**REPORT RD2**

**RISK DEFINITION**

**NON-TRADITIONAL PROCESS - NEW MATERIALS**

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| **REFERENCE:** ${REF} | | | **TIS AGENCY:** ${TIS\_AGENCY} |
| **TECHNICAL/S RESPONSIBLE/S:**  **Design:** ${DESIGN}  **Project Control:** ${PC}  **Design review manager:** Mahmoud Elmasry | | | |
| **Revision:** ${REVISION} | | **CONTACT:** ${CONTACT} | |
| **DATE OF ISSUE:**  ${DATE\_OF\_ISSUE} | **FAX:** ${FAX} | **PHONE:** ${PHONE} | **EMAIL:** ${EMAIL} |

**TITLE I**

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| **PRINCIPAL/OWNER:** ${OWNER}  **PROPOSER (IF DIFFERENT):** ${PROPOSER}  **PROJECT TITLE:** ${PROJECT\_TITLE}  **ADDRESS:** ${ADDRESS}  **PROPOSED USE/OCCUPATION:** ${OCCUPATION}  **NUMBER OF BUILDINGS:** ${NUMBER\_OF\_BUILDINGS} |
| **PARTIES INVOLVED** |
| **DESIGN:**   * **ARCHITECT:** ${**ARCHITECT**} * **STRUCTURAL DESIGNER**: ${**STRUCTURAL\_DESIGNER**} * **SOIL REPORT:** ${**SOIL\_REPORT**}   **CONSTRUCTION:**   * **MAIN CONTRACTOR: ${CONTRACTOR****}** * **SUBCONTRACTORS:** **${SUBCONTRACTORS}** * **PROJECT SUPERVISOR**: **${Project\_SUPERVISOR}** * **QUALITY TESTING FIRMS:** * **OTHER (SPECIFY):**   **COMMENTS ON REFERENCES OF ARCHITECTS, ENGINEERING CONSULTANTS, AND CONTRACTORS OF THE OPERATION, PURPOSE OF THE INSPECTION, IF ANY:** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  | | --- | | Type of innovation material used:Concrete ${O129}Wood ${O1301}Plastic ${O1302}Aluminum ${O1303}New construction technology ${O132}Waterproofing system that includes innovative techniques, procedures, or materials?${O1772} Roof: ${Q1123}${B1122}${O1773} Façade: ${Q1125}${B1124}${O1774} Basement: ${Q1127}${B1126} |  |  | | --- | | ${concrete}  **Concrete mix design proportions:**  ${Q1008} |  |  | | --- | | ${B1007} |  |  | | --- | | ${concrete1}  **Concrete compressive strength: Footing:** ${B303} **Columns:** ${B297} **Floor Slabs:** ${B309}  **Composition of the system:**  ${O1568} Foundation: ${Q1014} |  |  | | --- | | ${B1015} |  |  | | --- | | ${concrete2}  ${O1569} Slabs: ${Q1011} |  |  | | --- | | ${B1012} |  |  | | --- | | ${concrete3}  ${O1570} Columns/Walls: ${Q1017} |  |  | | --- | | ${B1018} |  |  | | --- | | ${concrete4}  ${O1571} Beams: ${Q1021} |  |  | | --- | | ${B1022} |  |  | | --- | | ${concrete5}  **What is the main object that resist wind and seismic Loads?**  ${O1576} Moment resisting frame.  ${O1577} Diaphragms  ${O1578} Shear walls – Cores  ${O1579} Other system: ${Q1004}  **Protection methods for the used material:**  ${Q1029} |  |  | | --- | | ${B1030} |  |  | | --- | | ${concrete6}  **Is there any data about thermal insulation?** ${O1617} YES ${O1618} NO  If Yes, Mention it:  ${Q1134} |  |  | | --- | | ${B1133} |  |  | | --- | | ${concrete7}  **Tests that applied on the material:**  Laboratory test: ${Q1037} |  |  | | --- | | ${B1036} |  |  | | --- | | ${concrete8}  Field test: ${Q1130} |  |  | | --- | | ${B1129} |  |  | | --- | | ${wood}  **What are the material properties?**  ${Q1038}  **What is the purpose of using the material?**  ${Q1039}  **Are there any protection methods for the used material?**  ${Q1041} |  |  | | --- | | ${B1042} |  |  | | --- | | ${wood2}  **What is the tests that applied on the material?**  Laboratory test: ${Q1045} |  |  | | --- | | ${B1046} |  |  | | --- | | ${wood3}  Field test: ${Q1048} |  |  | | --- | | ${B1049} |  |  | | --- | | ${new}  **What is the new construction used?**  ${O1643} Emmedue panels.  ${O1644} Aluminum tunnel forms  ${O1050} ${Q1050}  **Concrete compressive strength: Footing:** ${B303} **Columns:** ${B297} **Floor Slabs:** ${B307}  **Composition of the system:**  ${O1648} Foundation: ${Q1055} |  |  | | --- | | ${B1056} |  |  | | --- | | ${new1}  ${O1649} Slabs: ${Q1058} |  |  | | --- | | ${B1059} |  |  | | --- | | ${new2}  ${O1650} Columns/Walls: ${Q1061} |  |  | | --- | | ${B1062} |  |  | | --- | | ${new3}  ${O1651} Beams: ${Q1064} |  |  | | --- | | ${B1065} |  |  | | --- | | ${new4}  **What is the main object that resist wind and seismic Loads?**  ${O1668} Moment resisting frame.  ${O1669} Diaphragms  ${O1670} Shear walls – Cores  ${O1066} ${Q1066}  **Protection methods for the used material:**  ${Q1070} |  |  | | --- | | ${B1071} |  |  | | --- | | ${new5}  **What is the tests that applied on the material?**  Laboratory test: ${Q1681} |  |  | | --- | | ${B1682} |  |  | | --- | | ${new6}  Field test: ${Q1685} |  |  | | --- | | ${B1686} | |

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| **Identified aggravating risks and additional information:**  **Design (RD5):**  ${RD5}  **Inspection (RD5):**  ${RD5in}  **Technical reservations:**  ${TR}  **Notes:**  ${NOTE} |

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| Riyadh, ${DATE\_OF\_ISSUE}  The Technician/S In Charge Of The Control  ${B4770}  Eng. ${curusernameRD0}  Civil Engineer  Soil Specialist  ${B477}  Eng. ${curusername}  Civil Engineer  Quality Control Manager  ${B4771}  Eng. ${curusernameQC}  Civil Engineer  Project Analysis Department Manager    Eng. Mahmoud Elmasry  Civil Engineer |