Develop Schedule Process: Importing Natural Coral from the Solomon Islands

1. Introduction:

The Develop Schedule process for Mar Organica's Project: Importing Natural Coral from the Solomon Islands involves integrating information from various project management processes to create a comprehensive and realistic project schedule. This process considers schedule activity sequences, durations, resource requirements, and constraints to ensure effective project time management.

2. Inputs:

2.1. Project Schedule:

Refer to the project schedule, which includes sequenced activities, durations, and dependencies from the Sequence Activities process.

2.2. Resource Calendars:

Leverage resource calendars to align resource availability with the scheduled activities.

2.3. Risk Register:

Review the risk register to account for any potential delays or accelerations due to identified risks.

2.4. Project Scope Statement:

Refer to the project scope statement to ensure alignment of the schedule with project objectives.

2.5. Historical Information:

Consider lessons learned from past projects to inform the scheduling process.

3. Tools and Techniques:

3.1. Schedule Network Analysis:

Utilize critical path analysis to identify the longest path through the project activities, determining the project's overall duration.

3.2. Critical Chain Method:

Explore the critical chain method to address resource constraints and optimize project schedules.

3.3. Resource Leveling:

Adjust the project schedule to account for resource constraints, ensuring an even distribution of resources over time.

3.4. What-If Scenario Analysis:

Evaluate various scenarios to understand the impact of potential changes on the project schedule.

4. Outputs:

4.1. Project Schedule:

- 4.1.1. Gantt Chart:
    - Develop a Gantt chart showcasing the project schedule with sequenced activities and their durations.
- 4.1.2. Network Diagram:
    - Present a visual representation of activity sequences and dependencies.

4.2. Schedule Baseline:

Establish a baseline for the project schedule, providing a reference point for future comparisons.

4.3. Project Documents Updates:

Update relevant project documents, including the risk register and resource calendars, to reflect the refined project schedule.

5. Guidelines:

5.1. Critical Path Focus:

Place emphasis on the critical path to ensure timely completion of the project.

5.2. Resource Optimization:

Optimize resource utilization through critical chain and resource leveling techniques.

5.3. Scenario Planning:

Conduct thorough what-if scenario analyses to anticipate and address potential scheduling challenges.

5.4. Continuous Monitoring:

Regularly monitor and update the project schedule as needed, considering changes in project scope, resources, or external factors.

6. Conclusion:

The Develop Schedule process is a pivotal step in Mar Organica's Project: Importing Natural Coral from the Solomon Islands. By integrating information from various project management processes and leveraging advanced scheduling techniques, this process results in a well-defined and realistic project schedule. The outputs, including visual representations and baseline documentation, provide a solid foundation for effective project time management and guide the project team throughout its execution.