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**Attention to:** احمد غطاس

**IDI PR #:** **44**

**Established by: Durid Mahrous**

**TIS Visit**

**Inspection Report - Soil Improvement**

**Date of visit: 26-Feb-2025**

**Location: 24.6722389,46.7283113**

**( Inspection Department, Saudi Arabia)**

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| **Owner** | محمود المصري | **TIS Company** | CPV Arabia |
| **Contractor** | احمد غطاس | **Report Issue Date** |  |
| **Project Location** | ) ﺍﻟﺮﻳﺎﺽ ) ﺣﻲ ﺍﻟﻘﻴﺮﻭﺍﻥ | **Inspection #** | 85 |
| **Inspection Stage** | Soil Improvement | **No. Of buildings** | 1 |
| **Inspector Name** | Durid Mahrous | **Work in progress** | Soil Improvement( اا ) |
| **Email** | dmahrous@cpvarabia.com | **Telephone** | 581089419 |

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| **Inspection Results: Satisfactory with Technical Reservation** |
| **Description of the inspections carried out:**  CPV ARABIA has conducted an on-site technical inspection (IDI) for Project PR #44 during the pre-pouring phase of the Soil Improvement.  The details of the inspection are described further as we go through this report. |

**Summary**

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| **Risks Assessment:** - Presence of Ground/Sewage Water  Proper dewatering method should be used, and the excavation should not be wet - Presence of Ground/Sewage Water  Proper dewatering method should be used, and the excavation should not be wet - High Risk, Major stability issue that can affect the building’s stability  Soil Report, Construction Plans and Saudi Building Code have to be followed - Presence of Ground/Sewage Water  Proper dewatering method should be used, and the excavation should not be wet - Presence of Ground/Sewage Water  Proper dewatering method should be used, and the excavation should not be wet - Presence of Ground/Sewage Water  Proper dewatering method should be used, and the excavation should not be wet - Presence of Ground/Sewage Water  Proper dewatering method should be used, and the excavation should not be wet - High Risk, Major stability issue that can affect the building stability  Construction Plans and Saudi Building Code have to be followed - The excavation level not complying with soil report recommendations and SBC limits, high risk, Major impact on the building stability which will increase the possibility of differential settlement of the building and affect the durability of the foundations   The level of excavation should comply with soil report and saudi building code - The excavation level not complying with soil report recommendations and SBC limits, high risk, Major impact on the building stability which will increase the possibility of differential settlement of the building and affect the durability of the foundations   The level of excavation should comply with soil report and saudi building code - The excavation level not complying with soil report recommendations and SBC limits, high risk, Major impact on the building stability which will increase the possibility of differential settlement of the building and affect the durability of the foundations   The level of excavation should comply with soil report and saudi building code - High Risk, Major stability issue that can affect the building’s stability  Construction Plans and Saudi Building Code have to be followed - The excavation level not complying with soil report recommendations and SBC limits, high risk, Major impact on the building stability which will increase the possibility of differential settlement of the building and affect the durability of the foundations   The level of excavation should comply with soil report and saudi building code - The excavation level not complying with soil report recommendations and SBC limits, high risk, Major impact on the building stability which will increase the possibility of differential settlement of the building and affect the durability of the foundations   The level of excavation should comply with soil report and saudi building code - The excavation level not complying with soil report recommendations and SBC limits, high risk, Major impact on the building stability which will increase the possibility of differential settlement of the building and affect the durability of the foundations   The level of excavation should comply with soil report and saudi building code - 101010101010  01010101010101010 - hsdfghsdgafdgag  dasfsadfdsafdsafds - final newticket = TicketModel( ticketID: DateTime.now().toString(), stageCategory: ', createdAt: DateTime.now().toString(), transferTo: selectDegreeCubit.transferSelectedOption.resourceID, transferToName: selectDegreeCubit.transferSelectedOption.name, stageName: widget.stageName ?? ', projectID: widget.projectId!, code: ', filePath: updateTicketCubit.filePath, degreeID: selectDegreeCubit.degreeSelectedOption.degreeID, degreeName: selectDegreeCubit.degreeSelectedOption.degreeID, lastUpdate: DateTime.now().toString(), referenceNo: widget.referenceNo!, creatorName: MySharedPreferences.firstName, updaterName: MySharedPreferences.firstName, commentEN: \_englishCommentCtrl.text, description: \_descritption.text, commentAr: \_arabicCommentCtrl.text, correctivEn: \_englishCorrectiveCtrl.text, correctiveAr: \_arabicCorrectiveCtrl.text, updatedInChace: !await InternetConnectionChecker().hasConnection, stageId: widget.stageId, degreeCategory: "", );   fadsfadsfads - fasdfasfadsf  dsafadsfsadf - 6456456456456  6546456456456456 - 6456456456456  6546456456456456 - uuhuhhhhhhh  vvgggggggggg - Presence of roof leakage, it is necessary to apply waterproofing treatment and perform the waterproofing test again.  **Stages missed without TIS involvement:** - During the ongoing project, we have identified that the contractor cast concrete before the TIS visit, which poses a potential risk to the project quality.  To address this issue, we will need to conduct on-site testing to confirm that the works have been executed based on SBC and engineering principles - During the ongoing project, we have identified that the contractor cast concrete before the TIS visit, which poses a potential risk to the projects quality.  To address this issue, we will need to conduct on-site testing to confirm that the works have been executed based on SBC and engineering principles. - During the ongoing project, we have identified that the contractor cast concrete before the TIS visit, which poses a potential risk to the projects quality.  To address this issue, we will need to conduct on-site testing to confirm that the works have been executed based on SBC and engineering principles. - rererererererer11111  vzxcxvxzcvxzcv1111 - fdsfdsgfdsa  adsfasdfasdf - fdsafdsafdsaf  adsfdsafsadfadsf - adddddddddd  1010101010101  **Interpretation of Additional Visit:** - Due to incomplete work, the site is not yet ready for inspection. We will reschedule an additional inspection visit for a later date once the work has been completed. - The excavation level not complying with soil report recommendations and SBC limits, high risk, Major impact on the building stability which will increase the possibility of differential settlement of the building and affect the durability of the foundations  - qqqqqqqqqqq - 1111111111 - 5555555555 - cvcvcvcvcvcvcv - sasasasasasas - yuyuyuyuyuyuy - asdasdffdfsfd - asdasdffdfsfd - asdasdffdfsfd - asdasdffdfsfd - asdasdffdfsfd - asdasdffdfsfd - asdadadadadad - asdadadadadad - High Risk, Major stability issue that can affect the building’s stability - The splice length  - High Risk, Major stability issue that can affect the building stability - The executed works on site are not in accordance with the plans or project documents received from the client, the client must upload the updated plans or project documents to the MALATH portal. This will enable us to compare the updated plans with the executed works on site and identify the risks on the buildings based on updated documents. - Due to incomplete work, the site is not yet ready for inspection. We will reschedule an additional inspection visit for a later date once the work has been completed. - The excavation level not complying with soil report recommendations and SBC limits, high risk, Major impact on the building stability which will increase the possibility of differential settlement of the building and affect the durability of the foundations  - The excavation level not complying with soil report recommendations and SBC limits, high risk, Major impact on the building stability which will increase the possibility of differential settlement of the building and affect the durability of the foundations  - <manifest xmlns:android="http://schemas.android.com/apk/res/android"> <!-- The INTERNET permission is required for development. Specifically, the Flutter tool needs it to communicate with the running application to allow setting breakpoints, to provide hot reload, etc. --> <uses-permission android:name="android.permission.INTERNET"/> </manifest>  - aaaaaaaaaaaaa - you can come over and get  - 1212121212121hgghg - adddddddddd - adddddddddd - hfghfhfghgfhfghf - hfghfhfghgfhfghf - hfghfhfghgfhfghf - vczxvczxvczxvzxc - Url:: https://test.rdapp.net/api/Inspection\_App/AddReportTicket.php  - Url:: https://test.rdapp.net/api/Inspection\_App/AddReportTicket.php  - Url:: https://test.rdapp.net/api/Inspection\_App/AddReportTicket.php  - Url:: https://test.rdapp.net/api/Inspection\_App/AddReportTicket.php  - Url:: https://test.rdapp.net/api/Inspection\_App/AddReportTicket.php  - Url:: https://test.rdapp.net/api/Inspection\_App/AddReportTicket.php  - Url:: https://test.rdapp.net/api/Inspection\_App/AddReportTicket.php  - Url:: https://test.rdapp.net/api/Inspection\_App/AddReportTicket.php  - [log] https://test.rdapp.net/uploads/inspection/  - 00000000000 - 00000000000 - 00000000000 - 404040040404 - 151515151515 - The excavation level |

