



RAPID BUILDINGS

Infrastructure to Face Disasters





WHAT ARE THE PROBLEMS..?

Why Rapid Construction Building are Urgent
need of the Hour

ABOUT RAPID BUILDING

What..? Why..? Who..? Components...?
How..? When..?

RAPID BUILD COMPONENT

Design, Build, Features, Possibilities,
Advantages and Operations

IDEAL RAPID RESPONSE SCENARIO

Concept of Ideal Rapid Response Setup and
Camps

INNOVATION & MODULAR DESIGN

Huge Variety of Materials can be used for
making Reliable and Economical Builds

TYPES OF RAPID BUILDS

What does the future hold for Rapid Builds
and Construction Communities



HOPE IN TIMES OF CRISIS



World has changed after the covid-19 infection. But this is not the only threat that threatens the Humans on various levels and may lead to Human catastrophe of unprecedented proportions. With Global Warming, Changing weather patterns, Over pollution coupled with Mismanagement of resources has led to Shortages of Essentials which may lead to War. The grief Humanity and Human as a species can sustain are beyond control...

But we can manage the aftermath of each catastrophe and do our best for Restoring the faith and securing health of the affected people. For that we present our Corner Stone solutions Division. Our Corner Stone Division has designed state of the art Hospitals, Crisis Management Centre, Relief Camps, Civilian Defense systems, Portable Utility Systems, etc.

Our Hospital System is a modular system with each unit of two containers have capacity of full functional off grid 30 bedded Hospital. They Are designed and equipped with advanced off-the-grid technologies. Allowing these Hospital modules to work for many years. And the best part they are easy to maintain and operate.

Our modules are so efficient that we can have fully functional 100-150 bedded multispecialty hospital with just 12 containers or 6 units. Each of our unit can be set up by four personnel in under 8 hours. And after setup all of these units Self regulated environment which isolated from outside world. Depending on the usage we upgrade the envelope to bullet proof and other configurations.



HOPE IN TIMES OF CRISIS

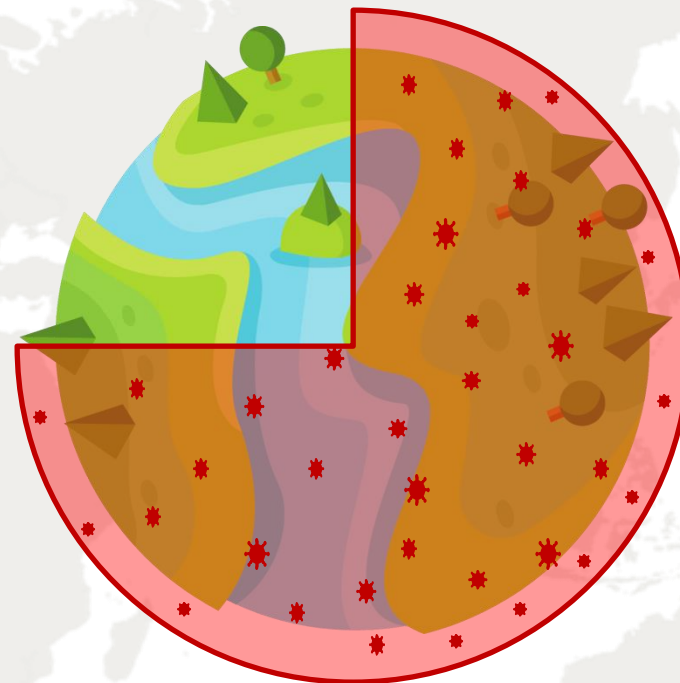




HOPE IN TIMES OF CRISIS



ENVIRONMENTAL DANGER



NON-ENVIRONMENTAL DANGER



WHAT ARE THE PROBLEMS..?



- EARTHQUAKES
- HURRICANES & FLOODING
- DROUGHT & WILD FIRES
- VOLCANO ERUPTION & LANDSLIDE
- PANDEMIC
- OTHERS...

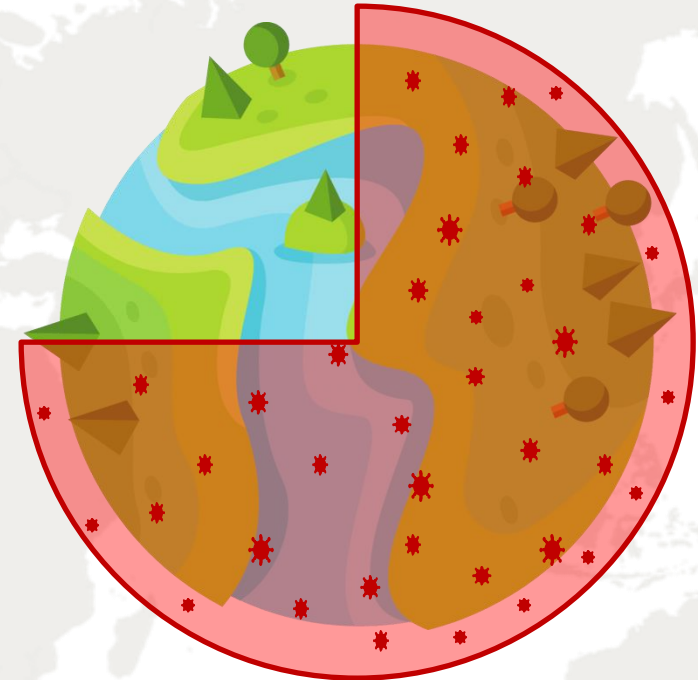
ENVIRONMENTAL DANGER



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WHAT IS THE PROBLEM..?

- INDUSTRIAL SPILLAGE
- NUCLEAR DISASTERS
- WARS
- BIOLOGICAL THREAT/PANDEMIC
- SOIL CONTAMINATION
- OTHERS...



NON-ENVIRONMENTAL DANGER



WHAT IS THE PROBLEM..?

- Rapid Buildings are those buildings that can be transported and established in new location in 24 - 48 Hours
- These building structures can be transported by Trucks, Airlifted and even be air dropped directly on the field
- Packing Unpacking, Transportation, prep should need minimal staffs and workers with minimal specialize training
- Rapid Building should be mostly be self reliant in power generation & environment control



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ABOUT RAPID BUILDS



TIME IS OF THE ESSENCE

- It is pertinent that relief services be able to setup relief infrastructure rapidly and reliably.
- Faster deployment also prevent secondary loss of life and in some cases even prevent loss of life.

PART ONE

01



PART TWO

02



SAVING HUMAN LIVES

- Rapid Build Infrastructure save lots of Human lives as they provide shelter, aid in Rescue and Treat the ones in need.
- These Infrastructure enable empower and inspire our frontline workers to go and above beyond their duty



DOCUMENTING SCOPE

- Documenting the complete extent and effect of any Disastrous event enables Rescue workers to work effectively and get more result.
- With rapid building secondary effect can also be identified and measures to resolve them can be deployed

WHY ARE RAPID BUILDING NEEDED..?



03

PART THREE



04

PART FOUR



PREDICTING FUTURE EVENT

- Rapid Build help in assimilation and analysis of key information that will enable future prediction of primary and Secondary events.
- Even prevent future loss of life

ABOUT RAPID BUILDS – WHY..??



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SOLAR PANELS WITH PLANT

ENVIRONMENT CONTROL SYSTEM

REINFORCED
STRUCTURE

07 FEET

OPTIONAL UNIT:
REF. UNIT
FILT. UNIT
ETC.

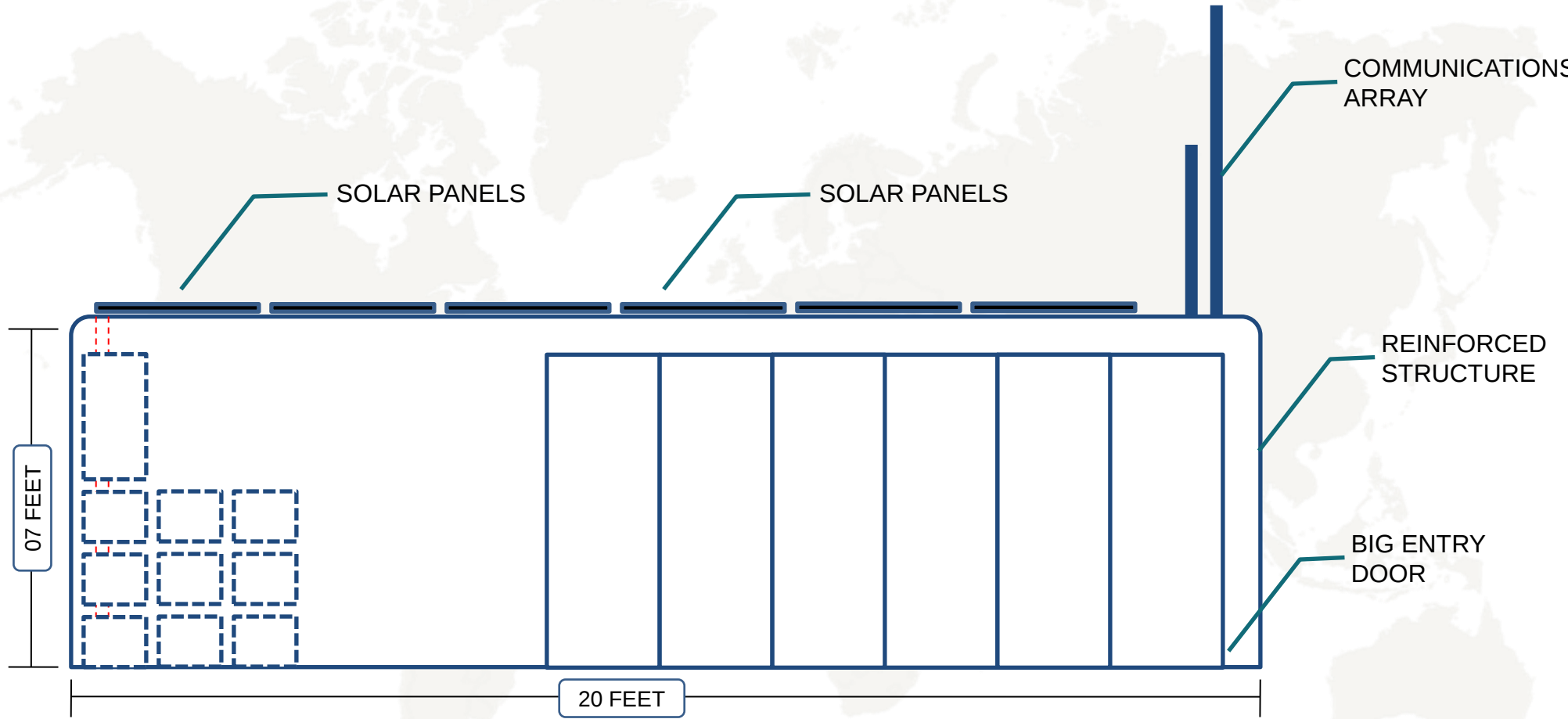
20 FEET

MODULE 01-A

EXTERNAL COLLAPSIBLE
WATER TANKS



RAPID BUILD UNIT



MODULE 01-B

RAPID BUILD UNIT



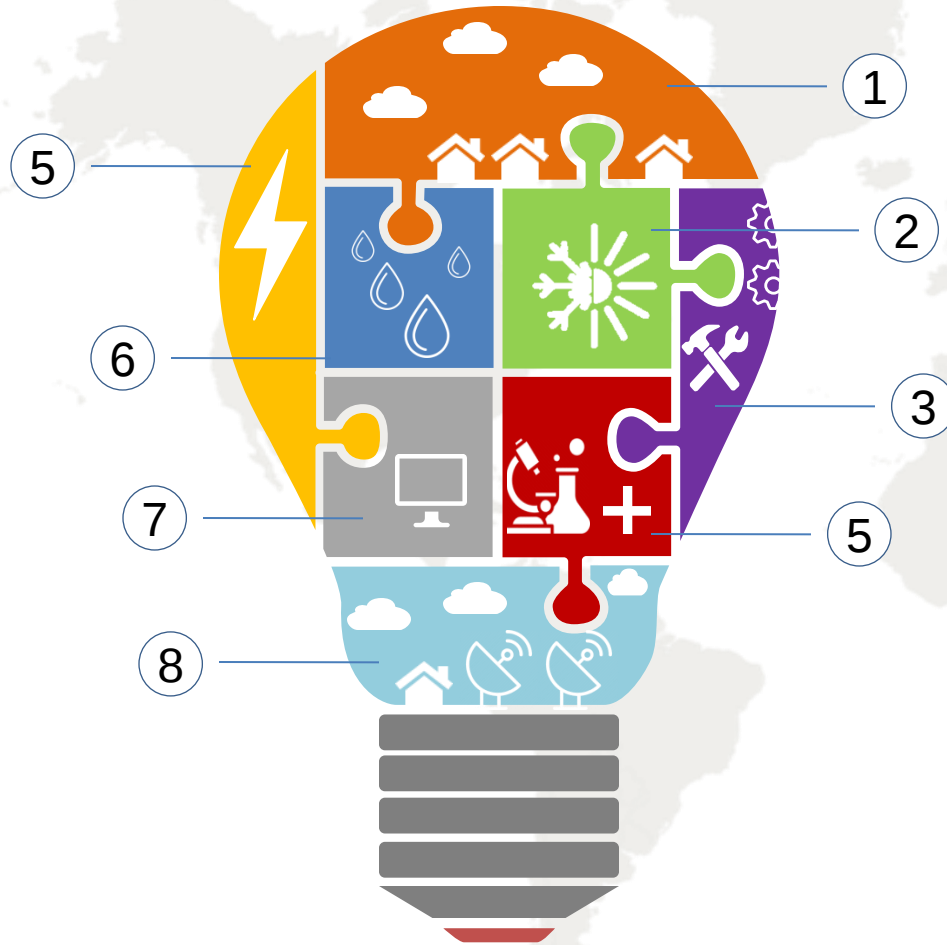
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HOPE IN TIMES OF CRISIS



HOPE IN TIMES OF CRISIS

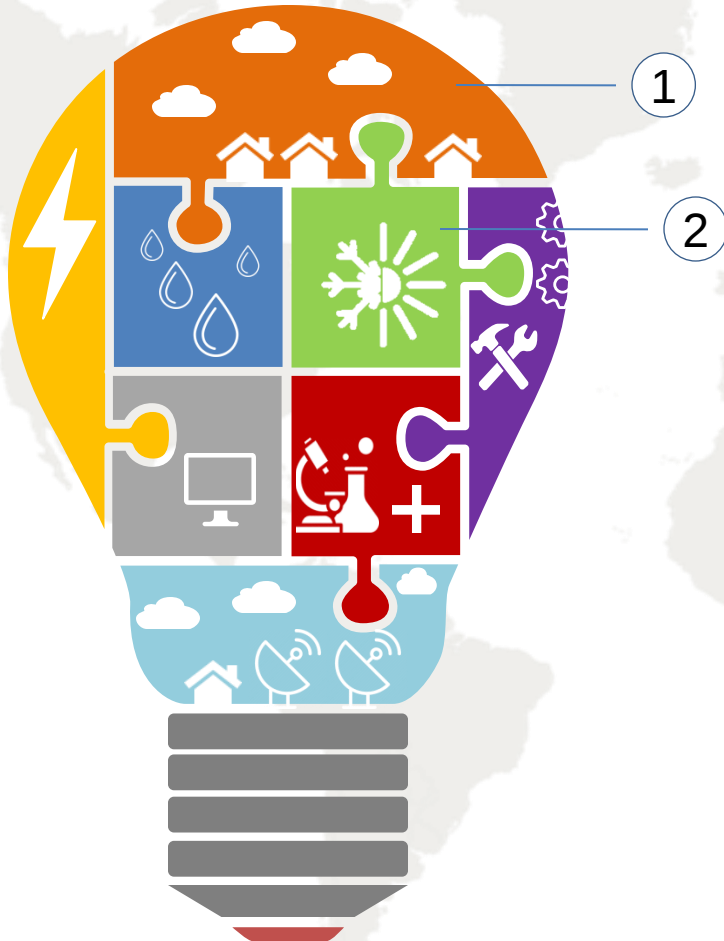


COMPONENTS OF RAPID BUILD

- 1) STRUCTURAL SYSTEM
- 2) CLIMATE CONTROL SYSTEM
- 3) CONTROL & OPERATION SYSTEMS
- 4) MEDICAL EQUIPMENT
- 5) POWER GENERATION & DISTRIBUTION
- 6) WATER PURIFICATION & DISPOSAL
- 7) COMPUTER SYSTEM
- 8) COMMUNICATION SYSTEMS



RAPID BUILD COMPONENTS



STRUCTURAL SYSTEM

- It is a reinforced structure made up of Composite and steel, both of them have good strength to weight ratio.
- It consists of multiple layer that provide structural strength, protection for its inhabitants and enable ease of transport.
- Structure have addl. accessory system like Dampeners, Insulators, hydraulic and suspenders.

CLIMATE CONTROL SYSTEM

- These system is responsible for maintaining the internal climate of the building
- It works on R-134a or similar gases and uses inverter technology for both Heating - Cooling of the building.
- Along with refrigeration system It is estimated to use about 70% of the total energy requirement of the building.



