have dimensions above the RDC50 recommendation (1mx2m) because it must accommodate, in addition to the tank, the hygiene cart with dimensions of 119 x 058 x 110, a cabinet for storing consumer products.  You should also consider the existence of a drain to remove water from buckets used in the hygiene of the environments.
4.4.10	Temporary Shelter for Dirty Clothes	2 *	Temporary shelters must provide for the storage of 500L containers (1415mm x 810mm)
4.4.11	Temporary Waste Shelter	1 *	Temporary shelters must provide for the storage of 500L containers (1415mm x 810mm)
4.4.12	Temporary Infectious Waste Shelter	1 *	Temporary shelters must provide for the storage of 500L containers (1415mm x 810mm)
4.4.13	Restroom for Employees (male and female)	2 *	Adequate measures for accessibility.  Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.  It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.
4.4.14	Living Room or Multidisciplinary Pantry	1 *	Consider in the space a sink, infrastructure for installing a water filter, appropriate countertop or table, cabinets for storing utensils.
4.4.15	Comfort for Employees	1 *	With recliners

Item	Environment	Quantity	Description
4.4.16	Medical Comfort with Bathroom	1 *	Space for bed and closet. It can be shared with adjacent areas, for example obstetric center and operating room.
4.4.17	Meeting Room	1	Equipped with multimedia, with two working positions, chairs and table for meetings
4.4.18	Training Booth	1	Booth with two computer stations for training
<b>5</b>	<b>BLOCK OF CLINICAL AND SURGICAL HOSPITALIZATION BEDS</b>		
	General requirements for all beds		<p>Each bed must have 1 network point next to the patient TV installation.</p> <p>General requirements for single rooms and insulation.</p> <p>Consider a nurse call system for rooms, isolation and in all toilets. Plan the hospitalization units by specialties.</p> <p>The support areas may be shared according to the location and synergy of the services.</p>
	Nurses' station		Consider a place for mobile equipment per nursing station (e.g., capillary glucose), recommended to be in a room with access control and CCTV camera
<b>5.1</b>	<b>CLINICAL AND SURGICAL INPATIENT BEDS</b>		<b>10% of adult beds should be equipped for the care of the Obese.</b>
<b>5.1.1</b>	<b>Hospitalization of adult patients' Infectious diseases (General Practice and Sanitary Dermatology)</b>		<b>There are 85 beds/64 Infectious Diseases rooms, with 82 clinical and surgical beds in 61 rooms + 3 Ebola beds</b> *50% isolation beds
	Gerai Requirements		<p>The wards of 02 beds must have 03 gas strips, in case of contingencies, extra beds can be opened</p> <p>Consider nursing call in all rooms and toilets.</p> <p>If possible, 20 beds should be close to the ICU so that they can serve as reversible beds in cases of calamities</p> <p>It is recommended that isolation rooms have infrastructure (space and gas network) to care for up to two patients in cases of contingency for outbreak or pandemic situations.</p>
5.1.1.1	Waiting Room	1	Space for chairs or stringers for 20 people, for moments of transition in visiting hours and to accommodate companions in situations that need to leave the room for short times.
5.1.1.2	<b>Rooms with 02 beds with bathroom</b>	<b>21</b>	<p>Consider part of the unit for clinical patients and part for surgical patients.</p> <p>Consider space for armchairs in the rooms in cases of companions.</p>

Item	Environment	Quantity	Description
			Space for bed, closet or bedside table for storing patient belongings, dining table.
5.1.1.3	<b>Single rooms for isolation with antechamber and bathroom (negative pressure and HEPA filter)</b>	<b>40</b>	Consider space for armchairs in the rooms in cases of companions for the elderly.  Space for bed, closet or bedside table for storing patient belongings, dining table.  <b>Consider 10% of these beds with structure, equipment and furniture for the care of obese patients.</b>
5.1.1.4	Nurses' station with service room	2	Station with 03 positions and centralized (01 every 20 to 30 beds) Consider space for lockers for supplies and documents (bins) and place for emergency car. Consider space for smart cabinets or cabinets to accommodate medicines and medical supplies, support bench, refrigerator (minimum 8.0 m <sup>2</sup> ). Restricted access.
5.1.1.5	Medical prescription room	2	Area can be contiguous to the nursing station with 03 workstations
5.1.1.6	Small procedures and emergencies room	2	With space for a procedure stretcher, emergency car, bench with sink and cabinets, focus. Consider gas network.
5.1.1.7	Strategic room, per wing for use as a nursing station in emergency situations	2	Have strategic and modular areas for outbreak events and emergency situations of contagious diseases
5.1.1.8	Family reception room	1	Room with table and chairs near the waiting room, with a cozy atmosphere.
5.1.1.9	Area for Stretcher and Wheelchair Storage	1 *	Have a strategic location, with accessibility and that has an average of dimensions for <u>at least</u> 01 stretcher and 02 adult wheelchairs and 01 wheelchair for obese. Wide doors and spacious corridors to allow easy entry and exit of stretchers and wheelchairs. Several spaces like this will be considered on the same floor, depending on the number of nursing stations, so that they are in strategic positions. This action will also increase the number of spaces for chairs and stretchers.
5.1.1.10	Utility Room	1	It must be provided with a countertop with a sink and a dump sink, with flush valve activation and 75 mm piping
5.1.1.11	Linen	1	Consider the existence of locked lockers or smart lockers
5.1.1.12	Equipment storage room	1	With shelves and electrical outlets for infusion pumps and for mobile equipment.
5.1.1.13	Administrative Room	1	Coordination room with 02 work positions (Assistant Head)
<b>5.1.2</b>	<b>Unit for the care of highly polluting diseases (EBOLA)</b>		<b>Exclusive and isolated area with access control. Exclusive entry and exit for suspected or confirmed patients. Preferably contiguous to the Infectious Diseases Inpatient Unit. The entire sewage network in this area must be treated before final contempt. Sealed floors and walls for easy cleaning. Doors and sinks</b>

Item	Environment	Quantity	Description
			<b>with automatic drives, if possible. Consider hot (highly contaminated) and cold areas (least contaminated) for flow within this unit.</b>
5.1.2.1	Barrier Locker Room with Toilets - Vestments	1	Area with dispensary of supplies and PPE, benches for support, sink for hand washing, cabinets for storing belongings
5.1.2.2	<b>Individual isolation rooms with antechamber and bathroom</b>	<b>3</b>	Antechamber for disposable PPE clothing with space for medication carts and hampers for disregard of PPE. The rooms have negative pressure, with HEPA air filtration and glass visor. ICU room structure: water point for hemodialysis, space for stands for multi-parameter monitor and supports for infusion pumps, space for mechanical ventilation, gas strip and circulation space. The care provided to the patient in this area is progressive until his discharge.  <b>Consider 01 bed with structure, equipment and furniture for the care of obese patients.</b>
5.1.2.3	Nursing Station and Medical Prescription	1	Workstation with 04 positions, computer bench and cabinets
5.1.2.4	Area for barrier autoclaves	1	Two autoclaves. Area adjacent to the rooms for the exit of reusable materials and waste to the area outside this unit
5.1.2.5	Temporary Waste Shelter	1	Near the autoclaves
5.1.2.6	Undressing and Decontamination Bath Area	1	Area with shower for decontamination. Consider flow for PPE removed and sent to autoclaves
<b>5.1.3</b>	<b>Hospitalization of adult patients Oncology and Oncohematology</b>		<b>There are 102 beds with 61 rooms (Oncology, Oncohematology and Hematology), we consider 20% isolation beds;</b>  It is recommended that isolation rooms have infrastructure (space and gas network) to care for up to two patients in cases of contingency for outbreak or pandemic situations.
5.1.3.1	Waiting Room	1	Space for chairs or stringers for 10 people
5.1.3.2	<b>Rooms with 02 beds with bathroom (clinical and surgical) - Adult</b>	<b>40</b>	Consider part of the unit's rooms for clinical patients and part for surgical patients.  Consider space for armchairs in the rooms in cases of companions for the elderly or for the patient
5.1.3.3	<b>Single rooms for isolation with antechamber and bathroom (negative pressure and HEPA filter - Adult</b>	<b>20</b>	Consider space for armchairs in the rooms in cases of companions for the elderly.  Space for bed, closet or bedside table for storing patient belongings, dining table. <b>Consider 10% of these beds with structure, equipment and furniture for the care of obese patients.</b>
5.1.3.4	<b>Therapeutic room for iodine therapy with 02 beds with bathroom</b>	<b>1</b>	Bedroom with anteroom and armored walls. Space for two beds, bedside table, armchair for the patient. Nurse call system and front display, if possible or CCTV

Item	Environment	Quantity	Description
			system.  The unit must be considered contiguous, a place for the storage of waste in a lead container intended for the temporary storage of tailings to wait for the decay in a safe way.
5.1.3.5	Nurses' station with service room	4	One of the posts should be exclusive to the BMT. Station with 03 positions and centralized (01 for every 20 to 30 beds). Consider space for cabinets for supplies and documents (bins). Consider space for smart cabinets or cabinets to accommodate medicines and medical supplies, support bench, refrigerator (minimum 8.0 m <sup>2</sup> ). Restricted access.
5.1.3.6	Medical prescription room	1	Area can be contiguous to the nursing station with 03 workstations
5.1.3.7	Small procedures and emergencies room	1	With space for a procedure stretcher, emergency car, bench with sink and cabinets, focus. Consider gas network.
5.1.3.8	Family reception room	1	
<b>5.1.4</b>	<b>Bone Marrow Transplant (BMT) Care Unit</b>		<b>Exclusive and isolated area for the care of patients undergoing bone marrow transplantation (autologous and allogeneic). Consider the area for progressive care, with air treatment, negative and positive pressures in the different environments of the unit according to Ordinance 931/2006</b>
5.1.4.1	Air Filter Bone Marrow Transplant (BMT) Rooms with Bathroom - Adult	4	Intended for patients of allogeneic transplants (marrow from a donor). Space for bed, armchair, bedside table and for meals and continuous monitoring (intensive care)
5.1.4.2	Air Filter Bone Marrow Transplant (BMT) Rooms with Bathroom - Adult	5	Intended for autologous transplant patients (the patient's own cells). Space for bed, armchair, bedside table and dining table, continuous monitoring (intermediate care)
5.1.4.3	Air Filter Bone Marrow Transplant (BMT) Rooms with Bathroom - Pediatric	1	Intended for pediatric patients (patient's own cells). Space for bed, armchair, bedside table and dining table, continuous monitoring (intermediate care)
5.1.4.4	Nurses' station with service room	1	Station with 03 positions and centralized Consider space for cabinets for inputs and documents (bins) and place for emergency car. Consider space for smart cabinets or cabinets to accommodate medicines and medical supplies, support bench, refrigerator (minimum 8.0 m <sup>2</sup> ). Restricted access.
5.1.4.5	Medical prescription room	1	Area can be contiguous to the nursing station with 03 workstations
<b>5.1.5</b>	<b>Support Area for Oncological Hospitalization and Oncohematology (Adult and Child)</b>		<b>Consider increasing environments according to location and distances between units</b>
5.1.5.1	Area for Stretcher and Wheelchair Storage	4 *	Have a strategic location, with accessibility and that has an average of dimensions for at least 01 stretcher and 02 adult wheelchairs and 01 wheelchair for obese. Wide

Item	Environment	Quantity	Description
			doors and spacious corridors to allow easy entry and exit of stretchers and wheelchairs
5.1.5.2	Utility Room	4 *	It must be provided with a countertop with a sink and a dump sink, with flush valve activation and 75 mm piping
5.1.5.3	Linen	4 *	Consider the existence of locked lockers or smart lockers
5.1.5.4	Equipment storage room	4 *	With shelves and electrical outlets for infusion pumps and for mobile equipment.
<b>5.1.6</b>	<b>Inpatient Pediatric Patients (Infants, Children, and Adolescents)</b>		<b>122 paediatric beds</b> - Average patient profile (historical base 2018-2023) 0-4 years 67%, 5-9 years 16% and 10-18 years 17%; isolation 30%.  <b>Reduced to 107 beds, as 15 will be allocated to Intermediate Care.</b>
			It is recommended that isolation rooms have infrastructure (space and gas network) to care for up to two patients in cases of contingency for outbreak or pandemic situations.
5.1.6.1	Waiting Room	1	Space for chairs or stringers for 20 people, for moments of transition in visiting hours and to accommodate companions in situations that need to leave the room for short times.
5.1.6.2	Family reception room	1	Room with table and chairs near the waiting room, with a cozy atmosphere.
5.1.6.3	<b>Rooms with 02 beds (30 days to 04 years)</b>	<b>26</b>	Consider rooms for surgical and clinical. Consider spaces for companion seats. Space for bed or crib, armchair for companion, gas strip, bedside table, dining table.
5.1.6.4	<b>Rooms with 02 beds (05 years to 09 years) with bathroom</b>	<b>6</b>	
5.1.6.5	<b>Rooms 02 beds (10 years to 19 years) with bathroom</b>	<b>6</b>	
5.1.6.6	<b>Single rooms for isolation with antechamber and bathroom (negative pressure and HEPA filter - 20 rooms from 0-4 years, 5 rooms from 5-9 years and 6 rooms from 10-18 years)</b>	<b>31</b>	Calculation for 4.3 insulation and rounded to 5. Space for bed or crib, armchair for companion, gas strip, bedside table, dining table.
5.1.6.7	Nurses' station with service room	6	Station with 03 positions and centralized (01 for every 20 to 30 beds) Consider space for lockers for supplies and documents (bins) and car for emergency. Consider space for smart cabinets or cabinets to accommodate medicines and medical supplies, support bench, refrigerator (minimum 8.0 m <sup>2</sup> ). Restricted access.
5.1.6.8	Medical prescription room	2	Area can be contiguous to the nursing station with 03 workstations
5.1.6.9	Small procedures and emergencies room	2	With space for a procedure stretcher, emergency car, bench with sink and cabinets, focus. Consider gas network.
5.1.6.10	Area for hospital classes	1	Room for the development of pedagogical activities with adequate furniture and a bench with sink

Item	Environment	Quantity	Description
5.1.6.11	Playroom	1	Playful space, with shelves and space for tables and chairs. Consider an area adjacent to the utility room with a window (half door) for separating toys for hygiene.
5.1.6.12	Area for Stretcher and Wheelchair Storage	1 *	Have a strategic location, with accessibility and that has an average size for at least 01 stretcher and 02 wheelchairs for children and 01 wheelchair for obese. Wide doors and spacious corridors to allow easy entry and exit of stretchers and wheelchairs
5.1.6.13	Utility Room	1 *	It must be provided with a countertop with a sink and a dump sink, with flush valve activation and 75 mm piping
5.1.6.14	Linen	1 *	Consider the existence of locked lockers or smart lockers
5.1.6.15	Equipment storage room	1 *	With shelves and electrical outlets for infusion pumps and for mobile equipment.
<b>5.1.7</b>	<b>Pediatric Oncology Unit</b>		<b>Exclusive and isolated area for the care of pediatric patients in the specialty of oncology, with a specific setting and structure. Total of 15 beds/10 pediatric oncology rooms. Exclusive wing in the Pediatric Block, except for bed (1) in the Pediatric Oncology ICU</b>
5.1.7.1	<b>Rooms with 02 beds with bathroom – Pediatric Oncology</b>	<b>5</b>	Consider part of the unit's rooms for clinical patients and part for surgical patients. Consider space for armchairs in the rooms in cases of companions for the elderly or for the patient (being 6 beds/3 rooms from 30 days to 4 years; 2 beds/1 room from 5-9 years; 2 beds/1 room from 10-18 years)
5.1.7.2	<b>Single rooms for isolation with antechamber and bathroom (negative pressure and HEPA filter – Pediatric Oncology)</b>	<b>5</b>	Consider space for armchairs in the rooms in cases of companions for the elderly. Space for bed, closet or bedside table for storing patient belongings, dining table. (3 beds/3 rooms from 30 days to 4 years; 1 bed/1 room from 5-9 years; 1 bed/1 room from 10-18 years)
5.1.7.3	Nurses' station with service room	1	One of the posts should be exclusive to the BMT. Station with 03 positions and centralized (01 for every 20 to 30 beds) Consider space for cabinets for inputs and documents (bins). Consider space for smart cabinets or cabinets to accommodate medicines and medical supplies, support bench, refrigerator (minimum 8.0 m <sup>2</sup> ). Restricted access.
5.1.7.4	Medical prescription room	1	Area can be contiguous to the nursing station with 03 workstations
5.1.7.5	Small procedures and emergencies room	1	With space for a procedure stretcher, emergency car, bench with sink and cabinets, focus. Consider gas network.
5.1.7.6	Family reception room	1	Living room with a table and chairs
<b>5.1.8</b>	<b>Inpatient Maternity, Obstetrics and Gynecology</b>		<b>Total 34 beds, 6 of which are Gynecology beds and 28 Obstetrics beds *10% isolation</b>

Item	Environment	Quantity	Description
General requirements for Maternity and Gynecology			Easy access to the obstetric and neonatology center It is recommended that isolation rooms have infrastructure (space and gas network) to care for up to two patients in cases of contingency for outbreak or pandemic situations.
5.1.8.1	Waiting Room	1	Space for 10 seats
5.1.8.2	Family reception room	1	Room with table and chairs near the waiting room, with a cozy atmosphere.
5.1.8.3	Rooms with 02 maternity beds with bathroom	12	Minimum area of 14 m <sup>2</sup> .  Consider beds with space for rooming-in and armchair for companions, with countertop and sink with hot and cold water.  It must also have adequate space for a common crib or incubator/radiant heat crib for newborns in phototherapy, twin care, sufficient outlets for equipment and for patient use. NB scale and fixed stadiometer on the scale for each room.  28 obstetric beds are estimated.
5.1.8.4	<b>Rooms 02 beds (Gynecology) with bathroom</b>	3	Consider rooms for surgical and clinical.  Space for bed, bedside table, dining table, chair for companion and gas strip.  6 gynecological beds are estimated.
5.1.8.5	<b>Single rooms for isolation with antechamber and bathroom (negative pressure and HEPA filter)</b>	4	Space for bed and rooming-in, bedside table, dining table, chair for companion and gas strip.  <b>Considered a parameter of 10% of beds for isolation.</b>
5.1.8.6	Nurses' station with service room	1	Station with 03 positions and centralized (01 for every 20 to 30 beds).  Consider space for cabinets for supplies and documents (bins).  Consider space for smart cabinets or cabinets to accommodate medicines and medical supplies, support bench, refrigerator (minimum 8.0 m <sup>2</sup> ).  Restricted access.
5.1.8.7	Medical prescription room	1	Area can be contiguous to the nursing station with 03 workstations

Item	Environment	Quantity	Description
5.1.8.8	Small procedures and emergencies room	1	With space for a procedure stretcher, emergency car, bench with sink and cabinets, focus. Consider gas network.
5.1.8.9	Area for Stretcher and Wheelchair Storage	1 *	Have a strategic location, with accessibility and that has an average of dimensions for <u>at least</u> 01 stretcher and 02 adult wheelchairs and 01 wheelchair for obese. Wide doors and spacious corridors to allow easy entry and exit of stretchers and wheelchairs. Several spaces like this will be considered on the same floor, depending on the number of nursing stations, so that they are in strategic positions. This action will also increase the number of spaces for chairs and stretchers.
5.1.8.10	Utility Room	1 *	It must be provided with a countertop with a sink and a dump sink, with flush valve activation and 75 mm piping
5.1.8.11	Linen	1 *	Consider the existence of locked lockers or smart lockers
5.1.8.12	Equipment storage room	1 *	With shelves and electrical outlets for infusion pumps and for mobile equipment.
<b>5.1.9</b>	<b>Neonatology Hospitalization</b>		<b>There are an estimated 39 clinical neonatal beds. *30% insulation</b>
			It is recommended that isolation rooms have infrastructure (space and gas network) to care for up to two patients in cases of contingency for outbreak or pandemic situations.
5.1.9.1	Waiting Room	1	Space for chairs or stringers 10 seats
5.1.9.2	Infirmary with 02 beds for newborns (healthy and special care)	<b>14</b>	Space for incubators and armchairs for companions, gas net and auxiliary table
5.1.9.3	<b>Single rooms for isolation with antechamber and bathroom (negative pressure and HEPA filter)</b>	<b>11</b>	Space for incubator, chair for companion and gas ruler, serum support, auxiliary table. We consider 30% isolation.
5.1.9.4	Nurses' station with service room	1	Station with 03 positions and centralized (01 for every 20 to 30 beds) Consider space for cabinets for inputs and documents (bins). Consider space for smart cabinets or cabinets to accommodate medicines and medical supplies, support bench, refrigerator (minimum 8.0 m <sup>2</sup> ). Restricted access.
5.1.9.5	Medical prescription room	1	Area can be contiguous to the nursing station with 03 workstations
5.1.9.6	Small procedures and emergencies room	1	With space for a procedure stretcher, emergency car, bench with sink and cabinets, focus. Consider gas network.
5.1.9.7	Utility Room	1 *	It must be provided with a countertop with a sink and a dump sink, with flush valve activation and 75 mm piping
5.1.9.8	Linen	1 *	Consider the existence of locked lockers or smart lockers
5.1.9.9	Equipment storage room	1 *	With shelves and electrical outlets for infusion pumps and for mobile equipment.

