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Design Manual for Mobile Medical Fitness

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Health Regulation Sector

Dubai Health Authority

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INTRODUCTION

The Health Regulation Sector (HRS) plays a key role in regulating the health sector. HRS is mandated by the Dubai Health Authority (DHA) Law No. (6) of the year (2018) with its amendments pertaining to DHA, to undertake several functions including but not limited to: Developing regulations, policy, standards and guidelines to improve quality and patient safety and promote the growth and development of the health sector.

Licensure and inspection of health facilities as well as healthcare professionals and ensuring compliance to best practice.

Managing patient complaints and assuring patient and physician rights are upheld.

Governing the use of narcotics, controlled and semi-controlled medications.

Strengthening health tourism and assuring ongoing growth.

Assuring management of health informatics, e-health and promoting innovation.

The Design Manual for Mobile Medical Fitness aims to fulfill the following overarching Dubai Health Sector Strategy 2026:

- Pioneering Human-centered health system to promote trust, safety, quality and care for patients and their families.
- Make Dubai a lighthouse for healthcare governance, integration and regulation.
- Leading global efforts to combat epidemics and infectious diseases and prepare for disasters.

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- Pioneering prevention efforts against non-communicable diseases.
 - Become a global digital health hub.
 - Foster healthcare education, research and innovation.
 - Strengthening the economic contribution of the health sector, including health tourism to support Dubai economy.

EXECUTIVE SUMMARY

The Dubai Health Authority has published a standard for Mobile Medical Fitness Centres (MMFC) to perform medical fitness screening tests for its expatriate population which aims to improve geographical accessibility across Dubai. The purpose of this Manual is to define clear Design recommendations for Mobile Medical Fitness Centres that would assist the Dubai Health and their approved partners of the requirements across the emirate.

MMFC is an add-on service to the existing Medical Fitness Centre, and it is not a standalone service. Existing Medical Fitness Centres shall coordinate with Dubai Health for acquiring add-on services and approval on the geographical location. MMFC shall approach Dubai Health Authority to obtain necessary license.

Medical Fitness test is a mandatory requirement for all expats in the UAE and the screening forms are a prerequisite for residency or visa. The scope of this document is to establish a Design Manual for Mobile Medical Fitness Centres across Dubai. This will assist Dubai Health and their partners with the standard requirements to build a Mobile Medical Fitness Centre. Dubai Health is responsible to ensure that the guidelines in this manual are implemented by Dubai Health and their approved partners and should meet all the requirements mentioned under this Manual. This document should be read in conjunction with DHA Health Facility Guidelines 2019 and with DM Code 223 to integrate the requirements of People of Determination.

This manual should be read in conjunction with the DHA Standards for Medical Fitness Centre.

DEFINITIONS

Mobile Medical Fitness Centre/Unit is a specially designed mobile, transportable or re-locatable vehicle equipped with a necessary medical fitness equipment's that performs standardized and legally required screening tests to issue a medical fitness certificate, confirming to be free of communicable diseases, for new applicants or residents of Dubai in order to issue or renew their residence visa respectively.

Screening test is performed to detect potential health disorders or diseases.

ABBREVIATIONS

DHA	:	Dubai Health Authority
DM	:	Dubai Municipality
FANR	:	Federal Authority of Nuclear Regulation
MMFC	:	Mobile Medical Fitness Centres
PPP	:	Public Private Partnership
RPO	:	Radiation Protection Officer
POD	:	People of Determination
CRA	:	Central Receiving Area
RTA	:	Roads and Transport Authority

1. BACKGROUND

The Dubai Health Authority (DHA) is establishing the Design Manual for Mobile Medical Fitness Centres to standardize the health facility design recommendations for healthcare providers. A Mobile Medical Fitness Centre (MMFC) is a specially designed mobile, transportable or re-locatable vehicle used by all customers including People of Determination to receive care and services as appropriate. Currently, DHA is carrying out Medical Fitness tests at an average of 2 million customers per year. In addition to the existing agreement models, DHA intends to meet with the growing demand by extending its services to the Public Private Partnership model and providing mobile services around the city of Dubai. Dubai Health is the entity responsible to select the capacity and module type for its implementation.