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RAPID BUILD COMPONENTS



CONTROL & OPERATION SYSTEM

- It is brain of the building and responsible for intricate management of the power supply enabling working of multiple system without overloading the grid.
- It also enables constant monitoring of Power generation and Efficient distribution of electricity. Leading to efficient use of resources.
- It can also be remotely monitored for centralized planning

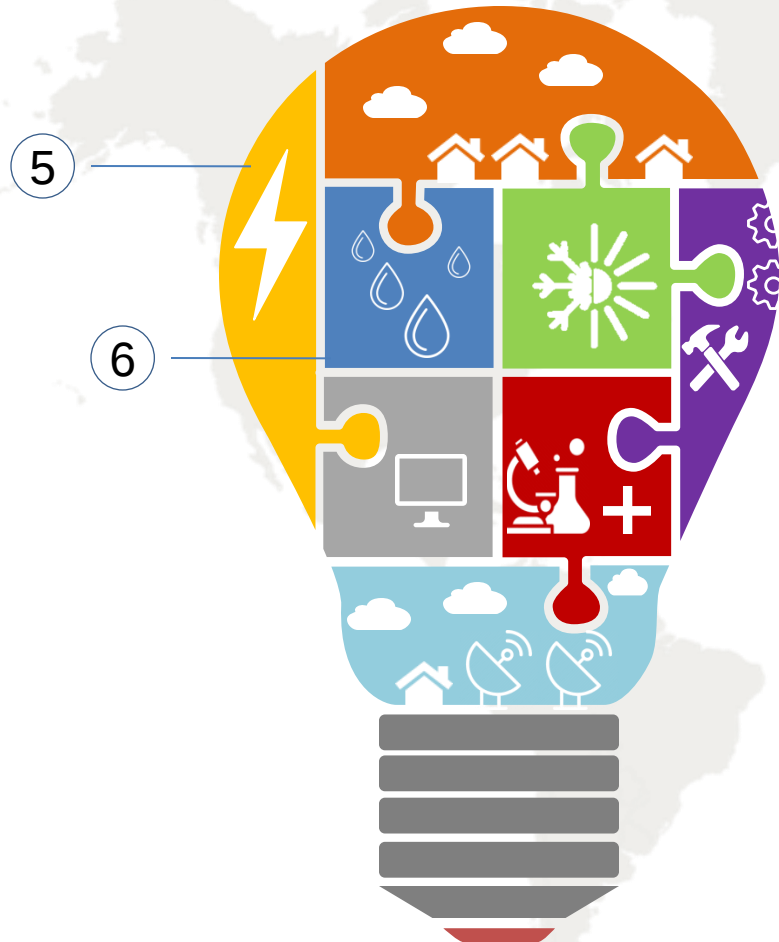
MEDICAL SYSTEM

- It is one of the special system that can be integrated into the Rapid Builds but advanced systems like CT scan cannot be used.
- This system includes Gas Distribution system, Patient monitoring system, Blood Storage unit and fully equipped Field Lab Unit .
- This System can be customized as per requirement.



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RAPID BUILD COMPONENTS



POWER SYSTEM

- This system is responsible Power Generation, Power distribution, Power Storage and Power Management.
- It is integrally connected with the Control system and with it form the centralized automation system of the building
- Its component include Solar Power plant, External Generator and whole set of Batteries.

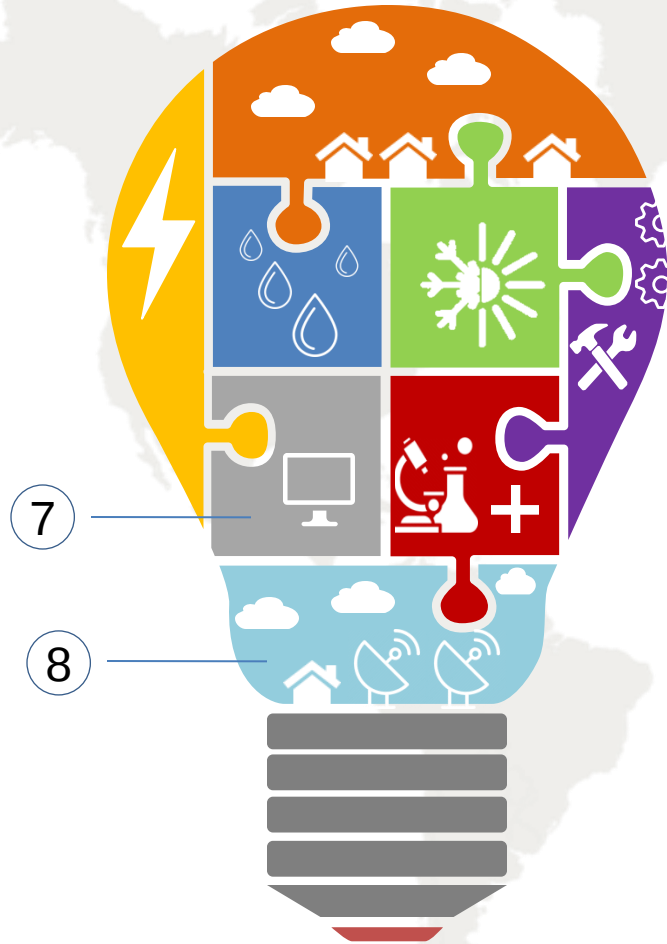
WATER SYSTEM

- This system is responsible for Storage, Purification distribution and management of Water
- Most of this system does not use electricity instead uses kinetic and potential energy.
- All of the system is made up of lightweight composites ensuring good weight to strength ratio and ease of transport. Tanks are collapsible.



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RAPID BUILD COMPONENTS



COMPUTER SYSTEM

- Advance AI is used to collect and analyze assimilated data,
- High end Computer hardware is to used to store huge amount of data and offer reliability to IT techs used.
- Software uses IoT , Blockchain and AI Technology for efficient and secure computing.

COMMUNICATION SYSTEM

- It is a standard equipment needed for enabling internet and other communication services like Radio, etc..
- It can be upgraded to Command communication system and, the building can be used as command centre with real time surveillance capabilities enabling efficient field operations.
- It also enables Intra and inter team communication between all of the involve parties.



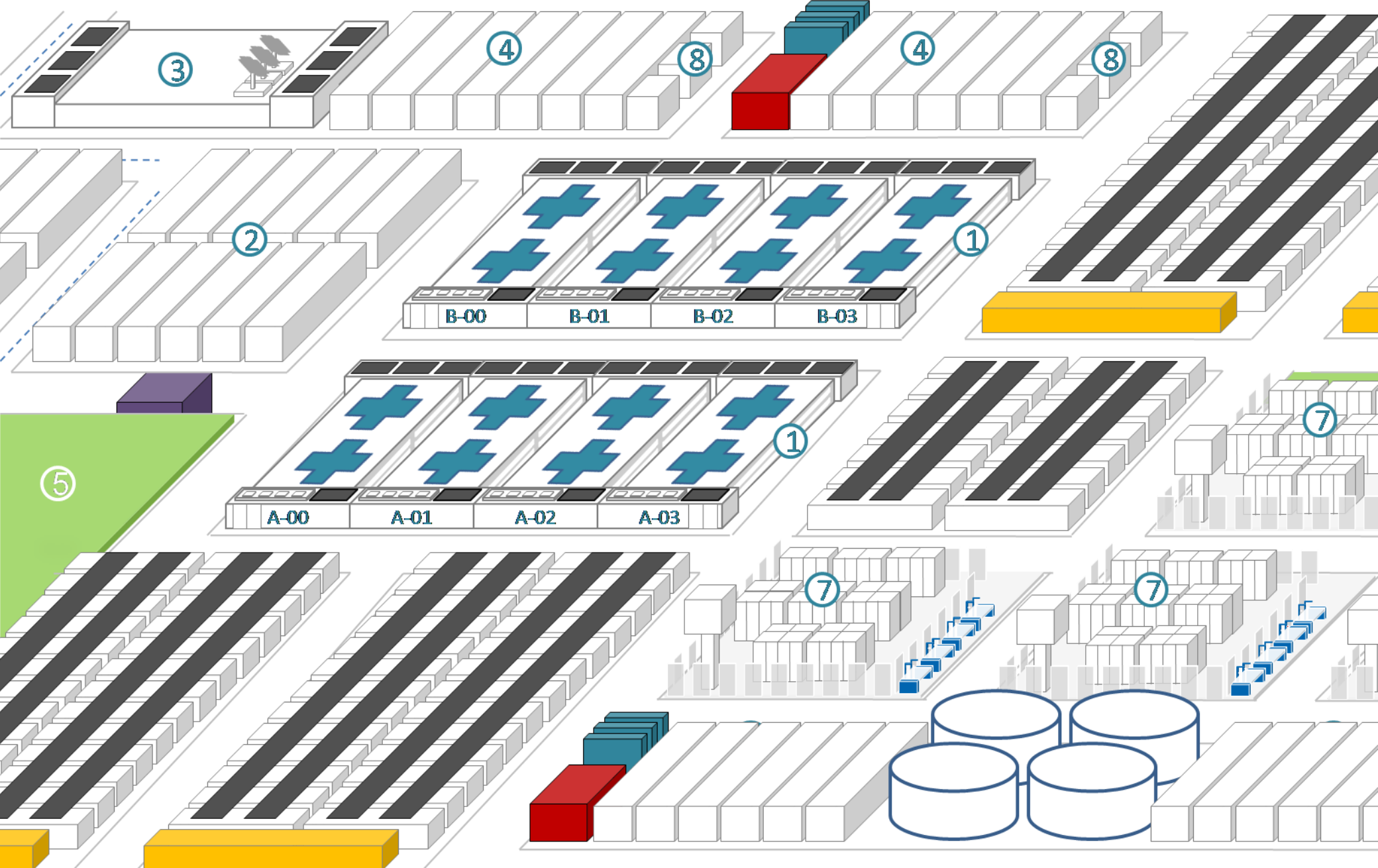
RAPID BUILD COMPONENTS



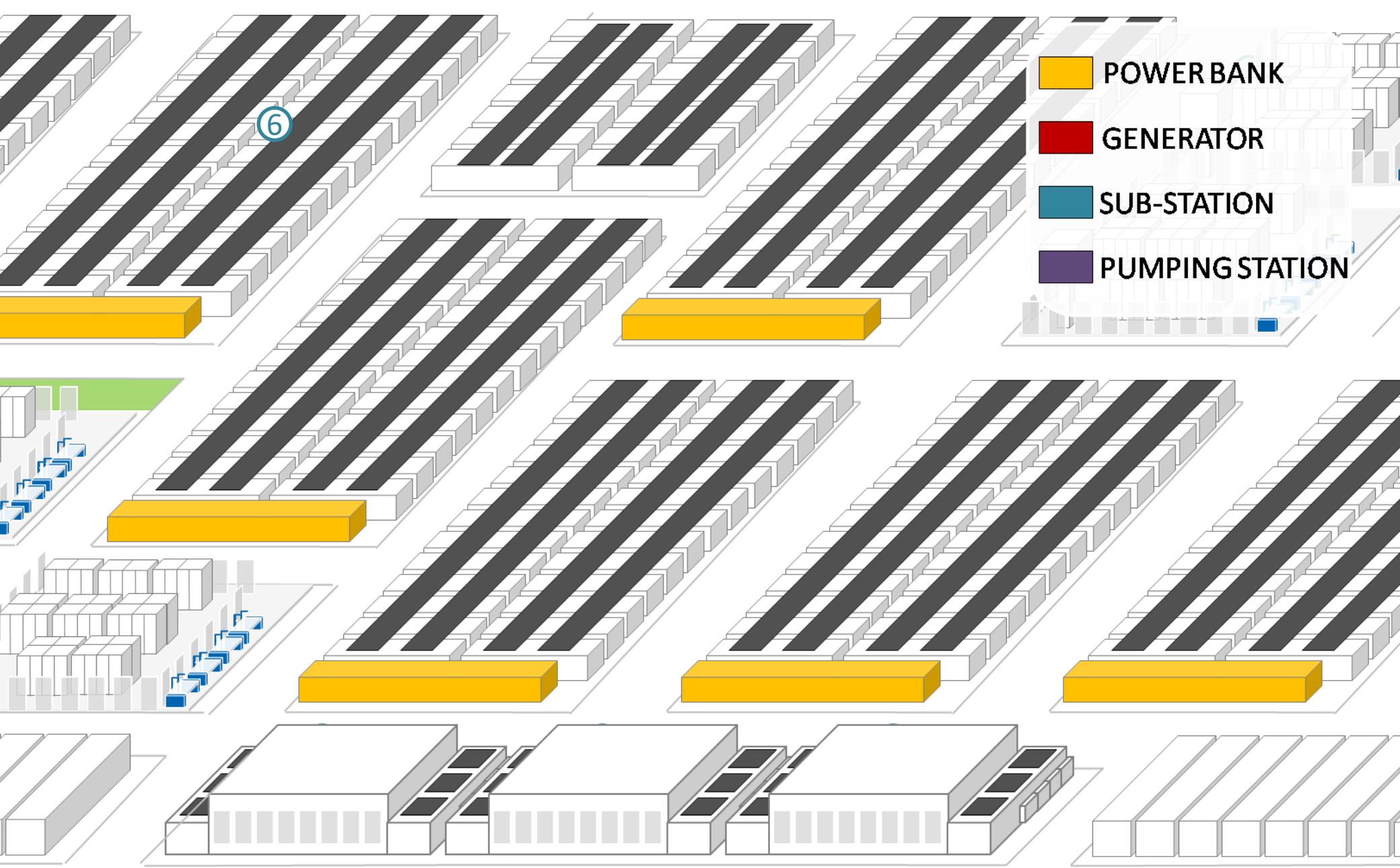
HOPE IN TIMES OF CRISIS



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- 1) PORTABLE HOSPITAL
- 2) STAFF QUARTERS
- 3) COMMAND CENTRE
- 4) WAREHOUSE



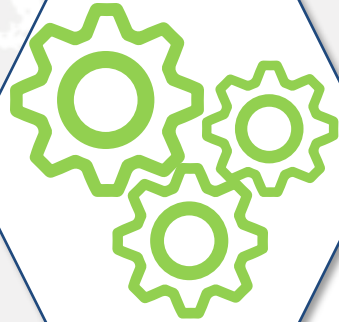
5) OPEN PLAY AREA

6) RESIDENTIAL AREA

7) WT & WASHROOM

8) SHOP & WORKSHOP

SELF SUFFICIENT



INNOVATION



FUTURE READY



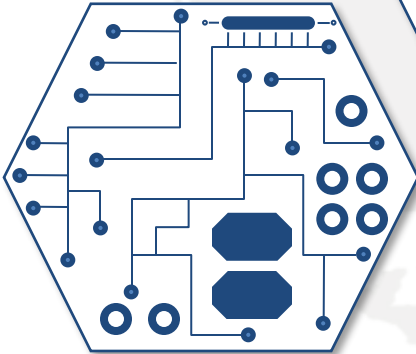
METICULOUS



TECHNOLOGY



SELF RELIANT



- OUR PRODUCTS ARE REVOLUTIONARY BECAUSE THEY ARE SELF RELIANT AND SELF SUFFICIENT FOR OPERATIONS
- WE HAVE METICULOUSLY PLANNED, DESIGNED, AND LAID THE FRAMEWORK FOR PRECISION.
- WE HAVE TAKEN IT UPON OURSELVES TO PROVIDE THE BEST RESOLUTE TECHNOLOGY DRIVEN SOLUTION.



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WHY ARE WE REVOLUTIONARY..?



HOW ARE WE REVOLUTIONARY..?



CORNER STONE
DIVISION

HOSPITAL UNIT

COMMAND
CENTRE UNIT

FOOD STORAGE
UNIT

HOUSING &
BARRACK UNIT

UTILITY UNIT

BUNKER UNIT



RAPID BUILD TYPES



HOSPITAL SOLUTION



MOST OF THE
REFUGEE CAMP LACK
HOSPITAL AND
HEALTHCARE FACILITY

EVEN IF THESE CAMP
HAVE HOSPITAL THEY
LACK PROPER
ELECTRCITY, WATER
AND OTHER SERVICES

SETTING UP PROPER
CONVENTIONAL
HOSPITAL TAKES A LOT
OF TIME AND
INFRASTRUCUTRE

WE HAVE THE
SOLUTIONS

HOSPITAL ???

HOSPITAL ???

