

<i>System Requirement</i>	<i>Rationale</i>	<i>Destination</i>	<i>Acceptance Criteria</i>	<i>Status</i>	<i>Result</i>
DI0001: The Ambulance shall have 4x4 capability.	To be able to go anywhere in the jungle.	Ambulance	Inspection: The car manufacturer's specification states 4x4 capability.		
DI0001: The Ambulance shall have 4x4 capability.	To be able to go anywhere in the jungle.	Ambulance	Demonstration: Test drive in difficult terrain.		
DI0003: The Ambulance shall be equipped and supplied in such a way that all items are safely stored.	To ensure the safety of the driver and all passengers.	Ambulance	Inspection: All specified equipment and supplies are safely stored in the operational ambulance vehicle.		
DI0004: The Ambulance shall be equipped and supplied in such a way that each of the following equipment can be taken out of the vehicle in less than 4 seconds: - Automatic defibrillator; - Communications equipment; - First Aid bag; and - Fire extinguisher.	To ensure patients can be helped as quickly as possible upon arrival of the ambulance.	Ambulance	Demonstration: The time needed to take out each of the enumerated items of the vehicle is less than 4 seconds.		
DI0005: The Ambulance shall provide sufficient seating for at least the driver and one additional person (medical or accompanying).	To enable transportation of accompanied patients who need continuous medical attention.	Ambulance	Inspection: Sufficient space and seating provision is provided.		
DI0006: The Ambulance shall comply with the national legislation in terms of road safety and registration, including for any modifications applied to the vehicle and for the transportation of patients.	To ensure legal operation of the ambulance and full insurance coverage.	Ambulance	Inspection: Specific national documentation is provided that is signed by the relevant authorities and the supplier.		
DI0007: The Ambulance shall be delivered with a technical warranty of not less than one year from the date of delivery.	To protect the Mahola system from unforeseen repair costs for a period of not less than one year.	Ambulance	Inspection: Specific documentation is provided that is signed by the supplier.		
DI0008: The Ambulance shall be delivered with the national MOT not older than one week.	To keep the Mahola system free from related administrative tasks and burdens for close to the maximum MOT cycle period.	Ambulance	Inspection: Specific national documentation is provided that is signed by the relevant authorities.		
DI0009: The Ambulance shall be equipped with a flat area of no less than 190cm x 80cm on the passenger side of the vehicle or behind the driver.	To enable the transportation of tall and large patients.	Ambulance	Inspection: Measurement of the required dimensions of the flat area.		
DI0010: The Ambulance shall be capable of using a standard, foldable, rollable ambulance bed to load, transport and off-load one patient at the time.	To enable the use of standard, foldable, rollable ambulance beds for the transportation of patients by ambulance and subsequently at the health centre.	Ambulance	Demonstration: Using the standard ambulance beds procured for the Mahola system, a volunteer is loaded, transported and off-loaded, pretending to be an unconscious patient.		
DI0013: The Ambulance shall be equipped and supplied as indicated in the EMC&S list.	To ensure that all needed equipment and supplies be always in the ambulance and available in case of an emergency.	Ambulance	Inspection: The fully equipped and supplied, operational ambulance contains all specified items.		
DI0159: The Ambulance shall be fitted with a winch.	To be able to go anywhere in the jungle and to move heavy items at an accident scene.	Ambulance	Inspection: The fitted winch is recorded in the relevant national documentation of the vehicle.		
DI0159: The Ambulance shall be fitted with a winch.	To be able to go anywhere in the jungle and to move heavy items at an accident scene.	Ambulance	Demonstration: Pulling the vehicle forward some meters by means of the winch.		
DI0205: The Ambulance shall run on Diesel fuel.	To increase the operational flexibility and endurance in case of shortages of fuel, including by being able to use the Diesel reserve fuel for the emergency generator.	Ambulance	Inspection: The car manufacturer's specification states that the ambulance runs on Diesel fuel.		
DI0014: The Health Centre shall be equipped and supplied as indicated in the EMC&S list.	To ensure that all needed equipment and supplies be available for the operation of the Mahola system, as intended.	Health Centre	Inspection: The fully equipped and supplied, operational health centre contains all specified items.		

DI0023: The foundation of the modular building shall consist of concrete that is strengthened by means of reinforcement bars.	To protect the structural integrity of the health centre.	Health Centre	Inspection: The metal reinforcement rods and mesh are in the correct position before pouring the concrete mix.		
DI0024: The foundation of the combined utility housing shall consist of concrete that is strengthened by means of reinforcement bars.	To protect the structural integrity of the combined utility housing.	Health Centre	Inspection: The metal reinforcement rods and mesh are in the correct position before pouring the concrete mix.		
DI0025: The foundation of the waste and recycling housing shall consist of concrete that is strengthened by means of reinforcement bars.	To protect the structural integrity of the waste and recycling housing.	Health Centre	Inspection: The metal reinforcement rods and mesh are in the correct position before pouring the concrete mix.		
