Construction Management of the Jordan School Expansion Project (JSEP) and the Schools for a Knowledge Economy Project (SKEP)

Site Visit Report Form FTR # QR 417

A. BASIC DATA

(Trigon staff shall complete this field trip report within 48 hours after returning from the field and ensure that it is sent properly distributed within 72 hours after leaving the construction site)

Program (JSEP or SKEP): SKEP **PHASE**: III **PACKAGE**: 2
School Name: Thahr Al Sarow Basic Boys School
Supervisory Engineer (SE) Name: Medanat
Construction Contractor (CC) Name: Dijlah Contracting Co.
Date and Time of Field Trip: June 21,2021
Date of Report: June 24,2021
Weather During Visit Sunny, 32 Degrees
Prepared By: Mohammad Sami Ali-Ahmad **CMTO/Trigon**
Submitted By: Osama Obeid **CMTO/Trigon**

Purpose of Visit

General Site Inspection (Quality)
Corrective Action (CA) Review Report
Health, Safety & Environment (HSE)
Site Meeting
Substantial Completion Inspection
First Hand-over Inspection
Second Hand-over Inspection
OTHER (list below)

Personnel on Trip

No.	Name	Title	Agency
1	Mohammad Sami Ali-Ahmad	Intern Civil Engineer	CMTO/Trigon
2	Hanan Al Karmi	Reports & Data Manager	CMTO/Trigon
3			

Personnel at Site *(if a site meeting or a final inspection, use attachment to list other participants)*

No.	Name	Title	Agency
1	Sawsan Al Yousef	Resident Engineer	Medanat
2	Ala'a Oleimat	Site Engineer	Medanat
3	Ghaith Otoom	Fresh Graduate	Medanat
4	Amer Al Yousef	Project Manager	Dijlah Contracting Co.
5	Abdemalek Al Husban	Site Engineer	Dijlah Contracting Co.

6	Moayad Abu Irshaid	Quantities Surveyor	Dijlah Contracting Co.
7	Moheeb Whaidi	HSE Engineer	Dijlah Contracting Co.
8	Ahmad Abdelhadi	Safety Officer	Dijlah Contracting Co.

B. QUALITY, SCHEDULE AND H&S FINDINGS CHECKLIST

(For any "No" answer in this section, the Observer shall provide a narrative explanation in Section C. of this Report including corrective action requested) ***NA-Not Applicable, DC-Didn't* Check**

	Construction Contractor	Supervisory Engineer
A. Site Documentation		
1. Drawings and Specifications on site? (Y/N)	Y	Y
2. CC Safety Plan on site? (Y/N)	Y	Y
3. CC QC Plan on site? (Y/N)	Y	Y
4. Shop Drawings up to date? (Y/N)	Y	Y
5. Request for Information/Inspection up to date? (Y/N)	Y	Y
6. Sampling and Testing Tracking Log? (Y/N)	Y	Y
7. Hard copy files neat and up to date? (Y/N)	Y	Y
8. Inspector's Daily Journal up to date? (Y/N)	Y	Y
9. Non-Conformance Report up to date? (Y/N)	Y	Y
B. Schedule		
10. SE has up to date CC Schedule on site? (Y/N)		Y
11. CC has up to date CC Schedule on site? (Y/N)	Y	
C. Exit Observation		
12. What time does CC start work each morning on average?	7:00 AM	
13. What time does CC stop work each day on average?	4:00 PM	
14. What is the average # of working hours each day?	8 Hours (1 Hour Break)	

C. DESCRIPTION OF FINDINGS

(State if fact or opinion. Use attachments, maps, sketches if necessary)

A. Site Documentation

- All SE's and CC's site documents were available, neat, organized and up to date

B. Health, Safety & Environment (HSE)

- Site is well secured and a proper gate has been installed to secure the construction area in addition to steel fence
- COVID-19 precautions taken at entrance
- Visitors' log at entrance
- Not all workers had full PPE gear on
- Falling hazard at the 2nd part of slab work area, the work area must be protected to avoid safety incidents

C. General Quality Observations

- Preparation for placing the 2nd part of final slab works is ongoing, the CC must comply with specifications to ensure the quality of slab
- Installing cement blocks is ongoing, the CC must use skilled workers to ensure the quality of installation is as per specifications
- Needs more attention on covering construction materials
- Concrete roughness and segregation were noticed, but minor and minimal
- As a good practice, the CC is using a steel container to mix cement to ensure the W/C ratio
- At this stage, quality of workmanship is acceptable and works seemed to be carried out as per specifications, the CC and SE must work together to provide the best possible quality

D. Schedule

- Actual Physical Progress: **37%**
- Planned Physical Progress: **40%**
- Progress Variance: **3%**
- Contract Time Lapsed: **52%**
- Average Number of Workers at Site During the Past Week: **30 workers/day**
- Construction works are **behind** schedule
- The CC must **deploy** more manpower to avoid more progress delays and tries to catch up with the schedule as much as possible
- During the site visit, the number of workers at site was very low, the CC can work on multiple places at the site

E. Status of Utility connections / other outstanding issue

1. **Water Supply**: Not connected

2. **Wastewater**: Not connected

3. **Electricity**: Not connected

4. **Other Issue**:

ATTACHMENTS – as marked below

1. **QUALITY CHECKLIST**
2. MEETINGS / INSPECTION MINUTES
3. HEALTH, SAFETY & EVIRONMENT ATTACHMENT

E. PHOTOS

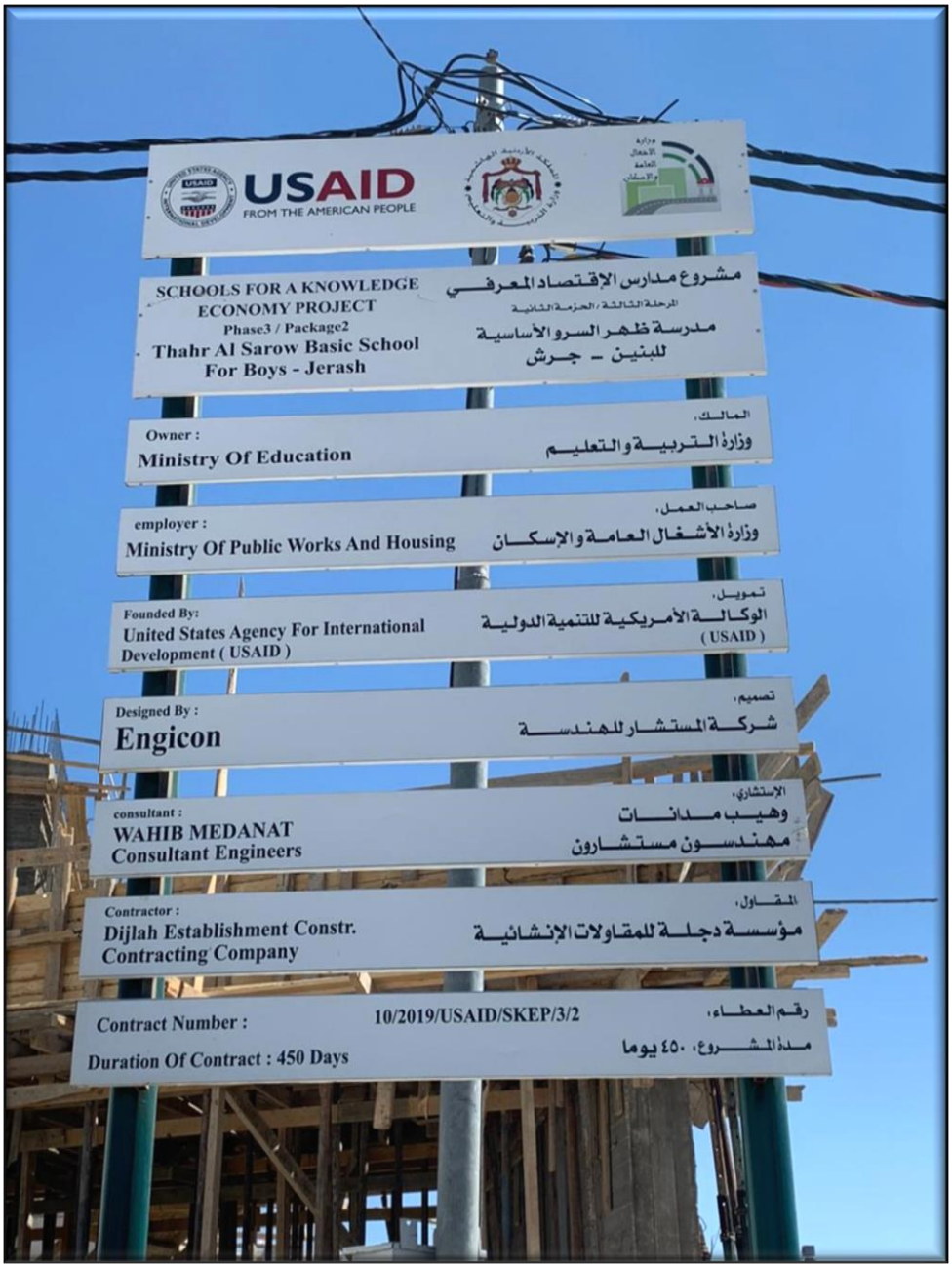

FIGURE #01:

Project ID sign on site

Photo credit: Mohammad Sami Trigon/CMTO

June 21,2021

Construction Management of the Jordan School Expansion Project (JSEP) and the Schools for a Knowledge Economy Project (SKEP)

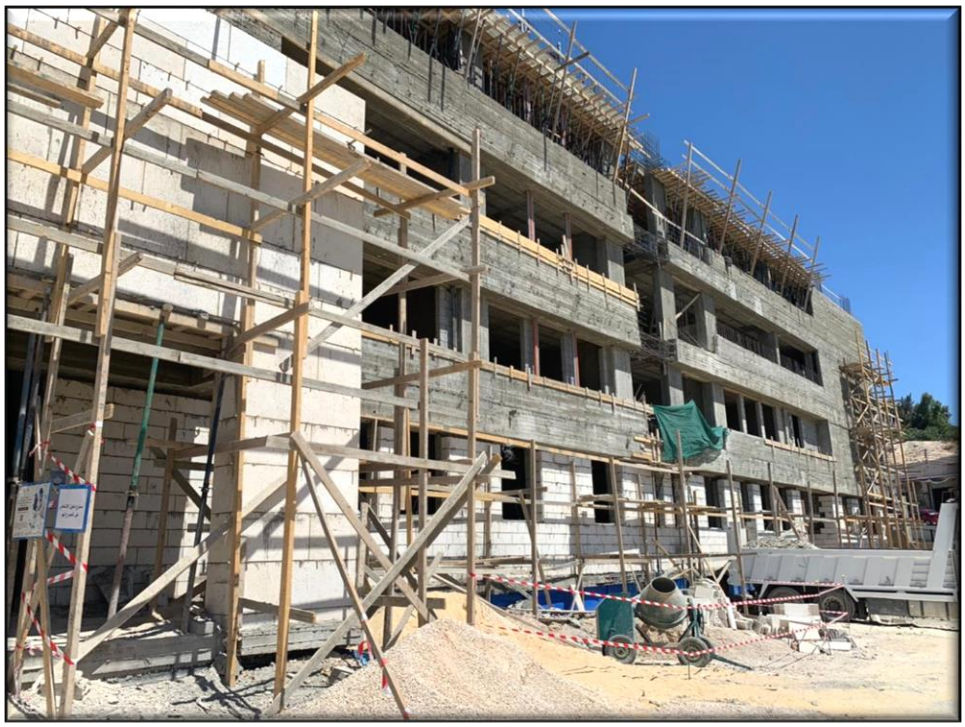

FIGURE #02&03:

The proposed school consists of five floor building, with an internal area of 4615.0 m2 and external area of 2827.0 m2, in addition to all related site works

Photo credit: Mohammad Sami Trigon/CMTO

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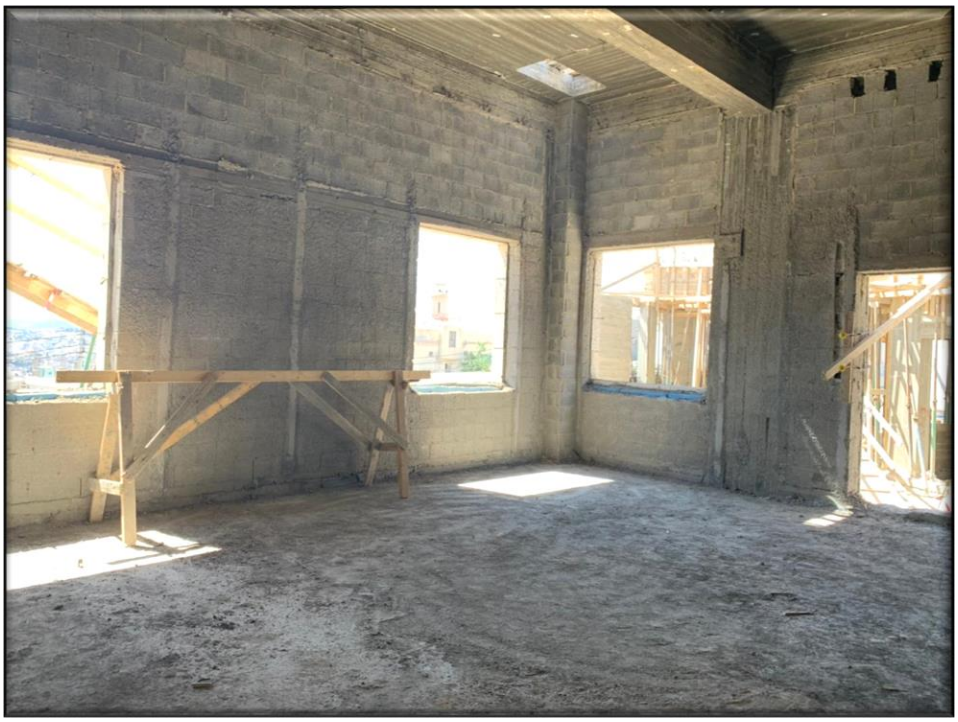