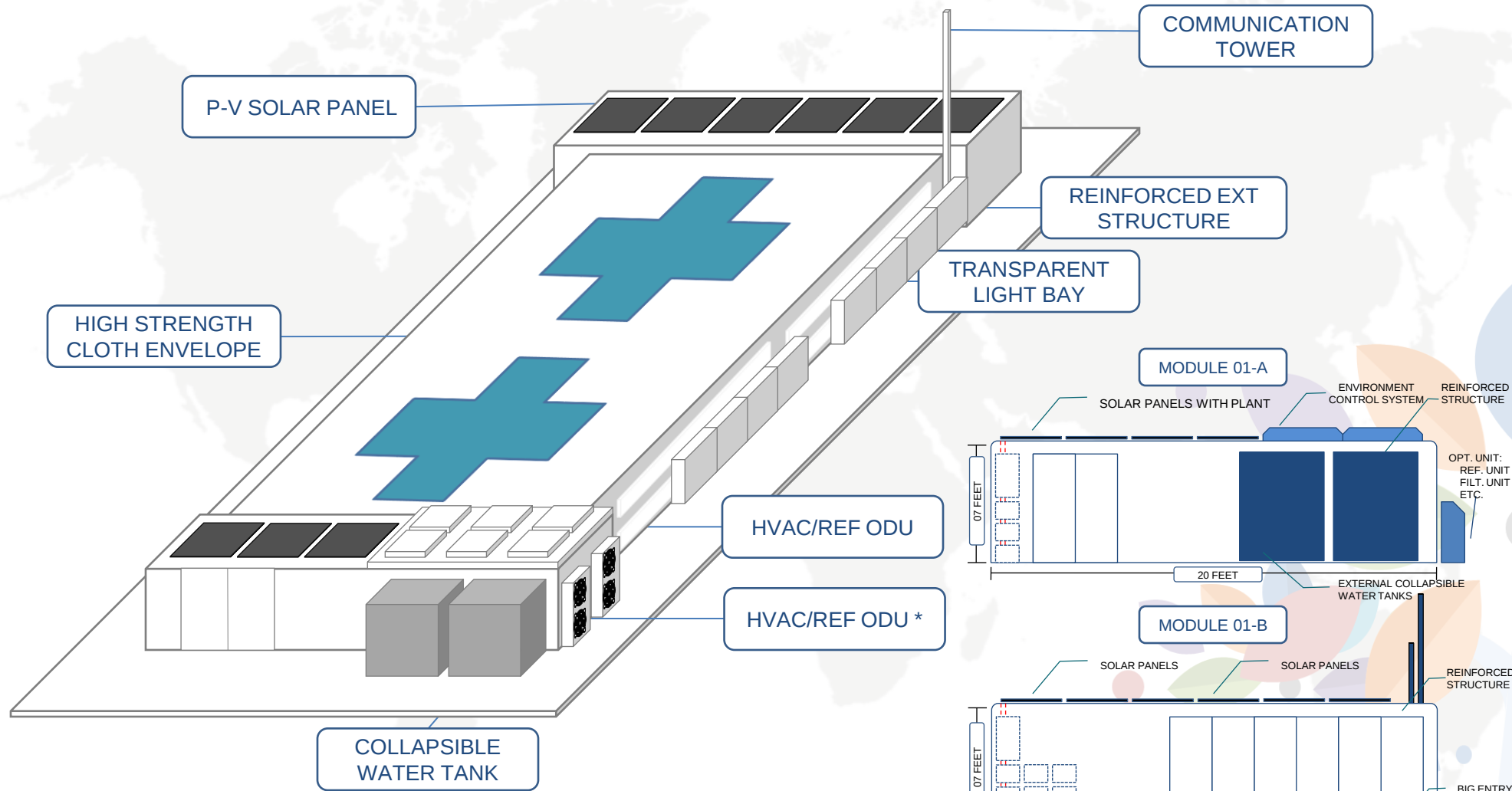


NO HOSPITAL



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DIVISION

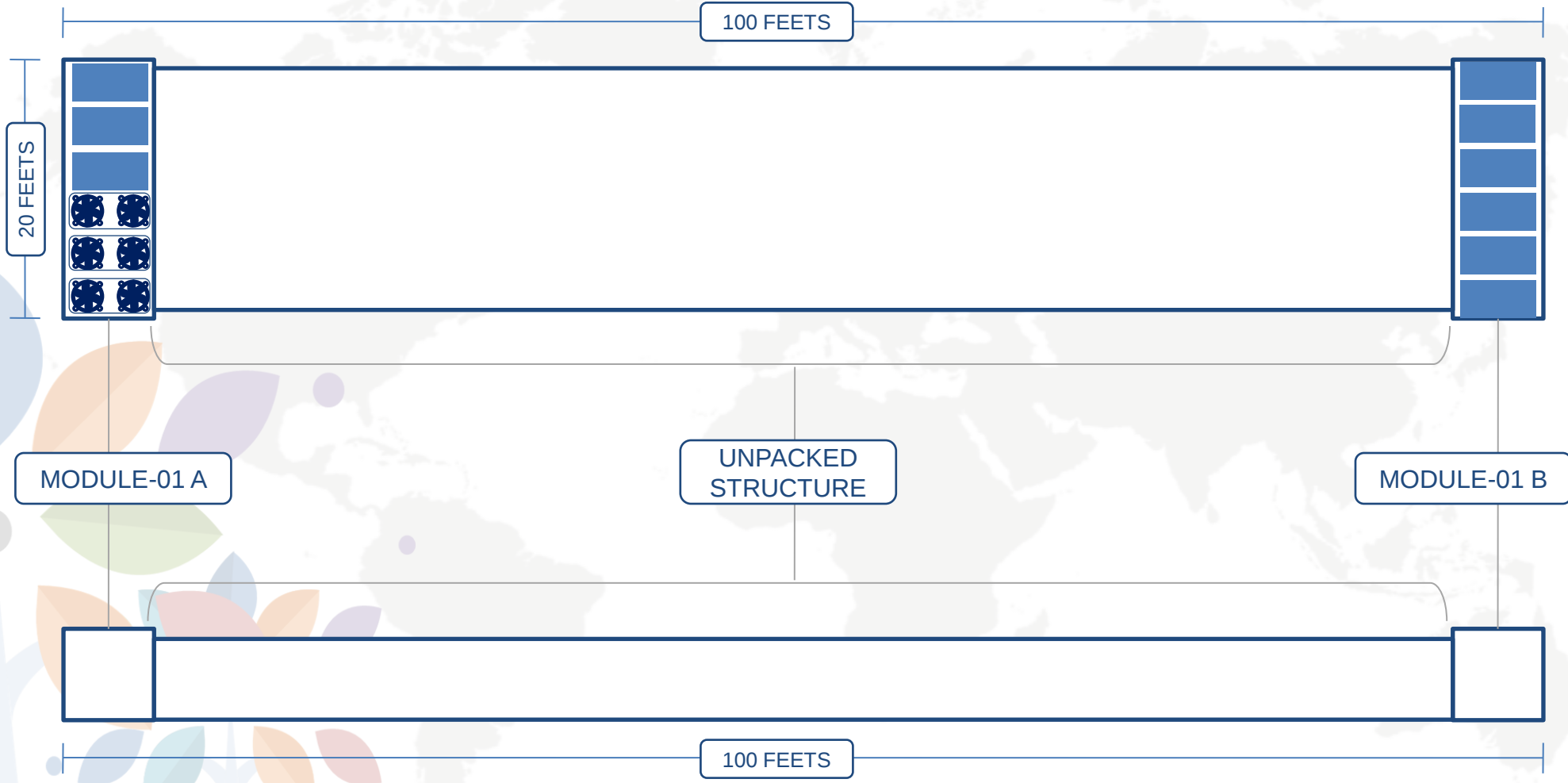
HOSPITAL SOLUTION



* OPTIONAL AND CAN BE CHANGED AS PER REQUIRMENT



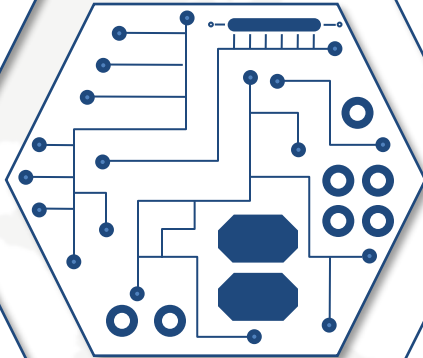
HOSPITAL SOLUTION



GREEN
TECHNOLOGY



INTEGRATED SMART
TECHNOLOGIES



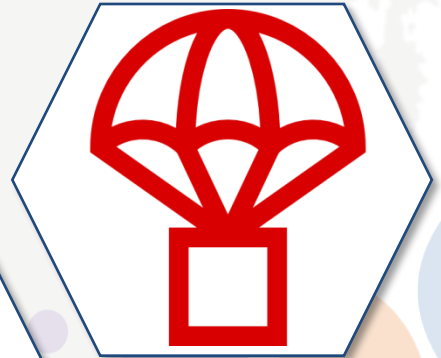
FACTORY
MANUFACTURED



TIMELY DELIVERED
PRODUCTS*



AIRDROP
CAPABILITIES *



EASY TO STORE &
TRANSPORT DESIGN



MODULAR DESIGN &
SOLUTIONS



EXTENSIVE QUALITY
TESTING

* T&C APPLIED

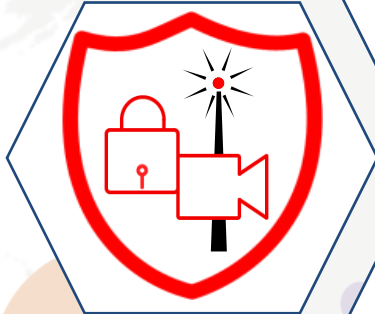


HOSPITAL SOLUTION



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DIVISION

SECURITY



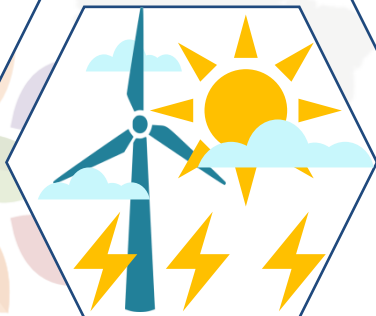
STRUCTURE



COOLING



WATER



POWER

HEATING



GENERAL SYSTEM

- All of Our Hospital units have reinforced structure that is designed to withstand stress of moving and can be upgraded to even withstand air drop.
- Our Hospital units are equipped with energy efficient HVAC system that can integrated with heating system for air and water.
- Hospital units have multiple ports of energy generation, they can harness energy from sun, wind, Diesel Generator and Even grid if its available.
- Each Hospital unit has onboard battery backup that can provide backup for 24 hours. These battery packs are modular in nature and easy to maintain.
- We have outfitted each Hospital unit with state of the art water filtration system. We also include Collapsible pressure water tank with
- All of the components used in Hospital unit are designed to be modular in nature, allowing for easy maintenance, swapping for change of parts and Enable Future Upgradation
- Each Hospital unit is connected and covered with advance security systems

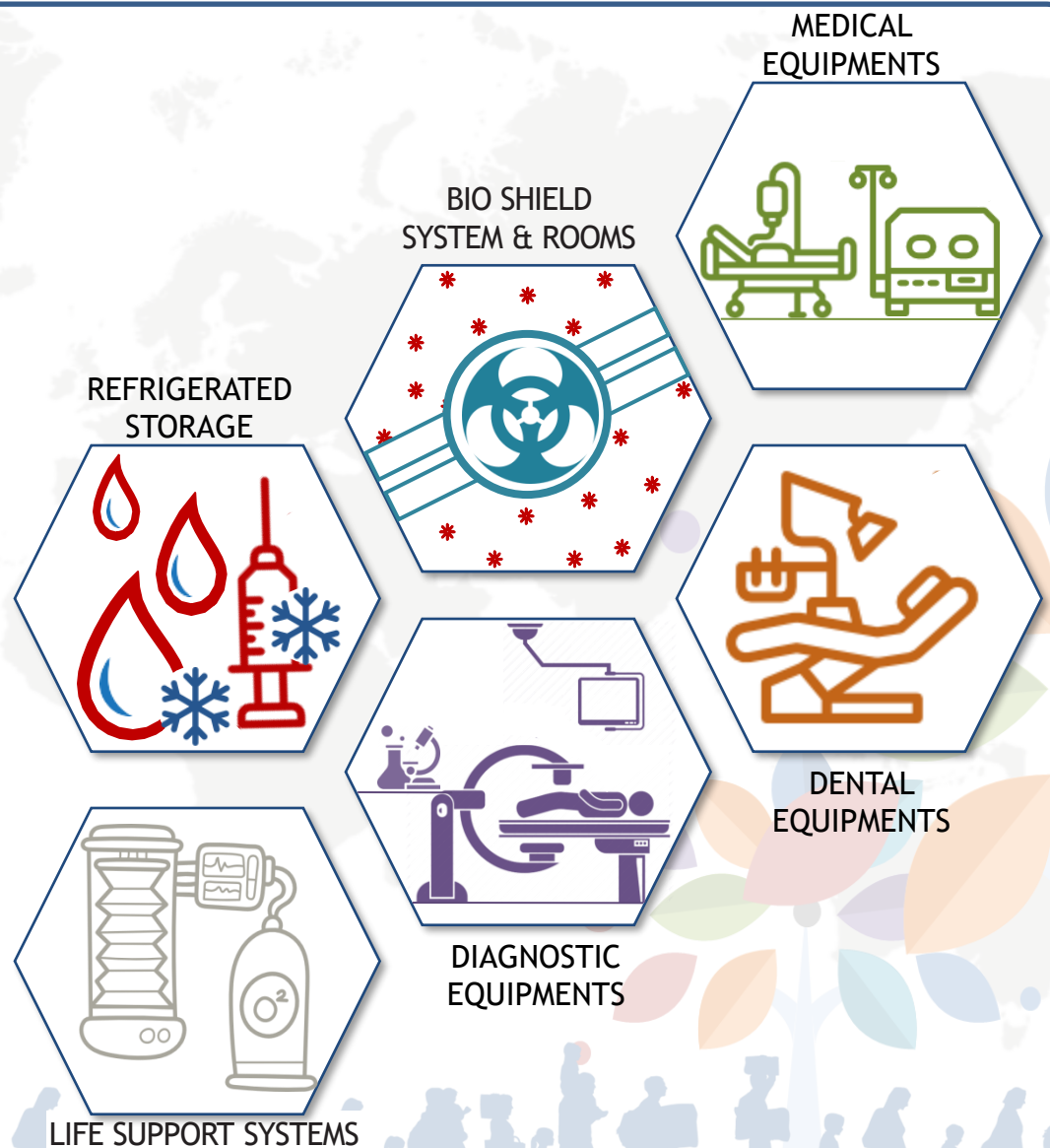


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DIVISION

HOSPITAL SOLUTION

MEDICAL SYSTEM

- All of our hospital module are outfitted with State of the art Medical Equipments.
- Each unit can be unpacked to have 30 bed capacity per unit. All units have deployable life support system.
- We have outfitted each of the hospital unit with Energy efficient, well insulated And smart cooling-refrigeration system.
- Each of our hospital unit has been carefully designed to have Hygienic, clean and isolated Environment, making them perfect for handling complex and infectious diseases.
- Most of our hospital unit can be modified and equipped with multiple diagnostic equipments ranging from laboratory to imaging equipment like x-ray, etc.
- Hospital units can also be fitted with dental chairs and Major OT modules.



HOSPITAL SOLUTION



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HOPE IN TIMES OF CRISIS



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COMMAND SOLUTION

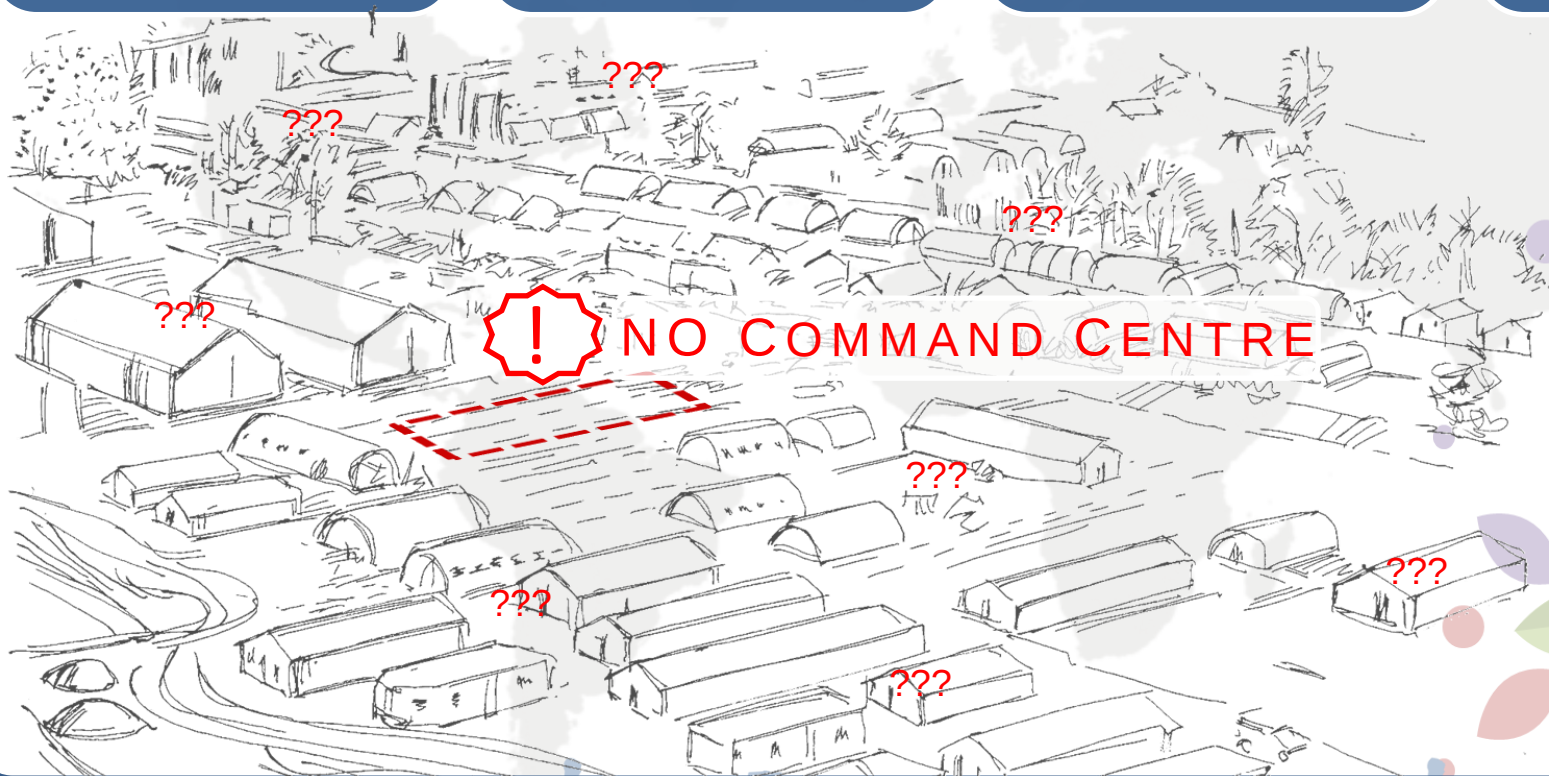


MOST OF THE
REFUGEE CAMPS LACK
CENTRAL COMMAND
AND MONITORING

EVEN IF THESE CAMP
HAVE SOME FORM OF
COMMAND CENTRE
THEY LACK MODERN
AMENITIES

SETTING UP PROPER
COMMAND CENTRE IS
ESSENTIAL TO
MANAGE THE CAMP
EFFICIENTLY.