Item	Environment	Quantity	Description
<b>5.1.10</b>	<b>Satellite Pharmacy for inpatient beds</b>		<b>Numbers of rooms depending on the distribution and location of the inpatient beds of the different specialties, ideally close to the care areas and on the same floor.</b>
5.1.10.1	Medicine and supplies storage area	1	Consider shelves and cabinets for medicines and medical supplies
5.1.10.2	Refrigerator and freezer area	1	consider that the sockets in this environment should be connected to the generator
5.1.10.3	Kit and Cart Dispensing Area	1	Dutch window or door for dispensing with access control
<b>5.1.11</b>	<b>Support areas for inpatient beds (adults/pediatric/neonatal)</b>		<b>Consider increasing environments according to location and distances between units</b>
5.1.11.1	Administrative Room - Coordination	1	Consider 5 jobs for coordinators + 1 job for Administrative Support.
5.1.11.2	Comfort Multidisciplinary Team Inpatient	2 *	With comfortable armchairs. Depending on the distance, it can be considered a unique comfort in a central area.
5.1.11.3	Comfort Medical Team hospitalization	2 *	With bed and closet, it can be shared with adjacent services that are on the same floor and close to the care areas
5.1.11.4	Multidisciplinary Meeting and Training Room	2	Equipped with multimedia, with two working positions, chairs and table for meetings
5.1.11.5	Training Booth	2	With two computer stations for training
5.1.11.6	Seating/Team Cup by Inpatient Floor	2 *	Consider in the space a sink, infrastructure for installing a water filter, appropriate countertop or table, cabinets for storing utensils.
5.1.11.7	Public Toilet for Patients and Companions (male and female)	2 *	Adequate measures for accessibility.  Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.  It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.
5.1.11.8	Restroom for Employees (male and female)	2 *	Adequate measures for accessibility.  Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.  It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.
5.1.11.9	Patient Distribution Cup	2 *	01 for every 30 beds. Pantry with countertop, cabinets and space for microwave oven

Item	Environment	Quantity	Description
5.1.11.10	Cleaning Material Deposit - DML	2 *	DML for this area, we recommend that it have dimensions above the RDC50 recommendation (1mx2m) because it must accommodate, in addition to the tank, the hygiene cart with dimensions of 119 x 058 x 110, a cabinet for storing consumer products.  You should also consider the existence of a drain to remove water from buckets used in the hygiene of the environments.
5.1.11.11	Temporary Shelter for Common Waste	1 *	Temporary shelters must provide for the storage of 500L containers (1415mm x 810mm)
5.1.11.12	Temporary Infectious Waste Shelter	1 *	Temporary shelters must provide for the storage of 500L containers (1415mm x 810mm)
5.1.11.13	Temporary Shelter for Hazardous Chemical Waste	2 *	Temporary shelters must provide for the storage of 500L containers (1415mm x 810mm)
5.1.11.14	Temporary Shelter for Dirty Clothes	2 *	Temporary shelters must provide for the storage of 500L containers (1415mm x 810mm)
<b>5.2</b>	<b>CLINICAL AND SURGICAL INTERMEDIATE CARE INPATIENT BEDS</b>		
	General requirements for single rooms and insulation		Consider the nurse call system for rooms, isolation and toilets. The structure must be contiguous to the adult ICU.
<b>5.2.1</b>	<b>Intermediate Care Unit - Adult</b>		<b>There will be 15 total beds, 5 of which are isolation. *30% isolation beds.</b>
			It is recommended that isolation rooms have infrastructure (space and gas network) to care for up to two patients in cases of contingency for outbreak or pandemic situations.
5.2.1.1	Reception and Waiting Area	1	Location for access control and waiting with chairs or stringer, for 20 seats.
5.2.1.2	Area for Stretcher and Wheelchair Storage	1 *	Have a strategic location, with accessibility and that has an average of dimensions for at least 01 stretcher and 02 adult wheelchairs and 01 wheelchair for obese. Wide doors and spacious corridors to allow easy entry and exit of stretchers and wheelchairs
5.2.1.3	Rooms for 02 beds with basic monitoring with bathroom	5	Minimum area of 9 m <sup>2</sup> Space to accommodate bed, portable equipment, support for multiparameter monitors and mechanical ventilator. Armchair for companion. With infrastructure for hemodialysis (water and sewage points)
5.2.1.4	Isolation Room with antechamber and negative pressure	5	3 out of every 10 beds at least.  Minimum area of 9 m <sup>2</sup> Space to accommodate bed, portable equipment, support for multiparameter monitors and mechanical ventilator. Armchair for companion.

Item	Environment	Quantity	Description
			With infrastructure for hemodialysis (water and sewage points). Consider 03 beds with structure, equipment and furniture for the care of obese patients.
5.2.1.5	Nursing Station with monitoring center and service room	1	Station with 03 positions and centralized (01 for every 12 beds).  Consider space for cabinets for supplies and documents (bins).  Consider space for smart cabinets or cabinets to accommodate medicines and medical supplies, support bench, refrigerator (minimum 8.0 m <sup>2</sup> ). Restricted access.
5.2.1.6	Medical prescription room	1	Area can be contiguous to the nursing station with 03 workstations
<b>5.2.2</b>	<b>Intermediate Care Unit - Paediatrics</b>		<b>It was defined that 15 of the estimated beds for pediatrics would be allocated to Intermediate Care. *30% insulation. The Area must be contiguous to the pediatric ICU.</b>
			It is recommended that isolation rooms have infrastructure (space and gas network) to care for up to two patients in cases of contingency for outbreak or pandemic situations.
5.2.2.1	Reception and Waiting Area	1	Location for access control and waiting with chairs or stringer, for 20 seats.
5.2.2.2	Area for Stretcher and Wheelchair Storage	1 *	Have a strategic location, with accessibility and that has an average of dimensions for at least 01 stretcher and 02 adult wheelchairs and 01 wheelchair for obese.  Wide doors and spacious corridors to allow easy entry and exit of stretchers and wheelchairs
5.2.2.3	<b>Rooms for 02 beds with basic monitoring with bathroom</b>	<b>5</b>	<b>Total of 8 beds in Paediatric Intermediate Care</b> - equivalent to 4 double rooms.  Minimum area of 9 m <sup>2</sup> Space to accommodate bed or crib, portable equipment, support for multiparameter monitors and mechanical ventilator. Armchair for companion. With infrastructure for hemodialysis (water and sewage points). 3 rooms/6 beds from 30 days to 4 years; 1 room/2 beds from 5-9 years old; 1 room/2 beds from 10-18 years old;
5.2.2.4	<b>Isolation Room with antechamber and negative pressure</b>	<b>5</b>	<b>4 isolation beds</b> , making an average of 3 out of 10 (30%).  Minimum area of 9 m <sup>2</sup> Space to accommodate bed, portable equipment, support for multiparameter monitors and mechanical ventilator. Armchair for companion. 3 beds/rooms from 30 days to 4 years; 1 bedroom/1 bed for 5-9 years; 1 room/1 beds from 10-18 years;  With infrastructure for hemodialysis (water and sewage points).

Item	Environment	Quantity	Description
5.2.2.5	Nursing Station with monitoring center and service room	1	Station with 03 positions and centralized (01 for every 12 beds).  Consider space for cabinets for supplies and documents (bins), emergency car.  Consider space for smart cabinets or cabinets to accommodate medicines and medical supplies, support bench, refrigerator (minimum 8.0 m <sup>2</sup> ). Restricted access.
5.2.2.6	Medical prescription room	1	Area can be contiguous to the nursing station with 03 workstations
5.2.2.7	Utility Room	1*	It must be provided with a countertop with a sink and a dump sink, with flush valve activation and 75 mm piping
5.2.2.8	Equipment Depot	1*	Area for storing portable equipment, consider shelves with electrical outlets
<b>5.2.3</b>	<b>Conventional Neonatal Intermediate Care Unit (UCINCo)</b>		<b>20 UCINCo beds are estimated. 1 in 3 (~30%) will be isolation.</b>
5.2.3.1	Reception and Waiting Area	1	Location for access control and waiting with chairs or stringer
5.2.3.2	Collective treatment area	2	To care for newborns considered to be at medium risk and who require continuous care, but of less complexity than in the NICU.  7 incubators in each collective treatment area, with a gas strip, accommodation for a companion and an area for circulation and other necessary equipment.  It must have breastfeeding armchairs and articulated wall support for multiparameter monitor. Benches in all beds.
5.2.3.3	Isolation Room with antechamber and negative pressure	6	Space for incubator, companion, gas strip and space for other equipment when necessary
5.2.3.4	Nursing Station with monitoring center and service room	1	Located in each collective area. Station with 02 positions and centralized.  Consider space for cabinets for supplies and documents (bins).  Consider space for smart cabinets or cabinets to accommodate medicines and medical supplies, support bench, refrigerator (minimum 8.0 m <sup>2</sup> ). Restricted access.
5.2.3.5	Medical prescription room	1	Area can be contiguous to the nursing station with 02 workstations
5.2.3.6	Activity room	1	Support environment for multiple activities of the neonatal unit, meetings with parents, with the team, operative groups.
5.2.3.7	Room for on-call staff with attached bathroom	1	It can be shared with the NICU and NICU).
5.2.3.8	Milk extraction room	4	Comfortable armchairs with dividers. Can be shared with NICU and NICU)

Item	Environment	Quantity	Description
5.2.3.9	Utility Room	1 *	It must be provided with a countertop with a sink and a sink
5.2.3.10	Equipment Depot	1 *	Area for storing portable equipment, consider shelves with electrical outlets.
<b>5.2.4</b>	<b>Kangaroo Neonatal Intermediate Care Unit (UCINCa)</b>		<b>There are an estimated 10 UCINCa beds.</b>
5.2.4.1	Reception and Waiting Area	1	Location for access control and waiting with chairs or stringer
5.2.4.2	Collective treatment area	1	Infrastructure that allows mother and child to practice the kangaroo method, to rest and stay in the same environment 24 hours a day, until hospital discharge.  It must have breastfeeding armchairs and articulated wall support for multiparameter monitor. Benches in all beds.
5.2.4.3	Nursing Station with monitoring center and service room	1	Station with 03 positions and centralized (01 for every 12 beds).  Consider space for cabinets for supplies and documents (bins).  Consider space for smart cabinets or cabinets to accommodate medicines and medical supplies, support bench, refrigerator (minimum 8.0 m <sup>2</sup> ). Restricted access.
5.2.4.4	Medical prescription room	1	Area can be contiguous to the nursing station with 03 workstations
5.2.4.5	Activity room	1	Support environment for multiple activities of the neonatal unit, meetings with parents, with the team, operative groups.
5.2.4.6	Room for on-call staff with attached bathroom	1	Shared with the NICU.
5.2.4.7	Living room and pantry for mothers	1 *	Provide an environment that allows the mother or companion to receive visitors, rest outside the bed and have their meals outside the premises of the collective treatment area.
5.2.4.8	Toilets for mothers	2	Adequate measures for accessibility.  Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.  It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.
5.2.4.9	Utility Room	1 *	It must be provided with a countertop with a sink and a sink
5.2.4.10	Equipment Depot	1 *	Area for storing portable equipment, consider shelves with electrical outlets.
<b>5.2.5</b>	<b>Satellite pharmacy for intermediate care beds</b>		<b>Numbers of rooms depending on the distribution and location of the beds of the different specialties, ideally close to the care areas and on the same floor.</b>

Item	Environment	Quantity	Description
5.2.5.1	Medicine and supplies storage area	1 *	Consider shelves and cabinets for medicines and medical supplies.
5.2.5.2	Refrigerator and freezer area	1 *	consider that the sockets in this environment should be connected to the generator.
5.2.5.3	Kit and Cart Dispensing Area	1 *	Dutch window or door for dispensing with access control.
<b>5.2.6</b>	<b>Support areas for intermediate care beds</b>		
5.2.6.1	Administrative Room - Coordination	2	Coordination room 03 positions
5.2.6.2	Comfort multidisciplinary team	2 *	With comfortable armchairs. Depending on the distance, it can be considered a unique comfort in a central area.
5.2.6.3	Medical comfort hospitalization	2 *	With a bed and closet, it can be shared with adjacent services that are on the same floor and close to the care areas.
5.2.6.4	Multidisciplinary Meeting and Training Room	2	Equipped with multimedia, with two working positions, chairs and table for meetings.
5.2.6.5	Training booth	2	With two computer stations for training
5.2.6.6	Seating/Team Cup by Inpatient Floor	2 *	Consider in the space a sink, infrastructure for installing a water filter, appropriate countertop or table, cabinets for storing utensils.
5.2.6.7	Family reception room	1	Room with table and chairs near the waiting room, with a cozy atmosphere.
5.2.6.8	Bathroom/cloakroom for Companions (male and female)	4 *	
5.2.6.9	Restroom for Employees (male and female)	4 *	Adequate measures for accessibility.  Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.  It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.
5.2.6.10	Linen	2 *	Consider the existence of locked cabinets.
5.2.6.11	Patient distribution cup	2 *	Pantry with countertop, cabinets and space for microwave oven.
5.2.6.12	Cleaning Material Deposit - DML	2 *	DML for this area, we recommend that it have dimensions above the RDC50 recommendation (1mx2m) because it must accommodate, in addition to the tank, the hygiene cart with dimensions of 119 x 058 x 110, a cabinet for storing consumer products.  You should also consider the existence of a drain to remove water from buckets used in the hygiene of the environments.

Item	Environment	Quantity	Description
5.2.6.13	Temporary Shelter for Common Waste	1 *	Temporary shelters must provide for the storage of 500L containers (1415mm x 810mm)
5.2.6.14	Temporary Infectious Waste Shelter	1 *	Temporary shelters must provide for the storage of 500L containers (1415mm x 810mm)
5.2.6.15	Temporary Shelter for Hazardous Chemical Waste	2 *	Temporary shelters must provide for the storage of 500L containers (1415mm x 810mm)
<b>5.3</b>	<b>CLINICAL AND SURGICAL INTENSIVE CARE (ICU) BEDS</b>		
	General requirements for ICU		Consider the nurse call system for rooms, isolation and toilets.  Consider locating handwashing sinks in strategic locations for bed access.
<b>5.3.1</b>	<b>Adult ICU</b>		<b>30 Adult ICU beds are estimated.</b> 1 in 3 (~30%) will be isolation.
			It is recommended that isolation rooms have infrastructure (space and gas network) to care for up to two patients in cases of contingency for outbreak or pandemic situations.
5.3.1.1	Reception and Waiting Area	1	Place for access control and waiting with chairs or stringer.  It must have lockers for the companions' belongings.
5.3.1.2	Area for Stretcher and Wheelchair Storage	1 *	Have a strategic location, with accessibility and that has an average of dimensions for at least 01 stretcher and 02 adult wheelchairs and 01 wheelchair for obese. Wide doors and spacious corridors to allow easy entry and exit of stretchers and wheelchairs
5.3.1.3	Utility Room	1	It must be provided with a countertop with a sink and a sink
5.3.1.4	Equipment Depot	1	Area for storing portable equipment, consider shelves with electrical outlets.
5.3.1.5	<b>Bed box with advanced monitoring</b>	<b>18</b>	Minimum area of 9 m <sup>2</sup> .  Space to accommodate bed, portable equipment, support or stand for multiparameter monitors and mechanical ventilator. Armchair for companion.  With infrastructure for hemodialysis (water and sewage points). <b>Consider 03 beds with structure, equipment and furniture for the care of obese patients.</b>
5.3.1.6	<b>Isolation room with antechamber, HEPA filter, negative and positive pressure and bathroom</b>	<b>12</b>	Consider space in the antechamber with negative pressure for access to the room, with space for storing PPE, support for vestments and hamper, with sink.  Room with space to accommodate bed, portable equipment, support or stand for multi-parameter monitors and mechanical ventilator. Armchair for companion.

Item	Environment	Quantity	Description
			With infrastructure for hemodialysis (water and sewage points) <b>Consider 03 beds with structure, equipment and furniture for the care of obese patients.</b>
5.3.1.7	Nursing Station with monitoring center and service room	3	Station with 03 positions and centralized (01 for every 10 beds).  Consider space for cabinets for supplies and documents (bins).  Consider space for smart cabinets or cabinets to accommodate medicines and medical supplies, support bench, refrigerator (minimum 8.0 m <sup>2</sup> ). Restricted access.
5.3.1.8	Medical prescription room	3	Area can be contiguous to the nursing station with 03 workstations.
5.3.1.9	Linen	1 *	Consider the existence of locked cabinets.
<b>5.3.2</b>	<b>Pediatric ICU</b>		<b>30 beds are estimated</b> 1 in 3 (~30%) will be isolation.
			It is recommended that isolation rooms have infrastructure (space and gas network) to care for up to two patients in cases of contingency for outbreak or pandemic situations.
5.3.2.1	Reception and Waiting Area	1	Place for access control and waiting with chairs or stringer.  It must have lockers for the companions' belongings.
5.3.2.2	Area for Stretcher and Wheelchair Storage	1 *	Have a strategic location, with accessibility and that has an average of dimensions for at least 01 stretcher and 02 adult wheelchairs and 01 wheelchair for obese.  Wide doors and spacious corridors to allow easy entry and exit of stretchers and wheelchairs.
5.3.2.3	Utility Room	1	It must be provided with a countertop with a sink and a sink
5.3.2.4	Equipment Depot	1	Area for storing portable equipment, consider shelves with electrical outlets.
5.3.2.5	<b>Bed box with advanced monitoring</b>	<b>20</b>	Minimum area of 9 m <sup>2</sup> .  Space to accommodate bed, portable equipment, support or stand for multiparameter monitors and mechanical ventilator. Armchair for companion.  With infrastructure for hemodialysis (water and sewage points).  Being 14 beds, 30 days to 4 years; 3 beds for 5-9 years and 3 beds for 10-18 years
5.3.2.6	<b>Isolation Room with antechamber and negative pressure</b>	<b>10</b>	Consider space in the antechamber with negative pressure for access to the room, with space for storing PPE, support for vestments and hamper, with sink.

