

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

Site Visit Report Form

FTR # QR 316

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:** I
School Name: Um Al Dananir Basic Mixed School
Supervisory Engineer (SE) Name: Wahib Medanat Consultant Engineers
Construction Contractor (CC) Name: Darar Sararieh Co.
Date and Time of Field Trip: March 28, 2021 9:30 AM
Date of Report: March 29, 2021
Weather During Visit Sunny 9 °
Report Submitted By: Osama Obeid and Talid Hamdan.

PURPOSE OF VISIT

General Site Inspection (Quality) Handover (First Inspection)
 Corrective Action (CA) Review Report Second Final Inspection
 Health & Safety (H&S) OTHER (list below)
 Site Meeting
 Substantial Completion Inspection

PERSONNEL ON TRIP

No.	Name	Title	Agency
1	Osama Obeid	Sr. Construction Manager	Trigon
2	Talid Hamdan	Intern Architect	Trigon
3	William Baker	Intern Construction Manager	Trigon

PERSONNEL AT SITE *(if a site meeting or a final inspection, use attachment to list other participants)*

No.	Name	Title	Agency
1	Mahmoud Maghnam	Resident Engineer	Medanat
2	Saddam Baqaeen	Site Engineer	Medanat
3	Abdullah Al-Zu'bi	Safety Manager	Medanat
4	Areen Khreizat	Fresh Graduate	Medanat
5	Feras Odeh	PM / Pkg I	DSS
6	Amro Abu Hmour	Site Engineer	DSS

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7 Muayyad Al Jbour

Safety Officer

DSS

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**

	<u>Construction Contractor</u>	<u>Supervisory Engineer</u>
A. <u>SITE DOCUMENTATION</u>		
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)	N	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. <u>SCHEDULE</u>		
• SE has up to date CC Schedule on site? (Y/N)	Y	
• CC has up to date CC Schedule on site? (Y/N)		Y
• The schedule was updated by the planner on site but has to be printed for the CC and the SE.		
C. <u>EXIT OBSERVATIONS</u>		
• What time does CC start work each morning on average?	6:30 AM	
• What time does CC stop work each day on average?	6:00 PM	
• What is the average # of working hours each day?	11:30 Hours	

C. DESCRIPTION OF FINDINGS

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

A. SITE DOCUMENTATION

- Available and well documented.
- Engineer's offices were very organized and the offices' entry was tiled.

B. HEALTH & SAFETY

- Good construction site security.
- Health and safety signs were used on site.
- Good Housekeeping on site.
- Hygiene, visitors' log station and disinfection stations were available on site.

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

- Possibility of soil sliding.

C. **GENERAL QUALITY OBSERVATIONS**

- Casting the basement walls is ongoing
- Insulation works is ongoing
- Erecting formwork is ongoing
- De-shuttering works is ongoing
- Backfilling works is ongoing.

D. **SCHEDULE**

% of work completed: According to SE, 18% of the work is completed.

Avg # of workers: 40 workers per day.

The construction is behind schedule, the planned work percentage is 22%.

E. **STATUS OF UTILITY CONNECTIONS / OTHER OUTSTANDING ISSUE**

1. **Water Supply**: Not connected yet

2. **Wastewater**: Not connected yet

3. **Electricity**: Not connected yet

Other Issue: -

- There is encroachment of neighbor wall toward the school boundary plot.
- There is encroachment of the existing street toward the school land and this will affect the construction of the eastern boundary wall, boundary wall, guard room, R/F concrete water tank, transformer's room and parking lot)
- According to Municipality organizational site plan, there is an existing street
- There is contradiction between the municipality site plan and project site plan must be resolved

ATTACHMENTS – as marked below

- QUALITY CHECKLIST
- MEETINGS / INSPECTION MINUTES
- HEALTH & SAFETY ATTACHMENT

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E. PHOTOS



FIGURE #01:
Project ID Sign on site.
Photo credit: Talid Hamdan
March 28th, 2021

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FIGURE #02& 03:

The project consists of five floors building, with a total approximate area of 5420 sq.m, in addition to site works. The project will contain a KG on the ground floor, a playground, an exercise area and a basketball court.

Photos credit: Talid Hamdan and Will Baker

March 28th, 2021



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FIGURE #04 &05:

During casting the
basement walls

*Photo credit: Osama Obeid
March 28th, 2021*



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FIGURE #06:

Hygiene, and visitors' log station on site.

*Photo credit: Talid Hamdan
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FIGURE #07& 08:
Possibility of soil sliding, it is recommended to protect the area.

