

REFERENCE

Ministry of Health | Kingdom of Saudi Arabia | 2021

Volume Study of Prefabricated Hospital 50 beds in Kingdom of Saudi Arabia (modular system)



- A MAIN HOSPITAL BUILDING
- B TECHNICAL UTILITY BUILDING
- C ENERGY UTILITY BUILDING
- D GATE HOUSE
- E EVAPORATION STATION
- SIDWALK
- ROAD - ASPHALT
- WHITE CONCRETE
- PARKING PLACES
- GRASS
- BUILDINGS



Volume Study of Prefabricated Hospital 50 beds in Kingdom of Saudi Arabia

Investor, locality: Ministry of Health; Kingdom of Saudi Arabia

Implementation term: 2021

Description: The target of the Volume Study is to show the possibility of the implementation of hospital facility with 50 beds in the land plot of Jizan Province (defined by GPS coordinates 17°13'39.8"N 43°06'03.4"E), respecting the basic requirements of Ministry of Health of Kingdom of Saudi Arabia. This study is showing the possibility to use prefabricated modular system of the facility construction. Such system can have an advantage in the speed of installation, future possible expansion, and also possible future re-location to other area.

Scope of delivery: **Design, construction and equipping of Prefabricated Hospital 50 beds (modular system).**

Number of beds: 76

- Emergency (1st Floor): 4 observation beds, 2 isolation beds, 2 resuscitation beds, 2 triage beds
- Patient ward (2nd Floor): 32 standard care beds, 4 isolation beds
- Dialysis (2nd Floor): 8 beds/chair, 2 isolation beds
- ICU Department (3rd Floor): 6 ICU beds, 2 isolation ICU beds
- Obstetrics Department: 2 beds (labor room), 6 newborn beds, 3 NICU beds, 1 NICU isolation bed

Technology Equipment (Medical Equipment)

- The equipping of the hospital facility is planned in the respect of required and planned departments and wards and it contents all necessary equipment for the hospital facility operation. The list of mounted equipment, movable equipment and the furniture is enclosed in document in volume study.
- Medical Technology is proposed on the base of experience of other implementations and it consists worldwide producers, including well-known and reputed Czech producers. Final Equipment list will be adapted jointly with specialists of MOH, also to comply with habits of MOH and service network.

Outside Facade Design – Overhanging Facade

- Installed prefabricated modules give the possibility to adjust outside visage with the use of overhanging facade. On the one side it can be installation adjusted to the local environment, fulfilling special requests of the client and also to make for example additional thermal insulation or deaeration of the facility.

SITUATION



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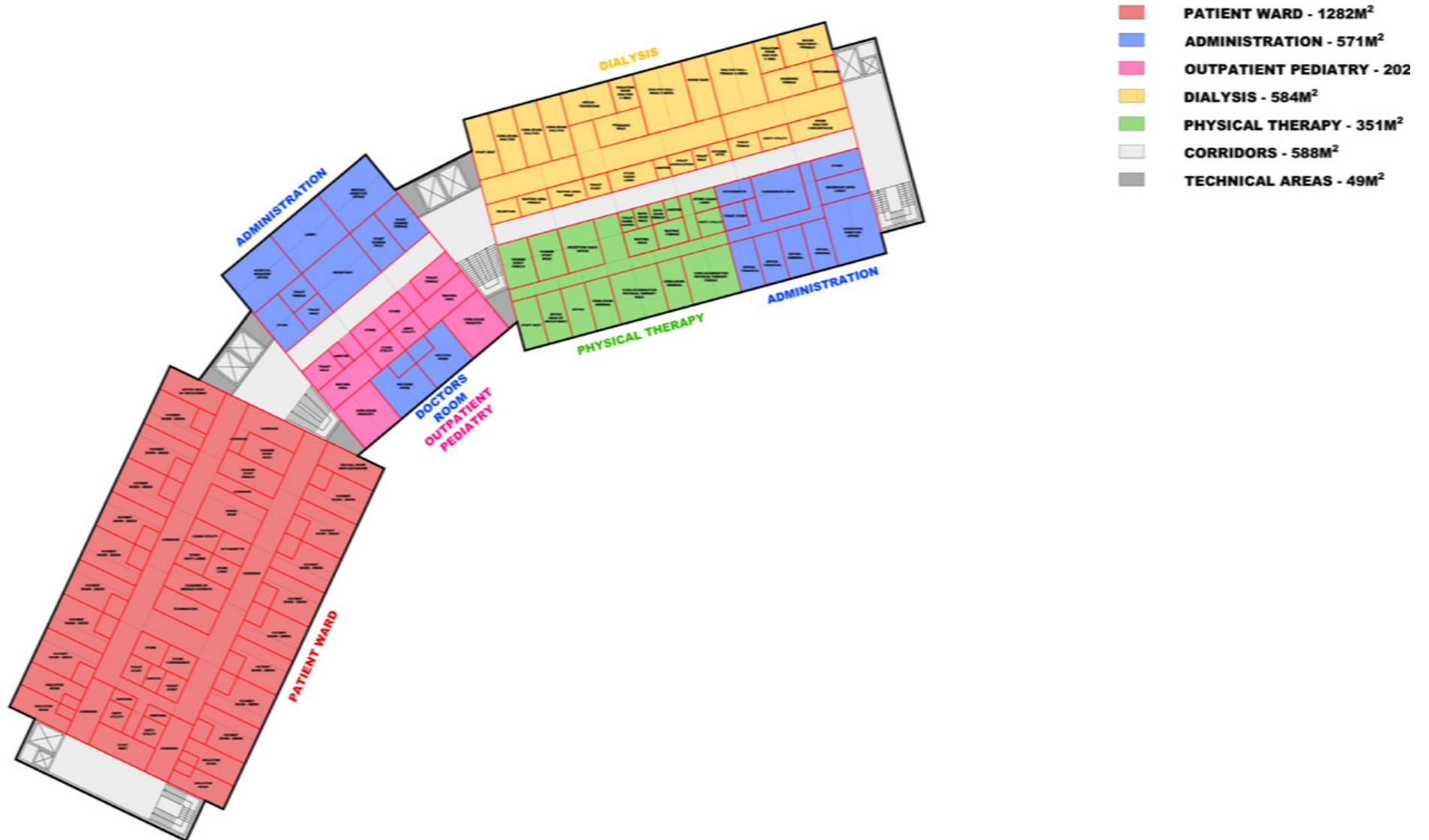
Illustrative photo of the area for which we designed the study

