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HEALTHCARE  
GROUP

# **DEKA Hospital Life & Fire Safety Improvements Progress Report *per Master Plan***

**Deka Hospital  
Tbilisi - Georgia**

February 16<sup>th</sup>, 2021 Rev.00

*prepared for*

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# **Deka Hospital Life & Fire Safety Improvements Progress Report**

*Deka Hospital  
Tbilisi - Georgia*

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# **1.Purpose & Scope**

## **• Purpose**

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The purpose of this report is to express and to put forward the progress on the works, that intend to improve Life and Fire Safety (L&FS) throughout the Deka Hospital in Tbilisi – Georgia of which the works(actions) were previously delineated by the Master Plan reports prepared in 2019. It shall be noted that implementation of these works -in a proper way and within the certain durations- are bound by contracts and are part of the loan agreement which were signed between IFC (International finance Corporation) and Evex (Evex Healthcare Group).

Furthermore, the objective is to measure and to rationally analyze the progress individually for each action, and to sketch out the latest status for all parties.

## **• Scope & Background**

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This report takes the Master Plan Report prepared in 28.12.2018 as basis. From the moment that MP was prepared, Evex & IFC had some negotiations and had an agreement on implementing the requirements stated in Master Plan. Following this, by the purpose of having a traceable document throughout the process, Evex prepared a “Task List” that state the actions to be taken for the Deka Hospital and the actions that has to be taken in corporate level in a tangible way. This Task List sketches out the actions that has to be taken and also it covers all the requirements stated in MP as converting them to applicable construction works and/or design works by subdividing them to manageable process sections. Therefore, this report will evaluate all the progress by considering this “Task List” and intent to measure the progress delineated within that task list.

## **• Method Statement**

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As stated above, the LFS improvement actions are requested to be traced, where necessary supervised and eventually reported to the all parties throughout the process. By this purpose, independent Fire Consultant Company “Karina” will conduct periodic site reviews and will provide -for all parties- a clear understanding of the current situation in hospital and inform everyone about the achievements and/or fulfillments obtained in an objective approach. This review and measurement work will be conducted every six months and will include all the pre-determined actions.

# **2.Progress Measurement and Review**

In consideration the variety of the parties (as such the administrative and technical persons) that are involved within the process, the progress monitoring will be conducted in two different approach. One of which is to measure and declare the improvements in terms of Fire & Life Safety aspects and the other is to approach the monitoring process in terms of the LFS action's completion ratio achieved up to the survey date. In a point of view, although both approaches are intermingled and will lead to the same level of safety at the end, it is envisaged that the aforementioned distinction would provide a better way of understating of the progress and improvements.

Progress measurement will be presented to all viewers by Radar Graphics which is the most appropriate way of indication how the improvements are proceeding towards the expected level. Due to the nature of the process, it shall be noted that the designated “Expected Levels” in these graphics are products of evaluation decided by the initial Master Plan (Especially “Conclusion Part”) and in accordance with the negations held with IFC's and Evex's responsible. While it is reached to this “Expected Level” at the end of the process, all requirements of the MP will be fulfilled.

## • Progress Measurement in terms of LFS aspects

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In accordance with the previously prepared documents, this progress report also adopts following features as the backbone of Fire and Life Safety and the progress will be monitored in accordance with the fulfillments obtained within the designated durations. These features are,