WE HAVE THE
SOLUTIONS



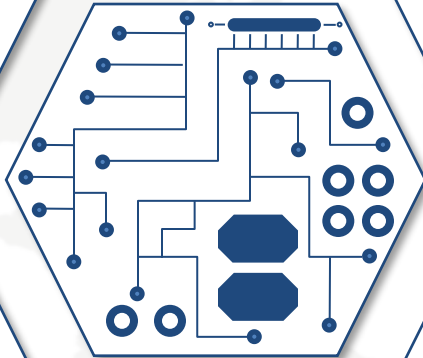
CORNER STONE
DIVISION

COMMAND SOLUTION

GREEN
TECHNOLOGY



INTEGRATED SMART
TECHNOLOGIES



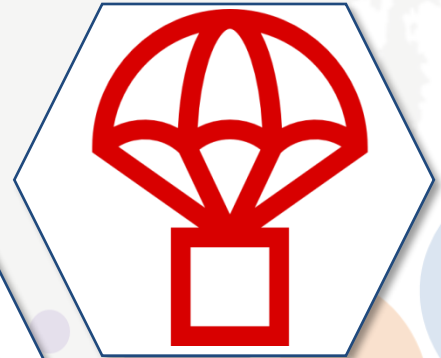
FACTORY
MANUFACTURED



TIMELY DELIVERED
PRODUCTS*



AIRDROP
CAPABILITIES *



EASY TO STORE &
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MODULAR DESIGN &
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EXTENSIVE QUALITY
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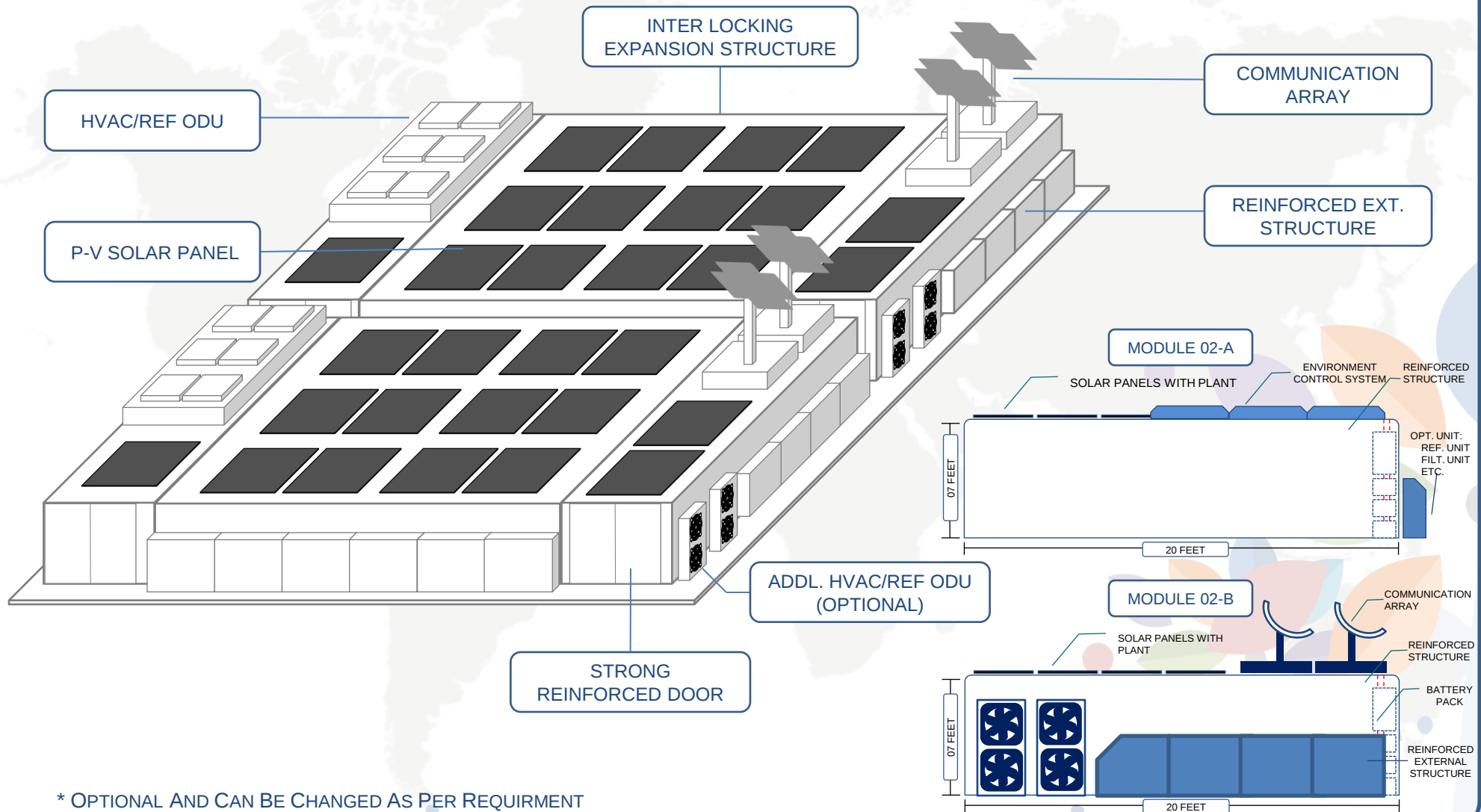
* T&C APPLIED



COMMAND SOLUTION

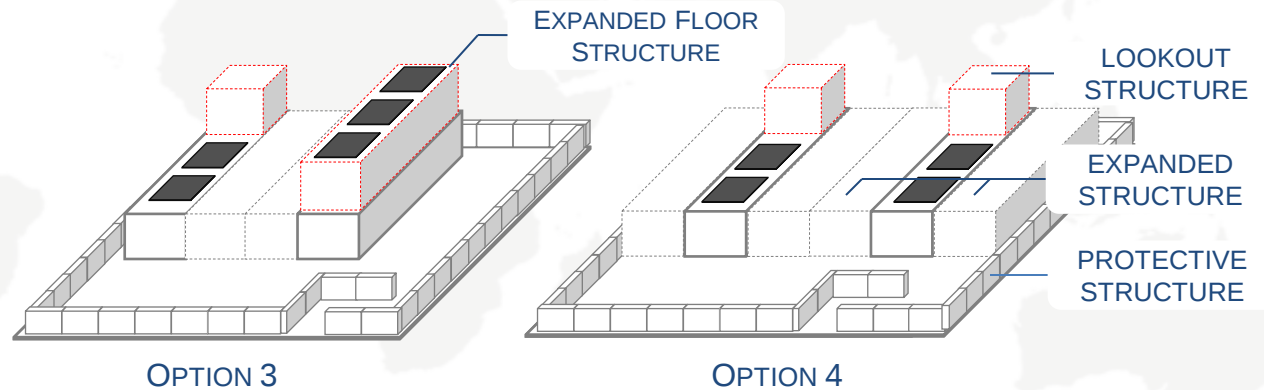
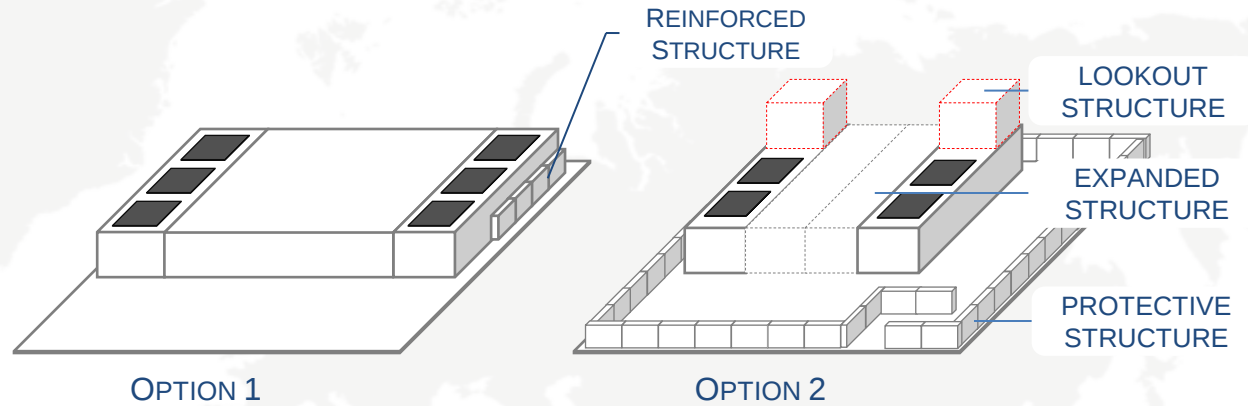
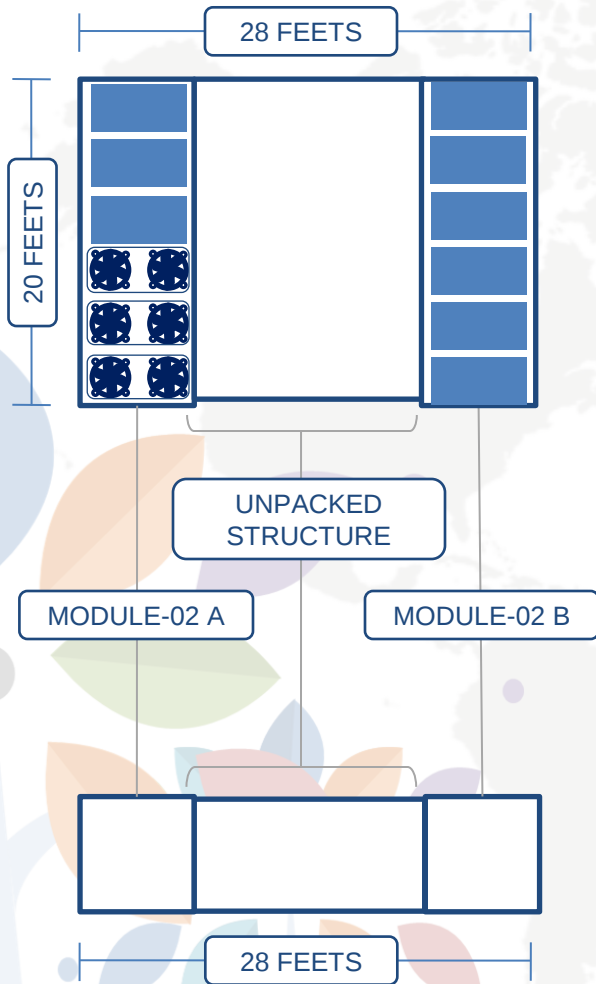


CORNER STONE
DIVISION



CORNER STONE
DIVISION

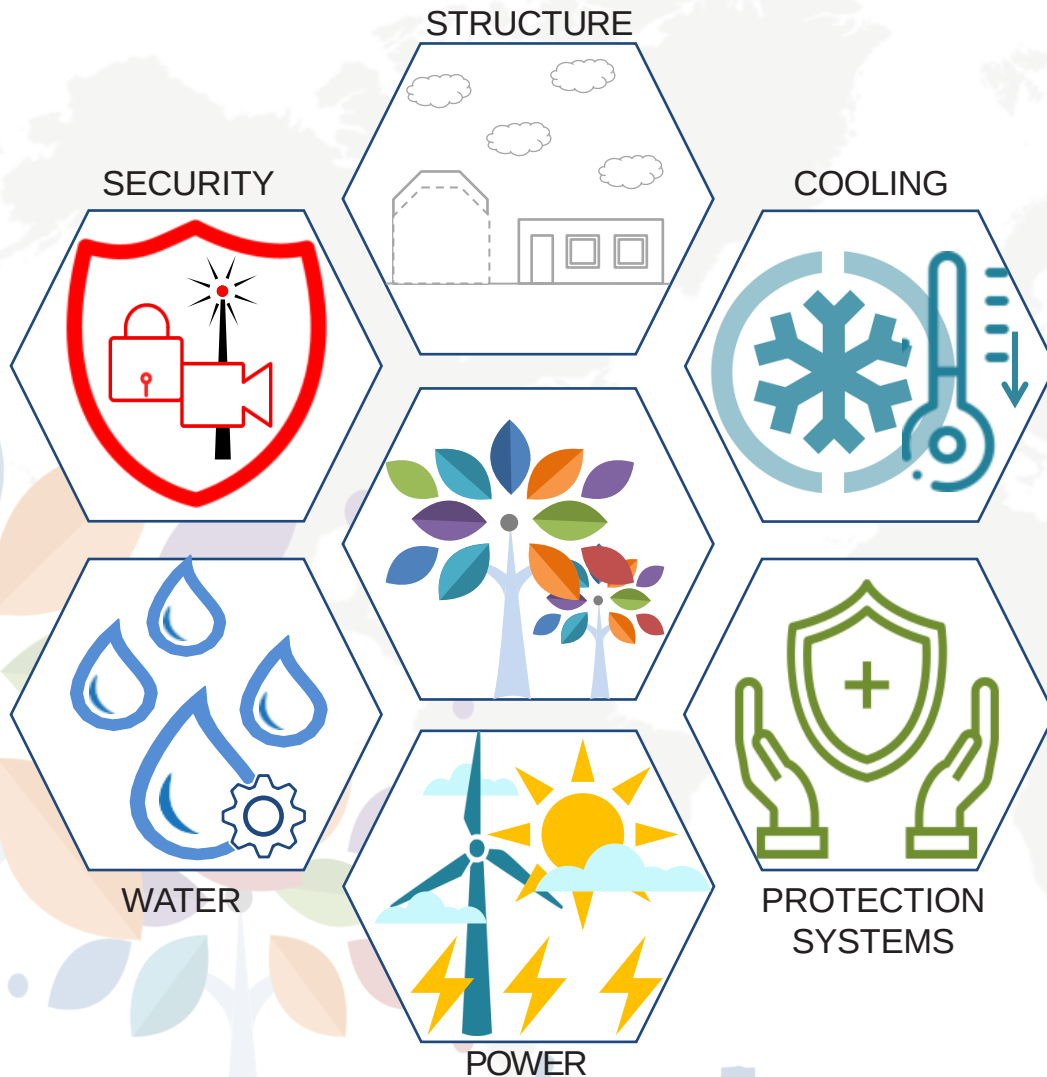
COMMAND SOLUTION



COMMAND SOLUTION



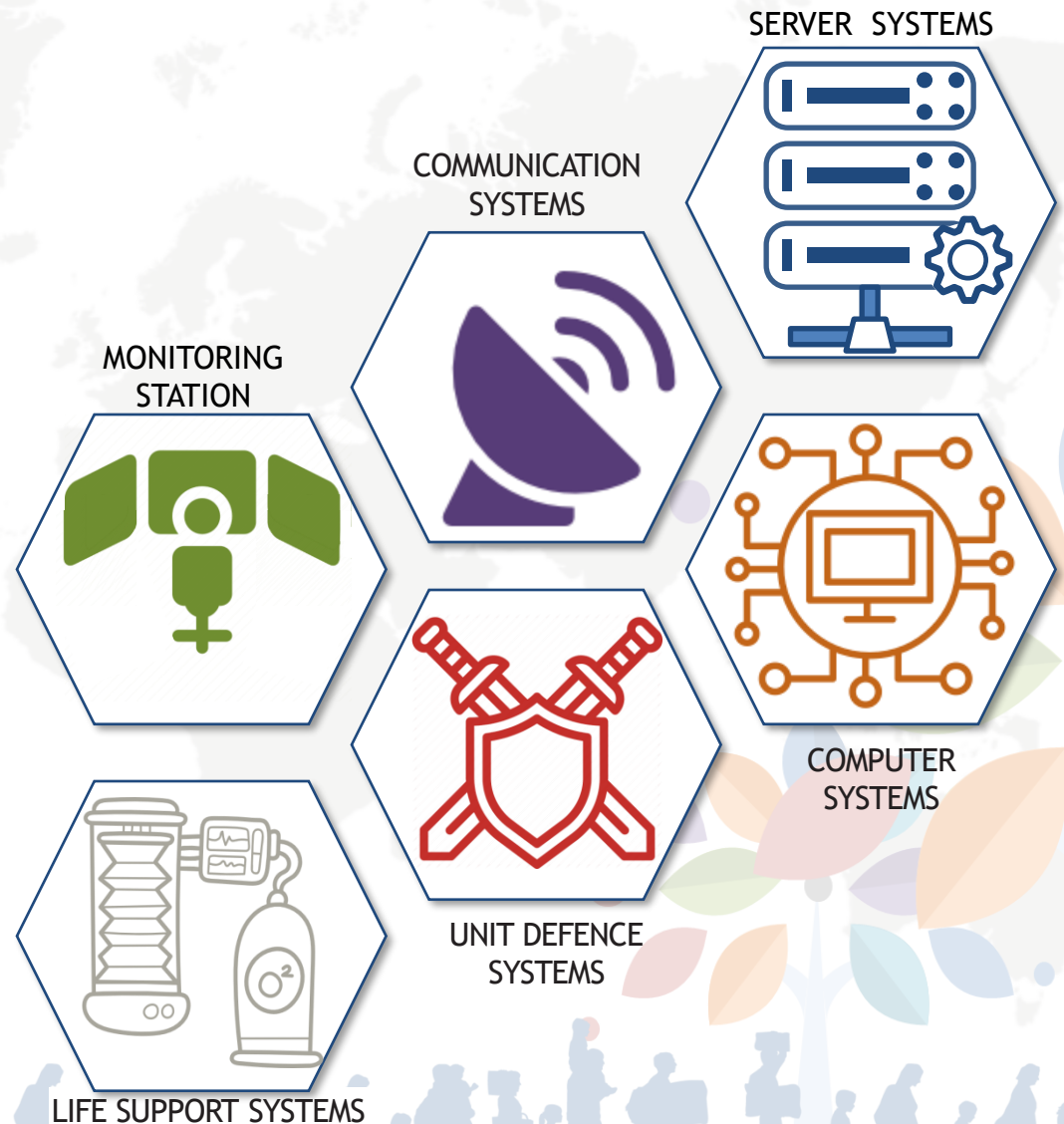
GENERAL SYSTEM



- All of Our Command Centre units have reinforced structure that is designed to withstand stress of moving and can be upgraded to even withstand air drop.
- Our Command Centre units are equipped with energy efficient HVAC system for precision cooling.
- Command centre units have multiple ports of energy generation, they can harness energy from sun, wind, Diesel Generator and Even grid if its available.
- Each Command Centre unit has onboard battery backup that can provide backup for 48 hours. These battery packs are modular in nature and easy to maintain.
- We have outfitted each Command Centre unit with multiple protection systems like EMP protection, Data Banks, Insulation system, and even Bullet protection envelope if required.
- All of the components used in Command centre unit are designed to be modular in nature, allowing for easy maintenance, swapping for change of parts and Enable Future Upgradation.
- Command centre unit is connected to complete security system of camp which enable real time monitoring and management of the camp .