1ST FLOOR



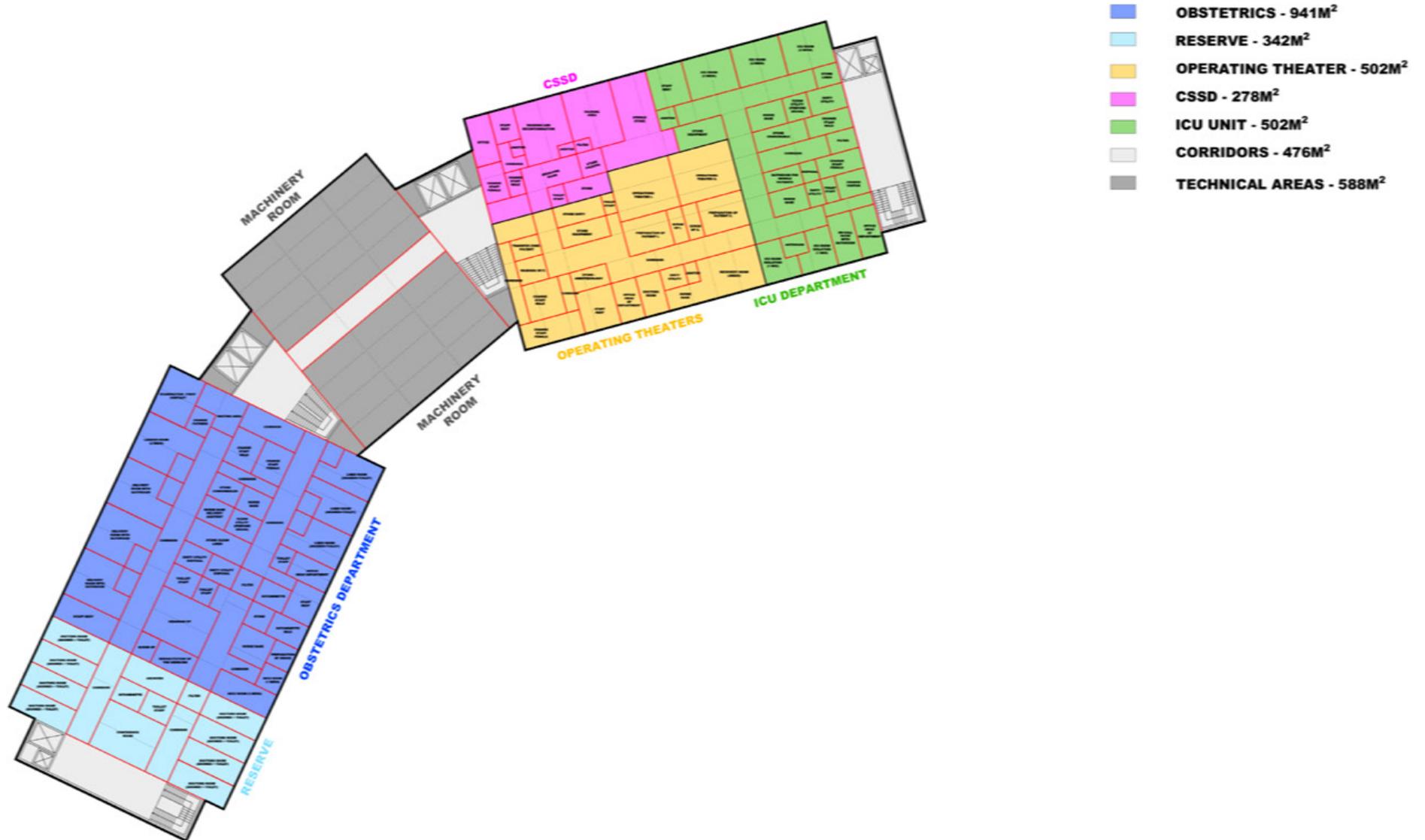
Dispositions are blurred due to being subject to an „NDA“ (Non-disclosure agreement)