DI0026: The heat transfer from the roof into the modular building shall be 50% or less of the heat transfer of a comparable, single sheet Aluminium roof, within the typical ambient temperature range of 25-35 degrees Celsius.	To reduce the temperature inside the modular building.	Health Centre	Analysis: Calculations of the expected heat transfers at 25, 30 and 35 degrees with an orthogonal sunshine exposure at average flux of the sun over a period of one hour indicate that the heat transfer from the roof transfer of the modular building is not less than 50% reduced compared to a typical, local, single sheet Aluminium roof.		
DI0027: The wooden support structure for the roof shall be protected against humidity.	To prevent humidity-induced rot.	Health Centre	Inspection: The design of the roof prevents direct exposure of the wooden roof structure to orthogonal rain fall.		
DI0028: The modular building shall provide 7 rooms of 7m x 7m surface i.a.w. the concept; including 1 reception and/or triage area room at one end of the building and 1 wet room with 4 toilets and 4 showers at the opposite end of the building (including at least one toilet and one shower that are suitable for people using a wheelchair).	To enable maintaining limited standard health centre operations even in case of a simultaneous outbreak of a Viral Haemorrhagic Fever (VHF) that requires the separation of up to 18 infected patients. To enable the use of the health centre by people using a wheelchair.	Health Centre	Inspection: The measures of the dimensions of each room of the modular building and the overall layout of the health centre are as designed; and a wheelchair fits into at least one of the shower cabins and at least one of the toilets.		
DI0029: The Health Centre, in case of an outbreak of a Viral Haemorrhagic Fever (VHF), shall be capable of providing (from left to right): - 1 screening room, - 1 laboratory and preparation room, - 3 isolation rooms for up to 6 patients each, - 1 staff accommodation room, and - 1 staff wet room in accordance with the recommendations on 'Ebola Outbreak Preparedness and Management' (Bruno BAERT, MSF, 2001).	To enable maintaining limited standard health centre operations even in case of a simultaneous outbreak of a Viral Haemorrhagic Fever that requires the separation of up to 18 infected patients. To allow for a separation of the high infectious area on the left and low infectious area on the right, while keeping the flexibility to extend the number of isolation rooms further to the right in case of an emergency. To reduce the need for rain gutter extension pipes to the rainwater collector unit.	Health Centre	Inspection: The measures of the dimensions of each room of the modular building and the overall layout of the health centre are as designed.		
DI0030: The Health Centre shall allow direct and smooth access by the ambulance to the triage and emergency area of the modular building.	To minimise the pain for the patient during transportation and reduce the time until the patient can receive treatment at the health centre.	Health Centre	Inspection: The ambulance access to and from the health centre, as well as the patient off-loading area of the health centre are as designed.		
DI0030: The Health Centre shall allow direct and smooth access by the ambulance to the triage and emergency area of the modular building.	To minimise the pain for the patient during transportation and reduce the time until the patient can receive treatment at the health centre.	Health Centre	Demonstration: A 4x4 vehicle can easily and smoothly access the patient off-loading area of the health centre.		
DI0031: The Health Centre shall be equipped with two cess pools: - One connected to the sinks and showers, and - One connected to the toilets.	To reduce the likelihood that both cess pools need maintenance and prevent that over-use of water from the showers and sinks will lead to flooding the cess pool that is linked to the toilets.	Health Centre	Demonstration: Water flows as intended from each branch of sewage piping to the relevant cess pool, before closing both cess pools and the sewage piping (if not yet fully installed).		

DI0032: The cess pools of the health centre shall have the standard recommended capacity.	To reduce the likelihood that the cess pools need maintenance.	Health Centre	Demonstration: Comparison of the design volume of each cess pool with a standard recommended volume of cess pools for the same nominal number of people.		
DI0033: The cess pools of the health centre shall be secured against accidents.	To avoid accidental injury or death of people or animals.	Health Centre	Inspection: Each cess pool is fully closed and cannot be opened without specific intent (by accident).		
DI0060: The Health Centre shall provide inside protection (modular building and housings) by means of mosquito nets.	To protect staff, patients and visitors inside the health centre from insects, and thereby reduce cases of mosquito transmitted diseases such as malaria.	Health Centre	Inspection: Each open surface is fully covered by mosquito nets and the nets are appropriately fitted.		
DI0061: The Health Centre shall reduce opportunities for mosquitos to breed by: - Protecting the access to the rain water and drinking water reservoir tanks, - Preventing areas of water spillage from the rain gutters, - Ensuring that the rain water tanks, pipes and connectors be water tight; - Ensuring that the drinking water well be closed off, and - Ensuring that connected pipes, pump and water reservoir be water tight.	To reduce cases of mosquito transmitted diseases such as malaria.	Health Centre	Inspection: The stated prevention measures have been put in place in an effective manner.		