COMMUNICATION SYSTEM

- All of our Communication centre are outfitted with Advanced Communication Equipments.
- Each unit modules can be expanded and interconnected to form approx. 510 sq.ft. area Command Centre.
- We have outfitted each of the command centre unit with Energy efficient, well insulated And smart precision cooling system.
- Each of our command hospital unit has been carefully designed to have clean & isolated Environment, making them perfect for handling complex computing, Data Storage and Advance monitoring.
- Our Command Centre units are also equipped with advance computing systems , high speed Servers and high capacity Data banks.
- Command centre unit can also be outfitted with Reinforced ext. structure air filtration system and Life support systems



COMMAND SOLUTION



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DIVISION



HOPE IN TIMES OF CRISIS



HOUSING SOLUTIONS



MOST OF THE REFUGEE
CAMPS LACK PROPER
HOUSING

EVEN IF THESE CAMP
HAVE HOUSING THEY
LACK AMENITIES LIKE
SEWAGE DISPOSAL &
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SETTING UP PROPER
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WE HAVE THE
SOLUTIONS



IMPROPER HOUSING



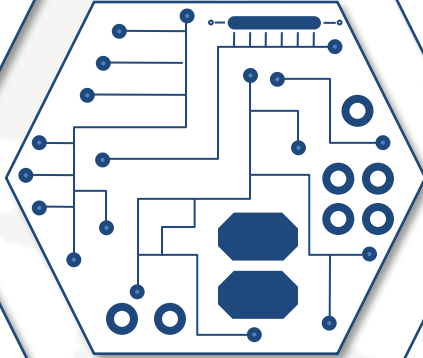
IMPROPER TOILETS



GREEN
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INTEGRATED SMART
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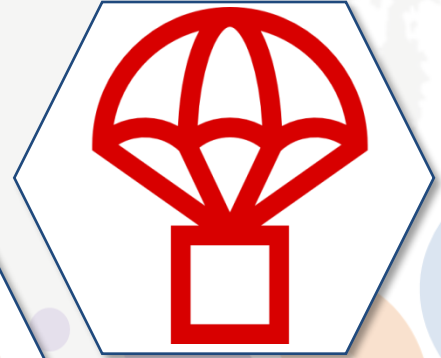
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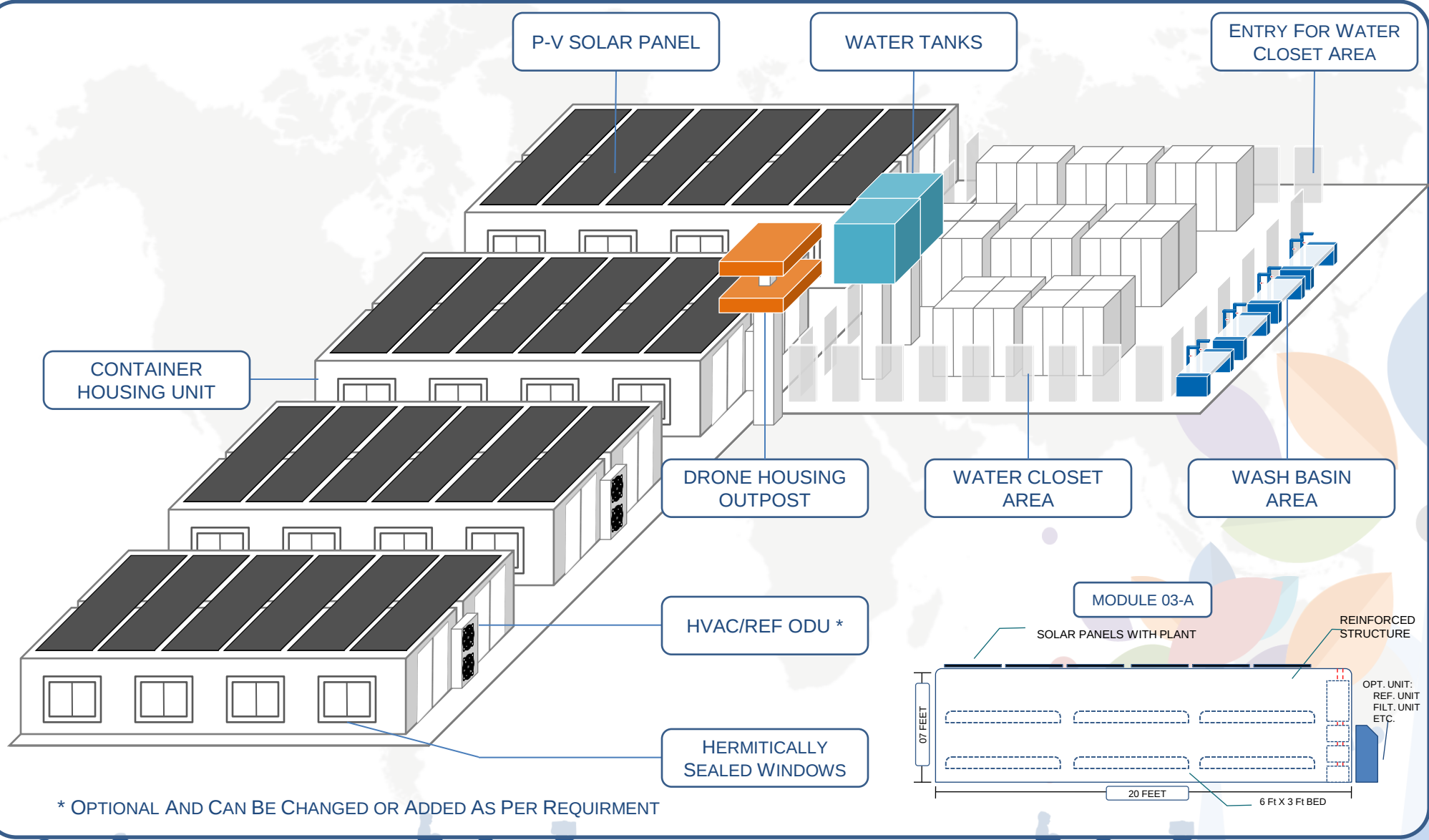
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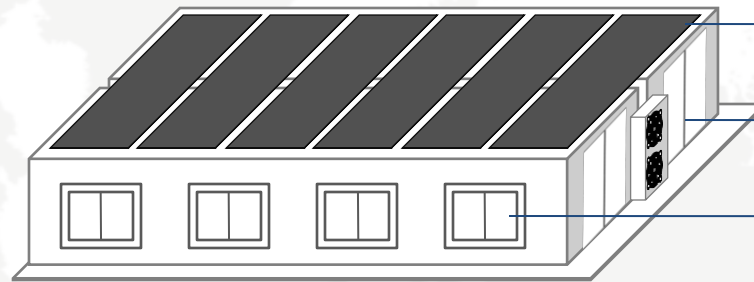
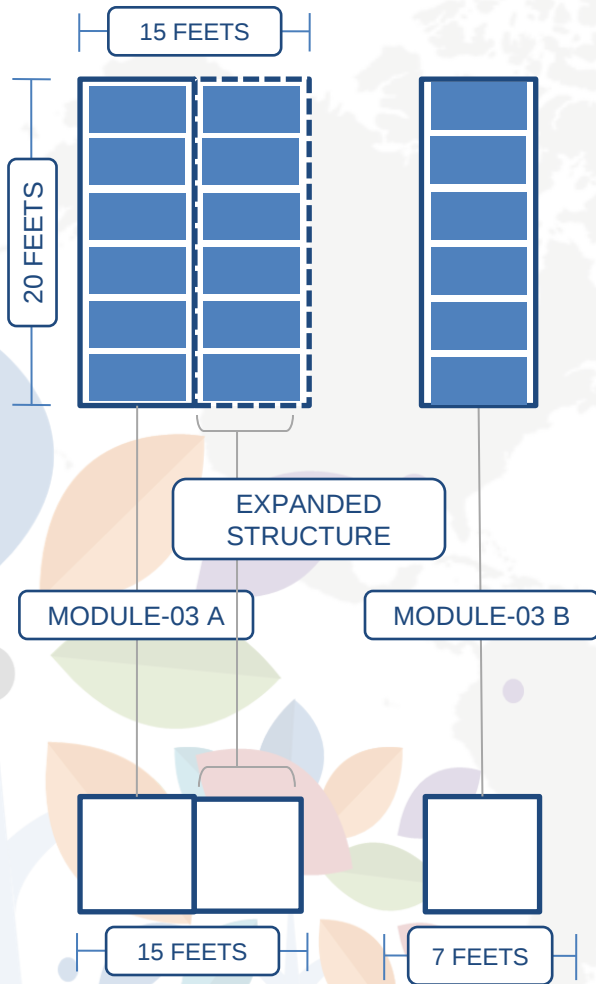


Housing Solutions

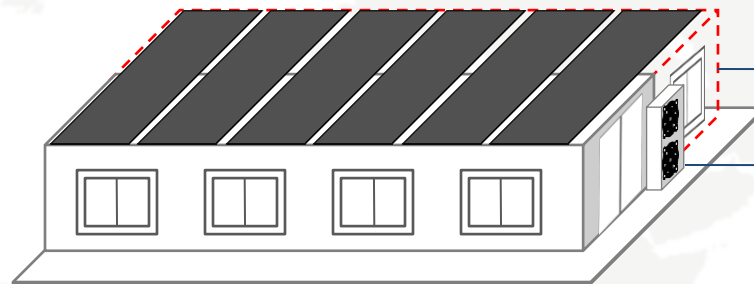


CORNER STONE
DIVISION

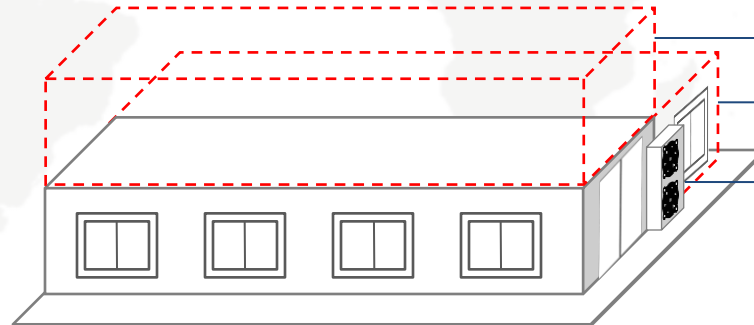




OPTION 1



OPTION 2



OPTION 3

P-V SOLAR PANEL

STRONG DOOR

HERMETICALLY
SEALED WINDOW

EXPANDED FLOOR
STRUCTURES

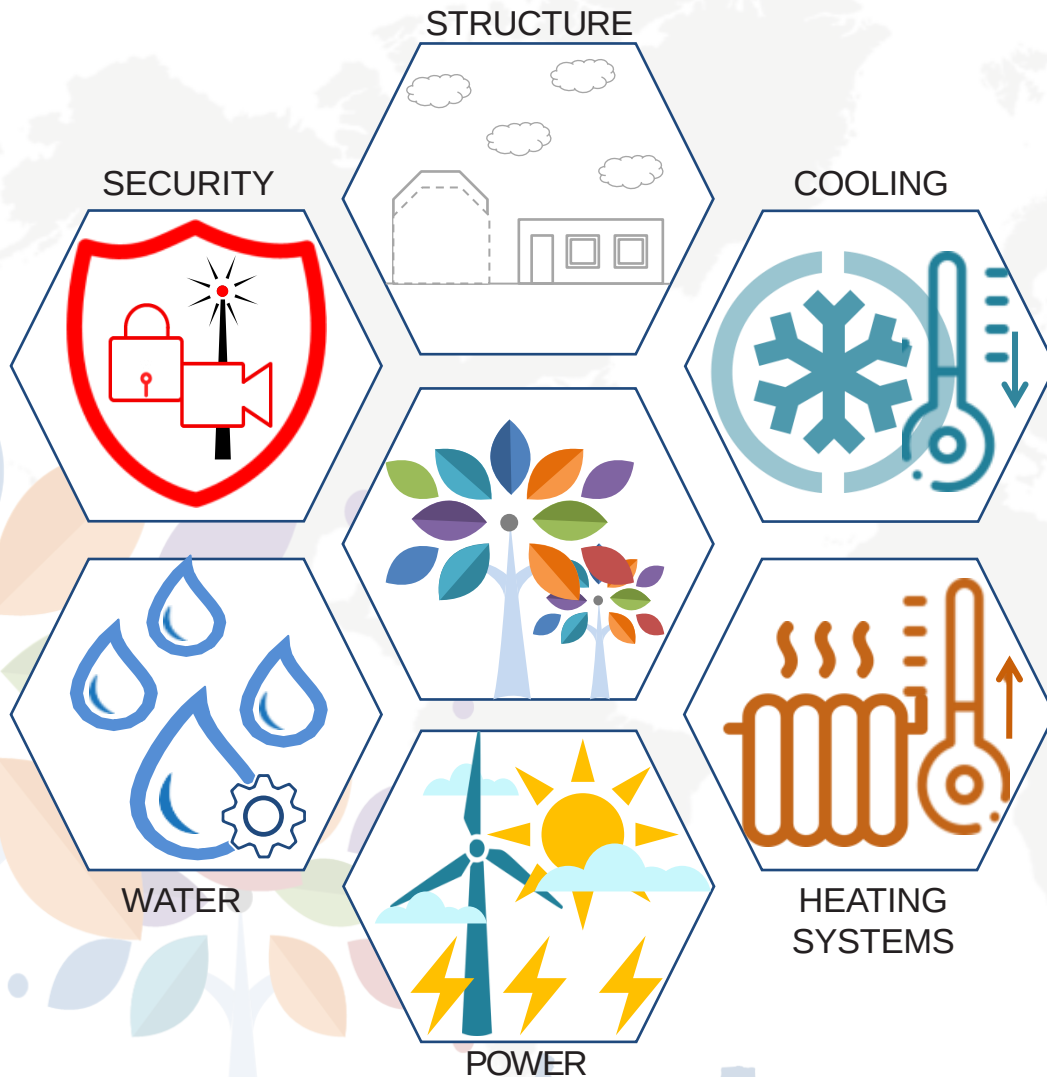
AC / REF ODU *

EXPANDED FLOOR
STRUCTURES

AC / REF ODU *

HOUSING SOLUTIONS

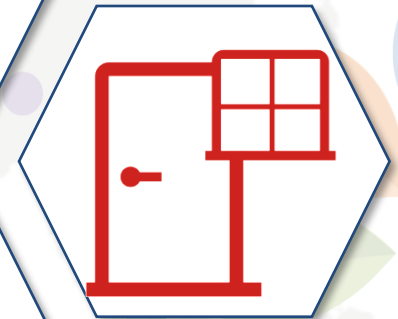
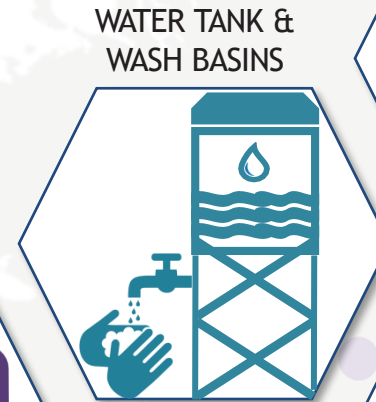
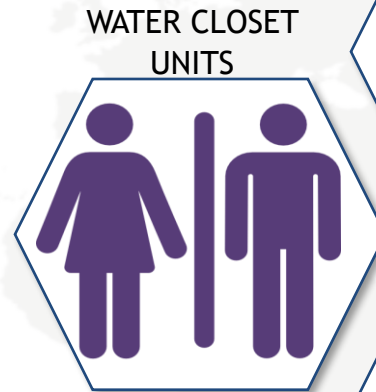
GENERAL SYSTEM



- All of Our Residential units have reinforced structure that is designed to withstand stress of moving and can be upgraded to even withstand air drop.
- Our Residential units can be equipped with energy efficient HVAC system that can integrated with heating system for air and water.
- Residential units have multiple ports of energy generation, they can harness energy from sun, wind, Diesel Generator and Even grid if its available.
- Each Residential unit has onboard battery backup that can provide backup for 12 hours. These battery packs are modular in nature and easy to maintain.
- We have outfitted each Residential unit with state of the art bedding, insulating, protecting, and comfort features
- All of the components used in Residential unit are designed to be modular in nature, allowing for easy maintenance, swapping for change of parts and Enable Future Upgradation.
- Each Residential unit is connected and covered with advance security systems.

HOUSING SYSTEM

- All of our housing units are outfitted with high quality comfort furniture that ensure comfortable leaving for the occupants.
- Each unit can house various number of occupants depending on the variant selected i.e.; 1 pax to 15 pax.
- We have outfitted each of the housing unit with Energy efficient, well insulated And smart HVAC system.
- Our housing unit have been carefully designed to have Hygienic, clean and isolated Environment, making them perfect for long term residence.
- All of our housing units are accessorized with water closet and Wash area Units that provide additional hygiene facility for the occupants.
- Housing units can also be fitted with drone outpost that provide security, and deliver necessities to the occupants.



Housing Solutions



HOPE IN TIMES OF CRISIS



FOOD STORAGE SOLUTIONS

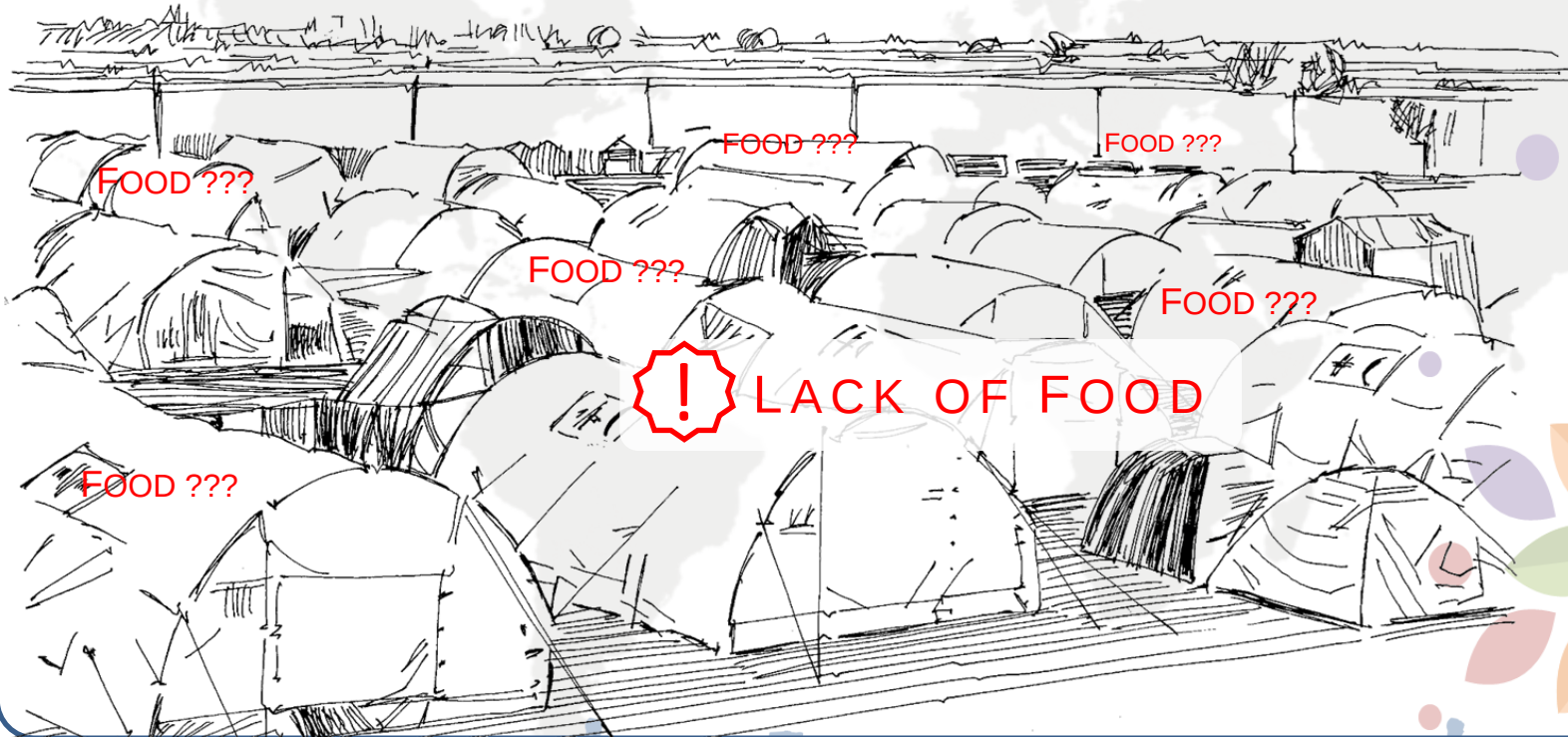


MOST OF THE REFUGEE
CAMPS HAVE FOOD
SHORTAGES OR
RATIONING.