Item	Environment	Quantity	Description
			Room with space to accommodate bed, portable equipment, support or stand for multi-parameter monitors and mechanical ventilator. Armchair for companion.  With infrastructure for hemodialysis (water and sewage points) being 6 beds, 30 days to 4 years; 2 beds for 5-9 years and 2 beds for 10-18 years
5.3.2.7	Nursing Station with monitoring center and service room	3	Station with 03 positions and centralized (01 for every 10 beds).  Consider space for cabinets for supplies and documents (bins).  Consider space for smart cabinets or cabinets to accommodate medicines and medical supplies, support bench, refrigerator (minimum 8.0 m <sup>2</sup> ). Restricted access.
5.3.2.8	Medical prescription room	3	Area can be contiguous to the nursing station with 03 workstations.
5.3.2.9	Linen	1 *	Consider the existence of locked cabinets.
<b>5.3.3</b>	<b>UTI Neonatal</b>		<b>20 NICU beds are estimated (to be located near the UCINCa) *30% of isolation beds</b>  It is recommended that isolation rooms have infrastructure (space and gas network) to care for up to two patients in cases of contingency for outbreak or pandemic situations.
5.3.3.1	Reception and Waiting Area	1	Place for access control and waiting with chairs or stringer.  It must have lockers for the companions' belongings.
5.3.3.2	Utility Room	1	It must be provided with a countertop with a sink and a dump sink, with flush valve activation and 75 mm piping
5.3.3.3	Equipment Depot	1	Area for storing portable equipment, consider shelves with electrical outlets
5.3.3.4	<b>Collective treatment area</b>	2	To assist newborns considered to be at high risk and who require continuous assistance. 14 total incubators (7 incubators each), divided for each collective treatment area, with gas strip, accommodation for companions and area for circulation and other necessary equipment  It must have breastfeeding armchairs and articulated wall support for multi-parameter monitor. Benches in all beds.
5.3.3.5	<b>Isolation Room with antechamber and negative pressure</b>	<b>6</b>	Space for incubator, companion, gas strip and space for other equipment when necessary
5.3.3.6	Nursing Station with monitoring center and service room	2	Station with 03 positions and centralized (01 out of every 10 beds) Consider space for lockers for inputs and documents (bins). Consider space for smart cabinets or

Item	Environment	Quantity	Description
			cabinets to accommodate medicines and medical supplies, support bench, refrigerator (minimum 8.0 m <sup>2</sup> ). Restricted access.
5.3.3.7	Area for medical prescription	2	Area can be contiguous to the nursing station with 03 workstations
5.3.3.8	Room for on-call staff with attached bathroom	1	Can be shared with NICU and NICU)
5.3.3.9	Milk extraction room	1	Can be shared with NICU and NICU)
5.3.3.10	Linen	1 *	consider the existence of locked cabinets
<b>5.3.4</b>	<b>Satellite pharmacy for ICUs</b>		<b>Numbers of rooms depending on the distribution and location of the beds of the different specialties, ideally close to the care areas and on the same floor.</b>
5.3.4.1	Medicine and supplies storage area	1 *	Consider shelves and cabinets for medicines and medical supplies
5.3.4.2	Refrigerator and freezer area	1 *	consider that the sockets in this environment should be connected to the generator
5.3.4.3	Kit and Cart Dispensing Area	1 *	Dutch window or door for dispensing with access control
<b>5.3.5</b>	<b>Support areas for ICUs</b>		<b>Strategically located to serve critical and semi-critical units</b>
5.3.5.1	Administrative Room - Coordination	3	Consider 6 jobs for coordinators + 1 job for Administrative Support.
5.3.5.2	Family reception room	1	Room with table and chairs near the waiting room, with a cozy atmosphere.
5.3.5.3	Comfort Multidisciplinary Team Inpatient	3 *	With comfortable armchairs. Depending on the distance, it can be considered a unique comfort in a central area.
5.3.5.4	Comfort Medical Team Inpatient	3 *	With a bed and closet, it can be shared with adjacent services that are on the same floor and close to the care areas.
5.3.5.5	Multidisciplinary Meeting and Training Room	3	Equipped with multimedia, with two working positions, chairs and table for meetings
5.3.5.6	Training Booth	3	With two computer stations for training
5.3.5.7	Seating/Team Cup by Inpatient Floor	3 *	Consider in the space a sink, infrastructure for installing a water filter, appropriate countertop or table, cabinets for storing utensils.
5.3.5.8	Patient Distribution Cup	3 *	Pantry with countertop, cabinets and space for microwave oven
5.3.5.9	Restroom/Changing Room for Patients and Companions (male and female)	6 *	Adequate measures for accessibility.  Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.  It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.

Item	Environment	Quantity	Description
5.3.5.10	Restroom for Employees (male and female)	6 *	<p>Adequate measures for accessibility.</p> <p>Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.</p> <p>It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.</p>
5.3.5.11	Cleaning Material Deposit - DML	3 *	<p>DML for this area, we recommend that it have dimensions above the RDC50 recommendation (1mx2m) because it must accommodate, in addition to the tank, the hygiene cart with dimensions of 119 x 058 x 110, a cabinet for storing consumer products.</p> <p>You should also consider the existence of a drain to remove water from buckets used in the hygiene of the environments.</p>
5.3.5.12	Temporary Shelter for Common Waste	1 *	Temporary shelters must provide for the storage of 500L containers (1415mm x 810mm)
5.3.5.13	Temporary Infectious Waste Shelter	1 *	Temporary shelters must provide for the storage of 500L containers (1415mm x 810mm)
5.3.5.14	Temporary Shelter for Hazardous Chemical Waste	3 *	Temporary shelters must provide for the storage of 500L containers (1415mm x 810mm)
<b>6</b>	<b>TECHNICAL SUPPORT</b>		
<b>6.1</b>	<b>Nutrition and Dietetics (500 m<sup>2</sup>)</b>		
6.1.1	Area for Reception and Inspection of Food and Utensils	1	Consider sink with two bowls and platform scale.
6.1.2	Room Temperature Food Pantry	1	You should consider the installation of an air curtain in the access, which should be installed at a height of 1.5m to 3m high from the floor and should not be less than 55 cm from the ceiling and should be connected to electricity.
6.1.3	Utensils storage area	1	
6.1.4	Beverage preparation area	1	Consider purchasing a large-sized industrial coffee maker
6.1.5	Chilled Food Chamber (one for cook chill and one for regular foodstuffs)	1	Consider that the 2 chambers should be connected to the generator.
6.1.6	Chamber for Frozen Food (one for cook chill and one for regular foodstuffs)	1	Consider that the 2 chambers should be connected to the generator.
6.1.7	Defrost Chamber	1	Consider that the camera should be connected to the generator.
6.1.8	Fruit and vegetable chamber	1	Consider that the camera should be connected to the generator.

Item	Environment	Quantity	Description
6.1.9	Meat pre-preparation area	1	<p>You should consider specific countertops and utensils to avoid cross-contamination.</p> <p>The environment must be air-conditioned keeping the temperature between 16° and 20°C.</p> <p>The materials should be smooth and waterproof.</p>
6.1.10	Area for the preparation of vegetables, legumes and cereals	1	<p>External windows (not connected to the preparation area) equipped with removable millimeter screens for cleaning.</p>
6.1.11	Meat preparation area	1	<p>You should consider specific countertops and utensils to avoid cross-contamination.</p> <p>The environment must be air-conditioned keeping the temperature between 16° and 20°C.</p> <p>The materials should be smooth and waterproof.</p>
6.1.12	Area for preparing pasta and desserts	1	<p>External windows (not connected to the preparation area) equipped with removable millimeter screens for cleaning.</p>
6.1.13	Cooking area for normal diets	1	<p>Consider space for a combined oven (dimensions - WxDxH: 850 mm x 842 mm x 1014 mm), as well as a conventional central stove with access to all sides.</p> <p>Consider installing stainless steel hoods, welded and polished and that have drains for fat drainage at a compatible height for the kitchen team to act without risks (evaluate the kitchen's ceiling height in the project).</p>
6.1.14	Breakfast and snack cooking area	1	<p>External windows (not connected to the preparation area) equipped with removable millimeter screens for cleaning.</p>
6.1.15	Special cooking area	1	<p>Consider exclusive central stove for Diet Therapy separate from the central stove.</p>
6.1.16	Area for portioning normal diets	1	<p>Consider stainless steel countertops.</p> <p>Dimensions of the thermal carts are on average length 1.15 x width of 0.65.</p> <p>Consider assembly line with tracks.</p>
6.1.17	Area for portioning special diets	1	<p>Consider stainless steel countertops.</p> <p>Dimensions of the thermal carts are on average length 1.15 x width of 0.65.</p> <p>Consider assembly line with tracks.</p>

Item	Environment	Quantity	Description
6.1.18	Normal and special diet distribution counter	1	Consider socket for gender measurement scale.
6.1.19	Area for Reception, Washing and Storage of Crockery and Cutlery	1	Consider water point for central dilution of chemicals and dishwasher dryers.  Consider a hood because the water washing process reaches a temperature between 60°C to 65°C.  When performing the final rinse with water, the temperature varies between 80°C to 85°C.
6.1.20	Area for Washing and Storing Pots	1	Consider two large sinks in the washing sink with a depth of 20 cm and a grate on the floor.
6.1.21	Area for Reception, Washing and Storage of Trolleys	1	Consider water point to connect high pressure hose. You should also consider the existence of a grate on the floor for drainage drain and water disposal used for cart hygiene.
6.1.22	Administrative Room	1	Consider network point access.
6.1.23	Nutritionist Room	1	It should be a room with glass walls with observation of the production of the kitchen with access to the network.
6.1.24	Night Comfort	1	
6.1.25	Restroom for Employees (male and female)	2 *	Adequate measures for accessibility.  Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.  It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.
6.1.26	Temporary Solid Waste Shelter	1 *	The environment must be air-conditioned due to the storage of organic waste and be close to the external access door so as not to cross the cooking area.
6.1.27	Deposit of disposable materials	1	
6.1.28	Deposit for PPE	1	
6.1.29	Cleaning Material Deposit	1 *	It should be near the external access and not inside the production area. You should consider a dilution plant for the chemicals used in the kitchen
<b>6.2</b>	<b>Cafeteria</b>		
6.2.1	Cafeteria for employees of the Hospital Complex and LACEN	1	Consider a place to deliver trays with access to a washing pantry and dishwasher and hood.

Item	Environment	Quantity	Description
			<p>It should house 1/3 of the total capacity of the largest shift, approximately 800 seats.</p> <p>Consider a place for employees who may take meals from home, with means for preserving and heating meals and washing utensils used in the meal.</p>
6.2.2	Toilet (male and female)	2 *	<p>There should be no direct communication from the sanitary facilities to the kitchen work areas.</p> <p>The quantities depend on the architectural design.</p> <p>Adequate measures for accessibility. Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.</p> <p>It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.</p>
<b>6.3 Milk Station and Enteral Nutrition</b>			
6.3.1	Room for reception, washing bottles and utensils	1	Supplies stored away from the floor and walls (on pallets/shelves/shelves).
6.3.2	Room for preparation and packaging of dairy and non-dairy formulas and NE	1	Absence of drains on the floor of the NE handling room.
6.3.3	Area for storage and distribution of NE dairy and non-dairy formulas	1	<p>Availability of a sink for washing utensils (dirty area) positioned in an isolated environment from the handling area.</p> <p>It must have a laminar flow hood and a water bath.</p>
6.3.4	Cleaning Material Deposit	1 *	Isolated from the handling area.
6.3.5	Locker room (barrier to the room for preparation, packaging, storage and sanitization of inputs)	1	Sink for hand hygiene equipped with a faucet with automatic activation.
6.3.6	Prescription Receiving Room and NE Dispensing	1	Refrigerator used to store only N.E.
<b>6.4 Central Sterile Services Department (CSSD)</b>			
6.4.1	Reception and cleaning room (dirty area)	1	<p>Minimum area capable of allocating sinks with countertops, washing machine/disinfector/ultrasonic equipment, area for the circulation of materials and specific spaces for storing PPE and cleaning supplies.</p> <p>Area physically isolated from the others. Good lighting, durable and washable construction finish material. Deep sink(s) with countertops and taps with hot and cold water. Water/compressed air guns for cleaning. The environment is air-</p>

Item	Environment	Quantity	Description
			conditioned. Water treatment to remove microorganisms, heavy metals and chlorine.
6.4.2	Physicochemical disinfection area (thermo-disinfectors)	1	Barrier between the cleaning area and the preparation area of the materials.
6.4.3	Preparation and packaging area (clean area)	1	Area located between the purge area (dirty area) and sterilization, with dimensions to allocate specific tables for preparation and packaging of materials, sealers, cabinets for drying materials, carts and stainless-steel racks.  Well-lit area.  Consider an area for the delivery of clean clothes and supplies.
6.4.4	Steam sterilization room (clean sector)	1	Location between the preparation area and the storage and distribution area of materials.  Dimensions compatible with the number and size of sterilization equipment.  Water treatment system for steam autoclaves for the removal of heavy metals and chemical contaminants.  Restricted access.
6.4.5	Low-temperature sterilization area	1	
6.4.6	Storage and distribution room for sterile materials (clean sector)	1	Place free of water sources, open windows, exposed pipes and drains must be siphoned and concealed.  Area for shelves that must have a distance of at least 20cm from the floor, 5cm from the walls and 45cm from the ceiling.  They should be stainless steel, stainless steel wire baskets and hard plastic.  Restricted access.
6.4.7	Sterilization process monitoring area (clean sector)	1	Area with benches to support the incubators.
6.4.8	Warehouse for storage of materials/inputs/replacement material	1	Area with space for stainless steel shelves and restricted access.
6.4.9	Restroom with Locker Room for Employees - dirty area (male and female)	2 *	The area must have lockers for private rooms and for the storage of belongings.
6.4.10	Barrier toilet w/ Changing Room for Employees - clean area (male and female)	2 *	The area must have lockers for private rooms and for the storage of belongings.

Item	Environment	Quantity	Description
6.4.11	Crown	1 *	Consider in the space a sink, infrastructure for installing a water filter, appropriate countertop or table, cabinets for storing utensils.
6.4.12	Administrative Room	1	For a position
6.4.13	Cleaning Supplies Warehouse - DML	1 *	<p>We recommend that it has dimensions above the RDC50 recommendation (1mx2m).</p> <p>It must accommodate, in addition to the tank, a cabinet for storing consumer products and house the hygiene cart (which has on average considering dimensions of the intermediate model about 119 x 058 x 110 cm).</p> <p>You should also consider the existence of a drain to remove water from buckets used in the hygiene of the environments.</p> <p>It must provide for an exclusive hydraulic point for the dilution point of the chemicals.</p> <p>Consider positioning the DML in such a way that it has a window for ventilation and lighting in the area.</p>
6.4.14	Temporary Waste Shelter	1 *	<p>Ventilated place with water point, sealed windows or with protective screens with washable floors and walls and siphoned drain (with cover) with drainage to the sewer network.</p> <p>Space must consider container for each type of waste (group A, B and D).</p> <p>The door must be labeled "Waste Shelter." Presence-triggered lighting.</p>
<b>6.5</b>	<b>Central Linen</b>		
6.5.1	Room for receiving and weighing dirty linen	1	<p>Washable floors and walls and siphoned drain (with cover) with drainage to the sewer network.</p> <p>Space should consider 500L containers (1415mm x 810mm).</p> <p>Should consider installing RFID antenna for traceability.</p>
6.5.2	Clean linen receiving room	1	<p>Should consider table for RFID reader.</p> <p>You should consider the flow of cages where each one measures of 80 x 56 x 187 cm</p>

Item	Environment	Quantity	Description
6.5.3	Room for storage and distribution (clean area)	1	You should consider the flow of cages where each one measures of 80 x 56 x 187 cm
6.5.4	Staff Restroom Barrier ("dirty" area) (male and female)	1 *	
6.5.5	Restroom for Employees ("clean area") (male and female)	2 *	
6.5.6	Administrative Room	1	Consider 01 position
<b>6.6</b>	<b>Central Warehouse (Materials and Equipment)</b>		<b>Central Structure to serve all units with advanced support. 30-day stock</b>
6.6.1	Area for Receiving, Inspection and Registration	1	
6.6.2	Restroom for Employees	2 *	Adequate measures for accessibility.  Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.  It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary
6.6.3	Medical Warehouse (OPME)	1	
6.6.4	Warehouse equipment	1	
6.6.5	General Warehouse	1	RFID antenna frame for traceability
6.6.6	Health emergency warehouse - strategic location in the unit with twice the space	1	
6.6.7	Administrative room	1	04 positions
6.6.8	Cleaning Material Deposit	1 *	Environment with washable floors and walls
6.6.9	Distribution Area	1	
<b>6.7</b>	<b>Maintenance</b>		<b>Central Structure to serve all units with advanced support.</b>
6.7.1	Call Center Room - Maintenance, Clinical Engineering and Information Technology	1	Automatic Call Center.  3 jobs for PCM (Maintenance service planning) - seek proximity to the maintenance workshop.
<b>6.7.2</b>	<b>Building Maintenance</b>		<b>Area for reception and inspection of equipment, furniture and utensils.  Room of approximately 50m<sup>2</sup> with benches for receiving, electrical installation point and medical gases for prior tests. An area for work adm. 1 person</b>

Item	Environment	Quantity	Description
6.7.3.1	Maintenance Administrative Room (Operations Management, coordination, relationship center)	1	Consider 5 administrative tables for Building Engineering
6.7.3.2	Maintenance Workshop (painting)	1	Air compressors, spray guns, brushes, rollers, PPE, paints and solvents. Prox. (40 m2)
6.7.3.3	Maintenance Workshop (gas therapy)	1	Compressed Air, Nitrogen, CO2, Vacuum and Oxygen Point - area for storing gas therapy materials (next to 20 m2)
6.7.3.4	Maintenance Workshop (mechanics and air conditioning)	1	Specific tools for HVAC, pressure gauges, vacuum gauges, PPE, spare parts (compressors, filters, etc.).  Area for Maintenance and cleaning of air conditioning systems - 4 positions - Wet area: water, sewage, compressed air. (Near 40 m2).
6.7.3.5	Maintenance Workshop (firefighter hydraulics and systems)	1	Repairs and maintenance of plumbing, sewer, pump and water network systems. (near 30 m2)
6.7.3.6	Maintenance Workshop (electrical maintenance)	1	Area for Storing Power Tools, Multimeters, Test Generators, PPE, Cabinets for Storage of Electrical Components. (near 40 m2)  2 Benches for electrical repairs and tests.
6.7.3.7	General/Civil Workshop	1	General maintenance, including repairs to floors, roofs, doors, windows, and other building structures. next 50 m2
6.7.3.8	Spare parts storage area (warehouse and administrative purchasing room)	1	Shelves, shelves, and storage area for shed-type materials.  Construction tools, ladders, scaffolding, PPE, construction materials (cement, plaster etc.). 70m2
6.7.3.9	Storage Area. and Distribution of Equipment, Furniture and Utensils	1	40 m2.
<b>6.7.3</b>	<b>Clinical Engineering</b>		<b>Administrative Room of Clinical Engineering.</b>  <b>Consider 3 administrative tables for Clinical Engineering</b>
6.7.3.1	Receiving/Sanitizing Room Equipment	1	3 workstations (minimum 1.5m x 07m) with bench electrical points, medical gases.  Consider a bench in a "wet" area, water and sewage point for testing and maintenance of equipment they use (e.g., ultrasonic, hemodialysis, etc.).  For Calibration/ Prev and Mon. Electrical consider 4 workstations 2m x 70 points of electrical, medical gases - this room can be shared with the workshop, however better environment if there is acoustic insulation.

Item	Environment	Quantity	Description
6.7.3.2	Maintenance Workshop Clinical Engineering and Equipment Calibration Workshop Clinical Engineering	1	<p>3 workstations (minimum 1.5m x 07m) with bench electrical points, medical gases.</p> <p>Consider a bench in a "wet" area, water and sewage point for testing and maintenance of equipment they use (e.g., ultrasonic, hemodialysis, etc.).</p> <p>4 workstations 2m x 70 points of electrical, medical gases.</p>
6.7.3.3	Clinical Engineering Equipment Depot	1	<p>Equipment storage area awaiting maintenance parts or specialized services, backup equipment.</p> <p>Consider an area for storing tools and parts (warehouse) that can be shared with it.</p>
<b>6.7.4</b>	<b>ICT (Information and Communication Technology) Team</b>		<p><b>Room for network infrastructure team and servers - 6 positions.</b></p> <p><b>Room for internal service desk team (telephone service and remote support), room with acoustically isolated environment, tables with partitions to reduce noise propagation, wall that supports video wall with up to 4 panels for better call management. room must be close to the room of the service desk field room - 8 positions.</b></p>
6.7.4.1	Maintenance Room and IT Staff Warehouse	1	<p>Service desk team room field (building service) with maintenance benches with a minimum of 1.60m for each technician - 8 positions.</p> <p>New equipment storage room 40m2 with shelving shelves.</p>
6.7.4.2	Data Center	1	<p>Shared environment with Hospital Complex, Lacen and NEP, following ABNT NBR 16.665.</p> <p>Environment to house 36 42U racks, considering cold air aisles (front for air conditioning intake) and hot air aisles (rear for air exhaustion), aisles must be at least 1.20m wide, so that it allows entry and exit of equipment from the racks, as well as internal movement of racks.</p> <p>Size area for proper air conditioning for data center with redundancy, taking into account 24/7 operation and redundancy for the environment (environment must be close to the data center).</p> <p>Dimensioned electrical with individual circuit for each Rack and with redundancy (1st and 2nd emergency).</p>

Item	Environment	Quantity	Description
			<p>Redundant electrical panel, exclusive for the internal environment of the Data Center. (must be located in an anteroom with restricted access by biometrics and camera surveillance).</p> <p>Consider a room to house a power panel UPS, in order to ensure that oscillations in the power network or maneuvers do not directly affect the Data Center equipment.</p> <p>The environment will generate a lot of noise, it is not recommended to be close to administrative and assistance environments.</p> <p>Consider points for cameras connected to the CCTV system.</p>
<b>6.7.5</b>	<b>Land Processes</b>		<b>Building process room</b>
6.7.5.1	Fire Room	1	02 workstations with table and chairs.
6.7.5.2	Security team room	1	02 workstations with table and chairs.
6.7.5.3	Specialized Service in Safety Engineering and Occupational Medicine (SESMT)	1	<p>Consider 10 jobs.</p> <p>It must be an environment that enables the service to employees.</p>
6.7.5.4	Coordination Room Outsourced Teams	1	Service linked to the non-assistance team (Concessionaire).
6.7.5.5	Transport administration room	1	<p>02 workstations with table and chairs.</p> <p>Service linked to the non-assistance team (Concessionaire).</p>
6.7.5.6	Administration room Hospitality	1	Service linked to the non-assistance team (Concessionaire).
6.7.5.7	Area for Waste	1	
6.7.5.8	Gardening Deposit	1	
<b>6.8</b>	<b>Guardrails</b>		
6.8.1	Outdoor Area for Boarding a Hearse	1	Consider an environment with internal and external doors for the removal of the body by the funeral service.
6.8.2	Corpse Preparation and Guard Room	1	Consider space for 4 tables. Mortuary chamber in the drawer model, in stainless steel, with individual doors.
6.8.3	Family Living Room	1	It can be contiguous to the morgue.
6.8.4	Public Toilet (male and female)	1*	<p>Adequate measures for accessibility.</p> <p>Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm</p>

Item	Environment	Quantity	Description
			in diameter.  It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.
<b>6.9</b>	<b>Common Areas</b>		
6.9.1	Living Room for Employees	1 *	In the anteroom of the living room adjacent to the dressing room, space must be provided for smart electronic lockers, private clothes dispenser for all units with 225a, 185L, 85p with electrical outlet point (height from 1.8 to 2.2 m) and compressed air (up to 8 Bar) and network connection
6.9.2	Employee Comfort - Female	1 *	
6.9.3	Employee Comfort - Male	1 *	
6.9.4	Women's Locker Room/Toilet (for the Hospital Complex)	1 *	Approximately 400 users per shift. Consider that it serves all units.  Adequate measures for accessibility. Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.  It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.  Consider a clothes collector closet equipped with an RFID system in the dimensions 180 (width) x 80 (depth) x 225 (h) cm Drop Box energized 230 VAC, 50hz.
6.9.5	Men's Locker Room/Toilet (for the Hospital Complex)	1 *	Approximately 400 users per shift. Consider that it serves all units.  Adequate measures for accessibility. Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.  It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.  Consider a clothes collector closet equipped with an RFID system in the dimensions 180 (width) x 80 (depth) x 225 (h) cm Drop Box energized 230 VAC, 50hz.
6.9.6	Bins and Property Storage Area for Employees	1 *	Approximately 800 users per shift.  Consider the use of pocket system Consider point for camera connected to the CCTV system.

