

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

Site Visit Report Form

FTR # QR236

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: Hai Al Iskan Basic Mixed School
Supervisory Engineer (SE) Name: Wahib Medanat Consultant Engineers
Construction Contractor (CC) Name: Dijlah Establishment Contracting Co.
Date and Time of Field Trip: December 08, 2020
Date of Report: December 11, 2020
Weather During Visit Sunny
Report Submitted By: Osama Obeid

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	Mike McGovern	COP	Trigon (CMTO)
2	Osama Obeid	Sr. Const. Manager	Trigon (CMTO)

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

No.	Name	Title	Agency
1	Tarek Rashdan	Engineer	USAID
2	Suhair Amareen	Project Director	Wahib Medanat
3	Natheer Amareen	PM	Wahib Medanat
4	Sawsan Al Yousef	RE	Wahib Medanat
5	Alaa Eleimat	SE	Wahib Medanat
6	Mohammed Mbaydeen	Safety Engineer	Wahib Medanat
7	Mohanad Abu Irshaid	Deputy GM	Dijlah Est. Co
8	Amer Abd AlGhani	PM	Dijlah Est. Co

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

9	Moheeb AL Whaidy	Safety Manager	Dijlah Est. Co
10	Ahmad Abdalhadi	Safety Officer	Dijlah Est. Co
11	Mahmoud Smadi	SE	Dijlah Est. 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**

	<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) (under review)	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. <u>SCHEDULE</u>		
10. SE has up to date CC Schedule on site? (Y/N)	N	
11. CC has up to date CC Schedule on site? (Y/N)		N
C. <u>EXIT OBSERVATIONS</u>		
12. What time does CC start work each morning on average?		7 ½ AM
13. What time does CC stop work each day on average?		4 ½ PM
14. What is the average # of hours worked each day?		8 hours

C. DESCRIPTION OF FINDINGS

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

A. SITE DOCUMENTATION

B. HEALTH & SAFETY

- The existing electrical poles must be supported and protected from soil sliding
- Shoring system started for the area adjacent to the road for protection from any soil slidding and to protect the electricity poles (CMTO recommended on November 18, 2020)

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

to protect the excavation area that adjacent to road from soil sliding and to protect the electricity from fallen down -Ref see attached FTR# 226)

C. GENERAL QUALITY OBSERVATIONS

- The excavation works is not completed yet.
- Shoring system is ongoing
- There is an area needs to be checked by Geotechnical lab to determine if it is a cavity or not before starting the construction the retaining walls (see photo)
- There is existing sewage manhole was noticed to area adjacent to road. This area needs to be assessed before starting the construction the retaining walls.

D. SCHEDULE

The excavation is stopped till the shoring system is completed

E. STATUS OF UTILITY CONNECTIONS / OTHER OUTSTANDING ISSUE

1. **Water Supply:** Not connected
2. **Wastewater:** Not connected
3. **Electricity:** Not connected
4. **Other Issue**

CMTO visited Hai Al Iskan School and Thahr Al Sarow School on November 18, 2020 to observe the work progress, H&S and obstacles in both schools and then provide recommendations to solve these problems

On December 8, 2020 CMTO team visited the site and unfortunately, it was noticed there was no work progress since the last visit CMTO had on November 18, 2020. We expected at least the Plain Concrete under foundation is casted and the preparation for casting the foundations is ongoing. It seems the vertical excavated slope is unsafe and the excavated areas in both sites are in need for further investigations by the Geotech lab..

Based on findings, a meeting was held to discuss the situation for the unsafe high vertical excavated slope with Mednan the SE of SKEPIII and the Dijlah the Construction Contractor (CC) in the presence of USAID.

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

Eng. Mike the COP suggested the followings to mitigate the unsafe situation :

- To contact immediately the Geotech engineer to assess and check the current vertical excavated slope.
- The Geotech engineer needs to inform the Contractor and Supervisory if there is any danger to the residential homes and their occupants upslope from the site. If yes, we need a plan on how to address this. This could be serious and may need to be addressed. The construction site is surrounded by three streets in three sides and the Antiquities Department is on the fourth side
- The Geotech Engineer must provide technical report with clear recommendations.
- The Supervisor Engineer will instruct the Contractor to take prompt actions based on the Geotech recommendations in coordination with the MPWH and the SE shall inform USAID and CMTO on the planned steps to be implemented.
- The Contractor must be ready for any action is requested by the SE to protect the excavate area from soil sliding
- To expediate the construction of retaining walls based on the Geotech report

Conclusion :

- Dijlah committed to expediate the construction works. Dijlah will contact the Geotech Engineer to assess the situation at sites and provide recommendations
- Medanat shall instruct Dijlah to proceed on the construction works based on Geotech Engineer's recommendations and after the approval of Mednant's Structural Engineer
- Medanat will report and keep all concerned parties informed.

Recommendations:

- The Contractor must submit Recovery Plan
- The Contractor must increase the manpower and resources
- The weather is unstable and may rain any time. This will effect on the construction of foundations

ATTACHMENTS – as marked below

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

E. PHOTOS

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



FIGURE #01:
Project ID Sign on site.

Photo credit: Osama
Obeid
December 8, 2020

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



*FIGURE #02 & 03:
During the site tour of
USAID, CMTO, SE and the
Contractor to check the
drawings and inspect the
excavation works and
unsafe vertical*

*Photo credit: Osama Obeid
December 8, 2020*



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



*FIGURE #02 & 03:
Shoringssystem started to
protect the area from soil
sliding and protect the
electricity poles from falling
down*



*Existing manhole : The
Contractor must protect the
manhole during the
excavation works*

*Photo credit: Osama Obeid
December 08, 2020*

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



*FIGURE #04:
This area needs to be checked by Geotechnical lab to determine if it is a cavity or not before starting the construction the retaining walls.*

*Photo credit: Osama Obeid
December 08, 2020*



*FIGURE #05:
The excavation works is stopped till completion the shoring system*

The new school consists four floor and roof of total surface area 5420 sq.m and the external works with total surface area of 4522 sq.m includes the basketball court

*Photo credit: Osama Obeid
December 08, 2020*

Trigon Quality Field Trip Report Attachment

Notes:

Date: 8-Dec-20
 School Name: Hai Al Iskan Basic Mixed SchoolSchool
 Location: Jerash
 Program / Phase / Package: SKEP/III/2
 Prepared by: Osama Obeid

#	Task / Activity	Observations (Y/N)	Findings	Recommendations / Corrective Actions
A. Excavation				
		Y	Unsafe vertical excavated slope	Needs to protect the area. It's recommended for shoring system where needed
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			
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	Steel 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			
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