1.1. Categories of customers:

- 1.1.1. Regular (male & female)
- 1.1.2. Laborers (male)
- 1.1.3. Company (male & female)
- 1.1.4. VIP

1.2. Required Authority Clearance and safety aspects:

- 1.2.1. Police
- 1.2.2. Dubai Municipality
- 1.2.3. Dubai Civil Defence
- 1.2.4. RTA

1.2.5. FANR

1.3. A permit from the Roads and Transport Authority (RTA) to park where larger than one space is required.

1.4. RTA Safety Handbook for Truck and Bus to be considered.

2. SCOPE

2.1. Management of Mobile Medical Fitness Services under DHA and Dubai Health.

3. PURPOSE

3.1. The purpose of this manual is to encourage the adoption of best practice in DHA licensed Mobile Medical Fitness Centres to provide a high-quality continuum of care and to fulfil the requirements of their sponsoring institutions in Dubai.

3.2. Formulating standards and protocols that foster excellence and optimize success.

3.3. Creating sustainability in healthcare system by preventing diseases in pursuit of the well-being of the community.

3.4. Mobile Medical Fitness Centres design manual achieves the following key objectives:

3.4.1. Provide guidance to designers that working in healthcare facilities.

3.4.2. Eliminate design features that result in unacceptable practices.

3.4.3. Provide a knowledge base to inform future healthcare design consultants.

3.4.4. Reduce traditional barriers to healthcare access such as geographical isolation, transportation issues, time constraints and financial cost.

4. APPLICABILITY

- 4.1. All Mobile Medical Fitness Centres across the Emirate of Dubai in collaboration with Dubai Health and their approved partners.

5. CHAPTER ONE: GENERAL DESIGN CONSIDERATIONS

- 5.1. The type of Vehicle used in MMFC should be portacabin, bus (customized), or large semi-truck that can accommodate all the required rooms.
- 5.2. The site and access to any medical fitness centre should be convenient to People of Determination (POD).
- 5.3. The entrance ramp should be 120 cm wide, and the main door width should not be less than 90 cm considering POD.
- 5.4. The design measurements of the vehicle shall be coordinated with RTA.
- 5.5. MMFC shall be in the areas where it does not obstruct with the neighbouring buildings or construction site.
- 5.6. Corridors should have a minimum width of 90 cm.
- 5.7. The minimum ceiling height should be 2.20 m.
- 5.8. Selected flooring surfaces should be easy to maintain, readily cleanable, and appropriately wear-resistant for the location.
- 5.8.1. Stairways flooring should have slip-resistant surfaces.
- 5.8.2. Slip-resistant flooring products should be considered for flooring surfaces in wet areas and areas that include water for patient services.

- 5.8.3. Carpet should not be used in examination rooms, if used in patient waiting areas and corridors, carpet should be glued or stretched tight and free of loose edges or wrinkles.
- 5.9. Wall finishes should be washable, moisture-resistant and smooth. It is recommended to use wall finish treatments that do not create ledges or crevices which can accumulate dust and dirt.
- 5.9.1. The following should be avoided:
- a. Highly polished flooring, and
 - b. Wall finish that creates glare.
- 5.9.2. A hands-free operating tap and liquid or foam soap dispensers should be provided at all hand-washing stations in the Mobile Medical Fitness Center.
- 5.9.3. Joints for floor openings for pipes and ducts should be tightly sealed.
- 5.10. The Mobile Medical Fitness Centre should be conveniently accessible to people of determination throughout the facility (Refer DM code 223).

6. CHAPTER TWO: RECEPTION AND WAITING AREA

- 6.1. A reception, information counter or desk should be available to provide visual control of the entrance to the Mobile Medical Fitness Centre (MMFC) and should be immediately apparent from that entrance.
- 6.2. A Reception and Waiting Area should have a minimum floor area of 5 m².

- 6.3. The information counter should be managed by MMFC staff and provide access to customers.
- 6.4. The waiting area seats ratio should be at least two seats per consultation room (2:1)
- 6.5. Common Toilet shall accommodate the requirements for People of Determination.
- 6.6. A hand-sanitizing stations should be provided in waiting areas in corridors.