FIGURE #04&05:

Installation of cement block walls is ongoing

Photo credit: Mohammad Sami Trigon/CMTO

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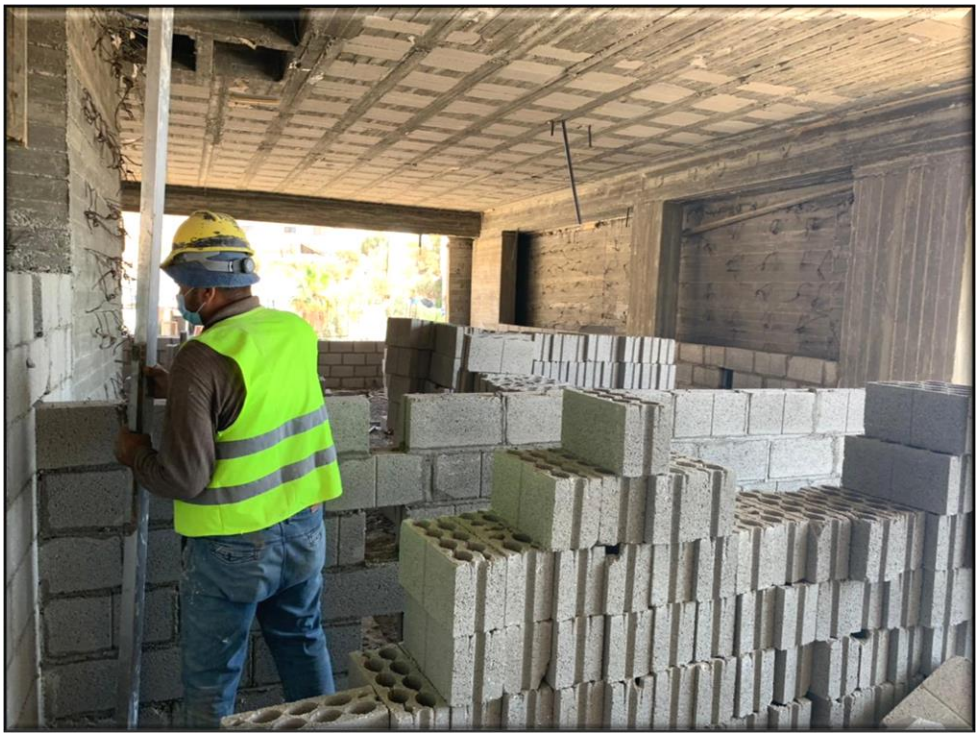

FIGURE #06:

Installation of cement block walls is ongoing

Photo credit: Mohammad Sami Trigon/CMTO

June 21,2021

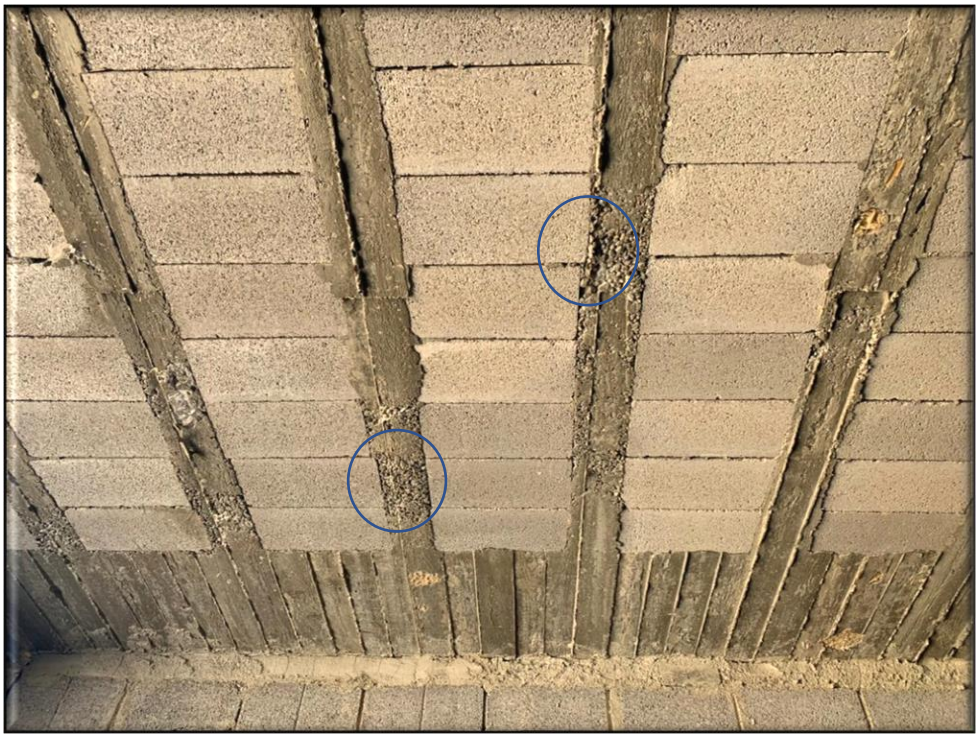

FIGURE #07:

Minor roughness and segregation were noticed

Photo credit: Mohammad Sami Trigon/CMTO

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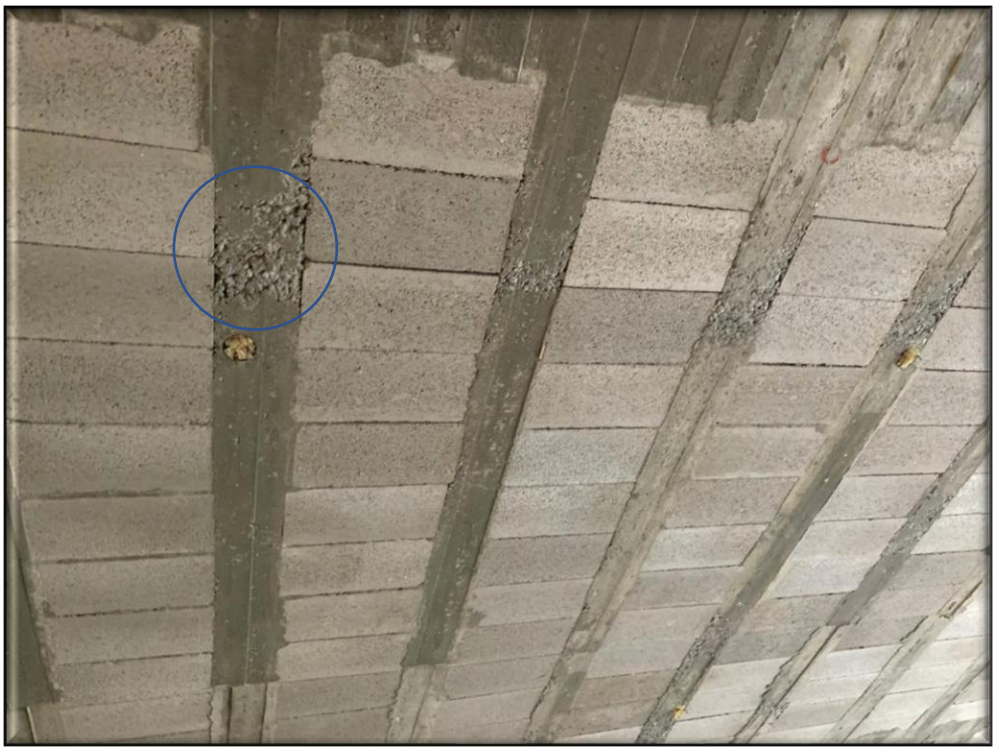