DI0062: The housing for the waste and recycling bins shall protect the bins from animals.	To protect people and animals from being hurt.	Health Centre	Inspection: The waste and recycling housing is fully closed off and does not have any remaining openings that would allow animals to enter.		
DI0063: The Health Centre (including the rooms therein) shall be accessible by means of a wheelchair or ambulance bed.	To enable easy access to all rooms by people using a wheelchair or ambulance bed.	Health Centre	Demonstration: Both a standard wheelchair and an ambulance bed can be pushed into every room and onto the paths that connect the health centre buildings (including the associated housings).		
DI0064: The Health Centre shall be equipped with lockable doors.	To protect key equipment and supplies from theft and misuse.	Health Centre	Inspection: All lockable doors i.a.w. the design are fitted with suitable security locks, and can be locked by means of a key that is in the possession of staff.		
DI0065: The Health Centre shall be equipped with additional means to secure high value equipment and supplies, as well as confidential information inside lockable rooms.	To protect key equipment and supplies from theft and misuse.	Health Centre	Inspection: Additional means to secure such equipment, supplies and confidential information are installed or available.		
DI0066: The Health Centre shall include one modular building i.a.w. the concept.	To keep the Mahola system flexible and collocate staff and patients in the same building. To reduce the size of the health centre and thereby the impact on the traditional way of life.	Health Centre	Inspection: The overall layout of the health centre is i.a.w. the design and contains only one modular building for patients and staff.		
DI0067: The modular building shall be connected to the combined housing for utilities regarding running drinking water and electricity.	To keep the batteries, water pump, drinking water reservoir, reserve fuel and back-up generator at a distance from the modular building, thereby minimising health and safety risks, as well as disturbances of patients.	Health Centre	Inspection: The cables and pipes that connect the modular building with the combined utilities housing are implemented i.a.w. the design.		
DI0068: Each room of the modular building shall be served with running drinking water.	To increase hygiene and comfort for patients, visitors and staff.	Health Centre	Demonstration: Each tap and each sink in each room works.		
DI0069: Each room of the modular building, except the wet rooms, shall have installed two double electrical sockets.	To increase the comfort of patients, visitors and staff. To enable charging telecommunication devices (e.g. mobile phones and tablets), as well as power computers, additional lights, televisions and fridges.	Health Centre	Demonstration: Each electrical socket works.		

DI0070: The Health Centre shall be equipped with energy saving lighting: - Inside each room (including the combined utility housing); - Outside the modular building and the combined utility housing; and - Along the paths connecting the modular building and both housings.	To reduce energy consumption, while being able to light all inside and outside areas of the health centre sufficiently.	Health Centre	Inspection: Only energy saving light bulbs are used for each inside and outside light of the health centre.		
DI0070: The Health Centre shall be equipped with energy saving lighting: - Inside each room (including the combined utility housing); - Outside the modular building and the combined utility housing; and - Along the paths connecting the modular building and both housings.	To reduce energy consumption, while being able to light all inside and outside areas of the health centre sufficiently.	Health Centre	Demonstration: Each room, the outside of the modular building and each housing, as well as the paths connecting the different housings and the building of the health centre are well light in the dark.		
DI0071: The modular building shall be fitted with a roof over the loading/off-loading area for the ambulance (in front of the triage and emergency areas of the building).	To enable off-loading of patients without getting the patient or the staff members wet.	Health Centre	Inspection: The modular building in the off-loading area is i.a.w. the design.		
DI0072: The combined housing for utilities shall ensure by its design (materials, layout and construction) that flammable materials (e.g. fuel, wood) be kept at a safe distance or otherwise protected from heat sources (e.g. generator, solar energy storage).	To prevent the risk of fire or explosion.	Health Centre	Analysis: As part of the design, an explicit analysis is made and recorded in the description of the Technical Drawings.		
DI0072: The combined housing for utilities shall ensure by its design (materials, layout and construction) that flammable materials (e.g. fuel, wood) be kept at a safe distance or otherwise protected from heat sources (e.g. generator, solar energy storage).	To prevent the risk of fire or explosion.	Health Centre	Inspection: The layout of the combined utility housing is i.a.w. the design.		
DI0073: The solar energy storage equipment shall be fitted in the combined housing for utilities.	To prevent any negative impact on the health of the patients, visitors and/or staff members.	Health Centre	Inspection: The solar energy storage equipment is fitted in the combined utility housing i.a.w. the design.		
DI0074: The modular building shall be fitted with a rain water collector including rain gutters and a rain water reservoir.	To reduce the environmental impact of the health centre.	Health Centre	Inspection: The Rain water collector including rain gutters and rain water reservoir is fitted i.a.w. the design.		