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| General Site Pictures and Construction Plans |
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| General site picture and construction plans |

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| Checklist |

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| **No** | **Checklist** | **SBC Reference** | **Result** | **Remarks** |
| **1** | **Inspection criteria** | | | |
| 1.1 | Is the site ready for inspection with safe inspection conditions and safe access for the TIS inspection? | - | Passed |  |
| 1.2 | Were there any modifications in the project that is different from the RD0, Soil Report and Construction Plans...etc.)? | - | Passed |  |
| 1.3 | Is there any missing inspection stages in the project? | - | Passed |  |
| 1.4 | Are there any defects observed that can affect the building’s stability or RD5 inspection for slab stage hasn’t been closed yet? |  | Passed |  |
| 1.5 | Is the laboratory conducting tests certified by an ISO/17025-accredited body? | - | Passed |  |
| **2** | **Checklist** | | | |
| 2.1 | Are there any visible signs of inadequate compaction, such as surface irregularities or material segregation? | - | Passed |  |
| 2.2 | Are the area cleared of debris, vegetation, and loose soil? | - | Passed |  |
| 2.3 | Does the soil classification report been provided and Soil type match the approved specifications? | - | Passed |  |
| 2.4 | Are The compaction layer is uniform, and thickness matches with SBC specifications.? | - | Passed |  |
| 2.5 | Do the Compaction equipment and methodology comply with the approved method statement? | - | Passed |  |
| 2.6 | Does the moisture content of the soil match the optimum moisture content (OMC) as per the provided proctor test/modified proctor test results? | - | Passed |  |
| 2.7 | are the Field dry density measured using approved methods (e.g., sand cone, nuclear gauge) as per test specifications? | - | Passed |  |
| 2.8 | Are the compaction test results (Field compaction percentage) satisfactory and comply with SBC? | - | Passed |  |
| 2.9 | Is the test area level, debris-free, and prepared according to the approved method statement? | - | NA |  |
| 2.10 | Are the load is applied incrementally as per approved standards (e.g., ASTM D1196)? | - | Passed |  |
| 2.11 | Are The load-settlement relationship matches design requirements for bearing capacity and settlement limits? | - | Passed |  |
| 2.12 | Is a detailed test report, including load-settlement curves and results provided? | - | Passed |  |
| 2.13 | Are the compaction test results for the previous layers provided and verified on site? | - | Passed |  |
| 2.14 | Does the test plate meet the specified dimensions and thickness? | - | Not Passed |  |

Risk Assessment

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| **The compaction test results for the previous layers have been provided and verified on site .**   **Passed** |
| **The plate diameter and thickness not as per test specifications**   **Not Passed** |
| **The load is applied incrementally as per approved standards (e.g., ASTM D1196).**   **Passed** |
| **The compaction test results (Field compaction percentage) are satisfactory and comply with SBC**   **Passed** |
| **The moisture content of the soil is within the optimum moisture content (OMC) based on the provided proctor test results.**   **Passed** |
| **The compaction layer is uniform, and its thickness conforms to SBC specifications.**   **Passed** |
| **The soil classification report has been provided, and the soil type matches the approved specifications.**   **Passed** |
| **There are no visible signs of inadequate compaction, such as surface irregularities or material segregation**   **Passed** |

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| **Engineer In Charge of Inspection** | **Area Manager** | **Technical Inspection Manager** |
| **Name:** Durid Mahrous | **Name:** | **Name:** |
| **Signature:** | **Signature:** | **Signature:** |
| Date of Issuing the report: | | |