THESE CAMP HAVE FOOD
SHORTAGES MOSTLY DUE
TO WASTING OF FOOD,
DUE TO LACK OF PROPER
FOOD STORAGE AND
SHORT SHELF LIFE

SETTING UP PROPER
FOOD STORAGE UNITS
WILL PREVENT FOOD
WASTAGE AND ENABLE
FOOD SECURITY.

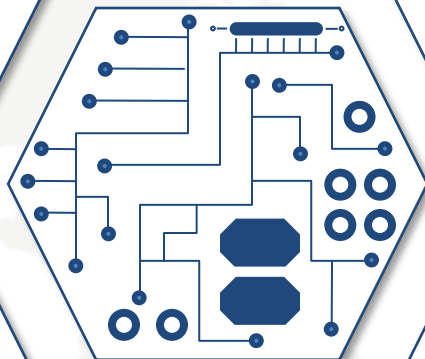
WE HAVE THE
SOLUTIONS



GREEN
TECHNOLOGY



INTEGRATED SMART
TECHNOLOGIES



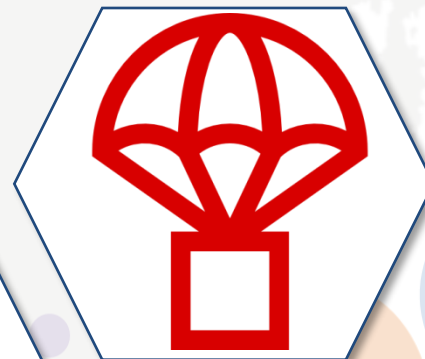
FACTORY
MANUFACTURED



TIMELY DELIVERED
PRODUCTS*



AIRDROP
CAPABILITIES *



EASY TO STORE &
TRANSPORT DESIGN



MODULAR DESIGN &
SOLUTIONS



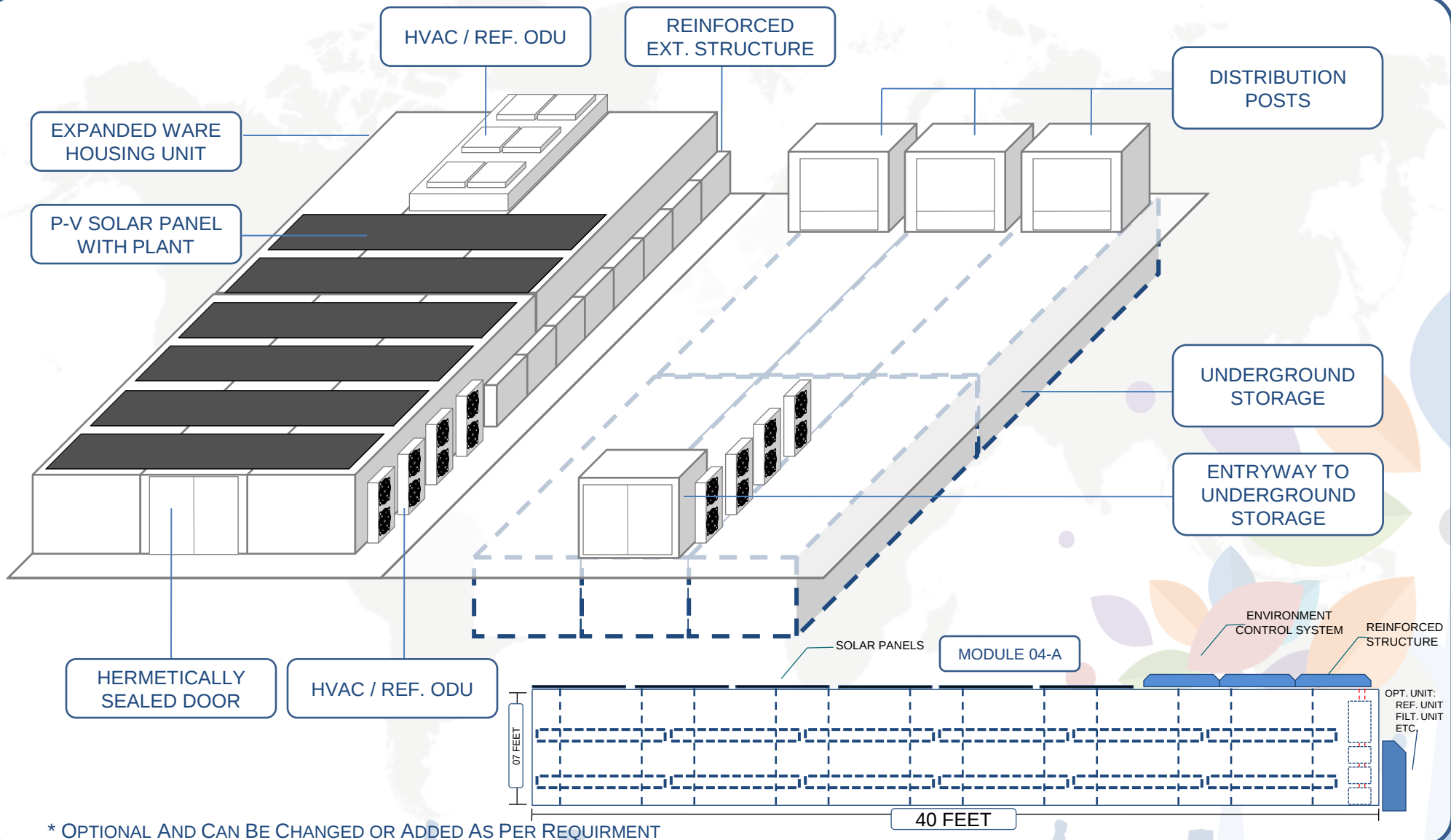
EXTENSIVE QUALITY
TESTING

* T&C APPLIED



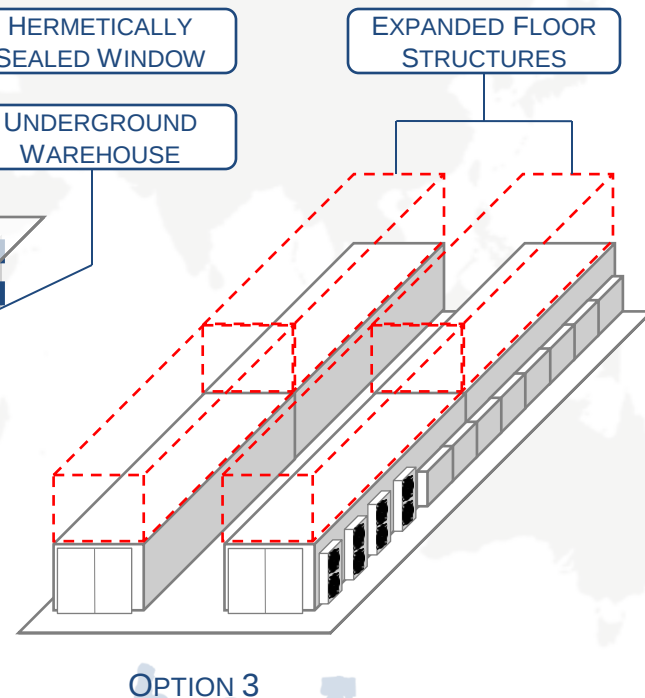
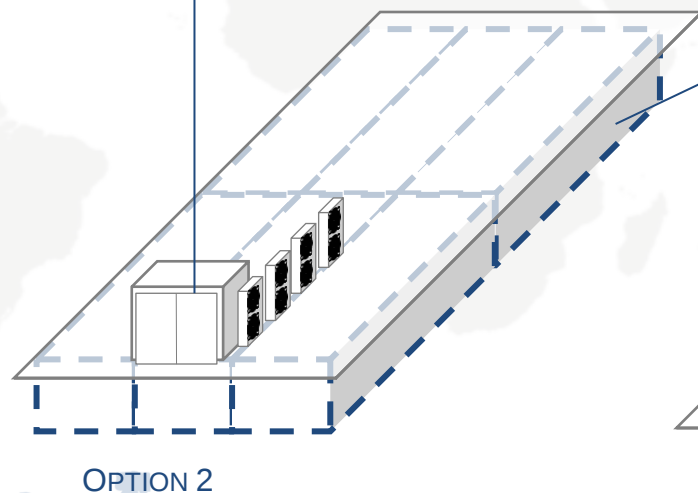
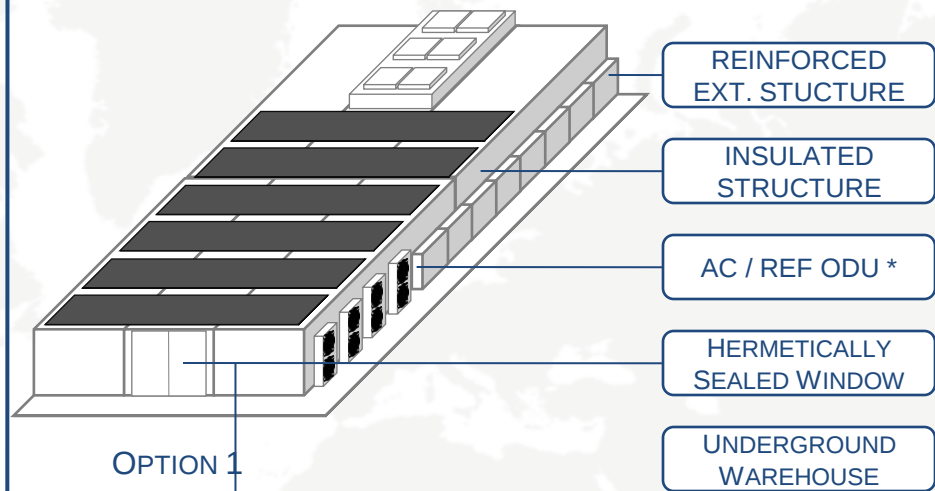
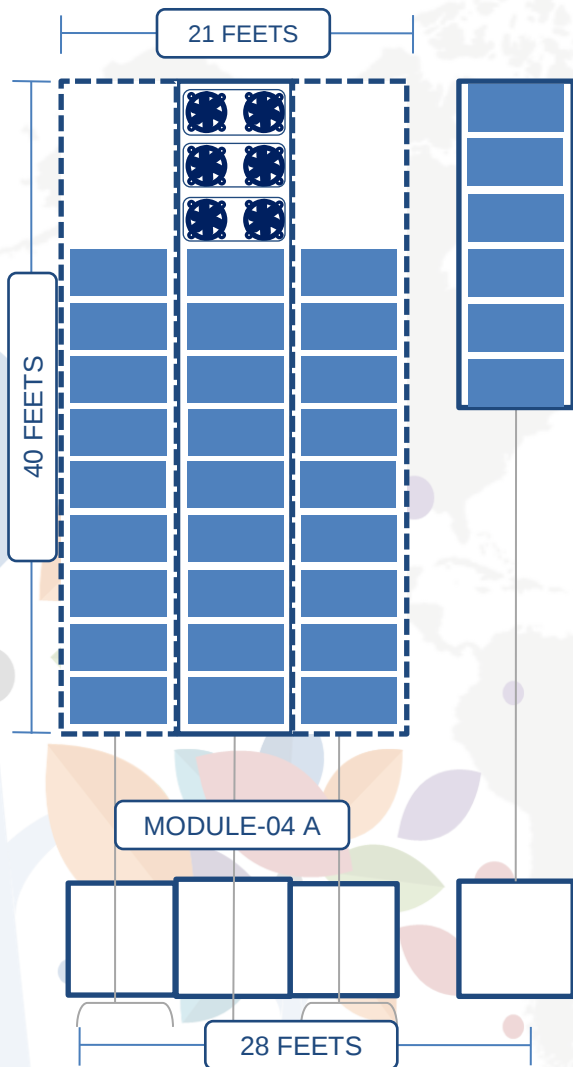
CORNER STONE
DIVISION

FOOD STORAGE SOLUTIONS



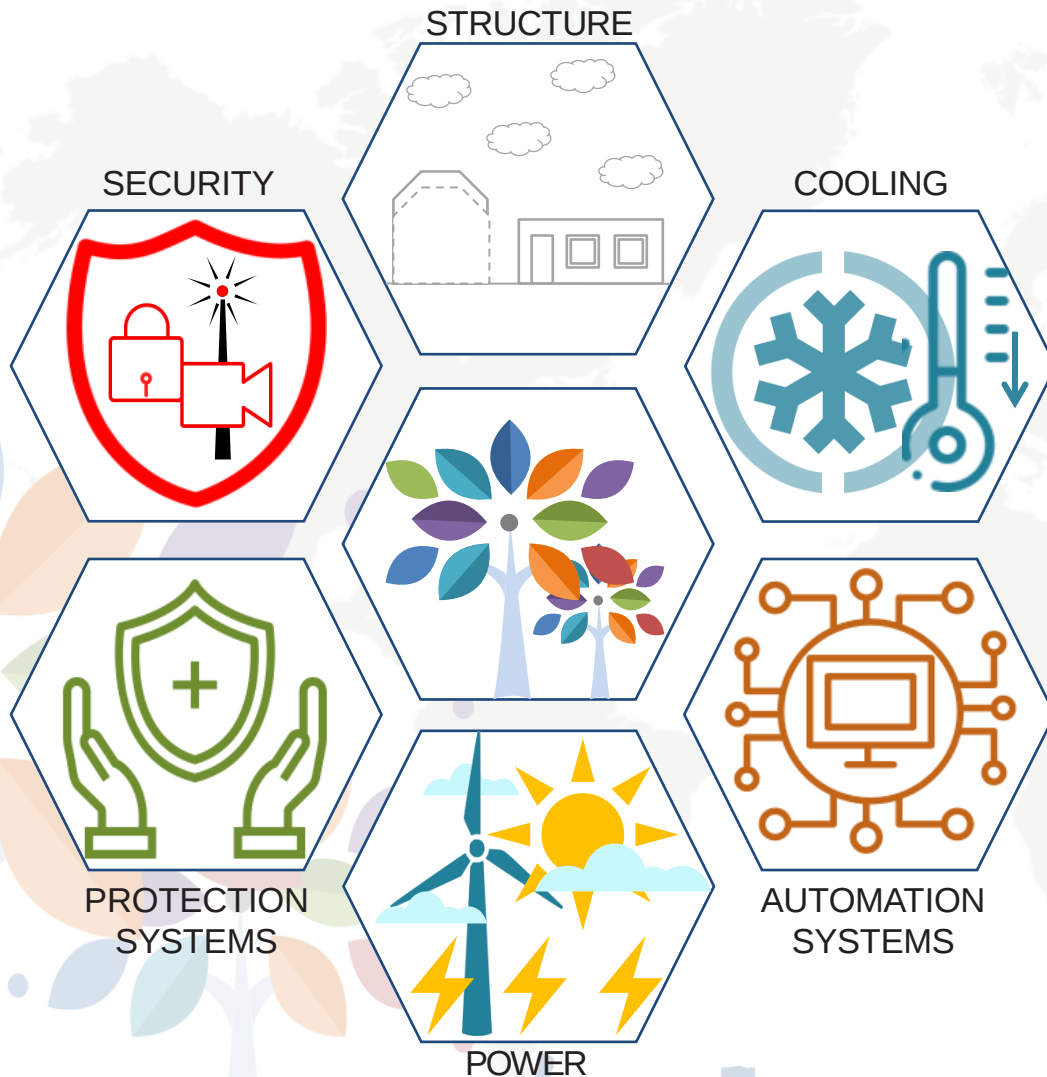
CORNER STONE
DIVISION

FOOD STORAGE SOLUTIONS



FOOD STORAGE SOLUTIONS

GENERAL SYSTEM



- All of Our Warehouse units have reinforced structure that is designed to withstand stress of moving and can be upgraded to even withstand air drop.
- Our Warehouse units can be equipped with energy efficient HVAC/Refrigeration system..
- Warehouse units have multiple ports of energy generation, they can harness energy from sun, wind, Diesel Generator and Even grid if its available.
- Each Warehouse unit has onboard battery backup that can provide backup for 12 hours. These battery packs are modular in nature and easy to maintain.
- We have outfitted each Warehouse unit with state of the protection envelopes that increase shelf life of the stored food. Addl. Protection like Reinforced ext. structure can be added for making unit more secure.
- All of the components used in warehouse unit are designed to be modular in nature, allowing for easy maintenance, swapping for change of parts and Enable Future Upgradation.
- Each Warehouse unit is connected and covered with advance security systems.

STORAGE SYSTEM

- All of our Warehouse units are outfitted with advance Racking & Sorting system
- Warehouse units have two types of transport length of 20 feet and 40 feet
- Each of the warehouse unit can be outfitted with Energy efficient, well insulated And smart cooling-refrigeration system.
- Each of our Warehouse unit has been carefully designed to have Hygienic, clean and isolated Environment, making them perfect for handling, storing and distributing large quantities of food.
- Warehouse unit can be designed with multiple chambers for storing in which each chambers have different temp.
- Portable and fixed Distribution outpost can be setup through out the camp.



CORNER STONE
DIVISION

FOOD STORAGE SOLUTIONS



HOPE IN TIMES OF CRISIS



PORTABLE UTILITY SOLUTIONS

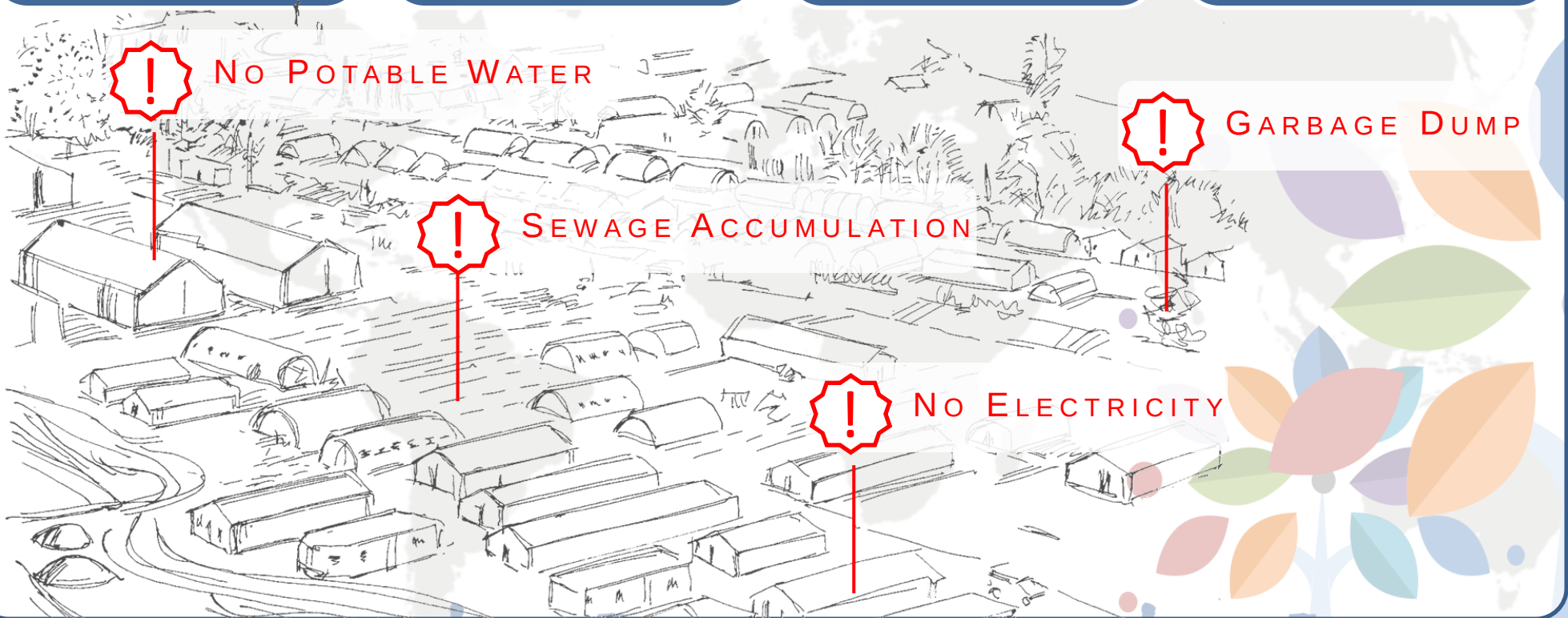


MOST OF THE REFUGEE CAMPS LACK BASIC INFRA NECESSARY FOR BASIC LIVING STANDARDS

THESE CAMP DO NOT HAVE THESE INFRA STRUCTURE BECAUSE SETING THEM UP REQUIRES A LOT OF TIME AND MONEY.