FIGURE #08:

Minor roughness and segregation were noticed

Photo credit: Mohammad Sami Trigon/CMTO

June 21,2021

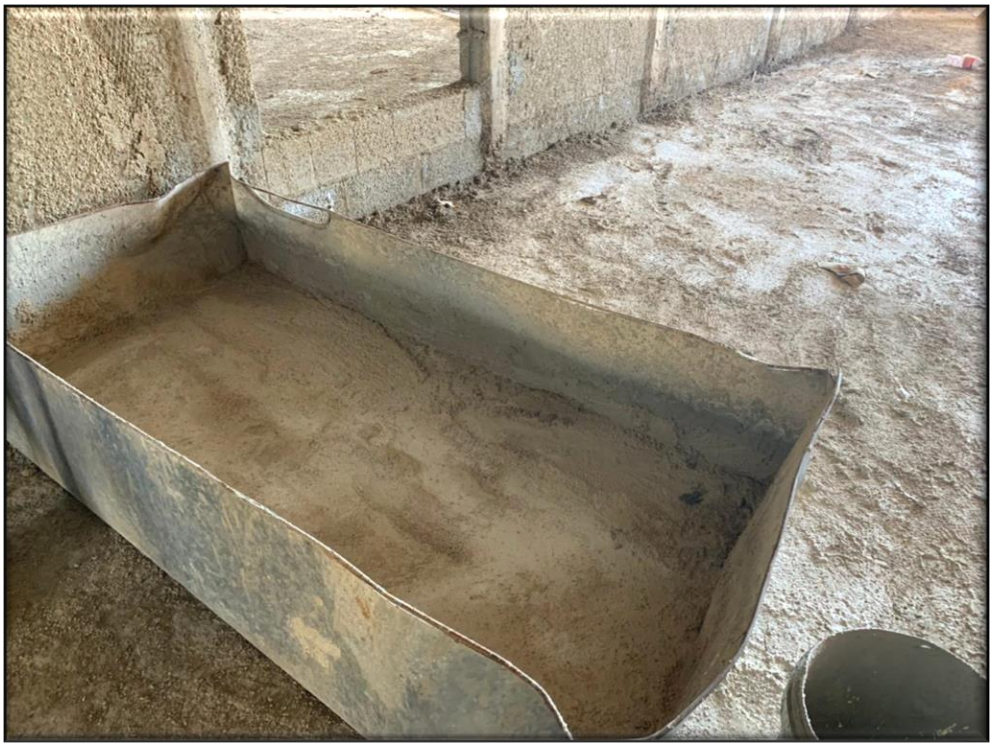

FIGURE #09:

The CC is using a steel container to ensure W/C ratio

Photo credit: Mohammad Sami Trigon/CMTO

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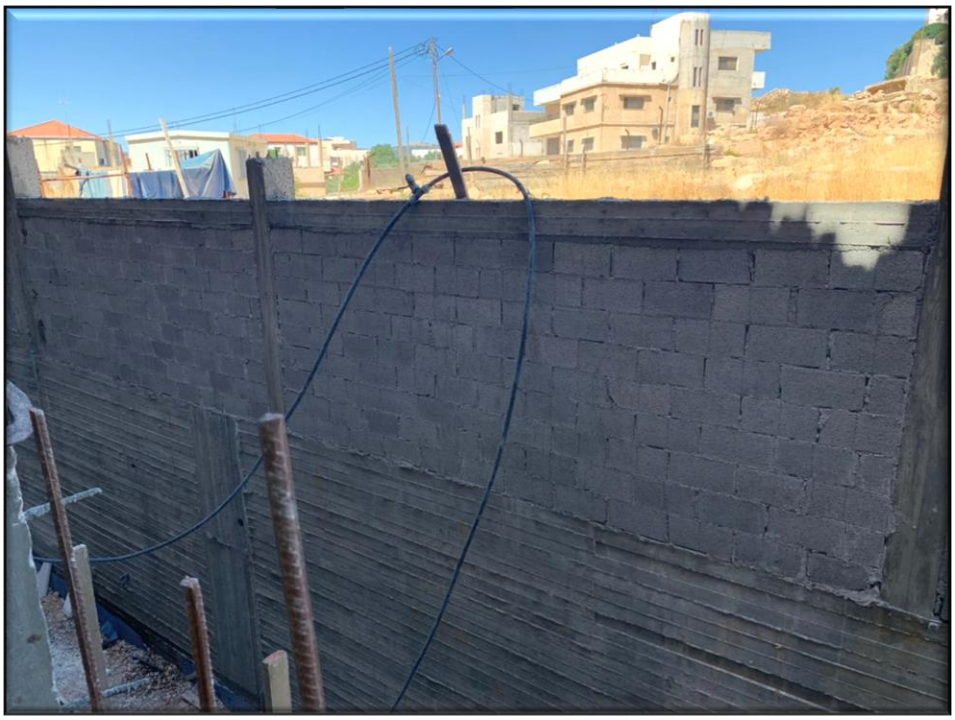

FIGURE #10:

Construction works of boundary wall

Photo credit: Mohammad Sami Trigon/CMTO

June 21,2021

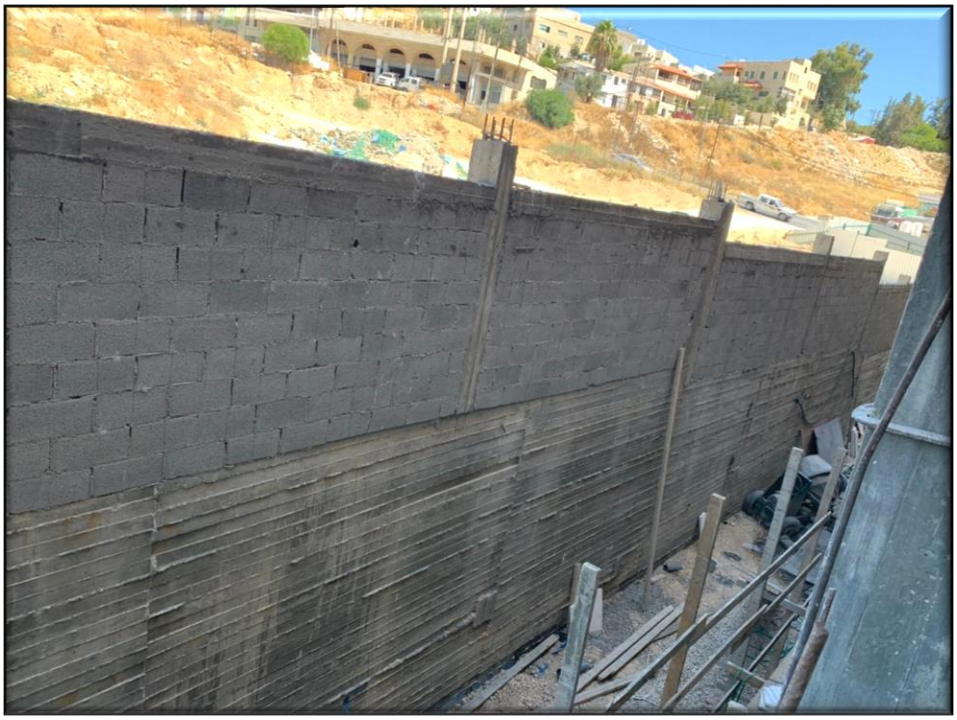

FIGURE #11:

Construction works of boundary wall is completed

Photo credit: Mohammad Sami Trigon/CMTO

June 21,2021

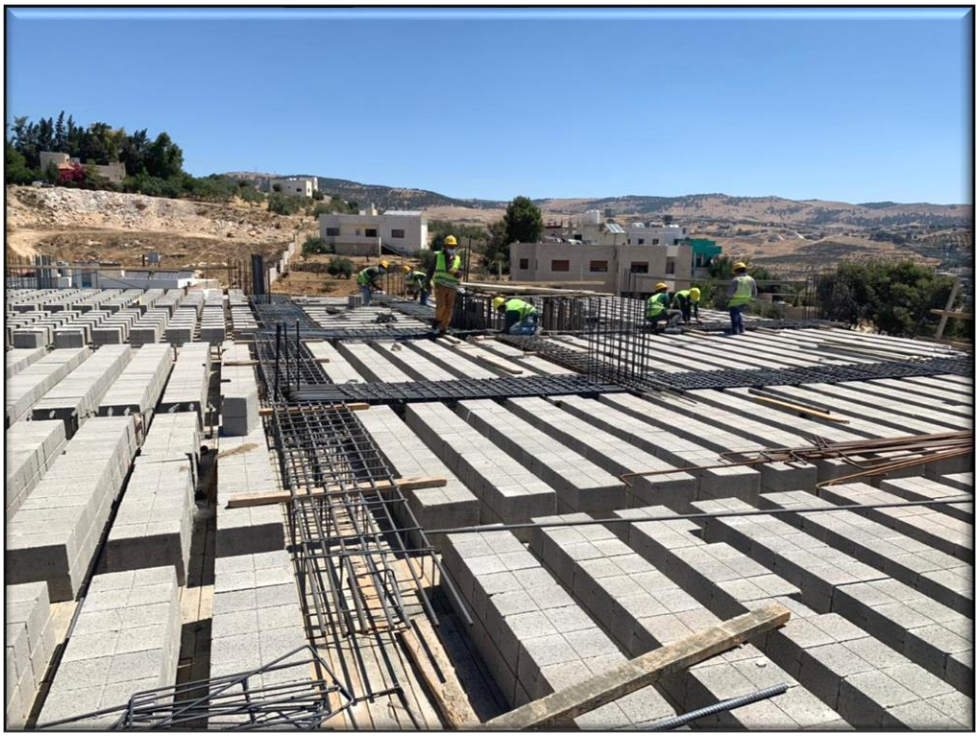

FIGURE #12&13:

Preparation for placing the 2nd part of final slab is ongoing, also, the CC must protect the working area to ensure the safety of workers

Photo credit: Mohammad Sami Trigon/CMTO

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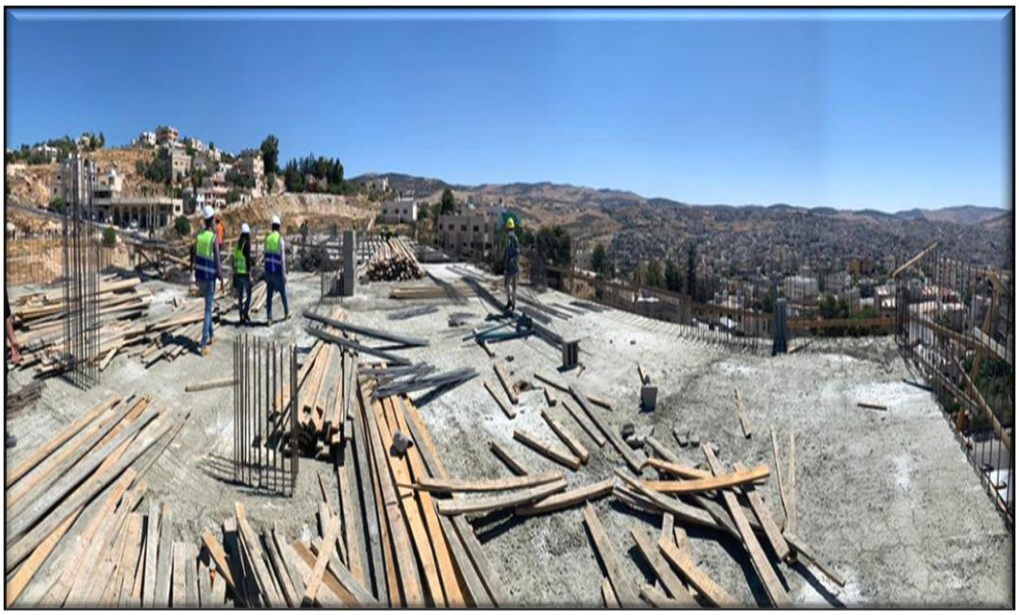