Item	Environment	Quantity	Description
<b>6.10 Cleaning and Janitorial</b>			
6.10.1	Waste Container Shelter (garbage) Groups: A and E (infectious and sharp), B (chemical), D (common non-recyclable) and recyclable	1	<p>Ventilated place with water point, sealed windows or with protective screens with washable floors and walls and siphoned drain (with cover) with drainage to the sewer network.</p> <p>Space must be individual and include a container for each type of waste (group A and e), B (liquid and solid) and D (common and recycled).</p> <p>The door must be labeled "Waste Shelter."</p> <p>Presence-activated lighting and platform-type scale.</p>
6.10.2	Area for Sanitizing Collection Containers	1	<p>The place can be external and open, but it must be covered with a siphoned drain (with a cover) with drainage to the sewer network.</p> <p>It must have a water point to connect high-pressure equipment.</p>
6.10.3	Cleaning Material Deposit - DML	1 *	<p>DML for this area, we recommend that it have dimensions above the RDC50 recommendation (1mx2m) because it must accommodate, in addition to the tank, the hygiene cart with dimensions of 119 x 058 x 110, a cabinet for storing consumer products.</p> <p>You should also consider the existence of a drain to remove water from buckets used in the hygiene of the environments.</p>
6.10.4	Administrative Room - Coordination, supervision and outsourced company	1	Consider electric time clock for the outsourced company's time clock
6.10.5	Germicide Dilution Room	1	Environment must have a water point to serve for the Dilution Center and a place to store chemical canisters
6.10.6	General Cleaning Material Deposit	1 *	Consider cabinets for storing equipment and a warehouse for hygiene products and utensils
6.10.7	Area for Waste Treatment Equipment	1	Environment must have an autoclave and space to receive Group A waste and
<b>6.11 Security and Surveillance</b>			
6.11.1	Area for Identification of People and Vehicles	1	Consider Point for CCTV
6.11.2	Staff access control area	1	Consider Rattles
<b>6.12 Building Infrastructure</b>			
6.12.1	Room for Equip. of Alternative Power Generation	1	Consider area according to the Complementary Electric Energy project.

Item	Environment	Quantity	Description
6.12.2	Electrical Substation Room	1	Attention to the electrical project regarding the need to maintain a redundant transformer.
6.12.3	Caldera Area	1	
6.12.4	Technical Floor (Elevator Engine Room, Air Conditioning, Solar Energy) depending on the architectural solution	1	
6.12.5	Pump House	1	
6.12.6	Area for Gas Plant - Oxygen - plant	1	Serve external supply with truck traffic. Dual, parallel and redundant system, 100% of the consumption in each system.
6.12.7	Vacuum Pump Area	1	Dual, parallel and redundant system, 100% of the consumption in each system. Depending on the project, sewage is necessary.
6.12.8	Compressed Air Pump Area	1	Dual, parallel and redundant system, 100% of the consumption in each system.
6.12.9	Area for Nitrous Oxide/CO2/Nitrogen	1	Supply in part of the complex (depending on the use) but Surgical Center greater need.
6.12.10	Area for LPG Gas Power Plant	1	
6.12.11	Parking lot	1	Minimum of 01 vacancy for every 04 beds and 1% of vacancies for the disabled (RDC 50). Being operated by third parties, it must require separate CCTV to control parked vehicles with turnstile and camera pointed at the driver's license plate and face, signage of the area on the floor and wall. Being self-management, you must consider these factors internally to establish the level of services of the unit.
6.12.12	Logistics and transport sector (Ambulances, samples, people, materials, etc.)	1	
6.12.13	Waste treatment	1 *	Environment with washable floors and walls
6.12.14	Shelters for final waste	1 *	Environment with washable floors and walls. Consider a floor platform type scale and socket for scale and printer.
6.12.15	Shelter for dirty clothes	1 *	The clothes collected from the entire complex and Lacen will be centralized in this location. The place must be washable, with an internal drain, platform-type scale and

Item	Environment	Quantity	Description
			provide a place for washing carts.  It must be accommodated near the solid waste area in a large truck stop place.
<b>6.13</b>	<b>Multiprofessional Coordination</b>		
6.13.1	Administrative Room - Multiprofessional Coordination	1	Consider 1 job.
6.13.2	Environment/Administrative Area	1	Consider 6 jobs.  It can be accommodated in a single environment next to the Multiprofessional Coordination Room (6.13.1).
<b>7</b>	<b>ADMINISTRATIVE SUPPORT</b>		
<b>7.1</b>	<b>General Administrative Services</b>		<b>Consider part of the construction in stalls</b>
7.1.1	<b>Administrative Room - General Directorate</b>	1	<b>Living room with bathroom (suite).</b>
7.1.1.1	Anteroom/Lobby of the Board of Directors - Secretary and General Counsel	1	Consider 3 jobs.
7.1.1.2	Environment/Administrative Area	1	Consider 42 jobs.  It can be accommodated in a single environment attached to the Board rooms described in item 7.1.2.  Predict a monitoring panel of strategic indicators (KPIs).
7.1.2	<b>Administrative Room - Board/Cabinet</b>	1	<b>Living room with bathroom (suite).</b>
7.1.2.1	Anteroom/Lobby of the Board of Directors - Secretary and General Counsel	1	Consider 3 jobs.
7.1.3	<b>Administrative Room - Administrative-Financial Directorate</b>	1	<b>Living room with bathroom (suite).</b>
7.1.3.1	Anteroom/Lobby of the Board of Directors - Secretary and General Counsel	1	Consider 3 jobs.
7.1.3.2	Environment/Administrative Area 1	1	Consider 1 job for area leadership + 30 administrative jobs.  It can be accommodated in a single environment for the Personnel Management Area, attached to the Executive Board's rooms described in item 7.1.4.
7.1.3.3	Environment/Administrative Area 2	1	Consider 1 job for area leadership + 24 administrative jobs.  It can be accommodated in a single environment for Purchases, Contracts and Agreements, attached to the Executive Board rooms described in item 7.1.4.

Item	Environment	Quantity	Description
7.1.3.4	Environment/Administrative Area 3	1	Consider 1 job for area leadership + 22 administrative jobs.  It can be accommodated in a single environment for Contracting and Billing, attached to the Board rooms described in item 7.1.4.
7.1.3.5	Environment/Administrative Area 4	1	Consider 1 job for area leadership + 5 administrative jobs.  It can be accommodated in a single environment for Information and Communication Technology, attached to the Board rooms described in item 7.1.4.
7.1.3.6	Archive - Human Resources	1	It must be located close to the Environment/Administrative Area described in item 7.1.4.2  This room must contain shelves and cabinets for file storage.
7.1.3.7	Archive - Purchases, Contracts and Agreements	1	It must be located close to the Environment/Administrative Area described in item 7.1.4.4  This room must contain shelves and cabinets for file storage.
7.1.4	<b>Administrative Room - Board of Directors</b>	1	<b>Living room with bathroom (suite).</b>
7.1.4.1	Anteroom/Lobby of the Board of Directors - Secretary and General Counsel	1	Consider 3 jobs.
7.1.5	Administrative Room - FHEMIG Monitoring and Inspection	1	Consider 4 jobs for the FHEMIG team and support for the inspection of the Concession Contract.
7.1.6	Administrative Room - Independent Checker	1	Consider 3 jobs. It is not necessary to predict computers.
7.1.7	Modular Meeting Room	1	Modular room, planned in order to enable its conversion into 2 rooms, both with multimedia, chairs and table for meetings.  The room must accommodate 20 people - 10 people in each room.
7.1.8	Press Room	1	It should include meeting tables with 6 positions, comfortable chairs, audiovisual equipment (e.g., projectors and monitors, for presentations and information transmission), and a considerable amount of accessible power points.
7.1.9	Crown	1 *	Consider in the space a sink, infrastructure for installing a water filter, countertop or appropriate table.  If the solution is for more than one administrative floor, provide at least one pantry for each of them.
7.1.10	Restroom for Employees (male and female)	2 *	Adequate measures for accessibility.

Item	Environment	Quantity	Description
			<p>Quantity to be dimensioned considering compliance with applicable standards.</p> <p>Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.</p> <p>It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.</p>
7.1.11	Toilet for the Public (male and female)	2 *	<p>Adequate measures for accessibility.</p> <p>Quantity to be dimensioned considering compliance with applicable standards.</p> <p>Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.</p> <p>It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.</p>
7.1.12	Cleaning Material Deposit - DML	1 *	<p>DML for this area, we recommend that it have dimensions above the RDC50 recommendation (1mx2m) because it must accommodate, in addition to the tank, the hygiene cart with dimensions of 119 x 058 x 110, a cabinet for storing consumer products.</p> <p>You should also consider the existence of a drain to remove water from buckets used in the hygiene of the environments.</p>
<b>7.2 Documentation and Information</b>			
7.3.1	Reception and Waiting Area (SAME)	1	<p>Consider 2 jobs.</p> <p>Service to the external and internal public.</p>
7.3.2	Medical Archive and Statistics Service (SAME)	1	<p>Consider 5 jobs.</p> <p>Restricted access area, CCTV system, air-conditioned with temperature and humidity control. Installation of fire detection system and alarms. Space and structure for installing sliding shelves.</p>
7.3.3	Research Room (SAME)	1	<p>Restricted access, CCTV system, air-conditioned with temperature and humidity control.</p> <p>Space for research tables (physical files) and computer benches (electronic research)</p>

Item	Environment	Quantity	Description
7.3.4	Administrative Chamber (SAME)	1	Consider 3 administrative workstations, office desk with chairs and hanging cabinets for storing administrative documents
<b>7.3</b>	<b>Administrative Services - Assistance</b>		<b>If the solution is for more than one administrative floor, the areas that make up the Assistance Board must be located on the floor closest to the assistance areas.</b>
7.3.1	<b>Administrative Room - Assistance Board</b>	<b>1</b>	<b>Living room with bathroom (suite).</b>
7.3.1.1	Anteroom/Lobby of the Assistance Board - Secretary and Advisory	1	Consider 4 jobs.
7.3.1.2	Environment/Administrative Area 1	1	Consider 15 jobs for the areas of CCIH (6), Epidemiological Surveillance (3), Risk and Patient Safety Center (3), Administrative (3).  Separate areas by partitions in glazing.  In the same environment, there is a small meeting room (4 positions) and a closed meeting room (no multimedia).  It can be accommodated in a single environment attached to the rooms of the Assistance Board, described in item 7.3.1.
7.3.1.3	Environment/Administrative Area 2	1	Consider 10 jobs for the Bed Center, Internal Regulation Center (NIR) and Discharge Management Office.  It is necessary to provide "control panels".  It can be accommodated in a single environment attached to the rooms of the Assistance Board, described in item 7.3.1.
7.3.2	Situation Room with Clinical Monitoring Screen	1	Consider 5 jobs.  Closed room, with restricted access, segregated from the others with a clinical monitoring screen.
7.3.3	Meeting Room	1	Meeting room for 6 positions with TV and video conferencing equipment (camera and desktop microphone).
7.3.4	Crown	1*	Consider in the space a sink, infrastructure for installing a water filter, appropriate countertop or table, cabinets for storing utensils.  If the solution is for more than one administrative floor, provide at least one pantry for each of them.

Item	Environment	Quantity	Description
7.3.5	Restroom for Employees (male and female)	2 *	<p>Adequate measures for accessibility.</p> <p>Quantity to be dimensioned considering compliance with applicable standards.</p> <p>Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.</p> <p>It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.</p>
7.3.6	Toilet for the Public (male and female)	2 *	<p>Adequate measures for accessibility.</p> <p>Quantity to be dimensioned considering compliance with applicable standards.</p> <p>Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.</p> <p>It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.</p>
7.3.7	Cleaning Material Deposit - DML	1 *	<p>DML for this area, we recommend that it have dimensions above the RDC50 recommendation (1mx2m) because it must accommodate, in addition to the tank, the hygiene cart with dimensions of 119 x 058 x 110, a cabinet for storing consumer products.</p> <p>You should also consider the existence of a drain to remove water from buckets used in the hygiene of the environments.</p>
<b>7.4</b>	<b>Digital Health</b>		
7.4.1	Environment with Single/Double Videoconferencing Rooms	1	Room for allocation of two positions of desktop microcomputer for video conferencing and room must have sound insulation.
7.4.2	Meeting Room for Group Video Conferencing	1	Meeting room for 6 positions with TV and video conferencing equipment (camera and desktop microphone), with sound insulation.
<b>7.5</b>	<b>Management and Control of the Hospital Complex</b>		
7.5.1	Control/Situation Room (CCO - Operational Control Center)	1	<p>This center will be the only one located in the Hospital Complex serving Lacen and NEP, to optimize the investment and efficiency of the processes, with real-time monitoring by the respective managers.</p> <p>Room prepared to receive a videowall, which will receive all monitoring in real time,</p>

Item	Environment	Quantity	Description
			where they will be monitored 24/7, parameters such as air conditioning temperature in critical environments, network availability, power oscillation, UPS battery situation, among other monitoring to be specified, work table with workstations, so that it does not compromise the visualization of the videowall, to accommodate 2 employees, with access to telephones.
7.5.2	Meeting Room	1	Meeting room for 4 positions is prepared for video conferences, for moments of crisis, the room should be next to the control room.
<b>8</b>	<b>SUPPORT HOUSE FOR PREGNANT AND PARTURIENT WOMEN</b>		Facilities for the care of 20 parturients.
8.1	Reception and Waiting Area	1	Consider CCTV camera when accessing the site.
8.2	Accommodation rooms with bathrooms	4	Minimum one toilet and one shower for every five users, and one washbasin for every ten users.  They must have an armchair for breastfeeding.
8.3	Living and living room	1	Minimum of 30 m <sup>2</sup> .
8.4	Kitchen	1	Minimum 24 m <sup>2</sup> .  External windows (not connected to the preparation area) equipped with removable millimeter screens for cleaning.
8.5	Cafeteria	1	Consider the existence of refrigerators and microwaves for the user's own use.
8.6	Multi-professional care room	1	Minimum area of 12 m <sup>2</sup> with restricted access (medicine storage area).
8.7	Activity room	1	
8.8	Service area	1	Consider space for a washing machine, tank and area for drying clothes.  This environment must have a minimum area of 0.70 m <sup>2</sup> per user.
8.9	Guest Toilets (male and female)	2 *	Adequate measures for accessibility.  Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm in diameter.  It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.
8.10	Restroom for Employees	2 *	Adequate measures for accessibility.  Doors must have a minimum clearance of 80 cm and a free area of at least 60 cm

Item	Environment	Quantity	Description
			in diameter.  It is recommended that the doors open outwards, facilitating quick access to help the user, if necessary.
8.11	Room for on-call physician with bathroom	1 *	
<b>9</b>	<b>GENERAL</b>		
9.1	Registry	1	
9.2	Restaurant for the public (users)	1	Restaurant with capacity for 100 people.  Estimated minimum area: 275m <sup>2</sup> .
9.3	Restaurant for employees and students	1	Restaurant with capacity for 100 people.  Estimated minimum area: 275m <sup>2</sup> .
9.4	Snack bar for SADT users	1	Snack bar with capacity to serve 33 people.  Estimated minimum area: 95m <sup>2</sup> .
9.5	Snack bar for users of the Outpatient Clinic	1	Snack bar with capacity to serve 36 people.  Estimated minimum area: 100m <sup>2</sup> .
9.6	Cafeteria for Collection/Lab users	1	Snack bar with capacity for 20 people.  Estimated minimum area: 100m <sup>2</sup> .
9.7	Convenience stores	16 *	Space for accommodation of commercial establishments.  Estimated minimum area per store: Approximately 12m <sup>2</sup> .
9.8	Electronic Banking	1	
9.9	Police Station	1	
9.10	Chapel	1	
<b>10</b>	<b>OTHER</b>		
	<b>General requirements for the entire Hospital Complex</b>		For each workstation, 1 complete desktop (microcomputer and monitor), 1 network point and recommendation of at least 4 ABNT standard electrical points must be designed;  Consider cabling infrastructure for the installation of a Wi-Fi Access point for a

Item	Environment	Quantity	Description
			<p>wireless network throughout the complex, so that there is total coverage;</p> <p>Consider shaft/technical rooms, which must hold at least one 42U rack, with space for front and rear maintenance for the allocation of telecommunications network distribution equipment, with 1 room for internet network entry (recommended near the entrance and easy access), 1 room for vertical distribution per building (block) and at least 1 room per floor for horizontal distribution;</p> <p>Consider cabling infrastructure for the installation of RFID antennas at building entrances and exits, warehouses, equipment storage room;</p> <p>Utility Room: It must be provided with a countertop with a sink and a sink</p> <p>01 training booth with 02 computers for each meeting room in the care areas were considered;</p> <p>For the adult ICU, structure, equipment and furniture for the care of obese patients were considered in 03 boxes and 03 isolation rooms, due to the care of the different specialties;</p> <p>For all rooms provide (i) individual bathrooms; (ii) size for 2 beds, including gas strip - even single rooms;</p> <p>The amounts of DML and other support areas depend on the distance and areas that will be shared, according to the architectural project.</p> <p><b>Accessibility for obese patients:</b></p> <p>It is considered that 10% of adult care areas should be adapted for obese patients - adoption of specific solutions (e.g., door width).</p> <p>The Isolation Beds will have dimensions for the care of the Obese (adult), and 10% of these will be equipped for this patient profile according to Minutes 01.10.24.</p> <p>For surgical facilities, the proportion of 1 room adapted for obese patients by size is considered.</p>

## 2 NEEDS PLAN – LACEN

Item	Environment	Quantity	Description/Remark/Requisition
<b>1</b>	<b>SAMPLE MANAGEMENT</b>	-	<b>50 DECD professionals and 11 DIVISA professionals</b>
<b>1.1</b>	<b>Parking lots for Carriers (Outdoor Area)</b>	-	-
1.1.1	Parking lots for Carriers	1	<p>20 parking lots (spaces for common and medium-sized vehicles, e.g., ambulance/minibus).</p> <p>Provide CCTV on site to control parked vehicles.</p> <p>Evaluate the possibility in the architectural design of predicting a contingency area for moments of peak demand, without necessarily assigned vacancies.</p>
<b>1.2</b>	<b>Sample receiving and sorting area (DECD and DIVISA)</b> Minimum area of 500 m <sup>2</sup>	-	<p><b>Minimum reference: 500 m<sup>2</sup></b></p> <p>The planning of this area must consider the need for receiving counters and independent flows for the samples of each division, considering their characteristics (DECD - Dirty sample; DIVISA - Clean sample).</p>
1.2.1	Reception Room for Bearers	1	<p>Next to parking areas with a reception desk, toilets and access to the support and expertise room.</p> <p>Consider point for camera connected to the CCTV system.</p> <p>Provide space for waiting for carriers with 10 seats.</p>
1.2.2	Accessible toilets for carriers	2	<p>Accessible bathroom (1 female and 1 male).</p> <p>External toilet for carriers</p>
1.2.3	Support and expertise room – DIVISA	1	Meeting room with 4 working positions
1.2.4	DIVISA Sample Reception and Conference Room	1	<p>It must be close to the receipt of the DECD at separate counters for 4 workstations.</p> <p>Restricted access area.</p>