SETTING UP PROPER INFRASTRUCTURE WILL ENABLE BETTER LIVING SANDARD AT THE REFUGEE CAMP.

WE HAVE THE SOLUTIONS

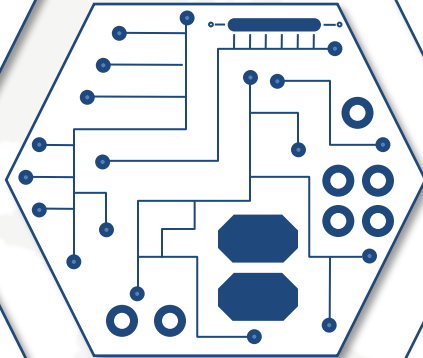


PORTABLE UTILITY SOLUTIONS

GREEN
TECHNOLOGY



INTEGRATED SMART
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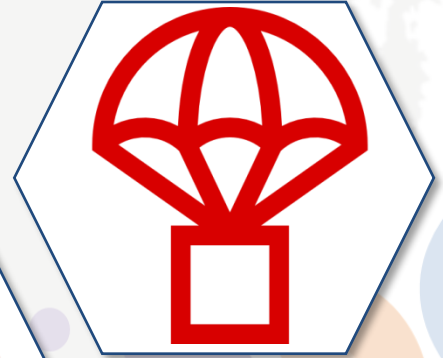
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EXTENSIVE QUALITY
TESTING

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PORTABLE UTILITY SOLUTIONS



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○ Power infrastructure consists of 3 main components

○1) Power Generation :

- Both Renewable and Non- Renewable power generation systems like P-V solar panels atop containers units used together as distributed solar farm.
- Addnl. Power sources like Wind turbine can be used if power generated from solar panel is not enough or fuel is in short supply.
- Depending on the Rapid house type and location of the deployment, combination of power generation units are used.

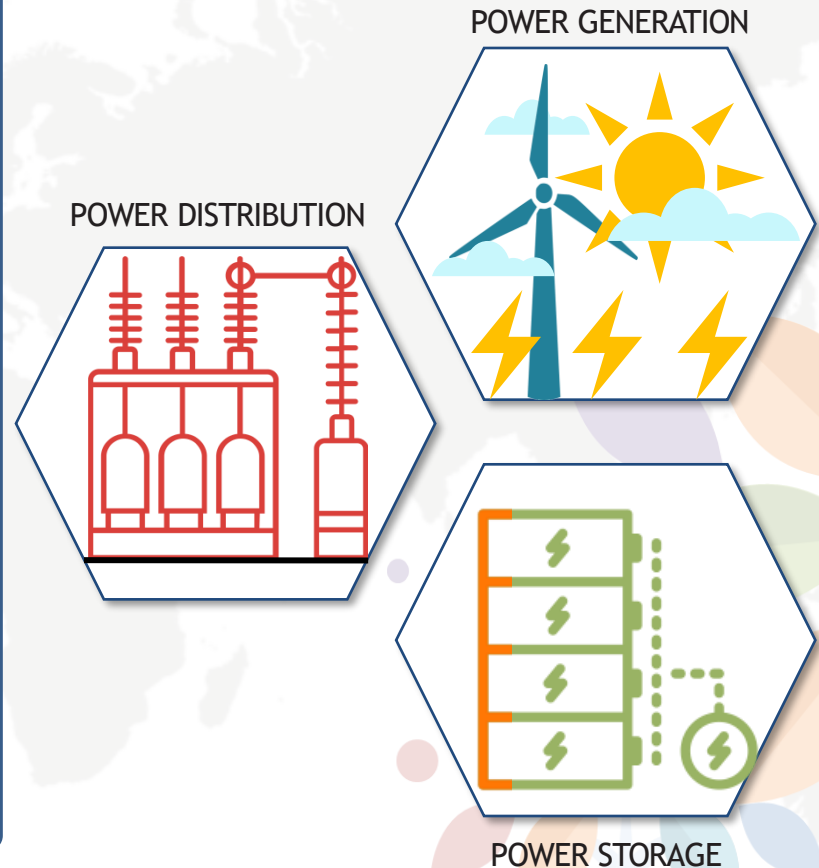
○2) Power Distribution :

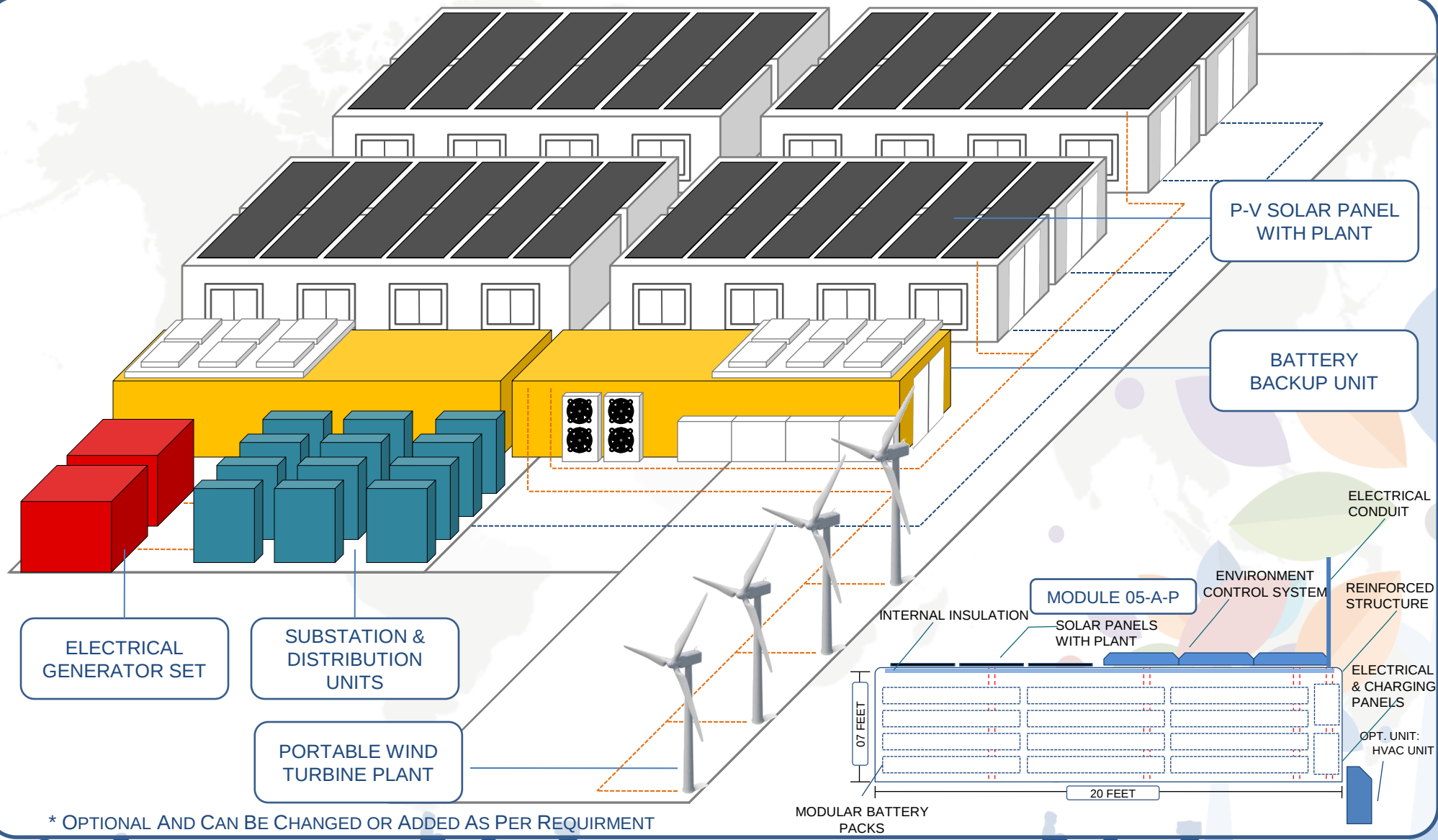
- Power Distribution comprise of power distribution system designed at two level one for the Rapid Housing Unit and other for camp . Both systems are intelligent and be seamlessly integrated with each other.
- They are smart systems and can distribute electricity from multiple sources to port as per demand and on their own.

○3) Power Storage :

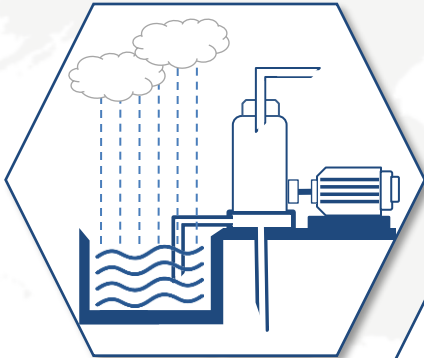
- Like Distribution, storage system is designed on two level the Rapid Build unit level and camp level.
- These batteries are designed to be modular and have long life.

PARTS OF POWER SYSTEMS





WATER EXTRACTION & COLLECTION



WATER FILTRATION



WATER STORAGE & DISTRIBUTION

○ Potable water infrastructure consists of 3 main components

○1) Water Collection & Extraction :

- It's a combination of high tech and low tech practical soln. for collection and extraction of water from multiple sources
- Collection of water is achieved by digging pits that are at least 10 feet deep and lined with plastic sheet.
- Pumping unit consists of two parts; pump and pumping system assembly which enables seamless transition from one source to other and even change pump when they are rendered ineffective.

○2) Water Filtration :

- Water Filtration systems is state of the art system that employs multiple stages of filtration to remove debris, remove toxic chemicals, and most types of pathogens to make water good for drinking and other Human Consumption.
- Filtration system is also outfitted with Reverse Osmosis module for making water suitable for drinking. It can be further upgraded with Ozone filtration system to improve the quality of water.

○3) Water Storage :

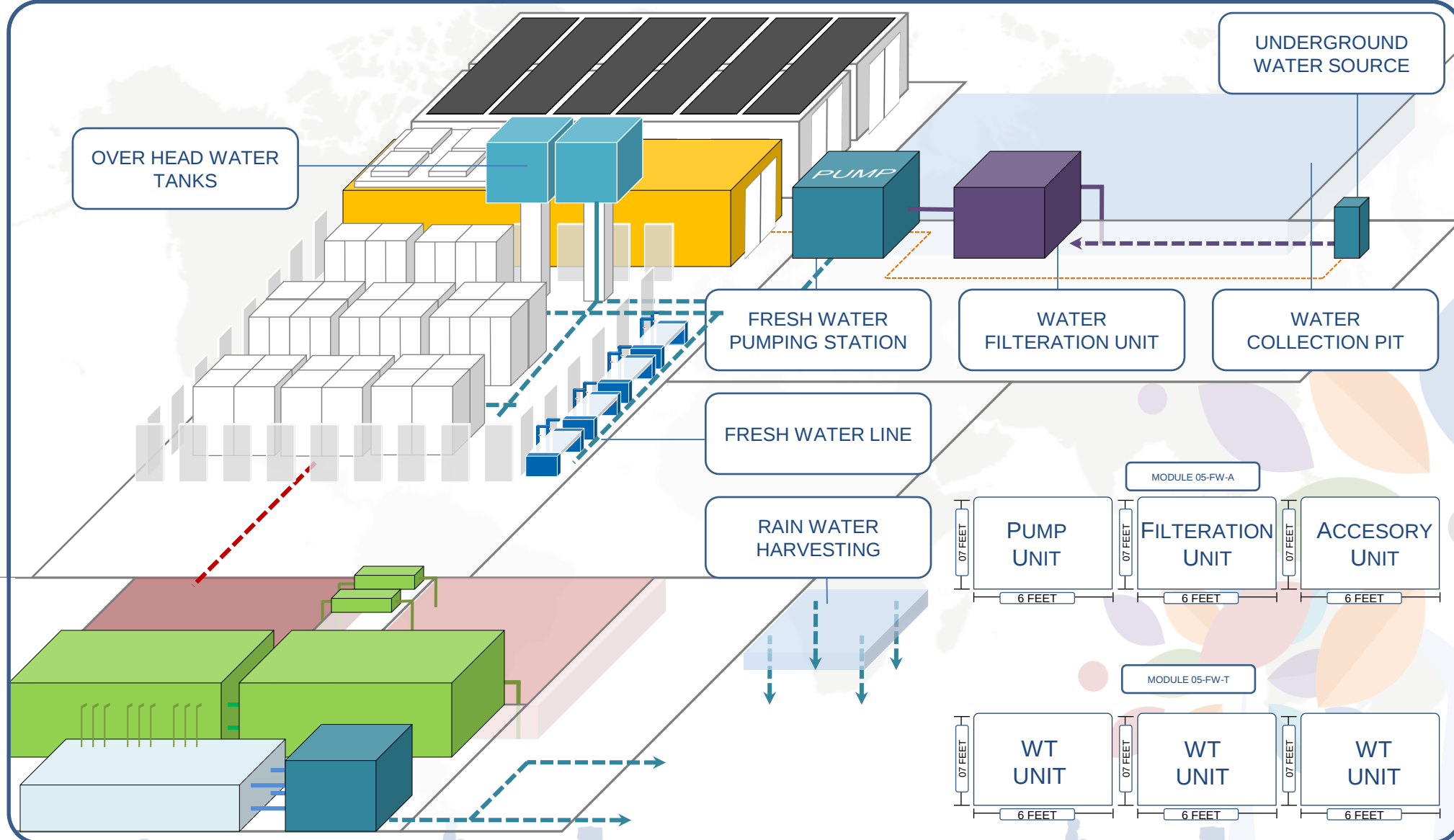
- To conserve energy overhead tanks are used for storage of water over extended period of time and for distribution of water throughout the camp.

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○ Potable water infrastructure consists of 3 main components

○1) Waste Collection :

- it's the first step in waste management for human habitats, towards this end many color coded waste collection bins are placed all over the camp where residents can dump their waste for further processing.

- Color Code Description:

 Organic waste

 In-Organic waste

 Chemical waste

 Bio-Medical waste

○2) Waste Recycle :

- Once waste is dumped in their respective bins then the waste is collected and transported to sorting facility where they are sorted into recyclable and disposable category.
- Recyclable material is recycled into reuse or repurposed as other items or materials.
- Biomedical waste is transported directly to Bio Incinerator.

○3) Waste Disposal :

- After sorting is done and material are marked for disposal then all safe organic material are buried in ground for decomposition while all the non-safe waste material is sent to incinerator.
- Incinerator are of two types one for Biohazard waste and other for regular incinerator waste. Both Burn at Temp. above 1500 C*.

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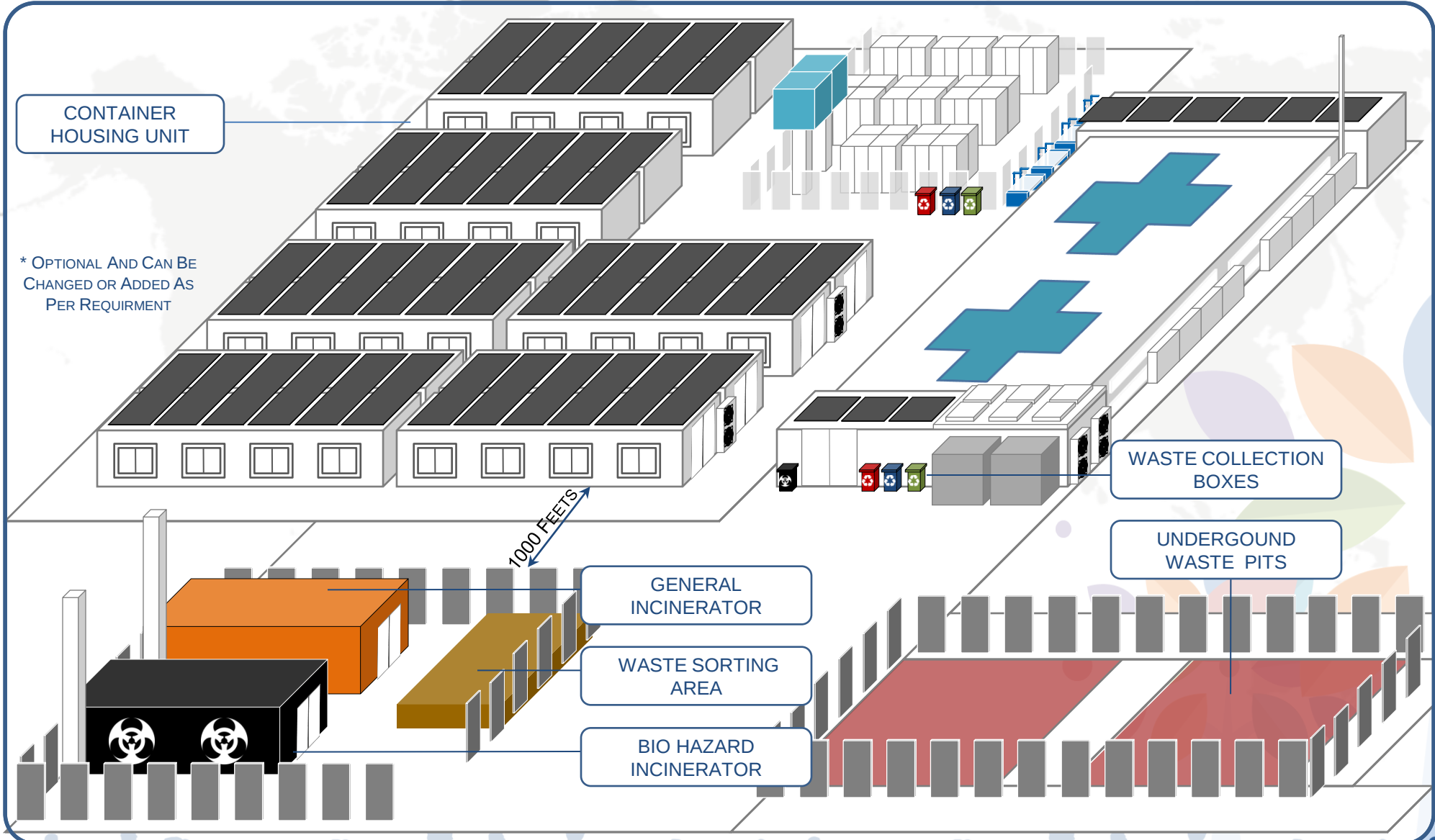
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* T&C applied



WASTE WATER
COLLECTION



WATER TREATMENT



WATER RECLAMATION

○ Waste water treatment infrastructure consists of 3 main components

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○1) Waste Water Collection :

- Network of pipelines are laid throughout the camp that transport waste water from washroom area to the waste water treatment units for further processing.
- It is mostly done by transporting waste water by using Gravity.