- **Fire Prevention:** Inhibiting occurrence of a fire from the very beginning, like improving housekeeping practices, storage control, control of ignition sources (i.e. a thermal camera survey, or removal of portable cooking appliances) etc. will be evaluated under this subject. Mainly this feature will be based on monitoring the current situation of the hospitals in accordance with the guidance provided in section -4 of the previously prepared Master Plan.
- **Life Safety:** Evaluation of Means of egress and other improvements on emergency illumination features, fire alarm and marking of means of egress will be done within this title. Mainly this feature will be based on monitoring the current situation of the hospitals in accordance with the guidance provided in section – 5.1 of the previously prepared Master Plan.
- **Fire Confinement & Smoke Spread Prevention:** Evaluation of fire compartments and their related components and further fire resistance ratings throughout will be done within this subject. Mainly this feature will be based on monitoring the current situation of the hospitals in accordance with the guidance provided in section – 5.3 of the previously prepared Master Plan.
- **Manual Intervention Means:** Evaluation of Fire Hose Cabinets, portable extinguishers, fire department intervention means will be done within this feature and mainly it will be based on monitoring the current situation of the hospitals in accordance with the guidance provided in section – 5.4 of the previously prepared Master Plan.
- **Automatic Intervention Means:** Sprinkler system's current situation will be evaluated under this subject. Mainly this feature will be based on monitoring the current situation of the hospitals in accordance with the guidance provided in section – 5.5 of the previously prepared Master Plan.
- **Fire Detection & Alarm:** Improvements on fire detectors, manual call points, emergency Horns and Strobes Fire Alarm Control Panels etc. will be evaluated under this subject. Mainly this feature will be based on monitoring the current situation of the hospitals in accordance with the guidance provided in section – 5.6 of the previously prepared Master Plan.
- **Collateral Features:** Fire water supply, Fire Pump and its related components will be evaluated under this subject. Mainly this feature will be based on monitoring the current situation of the hospitals in accordance with the guidance provided in section – 5.7 of the previously prepared Master Plan.
- **Preparedness and Fire Protection Management:** Training of staff, preparation of a Fire Emergency Response Plan, execution of Fire Drills, maintenance of fire protection systems will be evaluated under this subject. Mainly this feature will be based on monitoring the current situation of the hospitals in accordance with the guidance provided in section – 6 & 7 of the previously prepared Master Plan.

## • Progress Measurement in terms of Completion of LFS Actions

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At the end of the progress, while all the LFS actions are fulfilled and undersigned by each party, these improvement works on Deka Hospital deemed to be having reached a certain level of Life & Fire Safety. Although these tasks are elaborated by sub-tasks as given in Annex-A, main items are as follows;

#	Item Code	Task Definition
1)	LFS01	Correction of the Means of Egress Components
2)	LFS02	Provide illumination & Means of Egress Marking
3)	LFS03	Provide Engineering Documents for LFS
4)	LFS04	Improve Fire & Smoke Confinement features
5)	LFS05	Provide Smoke Control System for exit Enclosure
6)	LFS06	Improve Fire Alarm System
7)	LFS07	Improve Manual Fire Fighting System
8)	LFS08	Provide Fire Water supply System
9)	LFS09	Provide Clean Agent Fire Extinguishing System in MRI Technical room.
10)	LFS10	Improve Housekeeping and Control of Combustibles & Igniters

Table -1: Major Tasks that has to be fulfilled throughout the process (See Annex -A for details)



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## PROGRESS MEASUREMENT IN TERMS OF LFS ASPECTS

**KARINA**  
Design Engineering  
& Training Services

Facility Name:

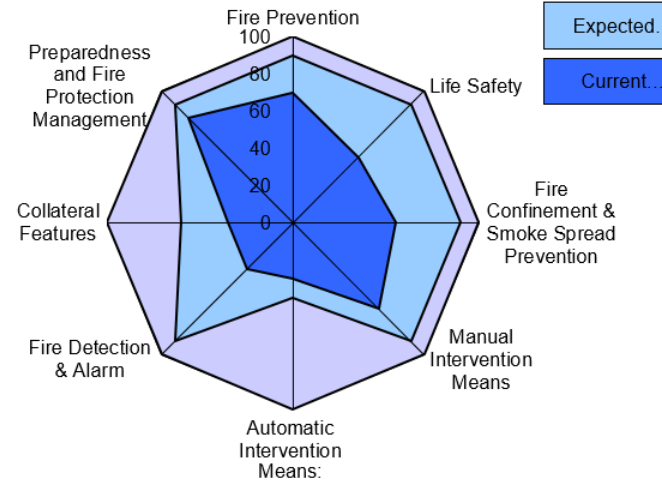
DEKA HOSPITAL -TBLISI

Date of the Survey:

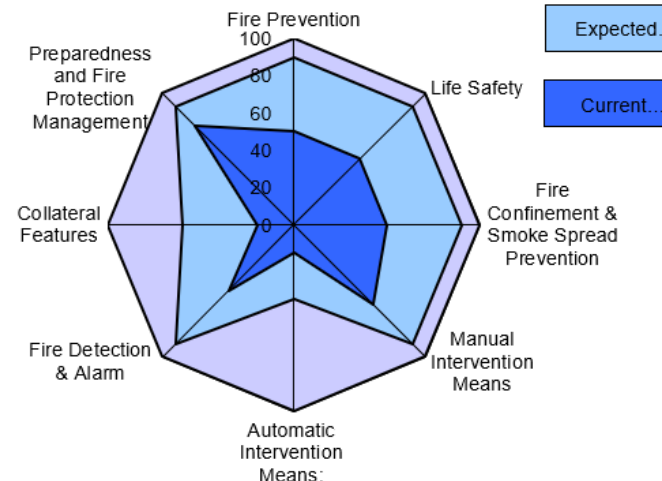
16 February 2021

### Evaluation of fulfillments and it's reflection on graphics:

- As per the planned design progress which will be the basis of the construction works 90 % of the required documents are developed.
- A construction / project management company is being negotiated and short listed in order to oversee and manage the tendering proves for construction works.
- In terms of good housekeeping practices, combustible material control has been improved in Deka either.
- Thermal camera surveys has been completed for the electrical panels.