Item	Environment	Quantity	Description/Remark/Requisition
			<p>Environment with benches for receiving samples.</p> <p>Small to large containers.</p> <p>RFID antenna on bench for automation of sample receipt in the unit.</p> <p>Area for 1 ~700 L (-30 degrees) freezer and 1 650 L vertical laboratory refrigerator; both with automated temperature control.</p> <p>Consider washbasin for the area.</p>
1.2.5	Receiving, conference and sorting room for DECD samples	1	<p>It must be close to the receipt of the CURRENCY in 2 separate counters for 4 workstations.</p> <p>Restricted access area.</p> <p>Environment prepared for large loads, spaces for pallets and boxes.</p> <p>Benches for checking and sorting the material. Small to large containers</p> <p>Benchtop RFID antenna for automation of sample receipt in the unit.</p> <p>Area for 1 ~700 L (-30 degrees) freezer and 1 650 L vertical laboratory refrigerator; both with automated temperature control.</p> <p>Consider washbasin for the area.</p>
1.2.6	Kits and culture media dispatch room	1	<p>Area with counter for external dispatch (DIVISA and DECD) for 1 workstation.</p> <p>Restricted access area.</p> <p>Environment with benches for dispensing kits and culture media.</p> <p>Need for 4 two-door enclosures with approximate dimensions of 80x180x70 cm (WxHxD).</p> <p>Area for 1 freezer ~300/400 L (-30 degrees) and 1 refrigerator with 3 doors ~1,500 L</p>

Item	Environment	Quantity	Description/Remark/Requisition
			with automated temperature control.
1.2.7	Room for issuing DIVISA reports	1	3 workstations (01 manager + 2 team) Place for issuing reports
1.2.8	Room for Temporary Filing of Reports	1	Area for temporary archiving of DIVISA and DECD reports and forwarding for definitive storage (box box) via FUNED.  Countertops and shelves for handling and temporary storage of box boxes.  01 workstation with computer
1.2.9	DECD Sample Sorting and Numbering Room	1	Benches with spaces for computers, labeling machines and shelves for samples, at each stage individually: - sorting (8 workstations); - numbering (4 jobs); - Problem solving (2 jobs). Consider Temperature Control and Humidity of the Environment.
1.2.10	Temporary Sample Storage Room for DECD	1	Area without workstation, only for storage with support bench for sample transport. Provide acoustic barrier. Area adjacent to the Sorting and Numbering Room, and the Aliquoting Room.  2 Laboratory Refrigerators, capacity 650 L, vertical. 2 Freezers ~700 L (-30 degrees). 2 Freezers ~700 L (-80 degrees).
1.2.11	DECD Sample Aliquoting Room	1	2 biological cabins with 2 workstations in each. Support bench for 4 workstations.  Centrifugation of samples and aliquoting on benches with vats other than the screening. Sample racks. Consider washbasin for the area.
1.2.12	Registration and Numbering Room of DIVISA samples	1	Workbenches (mobile workbench) for 4 workstations with spaces for computers, labelling machines and sample shelves.  Area for 1 ~700 L (-30 degrees) freezer and 1 650 L vertical laboratory refrigerator; both with automated temperature control.
1.2.13	Core Sample Storage Room - DIVISA	1	Temperature and humidity control. Shelves for storing samples in a segregated way. Locked cabinet with key (controlled medications).

Item	Environment	Quantity	Description/Remark/Requisition
			Area for 1 ~700 L (-30 degrees) freezer and 1 650 L vertical laboratory refrigerator; both with automated temperature control.
1.2.14	Distribution of samples to DECD laboratories	1	<p>1 DECD freight elevator (area: 1 cart + 1 person)</p> <p>The DIVISA elevator cannot be shared with the DECD elevator.</p> <p>To be confirmed elevator and/or freight elevator according to the architectural solution.</p> <p>Sample stand.1 workstation with computer.</p>
1.2.15	Distribution of samples to DIVISA laboratories	1	<p>1 DIVISA freight elevator (area: 1 trolley + 1 person)</p> <p>The DECD elevator cannot be shared with the DIVISA elevator.</p> <p>To be confirmed elevator and/or freight elevator according to architectural solution.</p> <p>Sample stand.1 workstation with computer.</p> <p>Area for 1 freezer ~700 L (-30 degrees) and 1 refrigerator ~700 L with automated temperature control.</p>
1.2.16	Room for storage of trolleys and transport boxes	1	<p>Countertop with deep bowl for ice disposal and washing of transport boxes.</p> <p>Space for storage of transport carts and shelves for storage of transport boxes.</p>
1.2.17	Leadership Room	1	01 workstation - room must be contiguous to the administrative work room.
1.2.18	Administrative Room - DECD Typing	1	Administrative room for typing - 07 workstations (01 head + 06 team)
1.2.19	Cleaning Material Deposit (DML)	1 *	Have the necessary dimensions for: tank, drain to remove water from hygiene buckets, cabinet to store consumer products and space for the hygiene cart (119 x

Item	Environment	Quantity	Description/Remark/Requisition
			058 x 110 cm).  Hydraulic point for dilution of chemical products, window for ventilation and natural lighting.
1.2.20	Warehouse	1 *	Environment for local stock, prepared to receive inputs for a maximum of 1 week.  RFID antenna on bench and shelves for automation of material handling in the sector.  Consider point for camera connected to the CCTV system
<b>2</b>	<b>DIVISION OF EPIDEMIOLOGY AND DISEASE CONTROL (DECD)</b>	-	<b>For all laboratories:</b> Refrigerators and freezers in the different laboratories are intended for the temporary storage of samples (Serum Library Samples must follow a one-way flow, so the sample enters through one door, travels its way through and exits through another door. Movable benches with locks for all laboratories, to accommodate equipment and handling of samples and solutions. For each workstation, 1 complete desktop (microcomputer and monitor), 1 network point and recommendation of at least 4 ABNT standard electrical points per workstation must be designed. For all Warehouses RFID antenna on bench and bookcase for automation of material movement in the unit. The Laboratories must be dimensioned in M <sup>2</sup> after defining the technological park to be used in each Platform.
<b>2.1</b>	<b>BIOBANK minimum area of 260 m<sup>2</sup></b>	-	<b>Minimum reference: 260 m<sup>2</sup>3 Professionals</b>
2.1.1	Administrative Room	1	Technicians' room with 2 workstations.  Connection with the vestment area for later entry into the Laboratory.
2.1.2	Area for Dressing and Hand Washing	1	Area with sink, cabinet for storing and dispensing PPE, hooks or hangers for aprons that will be reused during the work period, safe disposal area for PPE and clothes, when applicable.
2.1.3	SOROTECA - Storage room for the storage of biological samples	1	If the solution foresees a robotic ultra-freezer with a large sample storage capacity, the Soroteca and the biobank could be unified. With formal controls on

Item	Environment	Quantity	Description/Remark/Requisition
			<p>access to samples.</p> <p>Support bench.</p> <p>It is important to evaluate with suppliers of this type of solution (Soroteca and biobank) for adjustments in the architectural and engineering structure.</p>
2.1.4	Laboratory - AUTOMATION FOR ALICOTAGEM AND REGISTRATION	1	<p>Review depending on the Soroteca/Biobank automation solution.</p> <p>Direct access to the rooms for the Soroteca and Biobank. Provide for entry through the sample distribution areas (DECD and DIVISA).</p> <p>Provide for restricted access control.</p> <p>Laboratory shared with the pep for the production of proficiency test items.</p> <p>Consider the possibility of RFID for tracking and locating samples. Support bench, pipetting robot for aliquoting, 01 freezer -80°C, 01 freezer -30°C, 01 laboratory refrigerator, 01 CSB, 01 bench with microscope, 01 bench with computer, sink.</p>
2.1.5	BIOBANK - Sample storage room	1	<p>Large-capacity automated sample storage system, similar to Hamilton's BIOS models, to serve the Biobank and Soroteca.</p> <p>Support bench.</p> <p>It is important to evaluate with suppliers of this type of solution (large capacity automated systems, similar to Hamilton BIOS) for joint development of the project and necessary adjustments in the architectural and engineering structure.</p>
2.1.6	Cleaning Material Deposit (DML)	1 *	Support bench.
2.1.7	Temporary Waste Shelter	1 *	It is important to evaluate with suppliers of this type of solution (large capacity automated systems, similar to Hamilton BIOS) for joint development of the project and necessary adjustments in the architectural and engineering structure.

Item	Environment	Quantity	Description/Remark/Requisition
<b>2.2</b>	<b>IMMUNOLOGY PLATFORM</b> Minimum area of 700 m <sup>2</sup>	-	<b>Minimum reference: 700 m<sup>2</sup>35 Professionals</b>
2.2.1	Administrative Room - Coordination	1	01 workstation - room must be contiguous to the technicians' room, preferably glass with blinds, panel to monitor the production of the platform.
2.2.2	Administrative Room	1	Technicians' room. If possible, a small routine meeting room per platform. Verify the possibility of being common to the molecular biology platform.  20 jobs for the professionals of the immunology platform.
2.2.3	Area for Dressing and Hand Washing	1	Area with sink, cabinet for storing and dispensing PPE, hooks or hangers for aprons that will be reused during the work period, safe disposal area for PPE and clothes, when applicable.
2.2.4	Sample Reception Area (internal environment of the laboratories)	1	The samples after screening (conference, centrifugation, aliquoting) are directed to the executing laboratory  Each laboratory must have its place of receipt and conference of the material (room/bench or pass through access window)  RFID antenna on bench for automation of sample receipt in the unit.  Provide a place for issuing the report, which may be a bench in the Laboratory.  Consider Ambient Temperature and Humidity Control and Automated Refrigerators.
2.2.5	<b>Immunology Laboratories</b>  Rickettsial and Hantavirus Laboratory Respiratory Virus Laboratory Arbovirus Laboratory HIV and Viral Hepatitis Laboratory Toxoplasmosis Laboratory Chagas Disease Laboratory Leishmaniasis Laboratory	1	10 workstations  Air conditioning with temperature control variants Stabilized network and generator to support all equipment Purified water system Safety shower and eye wash Check equipment that needs a wastewater collection network. Support benches for sample handling, computer benches and cabinets for temporary storage of supplies such as kits, disposables, etc. Vibration sensitive equipment, exclusive bench and temperature control

Item	Environment	Quantity	Description/Remark/Requisition
			General equipment: 02 Incubators or ovens, 4 refrigerators for kits and samples. Provide an exhaust hood for handling chemical reagents. Provide computers for automation with barcode readers, according to the technology park's solution.
2.2.6	Leptospirosis Laboratory	1	Isolated room for micro agglutination, with microbiological greenhouse, CSB and refrigerator for culture maintenance, and bench for technique execution (separate room)
2.2.7	Dark room for fluorescence microscopy (closed room)	1	Microscopy darkroom - immunofluorescence -4 workstations
2.2.8	Flow cytometry area (TCD4 lymphocyte count laboratory)	1	03 workstation Workbench, chairs, cabinets.  Spaces for equipment (flow cytometer, fluid system, optical system, electronic system and computer). Vibration sensitive equipment, unique bench and temperature control. Cytometer on a specific bench/loss of continuity. Ministry of Health responsible for the supply of equipment, supplies and maintenance for the flow cytometer.  Predict CBS. Develop the best ergonomic solution for working on the equipment.
2.2.9	Cold room (freezers/refrigerators)	1	RFID antenna on bench for automation of movement of samples and inputs in the area. Consider integration with systems for control and monitoring of Temperature and Humidity of the Environment. Automated refrigerators.  Cold chamber for temporary storage of inputs (platform with a large volume of inputs stored in refrigerators). Freezer 700 L (-30) - 5 units Refrigerator 700 L - 6 units
2.2.10	Cleaning Material Deposit (DML)	1 *	Have the necessary dimensions for: tank, drain to remove water from hygiene buckets, cabinet to store consumer products and space for the hygiene cart (119 x 058 x 110 cm). Hydraulic point for dilution of chemical products, window for ventilation and natural lighting.
2.2.11	Temporary Waste Shelter	1 *	Located in the units, it must be signposted and have washable, closed and ventilated wall coverings

Item	Environment	Quantity	Description/Remark/Requisition
2.2.12	Warehouse	1 *	Area and cabinets for temporary storage of supplies such as kits, disposables, etc. (supplies to be used between two warehouse requisitions)
<b>2.3</b>	<b>MOLECULAR BIOLOGY Platform The minimum area of 900 m²</b>	-	<p><b>Minimum reference: 900 m²30 Professionals</b></p> <p>This platform will receive samples from different services: - Virology and Rickettsial Service (SVR/DECD)- Bacterial and Fungal Diseases Service (SDBF/DECD)- Parasitic Diseases Service (SDP/DECD),</p>
-	<b>General requirements for the Molecular Biology platform</b>	-	<p>The rooms must be provided with hand washbasins and stainless-steel countertops with a work tub.</p> <p>The benches must have dimensions that allow the installation of the equipment.</p> <p>Adequate ambient temperature for carrying out tests that require temperatures of 22°C, permanently monitored;</p> <p>There should be no communication between the Amplification Room and the Detection Room.</p> <p>In the case of using a central air conditioning system, there should be no communication between the pre- and post-amplification rooms, nor air circulation between them.</p> <p>Follow recommendations for Security Level 2 (NB2)</p>
2.3.1	Administrative Room - Coordination	1	01 workstation - room must be contiguous to the technicians' room, preferably glass with blinds, panel to monitor the production of the platform.
2.3.2	Administrative Room	1	Technicians' room. If possible, a small routine meeting room per platform. Check the possibility of being common to the immunology platform. 15 jobs
2.3.3	Meeting Room	1	Meeting room for 6 seats. Single room for Molecular Biology and Immunology.
2.3.4	Antechamber/Room for Dressing and Hand Washing	1	Area with sink, cabinet for storing and dispensing PPE, hooks or hangers for aprons that will be reused during the work period, safe disposal area for PPE and clothes, when applicable.
2.3.5	Receiving samples and DECD records	1	Workbenches with computer and shelves.01 freezer (-30) 400 L

Item	Environment	Quantity	Description/Remark/Requisition
			The receipt of samples on the Platform does not have to be a specific area and can be evaluated as a bench in the laboratory hall, depending on the architectural solution.
2.3.6	Automation Room	1	Equipment for extraction of nucleic acids and preparation of plates in an automated way. 4 CSB and 4 workstations with laminar flow for molecular biology (2 workstations in each booth/workstation) 02 freezer (-30) for inputs 02 refrigerators (2 to 8) for inputs 02 refrigerators (2 to 8) for samples
2.3.7	Antechamber/Room for Dressing and Hand Washing	1	It must have restricted access signage. Exclusive room, with the presence of an anteroom for specific parameterization (it does not need to be a barrier - just a lab coat change), intended for the preparation of inputs and manual signs. Sinks and cabinet for PPE.
2.3.8	Clean area (Free DNA)	1	It must not have direct communication with any other room. Capacity for 5 workstations with laminar and UV flow for two operators each workstation. 01 freezer (-30) for inputs 01 refrigerators (2 to 8) for inputs
2.3.9	Antechamber/Room for Dressing and Hand Washing	1	It must have restricted access signage. Sinks and cabinet for PPE. The antechambers/rooms for vestments planned for the Molecular Biology and Sequencing platforms can be shared, given that the areas are contiguous.
2.3.10	Amplification Room	1	Bench for about 20 thermocyclers, with anteroom, and adjacent to the automation hall.
2.3.11	Freezer/refrigerator room	1	Evaluate feasibility (cost x benefit) cold room (-80) with robot for temporary

Item	Environment	Quantity	Description/Remark/Requisition
			<p>storage of inputs and samples (platform with large volume of inputs stored in freezers).</p> <p>Provide for 700 L (-80) freezer - 3 units;</p>
2.3.12	Cleaning Material Deposit (DML)	1 *	Have the necessary dimensions for: tank, drain to remove water from hygiene buckets, cabinet to store consumer products and space for the hygiene cart (119 x 058 x 110 cm). Hydraulic point for dilution of chemical products, window for ventilation and natural lighting.
2.3.13	Temporary Waste Shelter	1 *	Located in the units, it must be signposted and have washable, closed and ventilated wall coverings
2.3.14	Warehouse	1 *	Area and cabinets for temporary storage of supplies such as kits, disposables, etc. (supplies to be used between two warehouse requisitions)
<b>2.4</b>	<b>SEQUENCING PLATFORM</b> Minimum area of 200 m <sup>2</sup>	-	<p><b>Minimum reference: 200 m<sup>2</sup>10 Professionals</b></p> <p>It must be connected directly to the Molecular biology laboratory. This platform will receive samples from different services: - Virology and Rickettsial Service (SVR/DECD)- Bacterial and Fungal Diseases Service (SDBF/DECD)- Parasitic Diseases Service (SDP/DECD),"</p>
2.4.1	Antechamber/Double Room for Vestments	1	<p>It must have restricted access signage.</p> <p>Area with sink, cabinet for storing and dispensing PPE, hooks or hangers for aprons that will be reused during the work period, safe disposal area for PPE and clothes, when applicable.</p> <p>Must communicate with the library preparation room.</p> <p>The antechambers/rooms for vestments planned for the Molecular Biology and Sequencing platforms can be shared, given that the areas are contiguous.</p>
2.4.2	Library Preparation Room	1	Laminar flow workstations
2.4.3	Bioinformatics	1	Benches for computers (servers - with processing for the requirements of the area

Item	Environment	Quantity	Description/Remark/Requisition
			- High Performance) - administrative area separated from the laboratory areas.  Capacity for 7 professionals, with workstations designed for dual computer screens.
2.4.4	Sequencing	1	Benches for equipment and support. Currently 3 sequencers, but provide space for 5 sequencers
<b>2.5</b>	<b>CLINICAL MICROBIOLOGY PLATFORM</b> Minimum area of 400 m <sup>2</sup>	-	<b>Minimum reference: 400 m<sup>2</sup>35 Professionals</b> If possible, provide on the same floor: Clinical Microbiology, Cell Culture and NB3.
2.5.1	Administrative Room - Coordination	1	01 workstation - room must be contiguous to the technicians' room, preferably glass with blinds, panel to monitor the production of the platform.
2.5.2	Technicians' room with computers	1	10 workstations with computer.
2.5.3	Meeting Room	1	Room for 4 seats
2.5.4	Area for Dressing and Hand Washing	1	Area with sink, cabinet for storing and dispensing PPE, hooks or hangers for aprons that will be reused during the work period, safe disposal area for PPE and clothes, when applicable.
2.5.5	Space for receiving samples, preferably with a pass-through access window. Can be the same environment as the processing room	1	Support bench for sample handling (3 workstations - 2 m of free bench), and bench with 2 computers and two barcode readers for technical screening of samples. Drawers for storing PPE (gloves, masks, goggles)  Consider point for camera connected to the CCTV system Room temperature control
2.5.6	Room for sample processing and clinical microbiology incubation	1	Area should be contiguous and communicate with NB2 tuberculosis.  04 CSB Class II A2 without external exhaust and 01 CSB Class II B2 with external exhaust (mycology), a support bench for each CSB, central bench for organizing the material to be worked on in the CSB, reading plates, etc., 1 greenhouse at 25°C, 1 oven at 37°C mycology, 1 oven at 42°C microbiology, 01 large greenhouse at 37°C (floor, with two doors), 01 CO2 oven, MALDI-TOF (VITEK-MS - space of 1 m away

