
MAGEN DAVID ADOM NATIONAL BLOOD & LOGISTICS CENTRE PROJECT UPDATE - DECEMBER 2021



Executive Summary

Israel's national blood supply is managed by the National Blood Services Division of Magen David Adom (MDA). The current blood bank and processing centre is located in Tel Aviv and was inaugurated in 1987. It is no longer compliant with Israeli seismic building code and is vulnerable to missile, chemical, biological and cyber-attacks. A decision was made by Magen David Adom, to build a state-of-the-art underground and shielded blood bank and processing centre. This new facility will employ state-of-the-art technology to almost double the amount of blood processed, maintain self-sufficiency, and guarantee a safe blood supply for present and future generations.

A Magen David Adom team identified land in Ramla (5.4 acres), owned by the Israel Land Authority (ILA). Construction will include a new, non-combustible, steel and concrete building.

The Project will include all necessary departments and laboratories for the National Blood Services Centre (NBSC), as well as several MDA logistic functions, which are synergetic to NBSC operations (central storage, fleet etc.). Friends Societies around the world, with the UK taking primary responsibility, will assist in raising funds for the logistics functions.

Major Building Components:

- Ground floor L0 – Main lobby, logistics functions (dining rooms and kitchens), blood donations, training wing.
- First floor L1 – Logistics functions (dairy dining room), NBSC offices, Human Milk Bank, training wing.
- Second floor L2 – NBSC Management offices
- Underground floor U1 – NBSC shielded laboratories, fleet parking areas.
- Underground floor U2 – NBSC non-critical labs and bio-chemical filtration/mechanical systems.
- Underground floor U3 – NBSC logistics, LOGC storage facilities and mechanical systems.



Key Design Criteria - Capacity

- Self Sufficiency — The current annual blood unit inventory will be increased from 263,000 to 500,000 units.
- Cord Blood Inventory – The current annual cord blood unit inventory will be increased from 5,700 to 10,000 units.

Design Criteria

- External facilities will be located in a protected area and will include a water reservoir, fuel tanks, waste neutralisation, and cooling facilities.
- Process flow design will be based on current Good Manufacturing Practice guidelines (GMP) unidirectional flow.
- Access roads will loop around the facility. At least two secured gates will be required.
- Green construction methods will be utilised wherever possible.
- Construction to conform to current seismic engineering guidelines (Israeli Standard no. 413).
- Location of blood inventory in a secured facility.
- Increased safety from rocket and terror attacks, using advanced shielding.
- Expansion of blood processing and storage capacities linked to Israel's population growth.
- Introduction of new technologies and self-sufficiency.
- Immediate lockdown of facility in the event of a chemical and/or biological attack.
- Central location for easy highway access to hospitals.



Land/Location

A Magen David Adom team identified land in Ramla (5.4 acres) owned by the Israel Land Authority (ILA) and Ramla municipality. Yoel Lavi, Ramla's mayor at the time, and the ILA approved the proposal to build MDA's new National Blood Services and Logistics Centers on this parcel. Former Prime Minister Benjamin Netanyahu appointed General Tzuk Ram to serve as liaison to assist in the land allocation process.

On July 24, 2014, the Government of Israel recommended the allocation of the plot in Ramla to Magen David Adom for the construction of the new National Blood Services Center, conditional upon the completion of various procedural matters. Ramla, located in the Central District, places a strong emphasis on the quality of life of its 75,000 residents. In recent years, the city has absorbed thousands of immigrants into its modern neighborhoods, offering a vibrant and cultured community. The city allocates significant resources toward education: computerized schools, multimedia labs, and science education facilities.

The district's government complex was built in the city and serves all central district residents requiring government services. A highway system circles the city, including the Cross Israel Highway, Highway 6, and Highway 431. Its geographic location, the highway network, train station and rail lines, as well as its status as the second largest employment zone in Israel, all guarantee a solid economic and organizational future for the city. The National Blood Services Center will add new jobs in the city and support its economic growth. The proximity to several major highways will enable MDA to establish a more efficient blood supply network for the entire country. On February 9, 2016, MDA signed a contract with the ILA to receive the land at no cost, as per a special government decree.



MDA LAND OUTLINED IN BLACK
(PART OF PLOTS 5 AND 11)



MDA LAND OUTLINED IN RED



Activities

The project was divided into two phases:

1) First phase:

- Planning for alternative infrastructures such as drainage, sewage, electricity, cables, and telephony that actually exist or border the site.
Completed.
- Preparing a permit request for excavations and supporting walls for the entire site to a -50 ft. /-15m below (entrance floor level) and inserting supporting piles around the site's periphery.
The planning for this phase is complete, and an official permit request has been submitted and approved by the Municipality of Ramla.
 - The activities were as follows:
 - A. Securing the work permit – Received May 3, 2017,
Completed
 - B. Moving the infrastructures – On July 2, 2017, the municipality commenced work to move the infrastructures (water drain/sewage pipe). This work was carried out in accordance with an agreement signed between the Ramla Municipal Water Authority and MDA for a total of NIS 8,484,811 (VAT included). The contractual time frame for the completion of the work was three months.
Completed
 - C. Tender for excavations and supporting walls – Published on April 24, 2017.
Completed.
 - D. Site works (excavations and supporting walls) – The WCO was signed on September 28, 2017; works were completed on October 2018.
Completed

2) Second phase (GC Agreement):

- GC works - full scope until completion
Completed
- December 31, 2018 – MDA and Afcon-Minrav signed the contract
Completed
- January 10, 2019 – MDA and Afcon-Minrav signed the WCO (Work Commencement Order)
- March 26, 2019 – Completion of the shielded vault
Completed
- 2019 – 2021 - Ongoing construction works by the GC

Coordinating with the Ramla Municipality:

All coordination meetings with the municipal engineering department were completed during June-December 2018. This led to the municipality's approval of the building permit required for Execution Phase No 2. The permit was signed on Dec 10, 2018. As changes were made during construction period- a revised change permit was submitted and approved in December 2020.



Registered with
**FUNDRAISING
REGULATOR**

Winston House, 2 Dollis Park, London N3 1HF
T +44 (0)20 8201 5900 F +44 (0)20 8201 5901
info@mdauk.org www.mdauk.org

**MAGEN
DAVID
ADOM UK**



**SAVING
MORE
LIVES**

Magen David Adom UK. A company limited by guarantee.
Company No. 5718138 Registered Charity No. 1113409