DI0075: The rain water reservoir shall be connected to the toilet flushes and an outside tap of the modular building.	To reduce the environmental impact of the health centre.	Health Centre	Inspection: The Rain water collector including rain gutters and rain water reservoir is fitted i.a.w. the design.		
DI0075: The rain water reservoir shall be connected to the toilet flushes and an outside tap of the modular building.	To reduce the environmental impact of the health centre.	Health Centre	Demonstration: Each toilet flushes and the outside tap works.		
DI0076: The modular building shall be fitted with a separated used water evacuation for: - the toilets; and - for the sinks and showers.	To reduce the likelihood that both cess pools need maintenance and prevent that over-use of water from the showers and sinks will lead to flooding the cess pool that is linked to the toilets.	Health Centre	Inspection: Both branches of sewage piping are installed i.a.w. the design.		
DI0076: The modular building shall be fitted with a separated used water evacuation for: - the toilets; and - for the sinks and showers.	To reduce the likelihood that both cess pools need maintenance and prevent that over-use of water from the showers and sinks will lead to flooding the cess pool that is linked to the toilets.	Health Centre	Demonstration: Water flows as intended from each branch of sewage piping to the relevant cess pool, before closing both cess pools and the sewage piping (if not yet fully installed).		

DI0077: The Health Centre shall include a housing for central waste disposal and recycling, located in the vicinity of the modular building and next to the path between Siliyegue and Nguimakong.	To facilitate the pick-up of recyclables and non-recyclable, non-bio waste.	Health Centre	Inspection: The implementation is i.a.w. the design.		
DI0078: The Health Centre shall include a combined housing for utilities (water, fuel and electricity provision).	To improve the quality of life of patients and staff in the modular building of the health centre.	Health Centre	Inspection: The implementation is i.a.w. the design.		
DI0079: The combined housing for utilities shall protect and integrate the following: - Drinking water pump; - Drinking water reservoir; - Solar energy storage equipment; - Back-up generator; - Fuel supply for back-up generator and ambulance (Diesel); as well as necessary pipes, connectors, cables, meters and lighting.	To improve the quality of life of patients and staff in the modular building of the health centre.	Health Centre	Inspection: The implementation is i.a.w. the design.		
DI0080: The combined housing for utilities shall be sufficiently aired for the back-up generator and the solar energy storage equipment.	To protect the staff members who are handling maintenance and repair activities within the combined utility housing.	Health Centre	Inspection: The implementation is i.a.w. the design.		
DI0081: The combined housing for utilities shall ensure that all electrical components and the back-up generator be protected from humidity.	To protect the equipment and enhance their operational effectiveness.	Health Centre	Inspection: The implementation is i.a.w. the design.		
DI0082: The combined housing for utilities shall ensure that the compartment for the back-up generator be noise insulated.	To improve the quality of life of patients and staff in the modular building of the health centre.	Health Centre	Inspection: The implementation is i.a.w. the design.		
DI0083: The combined housing for utilities shall include an elevated drinking water reservoir.	To ensure sufficient water pressure for the provision of running drinking water to the health centre and the main houses of Siliyegue.	Health Centre	Inspection: The implementation is i.a.w. the design.		
DI0084: The Health Centre shall protect all buildings, surfaces and housings against erosion.	To protect the structural integrity of the health centre, and keep its outside appearance pleasant, for the benefit of patients, visitors and staff alike.	Health Centre	Inspection: The implementation is i.a.w. the design.		
DI0085: The Health Centre shall include a well in the vicinity of the health centre that is capable of providing up to 10m ³ /day of drinking water.	To provide the nominal volume of drinking water that is recommended for up to 18 vhf patients and staff.	Health Centre	Analysis: The expected daily drinking water provision is realistic over the entire year.		
DI0086: The Health Centre shall include a drinking water reservoir with a minimum capacity of 10m ³ .	To provide the nominal volume of drinking water that is recommended for up to 18 vhf patients and staff.	Health Centre	Inspection: The implementation is i.a.w. the design.		
DI0087: The Health Centre shall include a drinking water pump that is capable of pumping drinking water from the well into the drinking water reservoir at a minimum performance of 10m ³ /day.	To provide the nominal volume of drinking water that is recommended for up to 18 vhf patients and staff.	Health Centre	Inspection: The pump manufacturer's documentation states this performance.		
DI0088: The well shall be closed off by means of a concrete lid.	To protect the local population and animals from falling into the well; and to ensure the quality of the drinking water.	Health Centre	Inspection: The well is closed off by means of a concrete lid.		
DI0089: The water reservoir shall be accessible for cleaning and maintenance.	To ensure the quality of the drinking water over time.	Health Centre	Inspection: The implementation is i.a.w. the design.		

DI0090: The sewage installations shall prevent bad odour from the sewage pipes and cess pools.	To improve the quality of life of patients and staff in the modular building of the health centre.	Health Centre	Inspection: The implementation is i.a.w. the design.		