Item	Environment	Quantity	Description/Remark/Requisition
			<p>from each side of the wall is required) and VITEK-2, bench with 4 computers to attend to VITEK equipment, free bench for two people.</p> <p>Support bench for smaller equipment (thermos blocks, vortex stirrers, centrifuges and micro centrifuges), benches for 3 microscopes - 1 for mycology and 02 for bacteriology, and 1 computer for each microscope (provide bench with microscope next to CSB Class II B2).</p> <p>Room temperature control.</p> <p>04 workstations on benches and 04 workstations with computers.</p> <p>03 refrigerators (400 L) for storage of inputs in use, 01 freezer -30°C (400 L).</p>
2.5.7	Room for processing and incubating liquid cultures	1	Ambient temperature control.02 CSB Class IIA2, oven, microscope and support bench for sample handling and computer.
2.5.8	Warehouse	1 *	Area and cabinets for temporary storage of supplies such as kits, disposables, etc. (supplies to be used between two warehouse requisitions)
2.5.9	Room for <i>freezers</i> and refrigerators – can be used in common with a product microbiology laboratory	1	<p>Temperature automation for freezers.</p> <p>Consider that the outlets in this environment should be connected to the generator03 Freezer -80°C of 400L05 input refrigerators (400 L)02 sample refrigerators (400L)02 freezer -30°C for samples.</p>
2.5.10	Cleaning Material Deposit (DML)	1 *	Have the necessary dimensions for: tank, drain to remove water from hygiene buckets, cabinet to store consumer products and space for the hygiene cart (119 x 058 x 110 cm). Hydraulic point for dilution of chemical products, window for ventilation and natural lighting.
2.5.11	Temporary Waste Shelter	1 *	Located in the units, it must be signposted and have washable, closed and ventilated wall coverings
<b>2.6</b>	<b>CELL CULTURE PLATFORM</b> Minimum area of 100 m <sup>2</sup>	-	<b>Minimum reference: 100 m<sup>2</sup>10 Professionals</b> It must be close to the Safety Level 3 (NB3) laboratory. If possible, provide on the

Item	Environment	Quantity	Description/Remark/Requisition
same floor: Clinical Microbiology, Cell Culture and NB3.			
2.6.1	Technical and Administrative Room	1	06 workstations with computer
2.6.2	Area for Dressing and Hand Washing	1	Area with sink, cabinet for storing and dispensing PPE, hooks or hangers for aprons that will be reused during the work period, safe disposal area for PPE and clothes, when applicable.
2.6.3	Rabies and Rickettsial Laboratory	1	02 CSBs exclusively for the use of the rabies virus, 01 CSB for Rickettsial Diseases, 01 support bench for Rickettsial Diseases, 01 CO2 incubator, water purification system, refrigerator, support bench for sample handling. Room temperature control. Sink needed in laboratories.
2.6.4	Dark room for fluorescence microscopy (closed room)	1	Microscopy darkroom - immunofluorescence - 2 workstations
2.6.5	Cultivation Laboratory	1	02 CSB exclusive for cell culture, 01 CO2 incubator, water purification system, refrigerator, support bench for sample handling. Room temperature control. Sink needed in laboratories.
2.6.6	Freezer/refrigerator room	1	Temperature automation for freezers. Consider that the sockets in this room must be connected to the generator 02 freezer -80°C, 04 freezers -30°C, 02 refrigerators
2.6.7	Cleaning Material Deposit (DML)	1 *	Have the necessary dimensions for: tank, drain to remove water from hygiene buckets, cabinet to store consumer products and space for the hygiene cart (119 x 058 x 110 cm). Hydraulic point for dilution of chemical products, window for ventilation and natural lighting.
2.6.8	Temporary Waste Shelter	1 *	Located in the units, it must be signposted and have washable, closed and ventilated wall coverings
2.6.9	Warehouse	1 *	Area and cabinets for temporary storage of supplies such as kits, disposables, etc. (supplies to be used between two warehouse requisitions)
<b>2.7</b>	<b>NB3 Laboratory Minimum area of 150 m<sup>2</sup></b>	-	<b>Minimum reference: 150 m<sup>2</sup> 12 Professionals Consider a point for a camera connected to the CCTV system and a place to store UVC disinfection equipment, with access through both the Microbiology and Cell Culture platforms (if</b>

Item	Environment	Quantity	Description/Remark/Requisition
			<b>possible, provide on the same floor: Clinical Microbiology, Cell Culture and NB3).</b> There are two independent NB3 laboratories, which share a machine room, automation, purge (depending on the layout). For each of the NB3 laboratories, treated here as tuberculosis and virology, two unidirectional flow antechambers will be required: one for dressing and entering the laboratory and another for undressing and cleaning (shower) after using the laboratory. It is important to note that you do not "enter" a laboratory directly An NB2 laboratory is required before the antechamber, and for this reason they are called the NB2/NB3 complex.
2.7.1	Sala Tuberculosed NB2	1	NB2 Tuberculosis (capacity for 03 CSB exclusively for tuberculosis, 02 refrigerated centrifuges, 02 freezers -20°C and support bench, 3 refrigerators, 2 ovens, microscope and computers and pass through for input of materials - if possible, one for materials and one for samples) - direct communication with the clinical microbiology platform.
2.7.2	Antechamber/Double Room for Vestments - Tuberculosis	1	-
2.7.3	Sala tuberculosis NB3	1	NB3 Tuberculosis (capacity for 3 CSB exclusively for tuberculosis, refrigerated bench centrifuge, 02 large bacteriological ovens, support bench for sample handling and support bench for smaller equipment, 02 equipment for automated incubation of sensitivity test (MGIT), 02 notebooks, barrier autoclave, freezer -70°C, backup autoclave - small)  Provide technical door for entry and exit of equipment.
2.7.4	Area for sanitizing/decontaminating materials	1	Barrier autoclave for decontamination of highly contaminated waste and A3 hazard
2.7.5	Antechamber/Double Room for Undressing - Tuberculosis	1	-
2.7.6	Shower area (adjacent to the antechamber for undressing)	1	Ensure the employee's exit flow through the shower area, located at the exit of the containment area. Bath area with shower automation system mechanically (floor) or electronically (sensor).
2.7.7	Virology Room NB2	1	NB2 virology (02 CSB for the exclusive use of virology, 01 refrigerator, 02 freezers (-30°C and -80°C), 01 CO2 incubator, benches for sample handling and benches for

Item	Environment	Quantity	Description/Remark/Requisition
			small equipment, computers) - direct communication with the cell culture platform.
2.7.8	Antechamber/Double Room for Vestments - Virology	1	-
2.7.9	Virology Room NB3	1	NB3 Virology (capacity for 3 CSBs exclusively for virology, 02 freezers - 80°C, 01 refrigerator, 03 CO2 incubators, 01 refrigerated centrifuge, inverted microscope, 01 tissue macerator, 02 support benches, one for small equipment and one for sample handling, barrier autoclave, notebooks, additional backup autoclave)  Provide technical door for entry and exit of equipment.
2.7.10	Area for sanitizing/decontaminating materials	1	Barrier autoclave for decontamination of highly contaminated waste and A3 hazard
2.7.11	Antechamber/Double Room for Undressing - Virology	1	-
2.7.12	Shower Area (adjacent to the antechamber for undressing)	1	Ensure the employee's exit flow through the shower area, located at the exit of the containment area. Bath area with shower automation system mechanically (floor) or electronically (sensor).
2.7.13	Utility Room (Purge)	1	Depending on the architectural solution, whether it will be a single room for both NB3 or individual. This room receives the clean material from the NB3s barrier autoclave. Disposal must follow an appropriate flow for NB3 laboratory waste.
2.7.14	Administrative Room	1	03 jobs
2.7.15	Cleaning Material Deposit (DML) - Exclusive NB3	1	Have the necessary dimensions for: tank, drain to remove water from hygiene buckets, cabinet to store consumer products and space for the hygiene cart (119 x 058 x 110 cm). Hydraulic point for dilution of chemical products, window for ventilation and natural lighting. This DML should consider the storage of UVC equipment and specific containment kit for use in case of accidents in order to reduce the risk of exposure and for cases of accidents and spills.
2.7.16	Temporary Waste Shelter	1	Located in the units, it must be signposted and have washable, closed and ventilated wall coverings

Item	Environment	Quantity	Description/Remark/Requisition
<b>2.8</b>	<b>DIRECT ENTOMOLOGY/PARASITOLOGICAL</b> Minimum area of 100 m <sup>2</sup>	-	<b>Minimum Reference: 100 m<sup>2</sup>12 Professionals</b>
2.8.1	Technical and Administrative Room	1	4 workstations with computer If it is on the same floor as Immunology/BioMol it could be in the same administrative area.
2.8.2	Area for Dressing and Hand Washing	1	Area with sink, cabinet for storing and dispensing PPE, hooks or hangers for aprons that will be reused during the work period, safe disposal area for PPE and clothes, when applicable.
2.8.3	Laboratory	1	Benches for parasitological and entomological analysis, place for storing microscopes, bench for cold table for entomological analysis. Screened windows, temperature control, 01 CSB, 2 workstations with computers, cabinets for storage of supplies, sink for hand washing, countertop with sink for coloring parasitological slides, refrigerator for tick conservation.
2.8.4	Training Room - Microscopy	1	Microscopy training room, with 8 workstations, with bench for notes, microscopes and magnifying glasses, in the room should contain a microscope and a magnifying glass coupled to a TV monitor and a computer for presentations and data show. Also provide cabinets for storing microscopes.
2.8.5	Washing Area	1	Area near the Insectarium, with countertop and deep sink for washing trays and utensils from the larvae farm.
2.8.6	Insectarium (Adult)	1	Separate room, with control of ambient temperature and humidity and luminosity, with an air curtain to prevent "escape" of insects. Windows with screens. Sink and countertops for handling insects (02 people). Incubation greenhouse for the larvae area, with space for another greenhouse, shelves and entomological cages.  A partition with a door is required, separating the insectarium (adult) and insectarium (larvae rearing). The insectarium (adult) must be contiguous to the test room and there must be a pass through between the two rooms.
2.8.7	Insectarium (Larval Breeding)	1	Separate room, with control of ambient temperature and humidity and luminosity, with an air curtain to prevent "escape" of insects. Windows with screens. Sink and

Item	Environment	Quantity	Description/Remark/Requisition
			countertops for handling insects (02 people). Incubation greenhouse for the larvae area, with space for another greenhouse, shelves and entomological cages.
2.8.8	Test room	1	Temperature, humidity and light control, exhaust system, cage rack, support bench for sample handling, cabinet for storing exclusive PPE. You must communicate with the insectarium - adult area (pass through) and laboratory.
2.8.9	Area for storing field materials	1	Environment with external access and independent flow for tool storage and PPE for field work. Field material is heavy and must be close to the ground floor in an easily accessible area as withdrawals and returns are weekly. Shelves, bookcases, access control, temperature control. The warehouse must have a physical area of 4mX2.5m. Shelf measurement (4 shelves): height 4m X width1.5m X depth: 0.5m
2.8.10	Cleaning Material Deposit (DML)	1 *	Have the necessary dimensions for: tank, drain to remove water from hygiene buckets, cabinet to store consumer products and space for the hygiene cart (119 x 058 x 110 cm). Hydraulic point for dilution of chemical products, window for ventilation and natural lighting.
2.8.11	Temporary Waste Shelter	1 *	Located in the units, it must be signposted and have washable, closed and ventilated wall coverings
<b>3</b>	<b>SANITARY AND ENVIRONMENTAL SURVEILLANCE DIVISION</b>	-	<p>The ceiling height of the BORDER would ideally be 3.50m (free). Evaluate for the whole of LACEN.</p> <p><b>For all laboratories:</b> Refrigerators and Freezers must be connected to the generator; Samples must follow a unidirectional flow, so the sample enters through one door, travels its way and exits through another door; Movable bench with locks for all laboratories, to accommodate equipment and handling of samples and solutions; For each workstation, 1 complete desktop (microcomputer and monitor), 1 network point and recommendation of at least 4 ABNT standard electrical points per workstation must be designed; For all Warehouses RFID antenna on bench and shelf for automation of material handling in the unit; The Laboratories must be dimensioned in M<sup>2</sup> after defining the technological park to be used in each Platform, as well as the estimate of the quantity and space needed for the weekly</p>

Item	Environment	Quantity	Description/Remark/Requisition
			stocks.
<b>3.1</b>	<b>HEALTH PRODUCTS Platform The minimum area of 300 m<sup>2</sup></b>	-	<b>Minimum reference: 300 m<sup>2</sup>10 professionals</b> Gases for the Platform: Compressed air Note: There are specific distancing rules for some equipment
3.1.1	Vestment Room	1	Area with sink, cabinet for storing and dispensing PPE, hooks or hangers for aprons that will be reused during the work period, safe disposal area for PPE and clothes, when applicable.  Depending on the architectural and engineering solution, the antechambers for entry into the laboratory area can be shared by more than one platform.
3.1.2	Administrative/Technical Room	1	Workstations for 7 Professionals. Also provide for cabinets
3.1.3	Sample Reception Area	1	Table and/or counter and cabinet.  Consider point for camera connected to the CCTV system
3.1.4	General physical testing area/laboratory	1	Area with NBI characteristics. An area isolated from the others, partitions with a display, side benches and central island with technical shafts, electrical point strips and utilities such as compressed air. Dimensions and positioning of equipment (including bench or floor equipment) compatible with the list of equipment sent for subsequent evaluations. Presence of sink and cabinets/drawers. Controllable lighting level. Control of temperature and relative humidity of the air (Ranges of the SEFI analyses vary between 16 and 28 ° C, our indication will be, at first, to adopt a more central range and that also guarantees thermal comfort to the analysts: 22°C) (Relative humidity: between 25 and 80 %. our indication, therefore, is that it is designed for analyses that require more restricted humidity ranges: 65 +/- 4 %). Provide independent access for sample receipt (Pass through or port or other access to be defined)
3.1.5	Area/laboratory for sensitive equipment (Scale, Tensiometer)	1	Closed area with anti-vibration benches, according to specified equipment, temperature and relative humidity controlled in the same range as the previous testing laboratory. Benches positioned outside the direction of the access door and air diffusers to prevent drafts in the equipment. Dimensions according to the

Item	Environment	Quantity	Description/Remark/Requisition
			expected equipment list.
3.1.6	Area/laboratory for equipment with temperature and humidity control. (Greenhouses, ovens, climatic chambers)	1	Closed area, according to specified equipment, temperature exhaust if necessary, according to the conception to be adopted by the designers and that meet the characteristics and demands of the equipment. Dimensions according to the expected equipment list.
3.1.7	Area/laboratory with NB2 characteristics	1	Closed area, according to specified equipment, exhaust temperature if necessary, according to the conception to be adopted by the designers and that meet the characteristics and demands of the equipment. Dimensions according to the expected equipment list. This area will be intended to accommodate laminar flow cabin with a bench for preparations. Room for the preparation and performance of physical tests involving biological inputs and diagnostic kits.
3.1.3	Warehouse	1 *	Area and cabinets for temporary storage of supplies such as kits, disposables, etc. (supplies to be used between two warehouse requisitions)
3.1.4	Cleaning Material Deposit (DML)	1 *	Have the necessary dimensions for: tank, drain to remove water from hygiene buckets, cabinet to store consumer products and space for the hygiene cart (119 x 058 x 110 cm). Hydraulic point for dilution of chemical products, window for ventilation and natural lighting.
3.1.5	Temporary Waste Shelter	1 *	Located in the units, it must be signposted and have washable, closed and ventilated wall coverings
<b>3.2</b>	<b>SPECIALIZED CHEMICAL PLATFORM</b>	-	<b>24 Professional</b> Gases for the Platform: Acetylene, Oxygen, Helium, Argon, Nitrogen, Hydrogen and Synthetic Air.
<b>3.2.1</b>	<b>Metallic Contaminant Laboratory Minimum</b> area of 300 m <sup>2</sup>	-	<b>Minimum reference: 300 m<sup>2</sup> 7 Professionals</b>
3.2.1.1	Vestment Room (closed room)	1	Area with sink, cabinet for storing and dispensing PPE, hooks or hangers for aprons that will be reused during the work period, safe disposal area for PPE and clothes, when applicable.

Item	Environment	Quantity	Description/Remark/Requisition
3.2.1.2	Sample Reception Area	1	Table and/or counter and cabinet.  Consider point for camera connected to the CCTV system
3.2.1.3	Powerhouse	1	It should be close to the Clean Room. Consider a machine room for portable UPSs, compressors, with acoustic insulation to avoid vibrations in the laboratories and humidifiers necessary for the area. Consider point for camera connected to the CCTV system.
3.2.1.4	Clean room	1	To house ICP equipment - needs laminar flow exhaust system - positive pressure
3.2.1.5	Equipment Room 02	1	Equipment benches, separate room from the engine room.
3.2.1.6	Sample preparation room	1	Countertops with sink, common countertop and cabinets. Refrigerator and freezer for storing reagents and samples.
3.2.1.7	Hot room	1	Closed room, muffles
3.2.1.8	Material sanitization room	1	Room for conditioning and initial decontamination of dirty materials and sending to the CSSD. Sink, countertop and sinks.
3.2.1.9	Scale room (closed)	1	Anti-vibration tables
3.2.1.10	Technician/Calculation Room	1	Workstations for 7 Professionals. Also provide for cabinets
<b>3.2.2</b>	<b>Chromatography Laboratory</b> Minimum area of 300 m <sup>2</sup>	-	<b>Minimum reference: 300 m<sup>2</sup></b>
3.2.2.1	Vestment Room (closed room)	1	Area with sink, cabinet for storing and dispensing PPE, hooks or hangers for aprons that will be reused during the work period, safe disposal area for PPE and clothes, when applicable.
3.2.2.2	Sample Reception Area	1	Table and/or counter and cabinet.  Consider point for camera connected to the CCTV system

Item	Environment	Quantity	Description/Remark/Requisition
3.2.2.3	Sample preparation room	1	Countertops with sink, countertops for equipment, cabinets.
3.2.2.4	Chromatography Room	1	Bench for equipment, temperature and humidity control. Consider a machine room in the case of portable UPSs, compressors, vacuum pumps, with sound insulation and humidifiers necessary for the area. Consider point for camera connected to the CCTV system
3.2.2.5	LC-MS/MS Room + Engine Room (Closed Room)	1	Bench for equipment, temperature and humidity control. Consider a machine room in the case of portable UPSs, compressors, vacuum pumps, with sound insulation and humidifiers necessary for the area. Consider point for camera connected to the CCTV system
3.2.2.6	GC-MS/MS Room + Engine Room (Closed Room)	1	Bench for equipment, temperature and humidity control. Consider a machine room in the case of portable UPSs, compressors, vacuum pumps, with sound insulation and humidifiers necessary for the area. Consider point for camera connected to the CCTV system
3.2.2.7	Freezer room and refrigerators (closed room)	1	Temperature automation for freezers. Consider that the sockets in this environment should be connected to the generator
3.2.2.8	Scale room (closed room)	1	Anti-vibration tables
3.2.2.9	Pattern Room (Closed Room)	1	Needs to be closed
3.2.2.10	Extraction room	1	It can be a single hall, common countertops, countertop with sink, workstation
3.2.2.11	Sample Preparation Room	1	-
3.2.2.12	Technician room	1	Workstations for 10 Professionals. Also provide for cabinets
3.2.2.13	Cleaning Material Deposit (DML)	1 *	Have the necessary dimensions for: tank, drain to remove water from hygiene buckets, cabinet to store consumer products and space for the hygiene cart (119 x 058 x 110 cm). Hydraulic point for dilution of chemical products, window for ventilation and natural lighting.