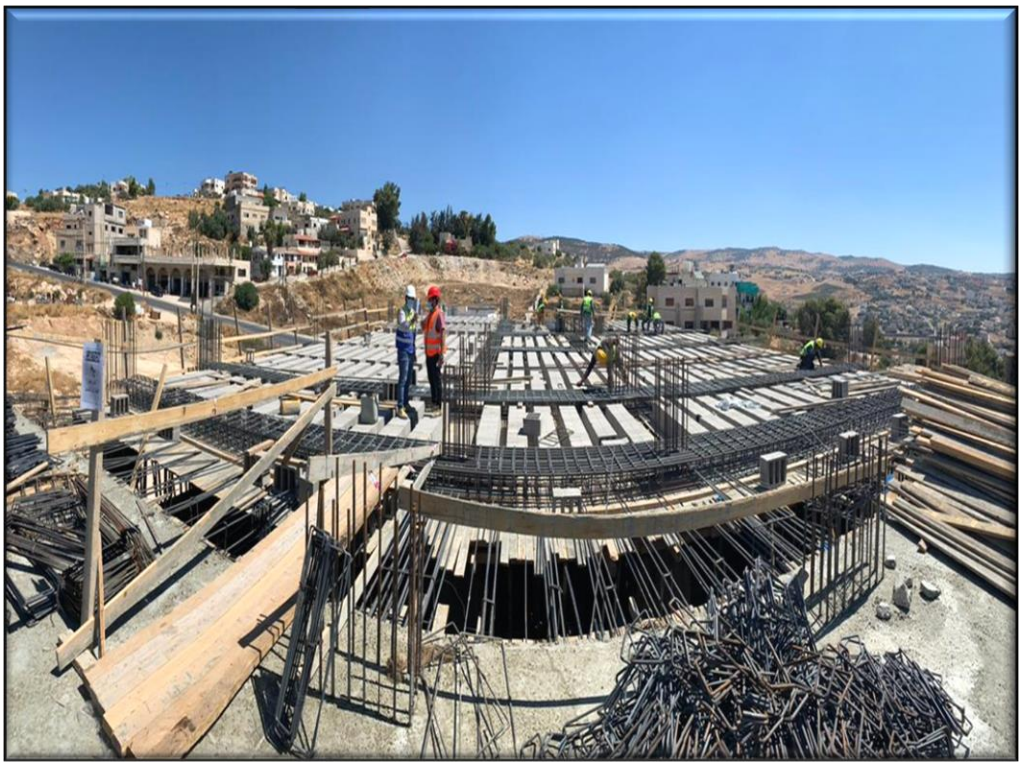

FIGURE #14&15:

1st and 2nd part of final slab, placing the 1st part is completed

Photo credit: Mohammad Sami Trigon/CMTO

June 21,2021

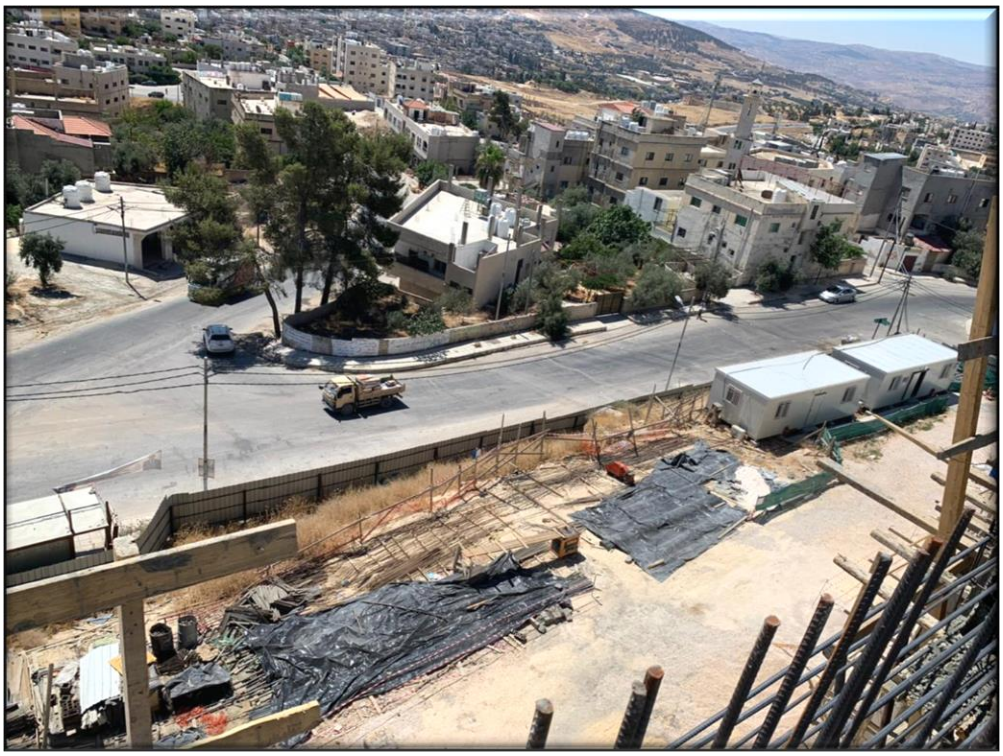

FIGURE #16:

The site obstacle is not solved officially yet and still causing progress delays

Photo credit: Mohammad Sami Trigon/CMTO

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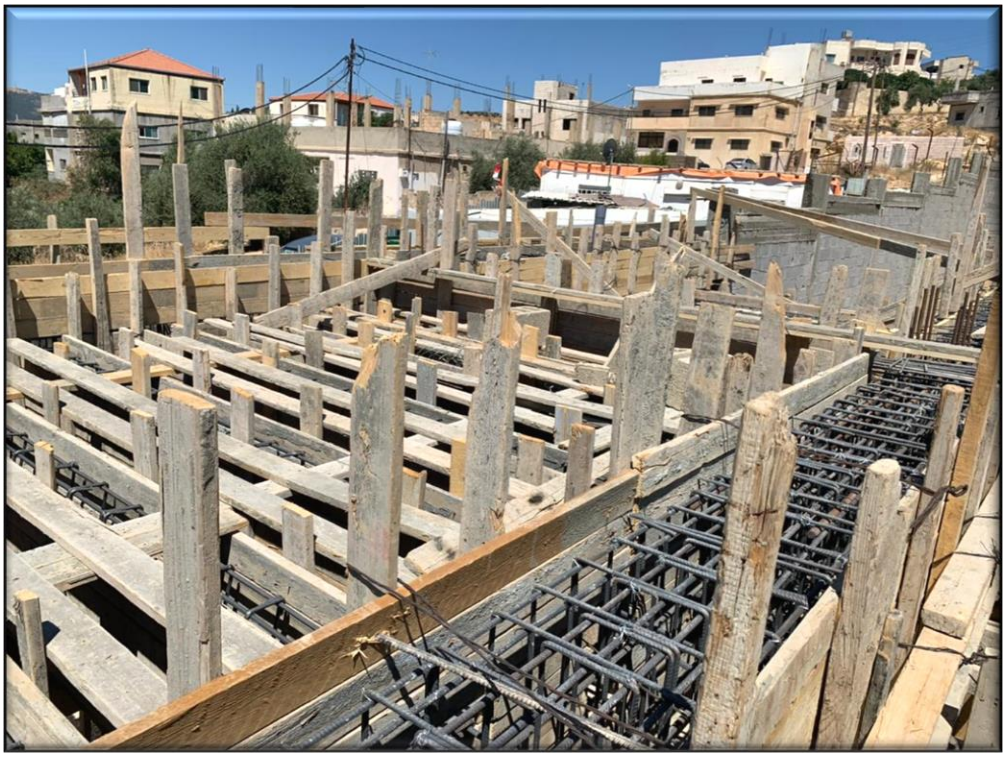

FIGURE #17:

Preparation for placing the janitor room's slab

Photo credit: Mohammad Sami Trigon/CMTO

June 21,2021

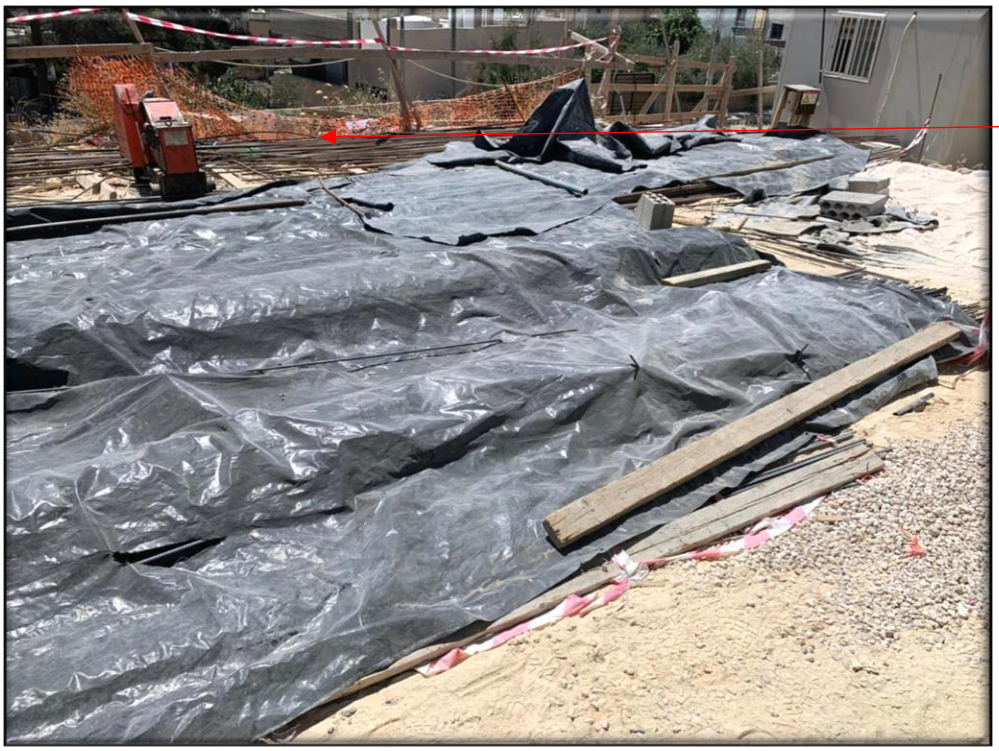

FIGURE #18:

Needs more attention on covering construction materials

Photo credit: Mohammad Sami Trigon/CMTO

June 21,2021

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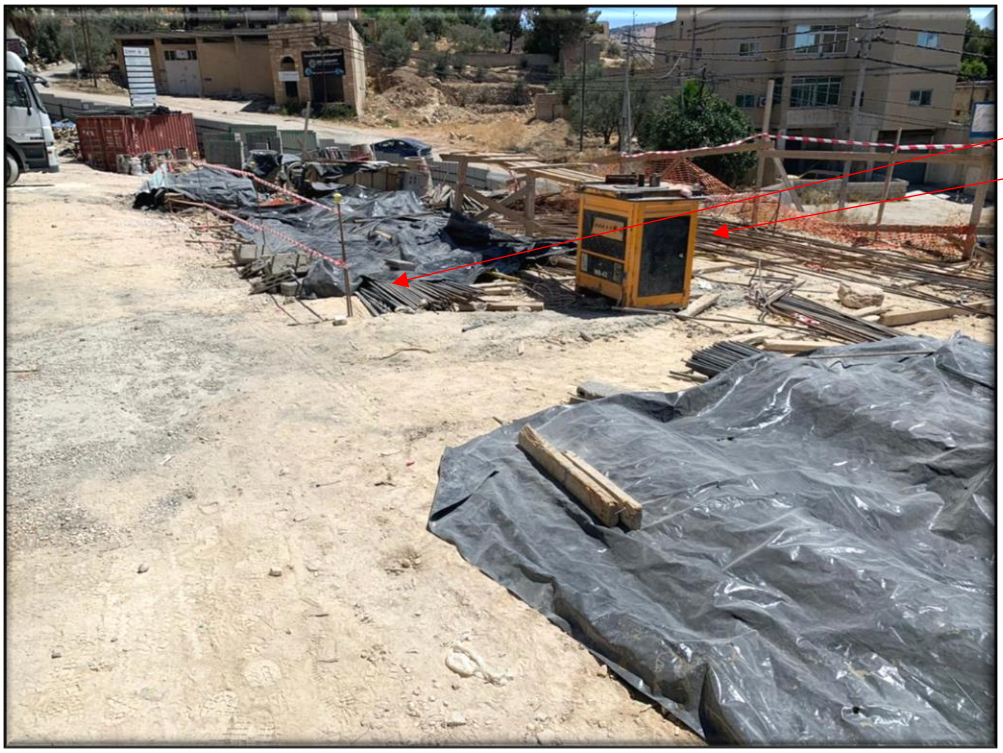

FIGURE #19:

Needs more attention on covering construction materials

Photo credit: Mohammad Sami Trigon/CMTO

June 21,2021

FIGURE #20:

CMTO/Trigon, SE's staff and CC's staff after the site tour

Photo credit: Mohammad Sami Trigon/CMTO

June 21,2021

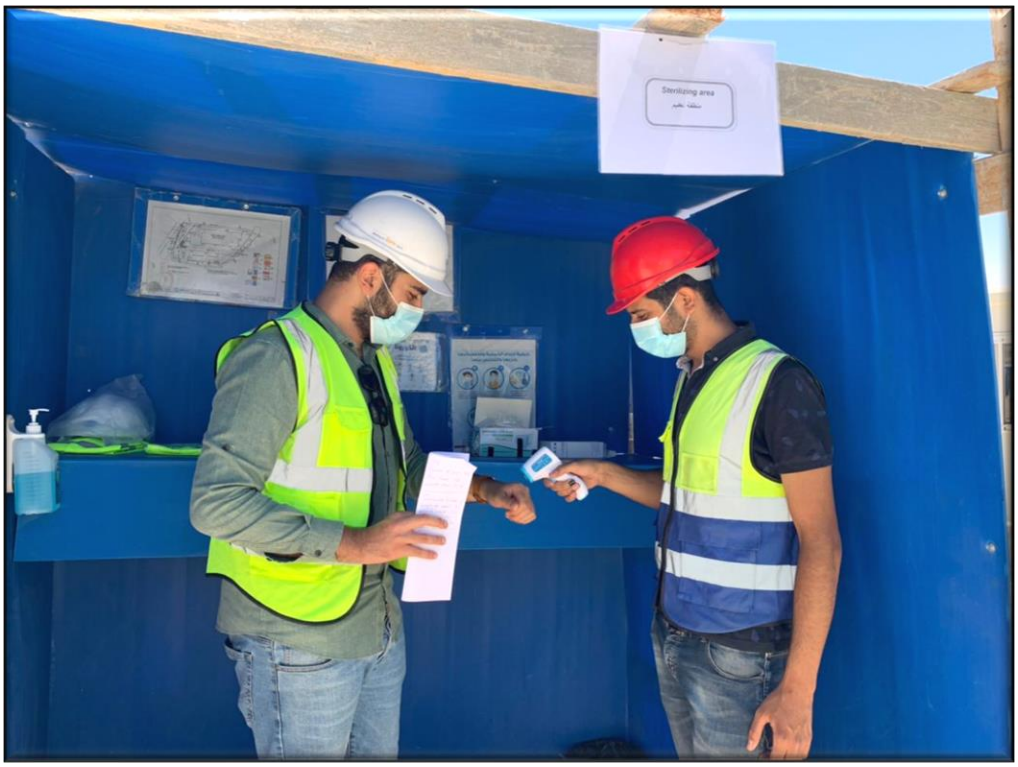

FIGURE #21:

COVID-19 precautions at entrance

Photo credit: Mohammad Sami Trigon/CMTO

June 21,2021

FIGURE #22:

Site gate and warning signs

Photo credit: Mohammad Sami Trigon/CMTO

June 21,2021

Trigon Quality Field Trip Report Attachment #1

Notes:

Date: June 21,2021

School Name: Thahr Al Sarow Basic Boys School

Location: Jerash

Program / Phase / Package SKEP/III/2

Prepared by: Mohammad Sami Ali-Ahmad CMTO/Trigon

#	Task / Activity	Observ-ations (Y/N)	Findings	Recommendations / Corrective Actions
A. Excavation				
B. Backfilling				
C. SubStructural, Concrete,Foundations				
1	Steel Bar			
2	Footings			
3	Ground beams			
4	Tie beams			
5	Column neck			
6	Column			
7	waterproofing(Insulation)			
8	Slab on grade			
D. SuperStructural, Concrete,Masonry works				
1	Columns			
2	Beams			
3	Slabs	Y	Minimal segregation were noticed	Must be repaired with special approved materials
4	Roof			
5	Hollow Concrete Block (internal)			
6	Hollow Concrete Block (external)			
7	C-Channel			
8	Clading Natural Stones			
9	Electrical conuits/ sleeves			
10	Mechnical pipes/sleeves			
E. Civil Works				
1	Access /Gates			
2	Steel Doors			
3	Wooden Doors			
4	Door's accessories			
5	Aluminum Windows			
6	Window screen			
7	Steel protection			
8	Granite sill for window			
9	Plastering (Internal)			
10	Plastering (External)			
11	Wall Paint			
12	Ceiling Paint			
13	Wall tiles			
14	Floor tiles (Internal)			
15	External Floor tiles (Interlock /Stone)			

#	Task / Activity	Observ-ations (Y/N)	Findings	Recommendations / Corrective Actions
17	Facades, Roof parapet			
18	Lab Furniture			
19	Ceiling and roof system			
20	Acoustic Ceiling			
21				
22	Facades, Roof parapet			
23	PVC			
24	Carpenting			
25	Expansion joint			
26	Roof insulation (waterproofing membrane)			
27	Flashing 10 cm			
28	Cold Fluid applied for boundary walls and septic tank			
F. Electrical Works				
1	Wiring - condiuts			
2	Electrical sockets			
3	Lighting fixtures			
4	Electrical Distribution Board			
5	Fire Alarm System			
6	Public Address			
7	Air Conditioning Units			
8	CCTV			
9	Manhole			
10	Electrical Earthing			
11	Wall Fan			
12	Elevator			
13	Electrical Room			
G. Mechanical Works				
1	Rest Rooms, Toilets, WC			
2	Wash basin			
3	Wall tiles			
4	Floor tiles			
5	Water Mixer			
6	Water Cooler			
7	Water Tank			
8	Boiler			
9	Heat Radiator			
10	Pump			
11	HVAC System			
12	AC unit/ Split Units(Wall mounted)			
13	Pump			
14	Drainage			
15	Submersible pump sets.			
16	Manholes, Clean-outs			
17	Fire Extinguisher			
18	Fire hose cabient			
19	Ventilation, AC Duct			
20	Emergency shower			
21	Septic Tank			

#	Task / Activity	Observ-ations (Y/N)	Findings	Recommendations / Corrective Actions
H. External Works				
1	Boundary walls			
2	C-Channel Finishings			
3	Fence			
4	Epoxy paint			
5	Landscaping			
6	External Paint			
7	Football/ Basketball Playground			
8	Sand playground for KG			
9	Plants area			
10	Car Park/Asphalt			

***Disclaimer**: Trigon field trip reports include information and findings based upon those parts of the construction sites we visit. Our visits and our contract scope of work do not include Trigon to carry out first tier Quality Control/Assurance, i.e., reviewing submittals, drawings and specifications, reviewing contract compliance, or in any way carrying out close supervision of the works. Therefore our field-trip reports include cursory quality, health & safety and schedule information and its entry on our reports is intended to provide the reader only with a sense of our general observations of that part of the job site we have visited*

CMTO Quality/Workmanship FTR Attachment #2

Construction Quality is carrying out work according to the Drawings and Specifications - Yes/No. This is the duty of the Contractor and the Supervisory Engineer. Quality Assurance (QA) is a check to ensure that the Contractor and Supervisory Engineer is working according to the Drawings and Specifications and observing and reporting generally on basic ongoing and/or completed construction workmanship and work quality. This report is a QA report and as such is an observational view of Contractor and Supervisory Engineer overall Quality Control management.

Date / Time of Field Trip: June 21,2021
School Name: Thahr Al Sarow Basic Boys School
Location: Jerash
Program/Phase/Package: SKEP/III/2
Name of Contractor : Dijlah Contracting Co.
Name of Sup. Engineer: Medanat
Prepared by: Mohammad Sami Ali-Ahmad CMTO/Trigon

1. GRADE KEY (Quality Observations)

3 Very Good
2 Acceptable
1 Poor

2. General Observations : (Yes = 2 / No = 1)

#	General QC Management Observations (33% of Grade)	STATUS	GRADE
1	QC Plan Approved By Supervising Engineer	Yes	2
2	QC Plan on-Site and Used by Construction Contractor	Yes	2
3	Approved Schedule On Site	Yes	2
4	Approved Shop Drawings On Site	Yes	2
5	Approved Material Submittals On Site	Yes	2
6	Material Acceptance/Rejection Forms Used On Site	Yes	2
7	Material Acceptance/Rejection Tracking Log in Monthly Report	Yes	2
8	Hard Copy Drawings/Specifications On Site	Yes	2
9	Hard Copy Drawings Marked Up Daily to Be As-Built	Yes	2
10	Supervisory Engineer Has and Uses Specification Testing Plan	Yes	2
	Sub-Total	**100%**	**20**

#	Activity Quality/Workmanship Observations (67% of Grade)	STATUS	GRADE
1	Excavation and Backfilling Works	Acceptable	2
2	Reinforced Concrete (forming, steel, placing, final result, curing)	Acceptable	2
3	External Wall Façade		-
4	Floor Tiles Installation		-
5	Internal Plastering		-
6	External Plastering		-
7	Doors		-
8	Windows		-
9	Internal Painting		-
10	External Painting		-
11	Mechanical and Plumbing (HVAC, Water Supply, Wastewater)		-
12	Electrical Works		-
13	Elevator		-
14	Internal Wall Tiling		-
15	Roof Waterproof Membrane		-
16	Site Works	Acceptable	2
17	Protection of Completed Works		-
18	Post Construction Cleaning		-
	Sub-Total	**67%**	**6**
	Quality Indicator Grade %	**78%**	

NOTES

1
2
3