DI0090: The sewage installations shall prevent bad odour from the sewage pipes and cess pools.	To improve the quality of life of patients and staff in the modular building of the health centre.	Health Centre	Demonstration: There is no bad odour at the sinks, showers and toilets, after the facilities have been used for at least one week.		
DI0091: The Health Centre, in case of water shortage, shall have priority over the general water distribution network.	To ensure on-going operation of the health centre.	Health Centre	Analysis: As part of the design, an explicit analysis is made and recorded in the description of the Technical Drawings.		
DI0091: The Health Centre, in case of water shortage, shall have priority over the general water distribution network.	To ensure on-going operation of the health centre.	Health Centre	Inspection: The implementation is i.a.w. the design.		
DI0092: The Health Centre, in case of electricity shortage, shall have priority over the general electricity distribution network.	To ensure on-going operation of the health centre.	Health Centre	Analysis: As part of the design, an explicit analysis is made and recorded in the description of the Technical Drawings.		
DI0092: The Health Centre, in case of electricity shortage, shall have priority over the general electricity distribution network.	To ensure on-going operation of the health centre.	Health Centre	Inspection: The implementation is i.a.w. the design.		
DI0093: The Health Centre, in case of electricity shortage, shall provide back-up electricity by means of the back-up generator for the health centre only.	To ensure on-going operation of the health centre.	Health Centre	Analysis: As part of the design, an explicit analysis is made and recorded in the description of the Technical Drawings.		
DI0093: The Health Centre, in case of electricity shortage, shall provide back-up electricity by means of the back-up generator for the health centre only.	To ensure on-going operation of the health centre.	Health Centre	Inspection: The implementation is i.a.w. the design.		
DI0094: The Health Centre shall enable the (future) connection to the state electricity grid.	To ensure on-going operation of the health centre.	Health Centre	Inspection: The implementation is i.a.w. the design.		
DI0095: The solar panels shall be connected to the solar energy storage equipment of the health centre.	To provide green solar energy.	Health Centre	Inspection: The implementation is i.a.w. the design.		
DI0096: The Health Centre shall be fitted with solar panels on top of the modular building.	To provide green solar energy.	Health Centre	Inspection: The implementation is i.a.w. the design.		
DI0098: The Health Centre shall provide the necessary solar energy to continuously power no less than: - 2 laptop computers; - 10 tablets; - 10 mobile phones; - the external lighting; - the internal lighting; and - 1 fridge.	To enable on-going operation of the Mahola system. To provide green energy.	Health Centre	Analysis: Calculation of expected local consume versus expected local production of solar energy. As part of the design, an explicit analysis is made and recorded in the description of the Technical Drawings.		
DI0099: The solar energy sub-system shall be electronically controlled so as to maximise the battery life, while meeting the operational requirements for utilisations ranging from 0-100%.	To increase the endurance of the Mahola system; and reduce operational costs related to the replacement of batteries.	Health Centre	Analysis: Calculation of expected scenarios and simulation of expected battery life. As part of the design, an explicit analysis is made and recorded in the description of the Technical Drawings.		
DI0100: The solar energy storage equipment shall be accessible for maintenance.	To ensure on-going operation of the Mahola system.	Health Centre	Inspection: The implementation is i.a.w. the design.		
DI0101: The solar panels shall be maintenance free.	To contribute to on-going and efficient operation of the Mahola system.	Health Centre	Inspection: The solar panel manufacturer's documentation states that the panels are maintenance free.		
DI0103: The housing for waste disposal and recycling shall integrate the bins specified in the EMC&S list.	To protect the bins from wild animals.	Health Centre	Inspection: The implementation is i.a.w. the design.		
DI0104: The Health Centre shall make use of locally produced and environmentally friendly materials.	To minimise the environmental impact of the Mahola system.	Health Centre	Inspection: Review of all materials, components and supplies in the EMC&S list. Any exceptions are justified in the list.		

DI0012: The First Aid Network shall be equipped and supplied as indicated in the EMC&S list.	To enable the First Aiders to perform their roles.	Governance	Inspection: A corresponding list of signatures of active First Aiders, countersigned by a relevant employee of the health care system is available.		
DI0021: The Ambulance, following the purchase, shall subsequently continue to comply with the national legislation in terms of: - Registration; - Tax; - Insurance; - MOT; and - Certification of any future modifications, including for the transportation of patients.	To enable the continuous operation of the ambulance.	Governance	Inspection: All necessary documentation of the ambulance is up-to-date and compliant (including payment evidence for bills and signed documents as required).		
DI0022: The Ambulance, during nominal operation, shall be kept above 50% fuel capacity at all times.	To enable urgent transport of patients in a critical state to a hospital in the capital Yaoundé. To enable on-going operations of the Mahola system, even in times of fuel shortages or emergencies.	Governance	Inspection: A checklist for the Ambulance Drivers is put in place that includes the check of the fuel level.		