Item	Environment	Quantity	Description/Remark/Requisition
3.2.2.14	Temporary Waste Shelter	1 *	Located in the units, it must be signposted and have washable, closed and ventilated wall coverings
3.2.2.15	Warehouse (for immediate use inputs)	1 *	Area and cabinets for temporary storage of inputs such as reagents, disposables, etc. (inputs to be used between two warehouse requisitions)
3.2.2.16	Cleanroom	1	Room for packaging and initial decontamination of dirty materials and sending to the CSSD. Sink, countertop and sinks. If the specialized chemistry platform is close to the product physical chemistry platform, the cleanrooms can be shared - It is recommended that these two platforms are close together. The area must follow the current regulations used in the architectural project.
<b>3.3</b>	<b>PHYSICO-CHEMICAL PLATFORM OF PRODUCTS</b> Minimum area of 600 m <sup>2</sup>	-	<b>Minimum reference: 600 m<sup>2</sup>22 Professional</b> Gases for the Platform: Nitrogen, Synthetic Air, Helium and LPG.
3.3.1	Vestment Area	1	Area with sink, cabinet for storing and dispensing PPE, hooks or hangers for aprons that will be reused during the work period, safe disposal area for PPE and clothes, when applicable.
3.3.2	Antechamber/Room with Wind Curtain	1	Antechamber with wind curtain to eliminate dirt carried by the technicians' clothing
3.3.3	Sample Reception Area	1	Table and/or counter and cabinet. Space for computer, refrigerator and freezer. Consider point for camera connected to the CCTV system
3.3.4	Sample Preparation Room - Macroscopic and Microscopic Analyses	1	Countertops with sink, mobile countertops for equipment
3.3.5	Scale room	1	Anti-vibration table for scale (should not be in the direction of the access door), countertop, cabinet
3.3.6	Microscopy Room	1	Countertops

Item	Environment	Quantity	Description/Remark/Requisition
3.3.7	Dark room for fluorescence microscopy (closed room)	1	Equipment benches, without window
3.3.8	Reference Material Room	1	Countertops and cabinets
3.3.9	Sample Preparation Room - Analysis of Cyanobacteria in Water (closed room)	1	Countertop with sink, refrigerator, cabinet, countertop for greenhouse and common countertop
3.3.10	Warehouse (for immediate use inputs)	1	Area and cabinets for temporary storage of supplies such as kits, disposables, etc. (supplies to be used between two warehouse requisitions)
3.3.11	Leadership Room and RTs	1	Workstations for 5 Professionals. Also provide for cabinets
3.3.12	Technician room	1	Workstations for 8 Professionals. Also provide for cabinets
3.3.13	Medicine room (closed room)	1	Countertop with sink and common countertops, cabinet suspended above the countertops
3.3.14	Freezers/refrigerators room (closed room)	1	Sockets connected to the generator
3.3.15	Washing/decontamination	1	Room for packaging and initial decontamination of dirty materials and sending to the CSSD. Sink, countertop and sinks. If the specialized chemistry platform is close to the product physical chemistry platform, the cleanrooms can be shared - It is recommended that these two platforms are close together.
3.3.16	Hot area (enclosed room)	1	Enclosed room - muffles, countertops for greenhouses and space for floor greenhouses
3.3.17	Weighing room	1	Countertop with sink and common countertops, cabinet suspended above the countertops
3.3.18	Allergen room (closed room)	1	Countertop with sink and common countertops, cabinet suspended above the countertops
3.3.19	Cleaning Material Deposit (DML)	1 *	Have the necessary dimensions for: tank, drain to remove water from hygiene buckets, cabinet to store consumer products and space for the hygiene cart (119 x 058 x 110 cm). Hydraulic point for dilution of chemical products, window for

Item	Environment	Quantity	Description/Remark/Requisition
			ventilation and natural lighting.
3.3.20	Temporary Waste Shelter	1 *	Located in the units, it must be signposted and have washable, closed and ventilated wall coverings
3.3.21	Warehouse	1 *	Area and cabinets for temporary storage of supplies such as kits, disposables, etc. (supplies to be used between two warehouse requisitions)
3.3.22	Equipment Room - Instrumental	1	"Benches for equipment Consider engine room in the case of portable UPSs, compressors, with acoustic insulation and humidifiers necessary for the area. Consider point for camera connected to the CCTV system"
<b>3.4</b>	<b>LABORATORIES – MICROBIOLOGY and MOLECULAR BIOLOGY OF Products minimum area of 700 m<sup>2</sup></b>	-	<b>Minimum reference: 700 m<sup>2</sup>19 Professionals</b> Gases for the Platform: Compressed Air and Carbon Dioxide.
3.4.1	Sample receiving area	1	Table and/or counter and cabinet. Space for computer, refrigerator and freezer. Consider point for camera connected to the CCTV system
3.4.2	Clean area classification C (Sterility Test) or Insulator (minimum area of 50 m <sup>2</sup> )	1	Minimum area of 50 m <sup>2</sup> . Room with humidity control 40- 80 RH, negative pressure, HEPA filter. Countertops with sinks and without sinks Space for deionizer  To be defined next to the Technology Park if Insulating Equipment will be purchased. If so, the room for the Sterility Test would not need to be provided.
3.4.3	Antechamber/Double Room for Vestments	1	It must have restricted access signs, negative pressure. Area with sink, cabinet for storing and dispensing PPE, hooks or hangers for aprons that will be reused during the work period, safe disposal area for PPE and clothes, when applicable.
3.4.4	DNA/RNA free room (Negative pressure)	1	Countertops
3.4.5	Endotoxin Room	1	Countertops and sink
3.4.6	Drug sample storage room	1	Temperature controlled and access control
3.4.7	Allergen room (DNA preparation/extraction)	1	Countertops

Item	Environment	Quantity	Description/Remark/Requisition
3.4.8	Amplification room	1	Countertops
3.4.9	Electrophoresis room	1	Countertops
3.4.10	Area for food analysis	1	Cabins, countertops, greenhouses and sink
3.4.11	Water analysis area	1	-
3.4.12	Area for analysis of medicines and health products	1	-
3.4.13	Area for cosmetics analysis	1	-
3.4.14	Automated equipment area	1	Equipment benches
3.4.15	Freezer/refrigerator room (closed room)	1	freezers and refrigerator and -80° C
3.4.16	Material washing and primary decontamination room	1	Countertops and sink
3.4.17	Technicians' room with computers	1	Workstations for 8 Professionals. Also provide for lockers. Must stay close to the analytics area
3.4.18	Leadership room and RTs	1	Workstations for 6 Professionals. Also provide for cabinets
3.4.19	Washing/decontamination	1	Room for packaging and initial decontamination of dirty materials and sending to the CSSD. Sink, countertop and sinks.
3.4.20	Cleaning Material Deposit (DML)	1 *	Have the necessary dimensions for: tank, drain to remove water from hygiene buckets, cabinet to store consumer products and space for the hygiene cart (119 x 058 x 110 cm). Hydraulic point for dilution of chemical products, window for ventilation and natural lighting.
3.4.21	Temporary Waste Shelter	1 *	Located in the units, it must be signposted and have washable, closed and ventilated wall coverings
3.4.22	Warehouse	1 *	Area and cabinets for temporary storage of supplies such as kits, disposables, etc.

Item	Environment	Quantity	Description/Remark/Requisition
			(supplies to be used between two warehouse requisitions)
<b>3.5</b>	<b>ANALYSIS AND LABELING SERVICE - CURRENCY</b> Minimum area of 100 m <sup>2</sup>	-	<b>Minimum reference: 100 m<sup>2</sup>07 Professionals.</b> Benchtop RFID antenna for material handling automation in the industry. Automation for product packaging and labeling. Sinks and furniture for storing documents and partial reports. Consider integration with systems for control and monitoring of Temperature and Humidity of the Environment. Refrigerators and automated equipment.
3.5.1	Vestment Area	1	Area with sink, cabinet for storing and dispensing PPE, hooks or hangers for aprons that will be reused during the work period, safe disposal area for PPE and clothes, when applicable.
3.5.2	Sample Reception Area	1	Table and/or counter and cabinet.
3.5.3	Labeling Analysis Area and administration	1	Workstations for 6 Professionals. Cabinets for storing documents, labels and packaging. Benchtop RFID antenna for material handling automation in the industry. Automation for product packaging and labeling. Sinks and furniture for storing documents and partial reports. Consider integration with systems for control and monitoring of Temperature and Humidity of the Environment. Refrigerators and automated equipment.
3.5.4	Packaging Analysis Area	1	Workstations for 1 Professional. Granite bench for analysis. Anti-vibrating table for scale. Area with sink.
3.5.5	Area for disposal of analyzed products	1	Countertop with sink
<b>4</b>	<b>CULTURE MEDIA AND SOLUTIONS PREPARATION CENTER</b> Minimum area of 350 m <sup>2</sup>	-	<b>Minimum reference: 350 m<sup>2</sup></b>
4.1	Administrative Room - Leadership/Coordination	1	1 workstation with computer
4.2	Administrative Room	1	4 workstations with computer
4.3	Vestment Area	1	Area with sink, cabinet for storing and dispensing PPE, hooks or hangers for aprons that will be reused during the work period, safe disposal area for PPE and clothes, when applicable.

Item	Environment	Quantity	Description/Remark/Requisition
4.4	Satellite Warehouse	1	Temporary storage of raw materials, inputs, glassware, disposables, reagents, railings, stainless steel boards. Laboratory temperature and humidity control.01 refrigerator ~400 L
4.5	Weighing Area	1	Special table for balance Control of laboratory temperature and humidity.03 balances: 02 semi-analytical and 01 analytical
4.6	Pre-production and Production Area	1	Hydration, Homogenization, PH adjustment, heating and distribution Laboratory temperature and humidity control. (purified water point, pH meter, magnetic stirrer, cooker, peristaltic pump)
4.7	Sterilization area	1	02 barrier autoclaves ~440 L.
4.8	Antechamber/Room for Vestments	1	Anteroom for aseptic chamber
4.9	Aseptic chamber	1	Pass through for passage of the autoclaved product. Control laboratory temperature, humidity and positive pressure. Equipment: laminar flow, automated culture medium preparers and distributors, coagulating serum, magnetic stirrer, pH meter, peristaltic pump, CO2 laser printer, oven, purified water point, vacuum pump, stomacher, 400 l cooler.  Cooling shelf  Purified water type II
4.10	Purge room	1	Dirty glassware
4.11	Post-production and Kit Assembly	1	Final processing (visual control, packaging and identification)01 refrigerator ~1,500 L - 3 doors2 workstations with computer and printer, benches Equipment: shrink tunnel (packaging plates and culture medium), sealer
4.12	Finished Product Warehouse	1	Culture medium ready for market and internal production, after release quality01 refrigerator ~1,500 L - 3 doors
4.13	Quality Control	1	2 workstations with computer

Item	Environment	Quantity	Description/Remark/Requisition
			Area for temporary archiving of batches and documents, and forwarding for definitive storage (box box) via FUNED
4.14	Sterility Room	1	Equipment: biological safety cabin, greenhouse, countertops, 01 400 L refrigerator, computer
4.15	Microbiology Room	1	Equipment: biological safety cabin, goat greenhouse, benches, microscope, 01 400 L refrigerator, 01 freezer, computer
4.16	Future Reference Room	1	PH visual analysis area and future reference, computer
4.17	Exit from the Central - Undressing	1	Evaluate with architectural design a proposal for distinct entrance/exit.
4.18	Place for strollers	1	Space for storage of transport trolleys
4.19	Cleaning Material Deposit (DML)	1 *	Have the necessary dimensions for: tank, drain to remove water from hygiene buckets, cabinet to store consumer products and space for the hygiene cart (119 x 058 x 110 cm). Hydraulic point for dilution of chemical products, window for ventilation and natural lighting.
4.20	Temporary Waste Shelter	1 *	Located in the units, it must be signposted and have washable, closed and ventilated wall coverings
4.21	Expedition	1	02 ~1,500 L refrigerators - 3 doors; computer, countertops, cabinets for storage of room temperature products
<b>5</b>	<b>ADMINISTRATIVE SUPPORT</b>	-	
<b>5.1</b>	<b>Board of Directors and Coordinators</b>	-	<b>38 professionals</b>
5.1.1	Living Area	1 *	Open environment for the waiting area of the board and pantry Depending on the architectural solution how it will be thought of per floor, but the ideal would be a central area
5.1.2	Reception/Waiting	1	01 job for receptionist/secretary.

Item	Environment	Quantity	Description/Remark/Requisition
			Open waiting area (sofa/06 seats), if not provided in the area above
5.1.3	Board of Directors - Director	1	01 workstation for director and meeting table for 06 seats
5.1.4	Board of Directors - Advisory	1	Attached to the Director's Office of the LACEN04 workstations
5.1.5	PPP contract management and supervision	1	02 jobs
5.1.6	DPGF - Planning, Management and Finance	1	20 workstations Include area for Operational Control: videowall for real-time monitoring and management of pre-defined parameters, monitoring of operation performance, etc.
5.1.7	Administrative Room - Coordination of the Quality Sector - QDIOM	1	01 workstations with individual computer
5.1.8	QDIOM Quality Sector - Team	1	Attached to the Coordinator's Room of the QDIOM06 workstations with individual computer.
5.1.9	Administrative Room - DECD Coordination	1	01 job post for coordinator
5.1.10	Administrative Room - DIVISA Coordination	1	01 job post for coordinator
5.1.11	Administrative Room - Coordination Support for Laboratory Surveillance	1	01 job post for coordinator
5.1.12	Situation Room	1	Meeting room with a team for crisis management, it must contain a TV Panel and a table for discussion (16 seats). TV panel with multiple screens for viewing/projecting information.
5.1.13	Cleaning Material Deposit (DML)	1 *	Have the necessary dimensions for: tank, drain to remove water from hygiene buckets, cabinet to store consumer products and space for the hygiene cart (119 x 058 x 110 cm). Hydraulic point for dilution of chemical products, window for ventilation and natural lighting.
<b>5.2</b>	<b>Meeting and training rooms</b>	-	They must be close to the administrative area

Item	Environment	Quantity	Description/Remark/Requisition
5.2.1	Meeting Room	2	Rooms for 12 seats each with TV Panel, with microcomputer and acoustic insulation.
5.2.2	Individual video conference room	2	Cabin for 02 people with 01 microcomputers, with acoustic insulation
<b>6</b>	<b>LOGISTICAL SUPPORT</b>	-	
<b>6.1</b>	<b>Central Sterile Services Department (CSSD)</b>	-	It will be consolidated with the CSSD of the Hospital Complex
<b>6.2</b>	<b>Computer and Data Center Sector</b>	-	Datacenter will be <b>shared</b> with the Hospital Complex
6.2.1	IT maintenance and service room	1	Outpost of the central structure to meet local demands, consider 2 workstations with benches of 1.60m each
<b>6.3</b>	<b>Comfort and Hygiene</b>	-	
6.3.1	Locker Room / Toilet Employees and Assistants - Female	1 *	With shower considering 1 for every 50 employees
6.3.2	Locker Room/Toilet for Employees and Assistants - Male	1 *	With shower considering 1 for every 50 employees
6.3.3	Staff belongings storage area	1 *	Environment with pocket hangers. Consider point for cameras connected to the CCTV system directed to the counter (delivery and receipt) and to the bins
6.3.4	Cleaning Material Deposit (DML)	1 *	Have the necessary dimensions for: tank, drain to remove water from hygiene buckets, cabinet to store consumer products and space for the hygiene cart (119 x 058 x 110 cm). Hydraulic point for dilution of chemical products, window for ventilation and natural lighting.
6.3.5	Temporary Waste Shelter	1 *	Located in the units, it must be signposted and have washable, closed and ventilated wall coverings
6.3.6	Temporary waste warehouse for Groups: A and E (infectious and sharp), B (chemical), D (common non-recyclable) and recyclable	1	Depending on the architectural project, if there is local collection at LACEN (ideal) you should consider the installation of a floor platform scale in the place of these rooms, which should be washable, ventilated and closed covering. The location should allow access for trucks for collection. The alternative of centralizing in the Complex will lead to an increase in the team to move solid waste several time a

Item	Environment	Quantity	Description/Remark/Requisition
			day in the LACEN to COMPLEXO flow.
<b>6.4</b>	<b>Nutrition and Dietetics</b>	-	Central structure in the Hospital Complex for meals for the professionals of the Hospital Complex and LACEN
<b>6.5</b>	<b>Hygiene sector</b>	-	can be shared with complex
6.5.1	Area for Sanitizing Collection Containers	1	This space must be contiguous to the waste room and must consider the existence of a water point, a siphoned drain inside the place, a washable wall and a storage for high-pressure washers
6.5.2	Cleaning Material Deposit (DML)	1 *	Have the necessary dimensions for: tank, drain to remove water from hygiene buckets, cabinet to store consumer products and space for the hygiene cart (119 x 058 x 110 cm). Hydraulic point for dilution of chemical products, window for ventilation and natural lighting.
6.5.3	Administrative Room - Coordination, Supervision and Outsourced Teams	1	Consider tables and chairs and time clock systems for third-party companies
6.5.4	Sanitizing Dilution Room	1	Consider water and energy point. The place must have restricted access and ventilation.
6.5.5	Cleaning Material Deposit (DML) - General	1	Space for storage of manned equipment, storage of cleaning equipment and PPE
6.5.6	Utensils storage room and weekly stock replenishment	1	Place for the storage of disposables that supply the units such as paper towels, soaps, toilet paper, alcohol gel and concentrated gallons of chemical products
<b>6.6</b>	<b>Clinical Engineering/Civil Engineering and Laboratory Technology Management</b>	-	Service in General will be <b>shared</b> , maintaining a minimum repair structure at LACEN for basic services.
6.6.1	Administrative Room - Coordination and Support	1	For Laboratory Equipment Control (Clinical Engineering) 2 working positions For Building Engineering control 2 working positions
6.6.2	Service room and workshop with decontamination/washing area	1	Maintain two benches for electronic maintenance. Compressed Air Point, Vacuum, Water

Item	Environment	Quantity	Description/Remark/Requisition
6.6.3	Area for storage of backup equipment and testing equipment, tools, materials and parts.	1	Shelf for centrifuge, microscope etc. Area for storing equipment that will leave or return from external maintenance.
6.6.4	Calibration and Control Laboratory	1	Location for equipment calibration (removal of services). Computer, Water, Countertop
<b>6.7</b>	<b>Security and Surveillance</b>	-	Central structure in the Hospital Complex for monitoring the Health Complex
6.7.1	Area for Identification of People and Vehicles	2 *	Depending on the architectural solution and entrances/exits of the Health Complex and LACEN. Consider point for camera connected to CCTV system Consider point for IoT for telemetry installation
6.7.2	Staff Access Control Area	1 *	Depending on the architectural solution and entrances/exits of the Health Complex and LACEN. Consider point for camera connected to CCTV system Consider point for IoT for telemetry installation
<b>6.8</b>	<b>Building maintenance sector</b>	-	Outpost of the central structure in the Hospital Complex to meet local demands
6.8.1	Area for storing materials and tools	1	Guard of basic tools and spare equipment (air conditioning, taps, etc.)
6.8.2	Maintenance room	1	General Services (HVAC, power, lighting, and other building systems). Consider Electrician Workbench, Mechanical Workbench. Approximately 40 m <sup>2</sup>
<b>6.9</b>	<b>Gardening sector</b>	-	Central structure in the Hospital Complex
<b>6.10</b>	<b>Occupational Safety Sector</b>	-	Central structure in the Hospital Complex
<b>6.11</b>	<b>Fire Safety Sector</b>	-	Central structure in the Hospital Complex
<b>6.12</b>	<b>Building Infrastructure</b>	-	These structures can be changed based on the engineering studies that will define whether structures will be exclusive to LACEN or shared with the Hospital Complex
6.12.1	PURIFIED WATER (reverse osmosis) production plant	1	Installations / Hydraulics Project identify rooms and equipment to be supplied by the plant. Consider control of the interconnected OR (Reverse Osmosis) Central

Item	Environment	Quantity	Description/Remark/Requisition
			Command Room.
6.12.2	Room for Equipment. of Alternative Power Generation	1	Control Consumption and Energy Supply in the Command Center
6.12.3	Room for Electrical Substation	1	Control Consumption and Energy Supply in the Command Center
6.12.4	Room for Energy Stabilization Systems and UPS	1	Control Consumption and Energy Supply in the Command Center
6.12.5	Technical Floor (Engine Room Elevators, Air Conditioning, Solar Energy) depending on the architectural solution	1	Consider point for camera connected to the CCTV system. Consider point to IoT for telemetry installation
6.12.6	House Pumps & Water Treatment System	1	
6.12.7	Area for storage and replacement of cylinders for specific equipment (ex: chromatograph) Acetylene, Oxygen, Helium, Argon, Nitrogen, Hydrogen and Synthetic Air.	1	RDC 50 and NBR 12188 standards.
6.12.8	Fire prevention and fighting systems	1	-
6.12.9	Laboratories' private exhaust systems	1	Complementary Air-Conditioning Project, to contemplate automation - pressure differential of the insufflation, return and exhaust systems with pressure differentials and flow control.
6.12.10	Air Conditioning Systems Central air conditioning	1	Depending on the project area for Chiller(s), and condensers (split/ VRVs/ etc.) - sensors and information from machines installed in the Command Center.
6.12.11	Air conditioning systems and control of cold storage areas/refrigerators	1	Automation temperature sensors in all refrigerators. Consider point for camera connected to the CCTV system, consider refrigerators connected to the generator
<b>6.13</b>	<b>Warehouse</b>	-	Central structure in the Hospital Complex
<b>6.14</b>	<b>Critical Systems Command, Monitoring and Control Center</b>	-	This center will be the only one located in the Hospital Complex serving Lacen and NEP, to optimize the investment and efficiency of the processes, with real-time monitoring by the respective managers.
<b>6.15</b>	<b>General/Shared Areas Hospital Complex</b>	-	