2ND FLOOR



Dispositions are blurred due to being subject to an „NDA“ (Non-disclosure agreement)

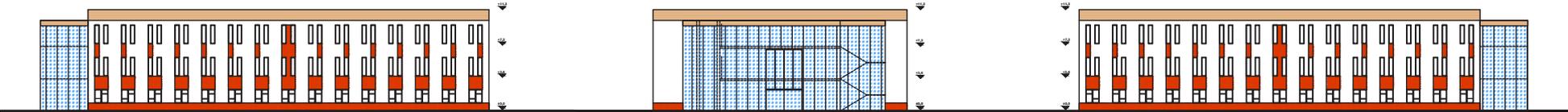
3RD FLOOR



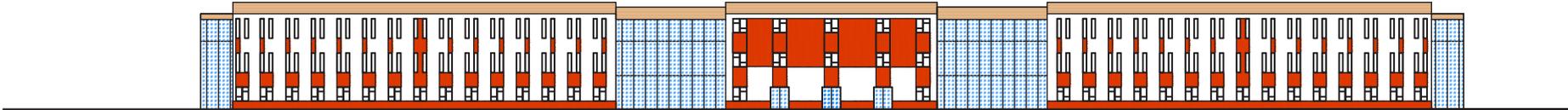
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ELEVATIONS

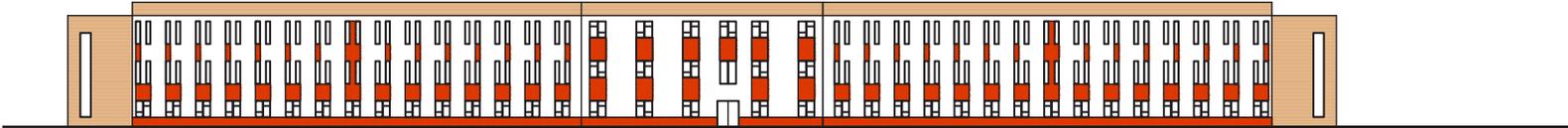
EXPLODED ELEVATION OF THE BUILDING (GLASS AND WOOD VARIANT)



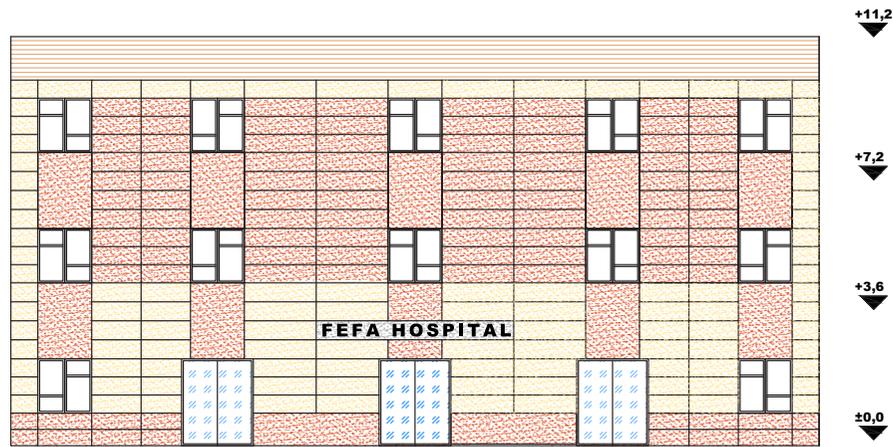
FRONT ELEVATION OF THE BUILDING (GLASS AND WOOD VARIANT)



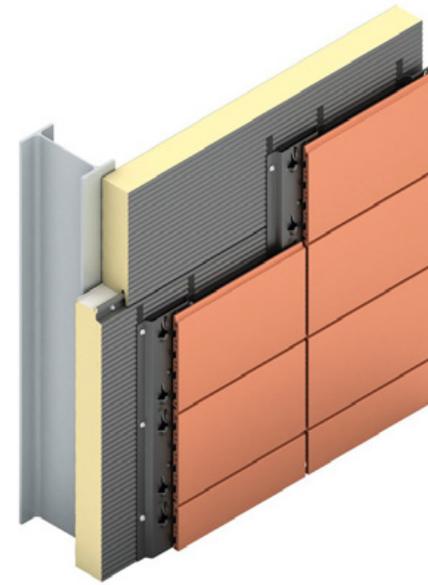
BACK ELEVATION OF THE BUILDING (WOOD VARIANT)



DETAIL OF FACADE DESIGN



- 
Glazed facade
- 
Ventilated aluminum facade
- 
Ventilated wood facade



Images are for illustration purposes only