← **CURRENT STATUS**



← **PREVIOUS STATUS**



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## PROGRESS MEASUREMENT IN TERMS OF TASK LIST



Facility Name:

DEKA HOSPITAL -TBLISI

Date of the Survey:

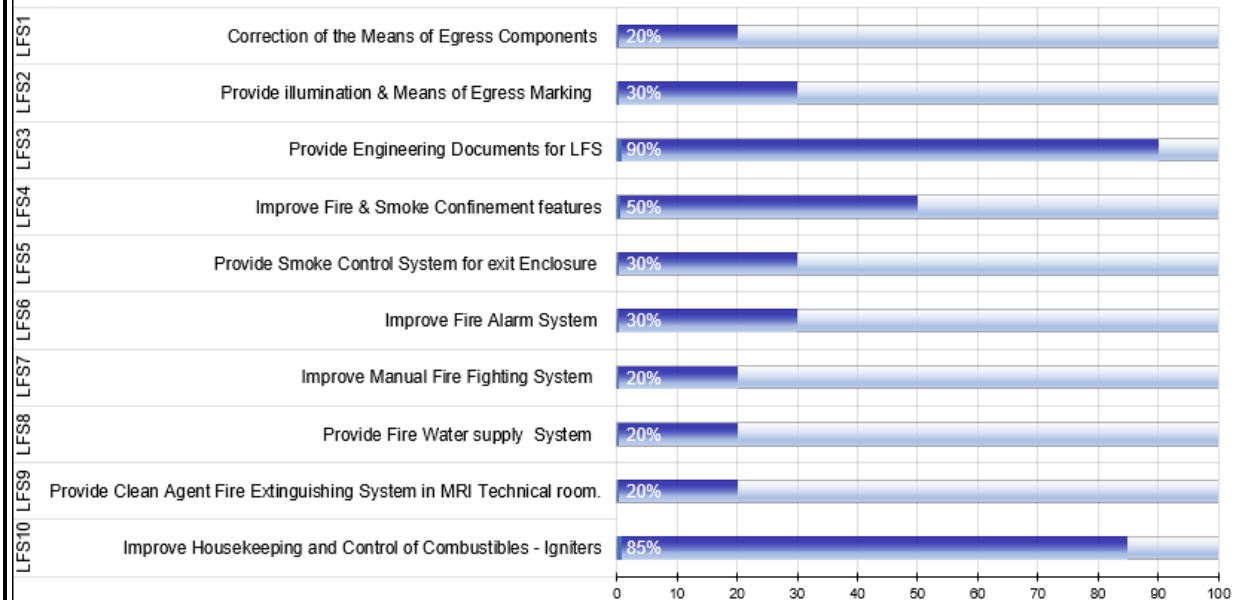
16 February 2021

### CURRENT STATUS (by 16.02.2021)

#### Evaluation of fulfillments and it's reflection on graphics:

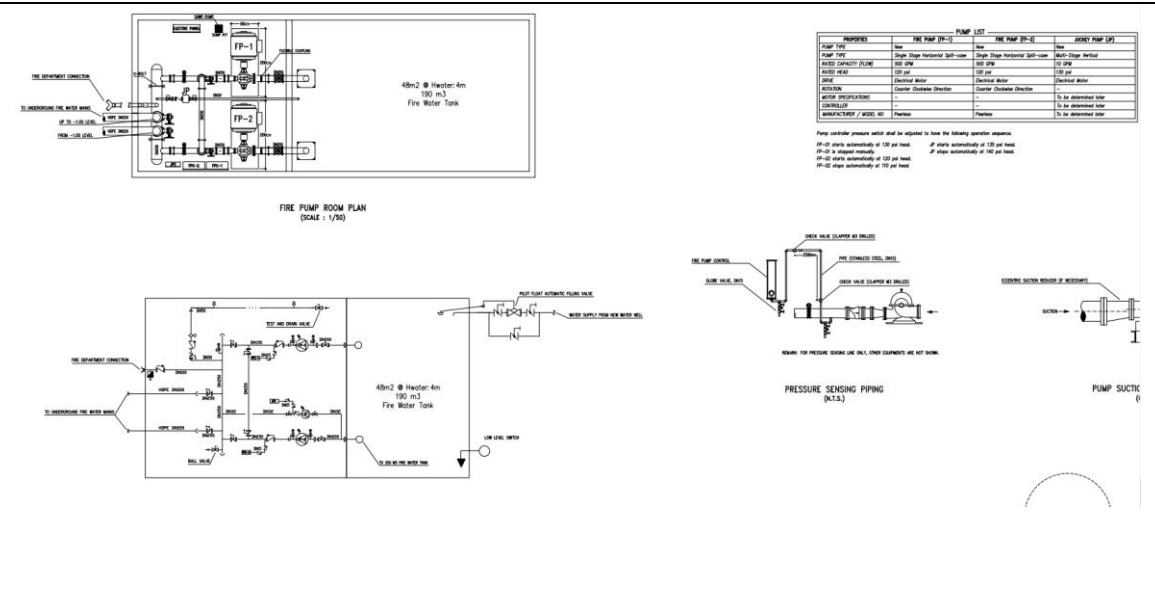
- LFS – 1 to 10 – 90 % of design documents are completed. Following tender documents in accordance with the required constructional works are prepared :
  - o Fire compartment & confinement of building – drawings
  - o Fire stopping system drawing & tender documents
  - o Fire Detection & Alarm system – Drawings and specifications.
  - o Emergency Illumination System Drawings and specifications
  - o Fire water supply(reservoir & Pump) system drawings & specifications
  - o Stair pressurization system drawings & specifications.
  - o Fire Hydrant System Drawings & Specifications
- LFS 11.2 : A thermal camera survey has been completed.

■ Target level ■ Progress



3. IMPROVEMENT DETAILS

Design documents and tendering documents are completed 90 %  
(Sample is from the fire confinement drawings , See Also Annex- A)

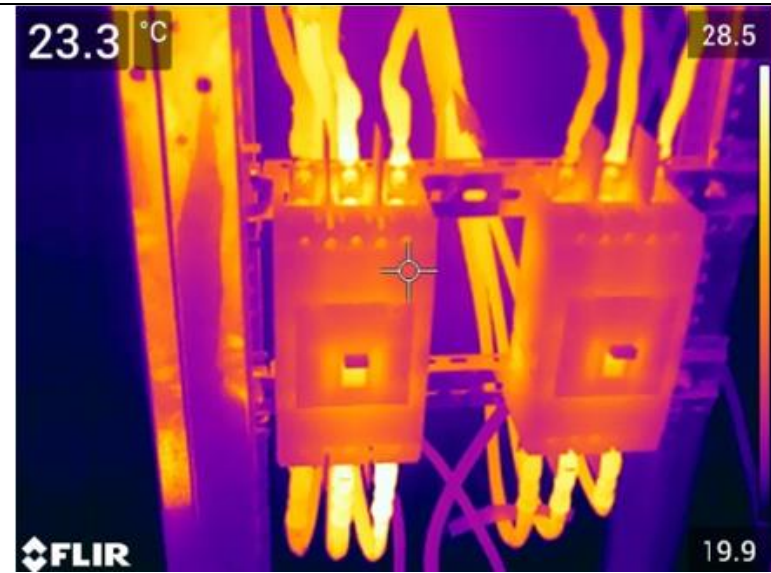


In terms of limiting the combustibles free in corridors and staircases an improvement has been achieved





Thermal Camera survey has been completed. See annex B sample report for Deka



## 4. Planned Future Works & Conclusion

In accordance with the gathered data design works are 90 % completed. During this Covid 19 Pandemia period the teams is concentrated on finalizing the design documents for construction. In a short period – in line with the previously determined durations- design will be completed and after selection of necessary contractor construction works will take place.

In summary as it is stated in previously provided programs works in near future is expected to be;

- Finalizing the design process for construction : 90 % Completed
- Keeping the progress for the trainings : In progress
- Karina to had site visits for tendering process : In next period
- Completing thermal camera survey and mitigate the hot equipment : Completed

Eventually, by having design documents / tender documents a considerable amount of progress has been achieved to complete the construction works. The efforts which have been expended up to now shall be kept with the same level of care.

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## **Annex – A : Sample Design Documents**

## **Annex- B : Sample Thermal Camera Survey Report**