7. CHAPTER THREE: CONSULTATION AND EXAMINATION ROOMS

- 7.1. Consultation room should have a minimum floor area of 5 m².
- 7.2. Hand sanitizer dispenser should be provided.
- 7.3. Equipment's and supplies required for each service should be based on the services provided in Mobile Medical Fitness Centres.
- 7.4. Requirements for equipment and supply storage include the following:
 - 7.4.1. Dedicated waste collection and storage area to be identified. General and Medical waste to be segregated and dispersed as per Dubai Municipality regulations.
 - 7.4.2. Equipment's and supplies required for each service should be based on the services provided in Mobile Medical Fitness Centre.
 - 7.4.3. Space movement within the room shall be designed, taking into consideration ease of manoeuvring.

8. CHAPTER FOUR: BLOOD COLLECTION ROOM

- 8.1. The sample test to be carried out by Dubai health Laboratories.
- 8.2. Blood samples to be delivered to Dubai Health Laboratories without affecting the sample quality during transportation.
- 8.3. A minimum of one Blood collection room should have a minimum floor area of 5 m² with the following areas available:
 - 8.3.1. A work counter,
 - 8.3.2. A hand-washing station,
 - 8.3.3. A reclining chair for customer.
- 8.4. It is recommended that cubicle curtains or partial walls should be present to ensure privacy in the blood collection room for male and female patients.
- 8.5. Work benches should be 75 cm wide.
 - 8.5.1. Aisle clearance between benches should have a minimum of 60 cm.
- 8.6. Medical refrigerator to be provided for storing blood samples.
- 8.7. Provide an assigned space for waste dispersal.

9. CHAPTER FIVE: CHEST X-RAY ROOM

- 9.1. The Federal Authority for Nuclear Regulation (FANR) is exclusively responsible for licensing the use of ionizing radiation and radioactive materials in health facilities.

- 9.1.1. Radiation safety protection requirements shall be incorporated into the specifications of MMFC plans and must comply with FANR laws and regulations.
- 9.1.2. Safety Assessments shall be approved by FANR.
- 9.2. Mobile Medical Fitness Services providing ionizing radiation services should take all necessary steps to restrict the extent to which his employees or other persons are exposed to ionizing radiation.
- 9.3. A minimum of one Chest X-ray room is required, and space is subject to selected unit.
- 9.4. The mobile medical fitness unit should have the following design requirements:
 - 9.4.1. One wheelchair space should be available in the facility with easy access.
 - 9.4.2. Radiographer office should be provided.
 - 9.4.3. Room entrance should not be less than 100 cm wide and 200 cm height with a shielded door.
 - 9.4.4. Shielded viewing window from the Control Area to the X-ray room should be provided
 - 9.4.5. X-ray room walls, the main door and console of the X-ray room doors and Operator console window to be lead lined based on Safety Assessment approval by FANR.
 - 9.4.6. The lead lining for the room should be continuous for the floor, walls and ceiling.

-
- 9.4.7. Investor should follow with Dubai Health to assign a PRO officer for FANR Approval.
- 9.4.8. Customer changing area to be provided should have a minimum floor area of 1.5 m².
- 9.4.9. Wall finish should be general paint.
- 9.4.10. Utility room