*Photos credit: Talid Hamdan
March 28th, 2021*

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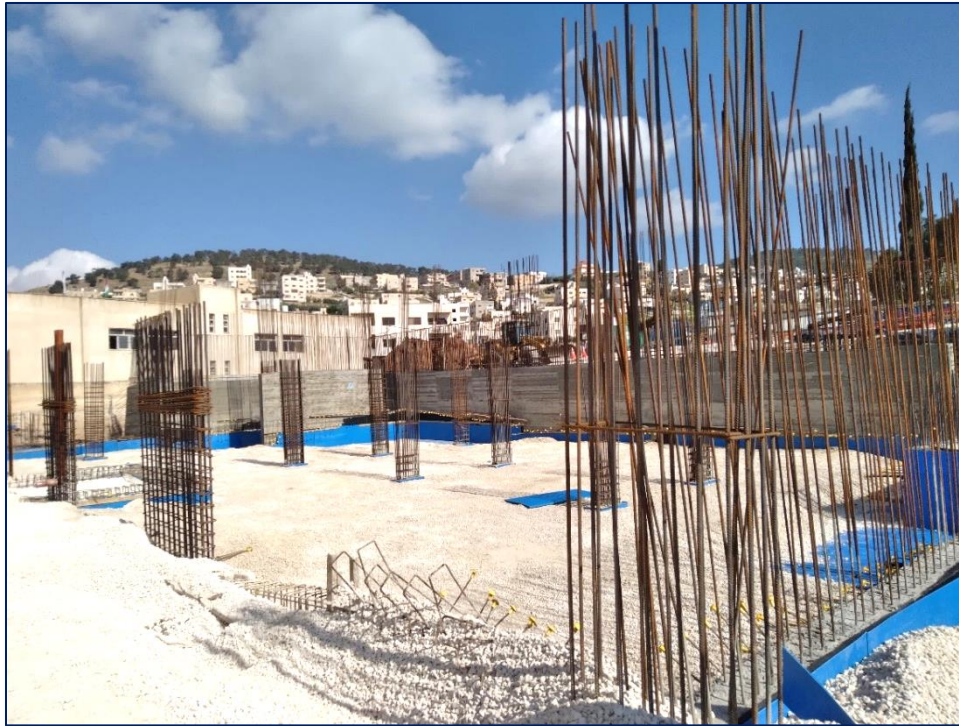


FIGURE #07& 08:

Backfilling works is ongoing.

Insulation works is ongoing

*Photos credit: Talid Hamdan &
Osama Obeid*

March 28th, 2021



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FIGURE #09& 10:
Backfilling works is ongoing.
Insulation works is ongoing.
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FIGURE #11 & 12:

There is encroachment of neighbor wall toward the school boundary plot.

*Photos credit: Talid Hamdan
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FIGURE #13& 14:

There is encroachment of the existing street toward the school land and this will affect the construction of the eastern boundary wall, the guard house, the harvesting rainwater tank and the transformer's location.

Photos credit: Osama Obeid and Talid Hamdan

March 28th, 2021



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FIGURE #15:

Offices of the supervisory
engineer and the
construction contractor.

*Photo credit: Talid Hamdan
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FIGURE #16& 17:
Neat offices and organized drawings.

*Photos credit: Talid Hamdan
March 28th, 2021*



Trigon Quality Field Trip Report Attachment

Notes:

Date: 28/03/2021
 School Name: Um Al Dananir Basic Mixed School
 Location: Balqa'
 Program / Phase / Package SKEP III Package 1
 Prepared by: Osama Obeid and Talid Hamdan

#	Task / Activity	Observations (Y/N)	Findings	Recommendations / Corrective Actions
A. Excavation				
			Possibility of soil sliding	Should protect the area
B. Backfilling				
		Y	Backfilling works is ongoing	
C. SubStructural, Concrete, Foundations				
1	Steel Bar			
2	Footings			
3	Ground beams			
4	Tie beams			
5	Column neck			
6	Column	Y	Erecting formwork is ongoing	
7	waterproofing(Insulation)	Y	Insulation works is ongoing	
8	Slab on grade			
D. SuperStructural, Concrete, Masonry works				
1	Columns			
2	Beams			
3	Slabs			
4	Roof			
5	Hollow Concrete Block (internal)			
6	Hollow Concrete Block (external)			
7	C-Channel			
8	Clading Natural Stones			
9	Electrical conuits/ sleeves			
10	Mechanical pipes/sleeves			
E. Civil Works				
1	Access /Gates			
2	Doors			
3	Wooden Doors			
4	Aluminum Windows			
5	Plastering (Internal)			
6	Plastering (External)			
7	Wall Paint			
8	Ceiling Paint			
9	Wall tiles			
10	Floor tiles (Internal)			
11	External Floor tiles (Interlock /Stone)			
12	Cabinetry			
13	Lab Furniture			
14	Ceiling and roof system			

#	Task / Activity	Observations (Y/N)	Findings	Recommendations / Corrective Actions
15	Facades, Roof parapet			
16	PVC			
17	Carpet			
18	Expansion joint			
19	Roof insulation (waterproofing membrane)			
F. Electrical Works				
1	Wiring - conduits			
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	Wall tiles			
3	Floor tiles			
4	Water Mixer			
5	Water Cooler			
6	Boiler,HVAC,Pumps			
7	Drainage			
8	Manholes, Clean-outs			
9	Fire Extinguisher			
10	Ventilation, AC Duct			
11	Emergency shower			
12	Septic Tank			
13	Kitchen Sink			
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: 3/28/2021 9:30 AM

School Name: Um Al Dananir Basic
Mixed School

Location: Balqa'

Program/Phase/Package: SKEP III Pck I

Name of Contractor : Darar Sararieh Co.

Name of Sup. Engineer: Wahib Medanat Consultant
Engineers

Prepared by: Osama Obeid and Talid
Hamdan

I. 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		-
7	Material Acceptance/Rejection Tracking Log in Monthly Report		-
8	Hard Copy Drawings/Specifications On Site	yes	2
9	Hard Copy Drawings Marked Up Daily to Be As-Built	No	1
10	Supervisory Engineer Has and Uses Specification Testing Plan	yes	2
Sub-Total		94%	15

#	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)	Very Good	3
3	External Wall Façade		-
4	Floor Tiles Installation		-
5	Internal Plastering		-
6	External Plastering		-
7	Doors and Windows		-
8	Mechanical and Plumbing (HVAC, Water Supply, Wastewater)		-
9	Electrical Works and Elevators		-
10	Internal Wall Tiling		-
11	Roof Waterproof Membrane		-
12	Internal and External Painting		-
13	Site Works		-
14	Protection of Completed Works		-
Sub-Total		83%	5
Quality Indicator Grade %		87%	

NOTES

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2
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