DI0022: The Ambulance, during nominal operation, shall be kept above 50% fuel capacity at all times.	To enable urgent transport of patients in a critical state to a hospital in the capital Yaoundé. To enable on-going operations of the Mahola system, even in times of fuel shortages or emergencies.	Governance	Inspection: Over a period of one to two weeks, at unannounced points in time (but not in cases of an emergency), the fuel level is each time above 50% fuel capacity.		
DI0035: The Health Care System shall have a 'Child Protection and Safeguarding Policy' i.a.w. http://www.miseancara.ie/child_protection_policy.html and the Child Protection and Safeguarding Children Assessment Checklist (see MSS pack).	To be compliant with one of the example governmental bodies that may provide funding.	Governance	Inspection: The Mahola Child Protection & Safeguarding Policy reflects this checklist.		
DI0036: The Health Care System shall review and sign off its 'Child Protection and Safeguarding Policy' yearly.	To foster continuous improvement and ensure buy-in of the Steering Committee.	Governance	Inspection: The Mahola Child Protection & Safeguarding Policy reflects this requirement.		
DI0037: The Health Care System shall have a designated 'Child Protection and Safeguarding Officer'.	To foster continuous improvement and ensure adequate leadership regarding this topic.	Governance	Inspection: The Mahola Child Protection & Safeguarding Policy reflects this requirement.		
DI0038: The Health Centre shall be staffed with no less than 1 person during normal operations.	To ensure that there is always some help available for the local population. To ensure safeguarding of patients.	Governance	Inspection: The duty rota shows 24 hours a day, 7 days a week coverage by at least one person.		
DI0040: The Health Care System shall establish and maintain insurance of the Health Centre and the Ambulance against theft, accidents, liabilities, legal disputes, vandalism and weather related damage.	To protect the Mahola system from unexpected costs to replace facilities, equipment, components and supplies; or to cover the costs of legal disputes.	Governance	Inspection: The available insurance documentation is securely stored, it covers all required cases and objects; and it is up-to-date and signed with payment evidence available. The following aspects of the health centre are included: the modular building and combined utility housing, water and electricity installations (including generator, solar panels, cables, connectors, switches, batteries, water pipes, pipe connectors, pumps and taps), all contents of the modular building, the waste and recycling housing and bins.		
DI0041: The Health Care System shall establish and implement the following policies: - Child Protection & Safeguarding; - Security; - Health & Safety; - Environmental Protection; and - Ethics & Compliance (including equal opportunities, bribery, fraud, and corruption aspects).	To enforce strategic improvements for the benefit of the local population in general and the members and users of the Mahola system's in particular. To enable funding by governmental bodies and/or companies.	Governance	Inspection: All required policies are present and have been signed by the Nominated Officer (as Owner), the Project Leader (until the closure of the project) and the Local Coordinator (both as Approvers), and the Chairman/woman of the Local Steering Committee on behalf of the elected Steering Committee (as Authoriser).		

DI0041: The Health Care System shall establish and implement the following policies: - Child Protection & Safeguarding; - Security; - Health & Safety; - Environmental Protection; and - Ethics & Compliance (including equal opportunities, bribery, fraud, and corruption aspects).	To enforce strategic improvements for the benefit of the local population in general and the members and users of the Mahola system's in particular. To enable funding by governmental bodies and/or companies.	Governance	Demonstration: The implementation (even if not completed) of each Policy is explained and demonstrated by the relevant Nominated Officer.		
DI0042: The Health Care System shall monitor and control its operations.	To enable the Mahola system to legally and sustainably operate and control its operations.	Governance	Inspection: All governance documentation as well as the use of dedicated apps as part of the IT Solution is reviewed and assessed. All related documentation is signed off and implemented.		
DI0042: The Health Care System shall monitor and control its operations.	To enable the Mahola system to legally and sustainably operate and control its operations.	Governance	Demonstration: Series of realistic exercises, i.e. prepared scenarios with all staff members and First Aiders participating (part of the latter are to play multiple patients and visitors, and part of them to act as First Aiders).		
DI0043: The Health Care System shall establish and maintain the following documentation: - Health Care System Description (including all system elements at high level); - Detailed process descriptions; - Detailed role descriptions; - Detailed overview of personnel including their development as completed and planned for the future; - Current and past work contracts; - Financial accounts of the Health Care System; - Detailed plans of all facilities (modular building, housings, surfaces) including water, lighting and electricity installations plus corresponding records of modifications and maintenance or repair work; - Detailed journal of the ambulance vehicle, including insurance, MOT, tax and service records; and - Detailed plans of the electricity and water distribution networks plus corresponding records of modifications, maintenance or	To enable the Mahola system to legally and sustainably operate and control its operations.	Governance	Inspection: All required documentation is available, securely stored, up-to-date and without gaps (or gaps are identified and concrete actions to close these gaps have been decided and recorded).		