Item	Environment	Quantity	Description/Remark/Requisition
6.14.1	Uniform Clothing	1 *	There must be a laundry room at LACEN exclusively for aprons and clean private clothes received from the external laundry in cage-type carts
6.15.2	Transportation Administration	1 *	Central structure in the Hospital Complex
6.15.3	Administrative Room - Coordination of Outsourced Teams	1 *	The central structure must be in the Hospital Complex. A room for immediate leaders within LACEN with two jobs is needed.
6.15.4	Unserviceable Area	1 *	This area will be centralized in the Hospital Complex (including equipment) containing items that are no longer in use, awaiting donation or disposal that has already been written off from the operation and replaced
6.15.5	Logistics and transport sector (Ambulances, samples, people, materials, etc.)	1 *	Central structure in the Hospital Complex
6.15.6	Shelter for Dirty Clothes	1 *	The final shelter will be centralized in the Hospital Complex. Private clothes and aprons will be removed from Lacen's undressing disposal areas by the hygiene service, according to the established schedule, and transported to the final shelter of the Hospital Complex. Every 24 hours the clothes will be removed by the external laundry.
6.15.7	File Room	1	For the preparation and receipt of containers for the general state file. Must contain a workstation, desk, and sliding file
6.15.8	Official Driver's Room	1	Close to parking areas with a reception desk and toilets. Provide 01 workstation and waiting space with bins, sofa (06 seats) and TV.
-	<b>General Requirements for LACEN</b>	-	<p>Automatic Call Center: System for recording, monitoring and managing technical and maintenance calls.</p> <p>Notifications and Alerts: Automated systems for sending notifications and alerts in the event of equipment failures or other emergencies.</p> <p>Predictive Monitoring: Sensors to monitor equipment performance and predict</p>

Item	Environment	Quantity	Description/Remark/Requisition
			<p>failures before they occur.</p> <p>HVAC (Heating, Ventilation, and Air Conditioning): Automated systems to control temperature, humidity, and ventilation in different areas of LACEN. It should be noted that the characteristics of each platform/laboratory should be considered, in order to ensure ideal conditions for the operation of each one of them.</p> <p>Air Quality Monitoring: Sensors to measure and control air quality, especially in biosafety areas.</p> <p>Automated Lighting: Automatic lighting control based on occupancy and available daylight, saving energy.</p> <p>Emergency Lighting System: Automation to ensure that emergency lighting works during power failures.</p> <p>Smart Refrigerators and Freezers: Remote temperature monitoring and control, alerts for failures, and automatic temperature logs. Refrigerators and Freezers must be connected to the generator</p> <p>Automated Storage: Automated systems for inventory management, storage and withdrawal of reagents and samples.</p> <p>Consider shaft/technical rooms, which must hold at least one 42U rack, with space for front and rear maintenance for the allocation of telecommunications network distribution equipment, with 1 room for internet network entry (recommended near the entrance and easy access), 1 room for vertical distribution per building (block) and at least 1 room per floor for horizontal distribution.</p> <p>Suggestion of using aluminum rails with a partition for the passage of electrical cables and network over the benches from end to end, to facilitate expansions and additions of new equipment.</p> <p>Consider Ambient Temperature and Humidity Control and Automated Refrigerators.</p> <p>Consider cabling infrastructure for the installation of a Wi-Fi Access Point for a</p>

Item	Environment	Quantity	Description/Remark/Requisition
			<p>Wireless network throughout the complex, so that there is full coverage.</p> <p>Consider Cabling infrastructure for the installation of RFID antennas at building entrances and exits, warehouses, equipment storage room</p> <p>For all freezer/refrigerator rooms: RFID antenna on bench for automation of material movement in the unit.</p> <p>Consider engine room for central equipment (air conditioning, exhaust and generator)</p> <p>Utility Room: It must be provided with a bench with sink and a dump sink, with flush valve activation and 75 mm piping</p>
-	<b>General Requirements by Platform</b>	*	<p>1) The reception of samples in the Platform does not need to be a specific area, and can be evaluated as a bench in the laboratory hall, depending on the architectural solution.</p> <p>2) The workflows of the different laboratories should preferably be unidirectional and planned in order to optimize the use of the available space on each floor. This horizontality facilitates the maintenance of equipment and the unit, in addition to optimizing costs, reducing the repetition of environments and avoiding the crossing of flows.</p> <p>3) Benches for equipment and work in each laboratory. Movable bench with locks for all laboratories, to accommodate equipment and handling of samples and solutions. Preferably, the cabinets should be suspended, following the workbenches.</p> <p>4) For each platform, provide a cabin for 02 people with 01 microcomputer, with acoustic insulation.</p> <p>5) For each workstation, 1 complete desktop (microcomputer and monitor), 1 network point and recommendation of at least 4 ABNT standard electrical points per workstation must be designed.</p> <p>6) For all Warehouses, RFID antenna on bench and bookcase for automation of</p>

Item	Environment	Quantity	Description/Remark/Requisition
			material movement in the unit.
-	<b>Walking Requirements</b>	*	<p>1) Common area for socialization and rest of employees outside the laboratories, including pantry/place for water/coffee.</p> <p>2) Drinking fountains, in the minimum proportion of 1 unit for every 50 servers, on all floors, according to legislation</p> <p>3) Toilets</p> <p>4) Cleaning Material Deposit - DML (evaluate consolidation between platforms)</p> <p>5) Temporary shelter for waste. Waste must be collected daily on the platforms, and no temporary shelter is required on each platform. Evaluate the unification of the Shelter between the platforms on the same floor (e.g., Immunology, BioMol, Sequencing).</p> <p>6) Engine Room</p>
-	<b>Parking Lots</b>	-	<p>Number of parking lots (minimum of 140 parking lots)</p> <p>Fixed parking lots for 1 LACEN Director; and 2 for official vehicles</p>

### 3 NEEDS PLAN – EDUCATION AND CLINICAL RESEARCH CENTER (NEP)

#### 3.1 EDUCATION

Item	Environment	Quantity	Description/Remark/Requisition	Reference/Legislation/Standards
	<b>For the entire area of NEP – EDUCATION</b>		<p>IT: For each workstation, 1 complete desktop (microcomputer and monitor), 1 network point and recommendation of at least 4 ABNT standard electrical points per workstation must be designed.</p> <p>Workstations without desktop, with power source and access to the Wi-Fi network.</p> <p>Consider cabling infrastructure for the installation of Wi-Fi access points for wireless network throughout the complex, so that there is full coverage.</p> <p>Consider shaft/technical rooms, which must hold at least one 42U rack, with space for front and rear maintenance for the allocation of telecommunications network distribution equipment, with 1 room for internet network entry (recommended near the entrance and easy access), 1 room for vertical distribution per building (block) and at least 1 room per floor for horizontal distribution.</p> <p>Consider Cabling infrastructure for the installation of RFID antennas at building entrances and exits, warehouses, equipment storage room</p>	<p><b>ABNT 14565</b> <b>ABNT 5410</b></p>
<b>1</b>	<b>STAFF TRAINING AND TEACHING</b>			<p>This unique administrative structure ensures that medical and multiprofessional residency programs can be managed in an efficient and organized manner, providing an adequate support environment for residents, preceptors, and administrative staff.</p> <p><b>1. CNRM Resolution No. 01/2018:</b> Guidelines for the physical and administrative structure of medical residency programs.<b>2. MEC Guidelines:</b></p>

Item	Environment	Quantity	Description/Remark/Requisition	Reference/Legislation/Standards
				Standards for multiprofessional residency programs and in the professional area of health.3. <b>ANVISA's RDC 50/2002</b> : Infrastructure and operation requirements.4. <b>ABNT's NBR 9050/2020</b> : Accessibility to buildings, furniture, spaces and urban equipment.
1.1	Interactive classroom, meeting and conference rooms (20 seats)	2	Provide flexibility for the 2 rooms of 40 m <sup>2</sup> to be transformed into 4 rooms of 20 m <sup>2</sup> . Modular, comfortable and adjustable furniture to accommodate different scenarios and numbers of participants. In these environments, active teaching methodology will be applied.  Audio and Video Systems: Interactive displays, high-definition projectors, video conferencing and audio systems. Digital Whiteboard: For presentations and note-taking.1 workstation	
1.2	Computer Training Room	1	2 m <sup>2</sup> per student, plus additional space for instructor and circulation21 high-performance workstations, including 20 individual desks and chairs for students, and 1 table and space for teaching materials for instructor. Shared with Clinical Research.	
1.3	Health Technician Training Room/Skills Lab	1	1.3 m <sup>2</sup> per person (~10 to 15 students) Training Equipment: Anatomical models, procedure simulators, etc. Cabinets and Shelves: For material storage. Space for practice. Workstation and Projector for visual support.  Preferably close to (same floor) of the CSR.	
1.4	Video production room (studio)	1	Studio environment prepared with acoustic insulation for recording studio, control room and video editing room.	
1.5	Administrative Room - NEP (Teaching and Research Center)	1	Consider 12 job positions, including Teaching, Internship and Residency Coordination; Coordination of Permanent Education and Administrative Support.  Office Desks and Chairs. Cabinets and Shelves for organizing documents and materials.	

Item	Environment	Quantity	Description/Remark/Requisition	Reference/Legislation/Standards
1.6	Teacher Support Room	1	Office Desks and Chairs. 3 jobs	
1.7	Library and study space	1	Space for reading and collaborative study, with tables for shared use, which do not need equipment for consulting the digital collection. Bookshelves and Shelves: For organizing the collection 10 workstations for digital bibliographic access	
1.8	Crown	1	Pantry with equipment and utensils to support events	
1.9	Auditorium (200 seats)	1	Auditorium in inclined format. Adjustable chairs and with clipboards. Audio and Video System: Large screens, projectors, microphones, and speakers. LED Lighting: Adjustable for different types of events Accessibility Platform: Ramps and elevators for accessibility with external access with setback for boarding and disembarking, with marquee protection.	
1.10	Auditorium control room for audiovisual and video transmission equipment	1	The room must have a direct view of the stage, for lighting, audio and video control, in addition to having equipment for video transmission.	
1.11	Simultaneous Translation Booth	2	Soundproofed booths and audio control desk for simultaneous transmission	
1.12	Support room (dressing room) behind the auditorium stage with toilet	1	-	
1.13	Foyer Auditorium (200 seats)	1	Modular Buffet Tables: Adjustable for different events.	
1.14	Toilets for men's and women's buffet area	2	-	
1.15	Multipurpose Room - Research Ethics Committee (CEP)	1	Meeting Table and chairs Computers: For documentation and analysis. Cabinets and Shelves: For document storage. Confirm the need for this room and the items related to LACEN	
1.16	Residency Committee (COREME - Medical Residency Committee and COREMU - Multidisciplinary Residency Committee)	1	9 Workstations for program management with work desk and chairs for visitors. Multifunction Printer: Print, scan and copy. Cabinets and Shelves: For secure storage of digital and physical documents	
1.17	Toilets Employees and Students (men and women)	2	Countertops with Sinks for personal hygiene. Toilets in accordance with accessibility standards. Mirrors and Dispensers for soap, paper towels and other items. Efficient Ventilation System. Privacy Cabins with secure locks.	

Item	Environment	Quantity	Description/Remark/Requisition	Reference/Legislation/Standards
2	<b>REALISTIC SIMULATION CENTER - CSR</b>			<p>This unique administrative structure ensures that medical and multiprofessional residency programs can be managed in an efficient and organized manner, providing an adequate support environment for residents, preceptors, and administrative staff.</p> <p><b>1. CNRM Resolution No. 01/2018:</b> Guidelines for the physical and administrative structure of medical residency programs.<b>2. MEC Guidelines:</b> Standards for multiprofessional residency programs and in the professional area of health.<b>3. ANVISA's RDC 50/2002:</b> Infrastructure and operation requirements.<b>4. ABNT's NBR 9050/2020:</b> Accessibility to buildings, furniture, spaces and urban equipment.</p>
2.1	Reception and access control	1	Service desk / desk Visitor seating Workstation 01CFTVAsss Control System with cards or biometrics.	
2.2	CSR Team Room	1	Worktable and chairs for shared use.03 Workstations Cabinets for storage of materials. If the dolls are stored on site, the temperature of the environment should follow the manufacturer's guidelines.	
2.3	Realistic simulation room	3	Movable partitions to create different integrated scenarios. High Fidelity Simulators with advanced mannequins for simulations. Medical Equipment with monitors, defibrillators, ventilators and etc. Hospital Furniture with stretchers, hospital beds, auxiliary tables. Worktable for use in service and behavioral simulations.1 workstations and tablets for control and monitoring of simulations. Audio and Video System with cameras, microphones and speakers, and screens for transmitting content to support classes.	

Item	Environment	Quantity	Description/Remark/Requisition	Reference/Legislation/Standards
2.4	Men's and women's locker room	2	Change of clothes. Lockers for storing personal belongings (30 spaces), follow current legislation (NR 24).	
2.5	Video, audio and media control room integrated into the simulation room	3	1 high-performance workstation for recording control. Audio and Video System with recorders, cameras, microphones and speakers. Control desks and chairs equipped with all the necessary systems. Digital Whiteboard, for presentations and notes.	
2.7	Technical Components and Computer Room	1	Workbench and chairs: For maintenance and repair of equipment. Technical Equipment: Tools and spare parts. Electrical outlets: For supplying hospital medical equipment (batteries) Computer: For control and technical support. High-Speed Internet: Stable connection.	
2.7	Debriefing Room (on average 15 students)	3	Modular furniture for different simultaneous configurations, with integrated control and feedback systems. Workstation. Audio System with microphones and speakers.	
2.8	Storing and staging simulations	1	Shelves and Cabinets for storage of simulation materials. Workbenches for equipment preparation. Simulation Equipment various types for different practices. Workstation	
2.9	Warehouse	1	Shelves and Cabinets: For storage of materials. Inventory System: Digital and physical. Computer: For inventory control.	
2.10	Cleaning Material Deposit - DML	1	Have dimensions above RDC50 (1mx2m), with a tank with drain (to eliminate water from the buckets used in hygiene), a cabinet for consumer products and space for a hygiene cart (119 x 058 x 110 cm). Hydraulic point for dilution points of chemicals, window for ventilation and lighting in the area.	

### 3.2 CLINICAL RESEARCH

Item	Environment	Quantity	Description/Remark/Requisition	Reference/Legislation/Standards
1	<b>CLINICAL RESEARCH CENTER (Use by the Hospital Complex)</b>			<p>The details of the spaces in m2 must be observed in the standards as determined, the dimensioned by the engineer and architect of the hospital area, the facilities, among other information are obtained from RDC No. 50 of February 21, 2002, published in the DO of March 20, 2002; RDC No. 307 of November 14, 2002, published in the Official Gazette of November 18, 2002 and RDC No. 189 of July 18, 2003, published in the Official Gazette of July 21, 2003. Anvisa's RDC 44/2009 -</p> <p>Biosafety: Environmental conditions for hospital infection control must follow the standards of ANVISA and MS. - ABNT NBR 10.157 - ABNT NBR 10.004 - RDC Nº 222, OF MARCH 28</p> <p>Fire safety; indoor illuminance; acoustic control; medical gas systems; fluid-mechanical installations; sewage treatment system; health service waste treatment system - RSS, NBR standards must be followed.</p> <p>The standards already mentioned ABNT NBR ISO/IEC 17025:2005 and GLP - Good Laboratory Practices (INMETRO) should also be remembered and followed.</p>
1.1	Reception with secretariat and waiting room for research volunteers	1	Reception with secretariat - accommodates 1 bay with computer. Waiting room with stringers for 10 volunteers and companions, flow control of entry and exit.	
1.2	Room for Regulatory Documents and CRF Typists - <i>Case Report Form</i>	1	Hold 2 bays initially, for regulatory document personnel, and CRF (Case Report Form) typist. The room should contain several cabinets for storing essential regulatory documents. They can be double	

Item	Environment	Quantity	Description/Remark/Requisition	Reference/Legislation/Standards
			wooden cabinets, or sliding, with keys and digital or facial access control at the entrance door. This space, with a greater volume of research, will be able to accommodate 4 work bays in the future	
1.3	Monitoring Room	1	Accommodate 2 work bays and 1 table of 6 seats for monitoring, reception of inspectors in inspections and support in the handling of documents and hanging cabinets with keys for storing the monitors' belongings.	
1.4	Room for urgent and emergency care	1	Hold 1 bed, respirator, emergency car, defibrillator and monitor, bench for preparation of medication, and medical gases, nozzles or space for cylinders and hanging cabinets for storage of disposable material, sink.	
1.5	Room for previous exams such as ECG, vital signs, screening, biometrics, etc.	1	It is necessary to accommodate an office desk with a computer and a stretcher, ECG machine, and scale and hanging cabinet for supplies, and sink	
1.6	Exam collection and sample preparation room	1	Sink and 2 1.5 m boxes per box. With an area for classification and sample preparation (bench) and sample storage. It must accommodate normal and refrigerated centrifuges and 2 freezers at -20 °C and -80 °C, connected to the generator and suspended cabinets for collection kits	
1.7	Vaccine room	1	It must contain a sink, countertop, table and computer, and two armchairs/chairs for application	
<b>2</b>	<b>CHEMOTHERAPY PREPARATION ROOM</b>		<b>Preparation at the dilution center of the Hospital Complex, which reduces the cost of the research center because it avoids losses</b>	
2.1	Room for infusion chemotherapy and other medications.	1	This room must have a sink, a countertop for preparation, a table and computer and 4 armchairs for infusion, and dates for companions, gas burners or cylinders - each box must be separated by partitions and curtain in front and 1 stretcher for emergencies.	NORMS: RDC/ANVISA Nº 220/04 - Ordinance MS/SAS Nº 3.535/98 - RDC ANVISA Nº 36/2013 - Nurse in antineoplastic chemotherapy - ABNT Standard NBR - 7.500 - NBR nº5413 (ABNT, 1992) - Ordinance MS nº 1884/94 - ARCHITECTURAL PROGRAMMING OF FUNCTIONAL HEALTH UNITS Volume 1 - Outpatient Care and Immediate Care
<b>3</b>	<b>MEETING ROOM AND VOLUNTEER TRAINING</b>		<b>Use Teaching Area Room</b>	

Item	Environment	Quantity	Description/Remark/Requisition	Reference/Legislation/Standards
3.1	Call center room	1	Accommodate 3 bays with computers and with telephone line or Wi-Fi bridge	
3.2	Room for administrative sector	1	Hold 03 bays with computers and cabinets, few, since the documentation generated by this sector is small in relation to the area of regulatory documents.	
3.3	Financial Management Room	1	Accommodate 1 office desk with computer chairs, cabinet for documents in small quantity.	
<b>4</b>	<b>COMPUTER CENTER ROOM</b>		<b>The Computer Teaching Training Room (tab 1.1) will be used</b>	
<b>5</b>	<b>SUPPORT AREAS</b>			RDC No. 50/2002; RDC 44/2009; ABNT NBR 10.157 - ABNT NBR 10.004 - RDC N° 222, DE 28 DE MARÇO DE 2018
5.1	Medical offices	2	Hold desk and computer for doctor and patient and companion, and stretcher for examination and sink	
5.2	Room for the Pharmacy area	1	02 work bays, bench for separation, cabinets with secure closure for storing medicines, space for refrigerators with temperature control. The room with 24-hour air conditioning, climate control, and digital or facial access control. Thermolabiles: 23°C to 25°C maximum. Refrigerator for Immunobiologicals: 4°C to 8°C and Freezer -18°C to - 20°C (equipment connected to the generator)	
5.3	Cups, one for staff and one for patients	2	Pantry for the volunteer to have breakfast after collecting the exams for the research, and another for employees with coffee and water ( <b>food will be in the general cafeteria</b> )	
5.4	Cleaning material deposit (DML)	1	DML for this area, we recommend that it have dimensions above the RDC50 recommendation (1mx2m) because it must accommodate, in addition to the tank, the hygiene cart with dimensions of 119 x 058 x 110, a cabinet for storing consumer products. You should also consider the existence of a drain to remove water from buckets used in the hygiene of the environments.	
5.5	Utility room with dump sink	1	If there is temporary storage of solid waste, add 2m <sup>2</sup>	

Item	Environment	Quantity	Description/Remark/Requisition	Reference/Legislation/Standards
5.6	Area for sheltering Waste containers	1	Deposit with at least 2 boxes – Biological and common waste. Chemical waste deposit. Cleaning area for collection containers. ANVISA/MS technical regulation - health service waste management.	
5.7	Warehouse room	1	Space for storing basic material for employees and cleaning and hygiene solutions.	
5.8	Restrooms for employees - male and female	2	According to NR24 - Sanitary and comfort conditions in workplaces, from the Ministry. of Labor	
5.9	Male and female public toilets for volunteers and people with disabilities	3	Toilet for people with disabilities according to ABNT standard, near the waiting area	
5.10	Administrative Room - Clinical Research and Innovation	1	Consider 14 jobs, including Clinical Research, Researcher Support, Ethics Committee, and Health Research and Innovation.  Office Desks and Chairs. Cabinets and Shelves for organizing documents and materials.	