

## **Minutes of Meeting (MOM)**

**Date:** Saturday, 10th August 2024

**Time:** 10:00 AM – 11:00 AM

**Attendees:** Amarnath, Daniel, Subash, Meena, Sabari, Saranya, Sumanth, Ajith, Latika

**Meeting Location:** Teams - Online Meeting

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### **1. Introduction**

**Time:** 10:00 AM – 10:15 AM

**Details:**

- Meeting commenced with introductions.

### **2. Explanation of 7 Phases**

**Time:** 10:15 AM – 10:30 AM

**Details:**

- **Phase 1: Pre-Construction Phase**
  - Focuses on detailed plans and specifications for construction.
  - **Key Activities:** Detailed architectural design, structural engineering design, MEP design, preparing construction documents, obtaining permits and approvals.
  - **People Involved:** Architect, Structural Engineer, MEP Engineers, Landscape Architect, Drafter/CAD Technician, Permit Officer.
  - **Companies Involved:** Architecture and Design Firms, Engineering and Consulting Firms, General Contracting Firms, Specialty Subcontractors, Construction Materials Suppliers, Heavy Equipment Manufacturers, Real Estate Development Firms, Project Management and Consultancy Firms, Infrastructure and Civil Engineering Companies, Facility Management Companies.
- **Phase 2: Architectural Design Phase**
  - Focuses on creating detailed designs including architecture, structure, MEP, and more.
  - **Involved Disciplines:** Architecture, Structural Engineering, MEP (Mechanical, Electrical, Plumbing), Landscape, Interior, Security, AV, Elevator.
  - **Key Tools:** Autodesk Revit, Graphisoft ArchiCAD, Bentley Systems MicroStation, Tekla Structures, Vectorworks Architect, Trimble SketchUp, Navisworks, Allplan, BricsCAD BIM, Autodesk Civil 3D, Dassault Systèmes CATIA, Solibri, Plannerly, Autodesk BIM 360, Rhinoceros (Rhino) with VisualARQ.

### 3. Building Information Modeling (BIM)

**Time:** 10:30 AM – 10:45 AM

**Details:**

- Overview of BIM and its role in digitally designing and virtually building construction projects.
- **Key Software:** Autodesk Revit, Graphisoft ArchiCAD, Bentley Systems MicroStation, Tekla Structures, Vectorworks Architect, Trimble SketchUp, Navisworks, Allplan, BricsCAD BIM, Autodesk Civil 3D, Dassault Systèmes CATIA, Solibri, Plannerly, Autodesk BIM 360, Rhinoceros (Rhino) with VisualARQ.

### 4. Overview of Phases

**Time:** 10:45 AM – 10:56 AM

**Details:**

- **Phase 3: Definition** - Detailed design of all stages.
- **Phase 4: Design and Finalize** - Send finalized designs to construction teams.
- **Phase 5: Build and Commission** - Various software involved.
- **Phase 6: Handover and Close Out** - All drawings, designs, and reports compiled.
- **Phase 7: Operation in Use** - Ongoing operation and management.

### 5. Equipment Overview

**Time:** 10:45 AM – 10:56 AM

**Details:**

- **Key Equipment:** High-performance computers, 3D laser scanners, drones (UAVs), total stations, VR headsets, AR devices, 3D printers, tablets and mobile devices, LIDAR systems, building sensors (IoT devices), 360-degree cameras, high configuration laptops.

### 6. Emerging Technologies

**Time:** 10:56 AM – 11:00 AM

**Details:**

- Discussion on Cyber Dog, blockchain, AI, cloud-based approaches, and communication improvements between different stakeholders.

## 7. Action Items

**Time:** 11:00 AM

**Details:**

- **Action Items:**
  - Assign each team member a specific phase to research.
  - Each member will prepare and present their assigned phase.
  - Presentation should cover key activities, people involved, companies, tools/software, and emerging technologies related to their phase.

**Next Meeting:** 17th August 2024

**Meeting Adjourned:** 11:00 AM

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**Prepared By**

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