DI0044: The Health Care System shall generate the following reports: - Yearly reports; - Quarterly reports; - Specific reports as requested by donor organisations; and - on demand reports on specific issues.	To enhance decision-making by the Steering Committee and enable awareness and fundraising activities both during the Mahola project and after its closure.	Governance	Inspection: All past reports are available and have been communicated as requested.		
DI0046: The Health Care System shall ensure that the following roles can be performed 24/7 by at least one qualified person: - Ambulance driver (and First Aider); and - Nurse or mid-wife at the health centre.	To ensure a minimum level of health care services all the time.	Governance	Inspection: The duty rota is available and states that this level of staffing is planned for; including back up personnel in case of unforeseen unavailability of staff.		
DI0048: The Health Care System shall ensure that 100l of back-up fuel (Diesel) be kept in the combined utilities housing (for use by the Ambulance vehicle or the back-up generator).	To enable on-going operations of the Mahola system, even in times of fuel shortages or emergencies.	Governance	Inspection: 100l back-up fuel (Diesel) is securely and safely kept in the combined utility housing.		
DI0049: The Health Care System shall ensure that each role that is defined in the processes be performed by qualified personnel.	To enable legal operation of the Mahola system; and to invest in the staff (both employees and volunteers).	Governance	Inspection: For each staff member there is a clear trace of his/her qualifications and additional training received, which satisfies at least the qualification requirements for the role(s) performed within the Mahola system.		

DI0050: The Health Care System shall ensure that the equipment, materials, components and supplies indicated in the EMC&S list be purchased, securely and safely stored and used as needed.	To enable the legal operation of the Mahola system; and to protect its financial position.	Governance	Inspection: The EMC&S list is available, up-to-date, and any purchases have been traced and recorded.		
DI0050: The Health Care System shall ensure that the equipment, materials, components and supplies indicated in the EMC&S list be purchased, securely and safely stored and used as needed.	To enable the legal operation of the Mahola system; and to protect its financial position.	Governance	Demonstration: Item on the EMC&S list, if not yet used, are securely and safely stored.		
DI0051: The Health Care System shall ensure that for each patient a file be created, maintained over time and protected (against both data loss and unauthorised access).	To enable the legal operation of the Mahola system; to follow up the medical history of each patient; and to protect the related data.	Governance	Inspection: For each patient there is a complete and up-to-date file available and securely stored.		
DI0051: The Health Care System shall ensure that for each patient a file be created, maintained over time and protected (against both data loss and unauthorised access).	To enable the legal operation of the Mahola system; to follow up the medical history of each patient; and to protect the related data.	Governance	Demonstration: The access to patient data is protected.		
DI0052: The Health Care System shall implement the recommendations on 'Ebola Outbreak Preparedness and Management' (Bruno BAERT, MSF, 2001) in terms of its: - Procedures and Policies, - Contingency plans and checklists, - Equipment and Supplies, - Training and qualification of its personnel and extended health care network.	To enable the Mahola system to cope with cases of Ebola or similar VHF.	Governance	Inspection: Evidence of the implementation of the recommendations is available.		
DI0054: The Health Care System shall establish, deliver and maintain the following training modules: - Health & Safety Awareness; - First Aid Awareness; - Environmental Protection Awareness; - Policies (HCS); - Processes (HCS); and - First Aid.	To enable legal and effective operation of the Mahola system.	Governance	Inspection: Corresponding training material is available and up-to-date; and sessions are planned in advance.		
DI0055: The Health Care System shall establish and maintain a network of First Aiders in the region.	To enable effective operation of the Mahola system.	Governance	Inspection: Corresponding documentation is available, including the list of names of the selected First Aiders, contact details, and an overview of training and equipment received.		
DI0056: The Health Care System shall continuously develop all personnel in line with the needs and the individual aspirations of each employee.	To invest in the members of the Mahola system and increase their motivation and self-development.	Governance	Inspection: Corresponding documentation is available and up-to-date.		
DI0057: The Health Care System shall recruit qualified employees as needed to operate the system.	To enable legal and effective operation of the Mahola system.	Governance	Inspection: Corresponding documentation is available and up-to-date.		
DI0058: The Health Care System shall describe and implement the processes identified in the HCS process architecture.	To enable effective operation of the Mahola system.	Governance	Inspection: Corresponding documentation is available and up-to-date.		
DI0059: The Health Care System shall describe and implement the following roles: nurse, mid-wife, ambulance driver, first aider, janitor, cleaner and administrator.	To enable effective operation of the Mahola system.	Governance	Inspection: Corresponding documentation is available and up-to-date.		