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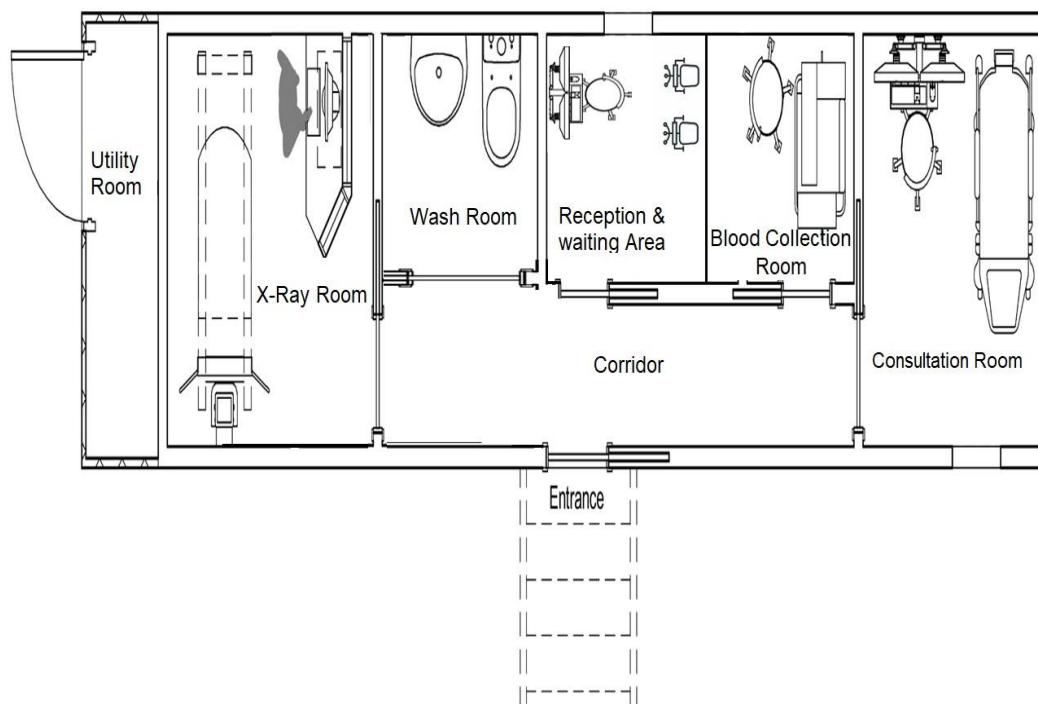
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APPENDIX

APPENDIX 1: SCHEDULE OF ACCOMMODATION (SOA) OF MOBILE MEDICAL FITNESS WITH MINIMUM AREA REQUIREMENTS

Design Requirements			
No	Name	Area	Remarks
1	Reception and Waiting Area	5 m ²	Minimum of 2 chairs for visitors.
2	Consultation Room	5 m ²	
3	Blood collection	5 m ²	
4	Chest X-ray Room	-	Space is subject to compliance with FANR Safety Assessment.
5	Toilet	4 m ²	Adequate ventilation to be provided. 1.5 m, minimum maneuvering diameter.
Add circulation 10%			

APPENDIX 2: ILLUSTRATIVE DIAGRAM FOR MOBILE MEDICAL FITNESS CENTER



NOTE: The above Diagram is for the purpose of illustration only.

The Investor may Design the model of the MMFC considering DHA Requirements

APPENDIX 3: JUSTIFICATIONS OF NON-CONFORMANCE FORM

Sr No	Facility/ Location	Issue Date	Non-compliance description	Non-compliance Justification	DHA Remarks	Corrective Action	DHA NCR Closeout

Important Notes:

1. The Non-compliance report shall be used for both the design and deliverable stage during facility completion
2. To ensure all health facilities within the DHA are designed and built to a high standard, DHA will enforce compliance with all requirements as set out in Design Manual for Mobile Medical Fitness Centre. Practically this means all design aspects are to comply with the Standards and Guidelines of the Design Manual for Mobile Medical Fitness Centre. However, there may be circumstances where compliance is difficult or impossible. For such cases applicant may propose alternative solutions by filling the Justification of Non-Compliance Form.
3. In case of any rejected Non-compliance item, the facility will not be able to proceed with the design until the new proposal of the corrective action

DHA Authorized personnel:

Signature:

Date:

Consultant Authorized personnel:

Signature:

Date:

ATTACHMENTS

The following are the intended Attachments to this Design Manual.

Attachments are under review by Dubai Health.

- Appendix A – LAB Furniture
- Appendix B – LAB Medical Equipment
- Appendix C – LAB IT Requirements
- Appendix D – LAB Specifications
- Appendix E – X RAY Specifications
- Appendix F – IT Specification
- Appendix G – FMU Equipment

Note: All Appendices to be coordinated with Dubai Health