○2) Waste Water Treatment :

- Once Waste Water is transported they are collected in pits for stage 1 treatment. From there waste water is passed through various stages for further and further treatment of the water.
- Waste water treatment unit consist of multiple components for treatment over multiple stages, except for pit rest all of components need active power supply for functioning.

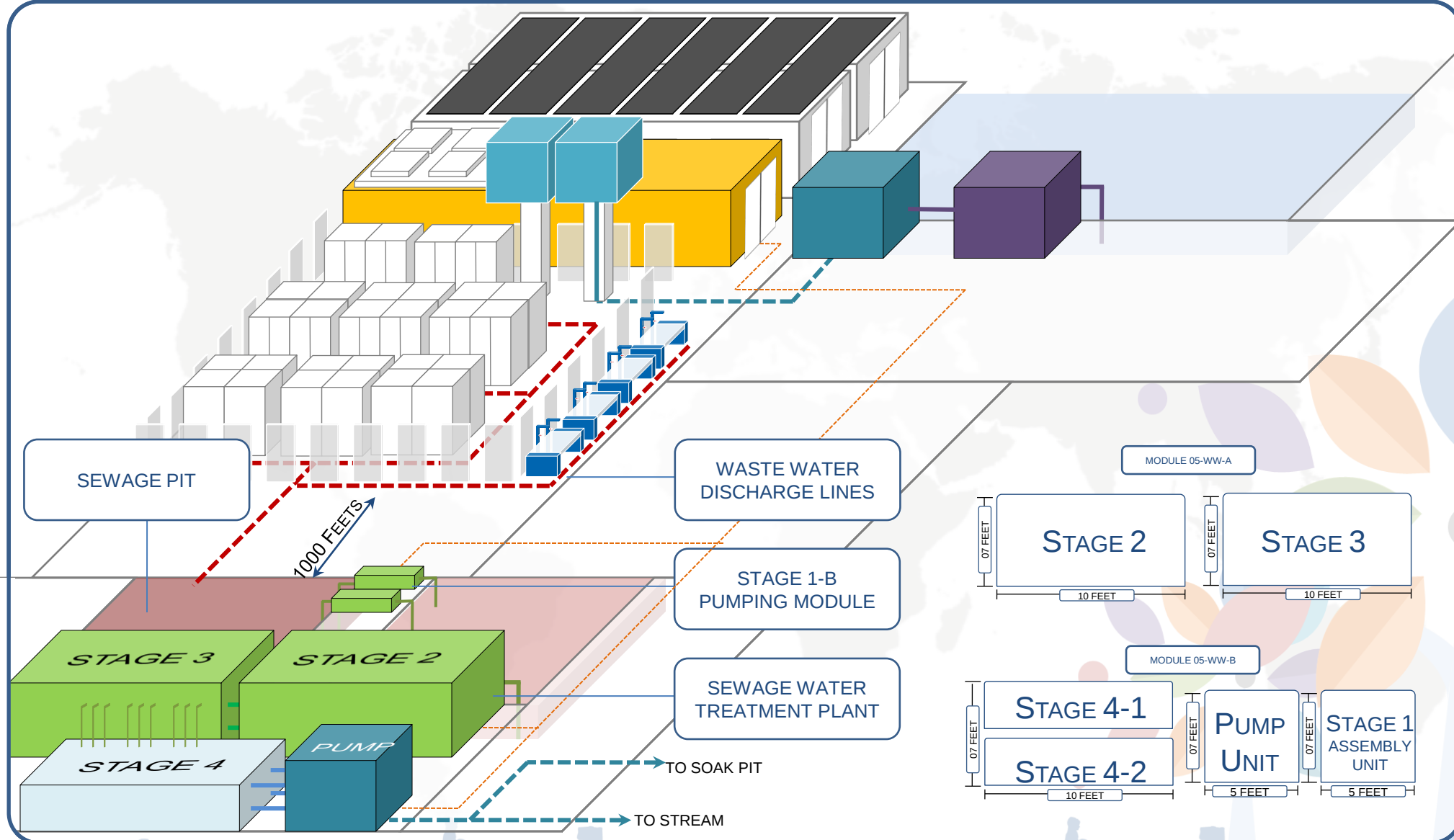
○3) Waste Water Reclamation :

- After removing all the harmful impurities from the waste water it is then transferred to running stream by means of pipes or sent to soak pit for soil absorption and reuse.
- Absorption pit is made on site by digging a minimum pit of size 20x20x10 for soil absorption and percolation into terra firma.



CORNER STONE
DIVISION

PORTABLE UTILITY SOLUTIONS



PORTABLE UTILITY SOLUTIONS





HOPE IN TIMES OF CRISIS



BUNKER SOLUTIONS



CORNER STONE
DIVISION

MOST OF THE REFUGEE
CAMPS LACK PROPER
PROTECTION FOR THE
RESIDENTS.

REFUGEES ARE LIKE
SITTING DUCKS FOR
SECONDARY ESCALATION
OF CONFLICT OR
DESTRUCTION

SETTING UP PROPER
BUNKER UNIT IS
IMPORTANT FOR SUCCESS
OF RELIEF EFFORTS

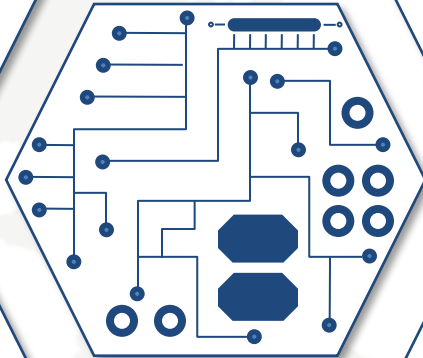
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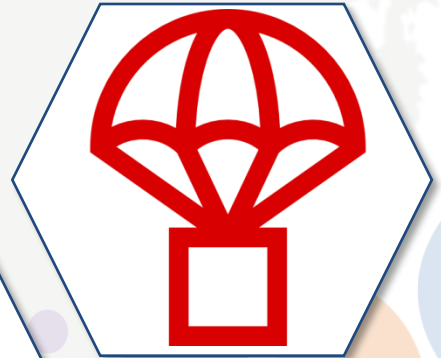
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EXTENSIVE QUALITY
TESTING

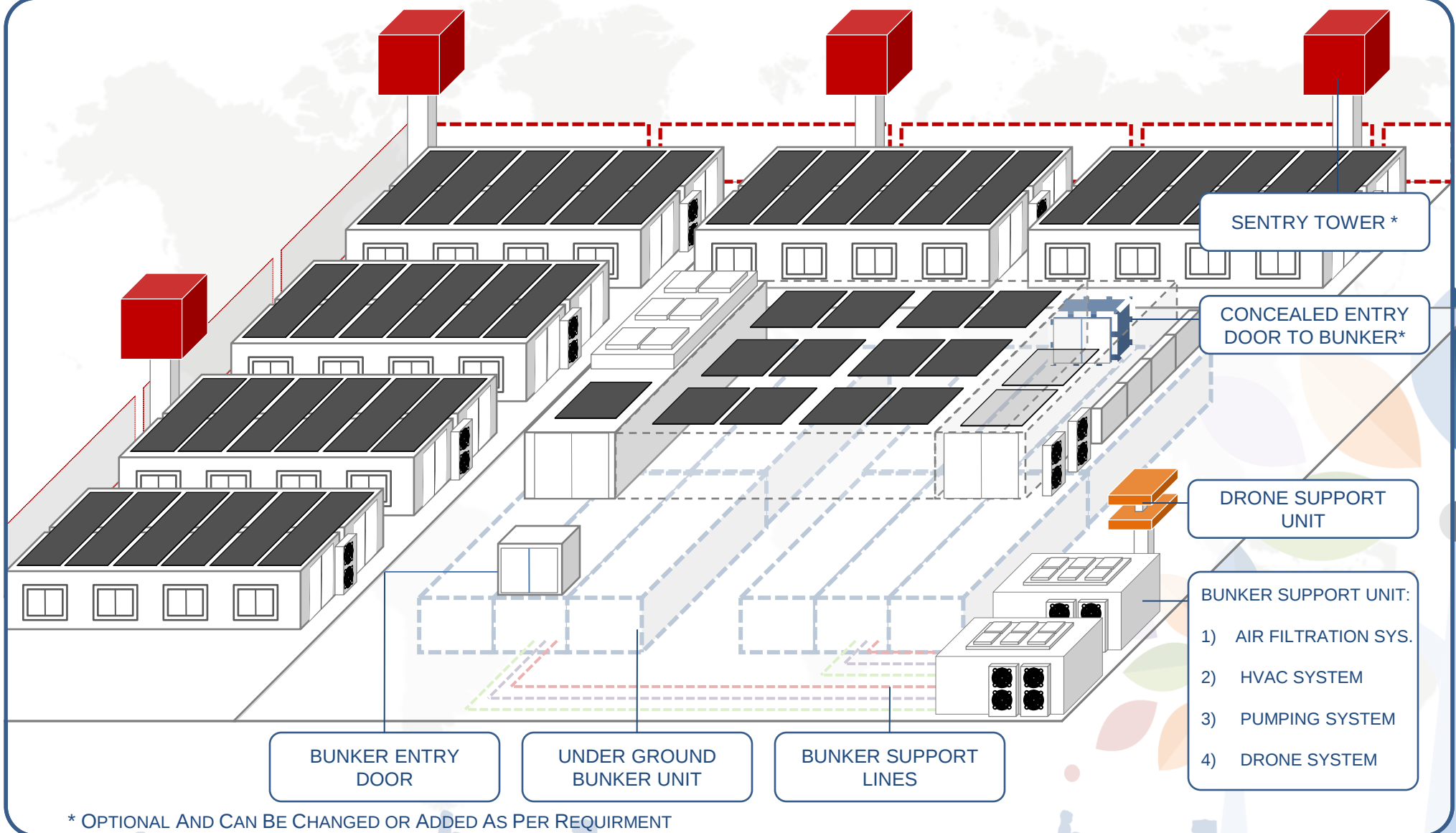
* T&C APPLIED

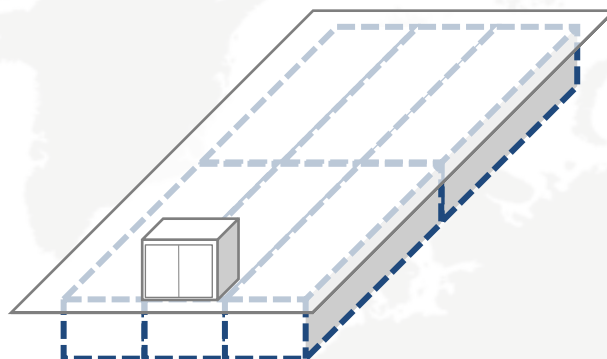
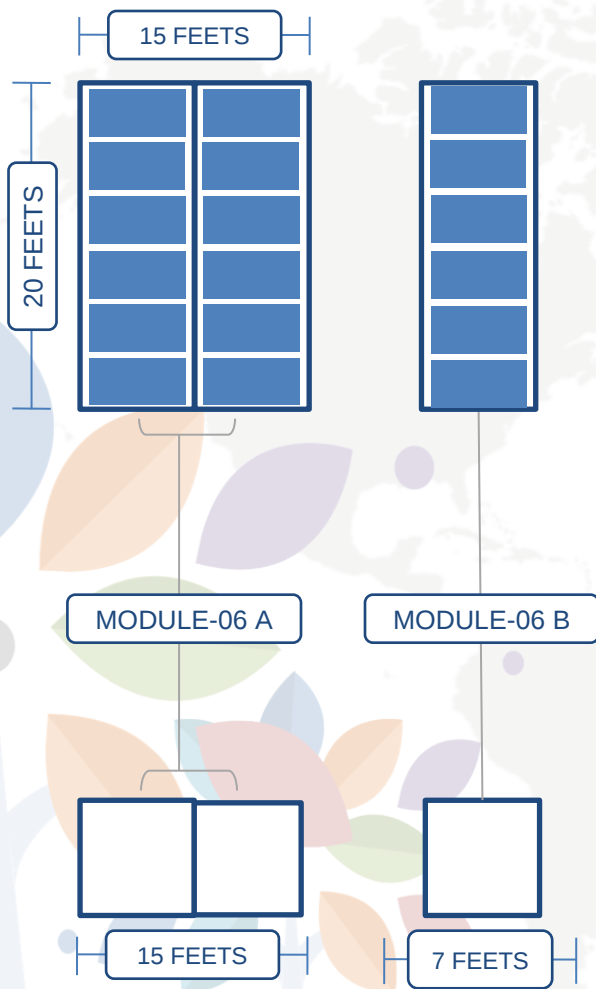


BUNKER SOLUTIONS

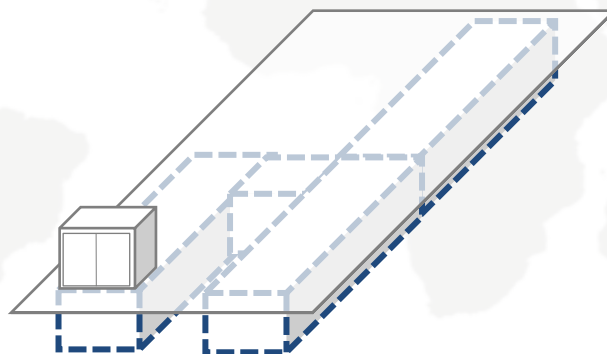


CORNER STONE
DIVISION



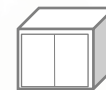


OPTION 1



OPTION 2

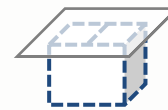
ENTRY GATE OPTIONS



STANDARD ENTRY

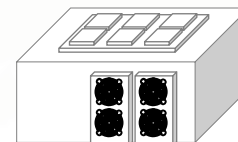


CONCEALED ENTRY

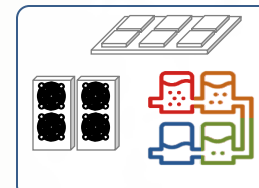


VERTICAL UNDERGROUND ENTRY

AUXILLARY UNIT OPTIONS

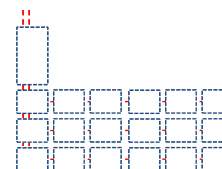


STANDARD UNIT

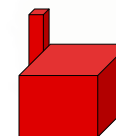


SEGREGATED UNIT

POWER UNIT OPTIONS



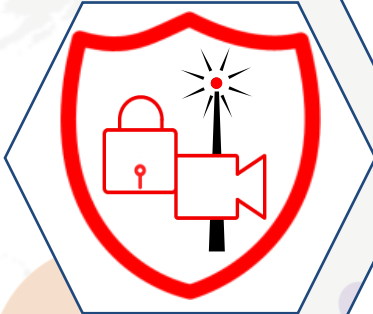
BATTERY PACKS



GENERATOR UNIT

BUNKER SOLUTIONS

SECURITY



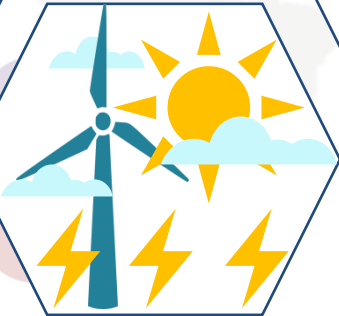
STRUCTURE



COOLING



WATER



POWER

HEATING SYSTEMS



GENERAL SYSTEM

- All of Our Bunker units have reinforced structure that is designed to withstand great amount of and pressure since its underground.
- Our Bunker units can be equipped with energy efficient HVAC system that can integrated with heating system for air and water.
- Bunker units have 3 ports of energy generation, they can harness energy from Generator, grid and battery.
- Each Bunker unit has onboard battery backup that can provide backup for 48 hours. These battery packs are modular in nature and easy to maintain.
- We have outfitted each Bunker unit with state of the art bedding, insulating, protecting and other comfort features
- All of the components used in Bunker unit are designed to be modular in nature, allowing for easy maintenance, swapping for change of parts and Enable Future Upgradation.
- Each Bunker unit is connected and covered with advance security systems.
- They are cheaper* than conventional bunker

* T& C applied

BUNKER SYSTEM

- All of our bunker units are outfitted with high quality comfort furniture that ensure comfortable leaving for the occupants.
- Each unit can house various number of occupants depending on the variant selected i.e.; 1 pax to 15 pax.
- We have outfitted each of the bunker unit with Energy efficient, well insulated And smart HVAC support unit.
- Our bunker unit have been designed meticulously to have Hygienic, clean and isolated Environment, making them perfect for long term residence.
- All of our housing units are accessorized with water closet. They are equipped with support system.
- Support Unit houses HVAC , Air filtration water filtration and pumping components
- Bunker support units can also be fitted with drone outpost that provide security, and deliver necessities to the occupants.



BUNKER SOLUTIONS



CORNER STONE
DIVISION



HOPE IN TIMES OF CRISIS



HOPE IN TIMES OF CRISIS