DIO161: The Health Care System shall include a COTS ICT solution including tablets and specific applications that enable the Mahola processes and roles.	To enhance secure and collaborative coordination and self-management of the members of the Mahola system, support in diagnostics and treatment, ordering supplies, reporting, presentations and teaching activities, as well as participation in distance studies such as further education programmes via MOOCs.	Governance	Demonstration: Multiple users playing different generic roles can go through the collaborative apps to follow the defined processes as appropriate.		
DIO161: The Health Care System shall include a COTS ICT solution including tablets and specific applications that enable the Mahola processes and roles.	To enhance secure and collaborative coordination and self-management of the members of the Mahola system, support in diagnostics and treatment, ordering supplies, reporting, presentations and teaching activities, as well as participation in distance studies such as further education programmes via MOOCs.	Governance	Demonstration: Internet access is available, and videos from YouTube can be played.		
DIO242: The Health Care System shall implement systematic vaccinations i.a.w. the national and WHO guidelines and recommendations.	To prevent illnesses or reduce their effect on the quality of life of the local population.	Governance	Inspection: Corresponding documentation is available and up-to-date.		
DIO243: The Health Care System, when necessary diagnosis or treatment of patients lies beyond the local capacity or capabilities, shall secure the referral and transportation of patients to a relevant specialist.	To ensure help is provided to patients that cannot be diagnosed or treated appropriately locally.	Governance	Inspection: Corresponding documentation is available and up-to-date.		
DIO244: The Health Care System shall define and implement a strategy for the early identification of cancer patients among the local population.	To increase the survivability of cancer by early detection.	Governance	Inspection: Corresponding documentation is available and up-to-date.		
DIO245: The Health Care System shall offer mental health care services.	To reduce the number of cases of addiction and support patients who suffer from mental health issues.	Governance	Inspection: Corresponding documentation is available and up-to-date.		
DIO011: The Health Care System shall establish, operationally integrate, and follow up the following bursaries: - bursaries to become a nurse (UCAC); - bursaries to become a mid-wife (UCAC); - bursaries for secondary education.	To invest in the professional education of future employees of the Mahola system, and provide the necessary skills and expertise to operate the Mahola system.	Bursaries	Inspection: An overview of each planned, on-going and past bursary is available. Related contracts with the UCAC or the relevant secondary school, as well as proof of the related study fee payments are available.		
DIO015: The water and electricity distribution networks shall be connected to all main houses of Siliyegue.	To improve the quality of life of the local population.	Water & Electricity	Inspection: The location of all components of the distribution network including the connection of the main houses of Siliyegue is documented.		
DIO015: The water and electricity distribution networks shall be connected to all main houses of Siliyegue.	To improve the quality of life of the local population.	Water & Electricity	Demonstration: A number of main houses of Siliyegue have running drinking water and electricity.		
DIO016: The electricity distribution network shall be connected to the solar energy storage equipment of the health centre.	To improve the quality of life of the local population.	Water & Electricity	Inspection: The connection is documented.		
DIO016: The electricity distribution network shall be connected to the solar energy storage equipment of the health centre.	To improve the quality of life of the local population.	Water & Electricity	Inspection: The real installation is as documented.		

DI0017: The water distribution network shall be connected to the drinking water reservoir of the health centre.	To improve the quality of life of the local population.	Water & Electricity	Inspection: The connection is documented.		
DI0017: The water distribution network shall be connected to the drinking water reservoir of the health centre.	To improve the quality of life of the local population.	Water & Electricity	Inspection: The real installation is as documented.		
DI0018: The water and electricity distribution networks in Siliyegue shall be implemented jointly.	To facilitate maintenance of the distribution networks and reduce the costs and time it takes to install them.	Water & Electricity	Inspection: The joint network is designed as such and documented.		
DI0018: The water and electricity distribution networks in Siliyegue shall be implemented jointly.	To facilitate maintenance of the distribution networks and reduce the costs and time it takes to install them.	Water & Electricity	Inspection: The real implementation is as documented.		
DI0019: The water and electricity distribution networks shall protect and hide water pipes and electric cables underground, except where houses or the combined housing for utilities are connected.	To protect the networks from damage and theft, as well as keep the water in the pipes at a constant temperature.	Water & Electricity	Inspection: The joint network is designed as such and documented.		
DI0019: The water and electricity distribution networks shall protect and hide water pipes and electric cables underground, except where houses or the combined housing for utilities are connected.	To protect the networks from damage and theft, as well as keep the water in the pipes at a constant temperature.	Water & Electricity	Inspection: The real implementation is as documented.		
DI0020: The water and electricity distribution networks shall ensure adequate maintenance access.	To facilitate maintenance of the distribution networks and reduce the costs and time it takes to maintain them.	Water & Electricity	Inspection: The joint network is designed as such and documented.		
DI0020: The water and electricity distribution networks shall ensure adequate maintenance access.	To facilitate maintenance of the distribution networks and reduce the costs and time it takes to maintain them.	Water & Electricity	Inspection: The real implementation is as documented.		