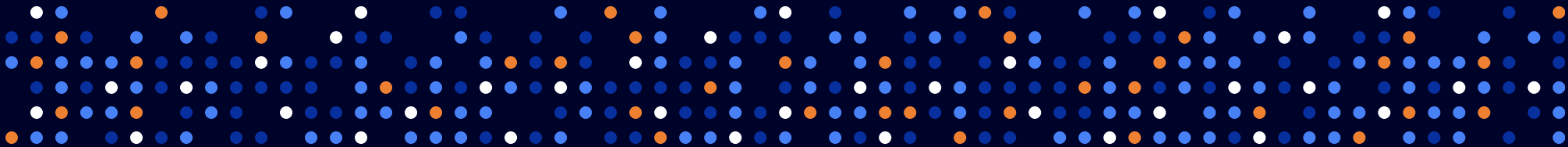
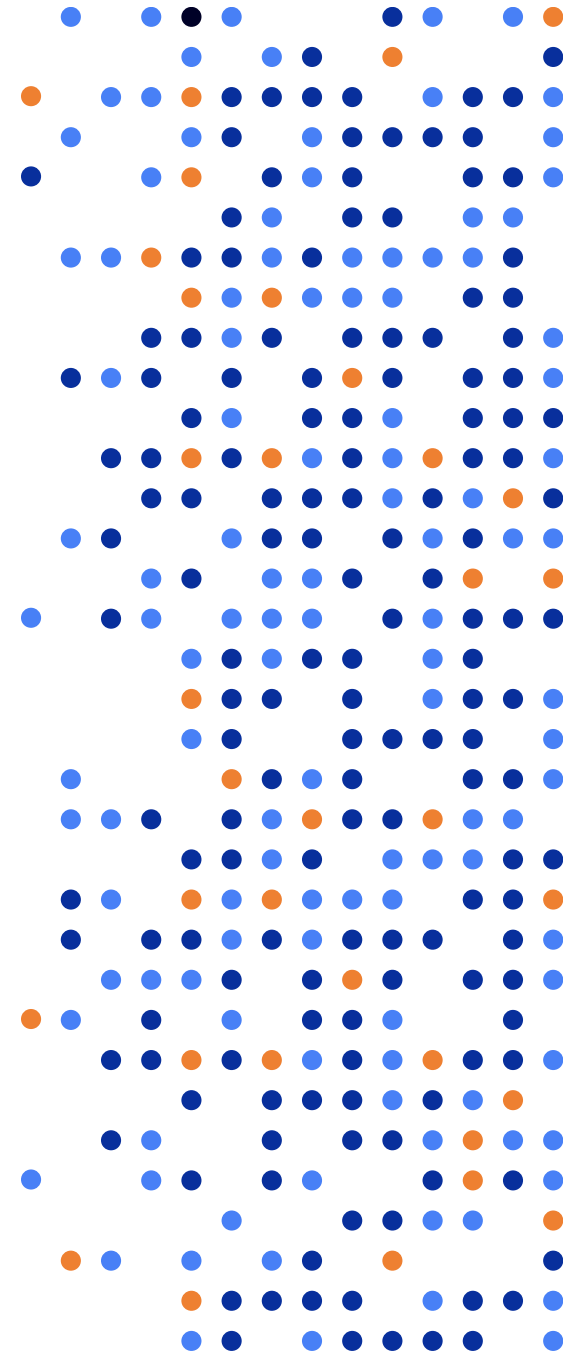


BOM1 Monthly Progress Report

14th May 2024

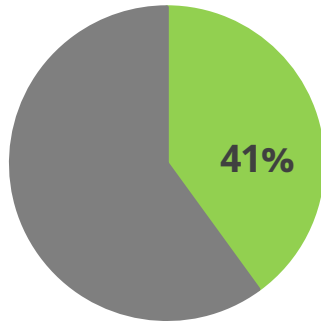


01 Project Summary

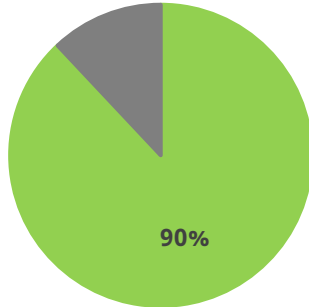


Executive Summary

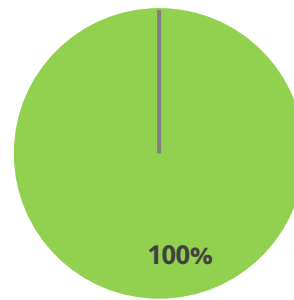
BOM1 Overall Status



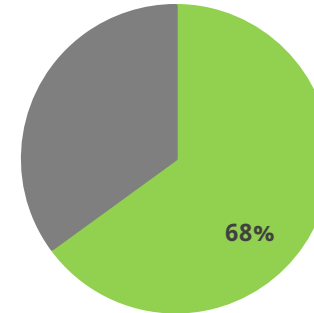
Procurement



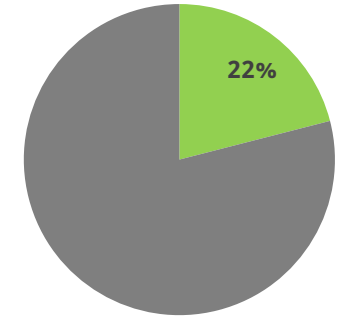
Design Development



Preconstruction



Construction



PROJECT SUMMARY

| | |
|------------------------------------|-------------|
| Project Commencement Date | 29-Jun-23 |
| Civil GC Commencement Date | 15-Sep-23 |
| Civil Works Completion Date | 19-March-25 |
| RFS Date | 14-July-25 |
| Current Date | 15-May-24 |
| Days Remaining (up to RFS) | 375 |
| Current Progress | On track |

KEY NOTES

Construction Sequence

ACTION REQUIRED

KEC have to increase the resource to cope up the progress in the UG tank construction and subsequently on Pour2 in DC building.

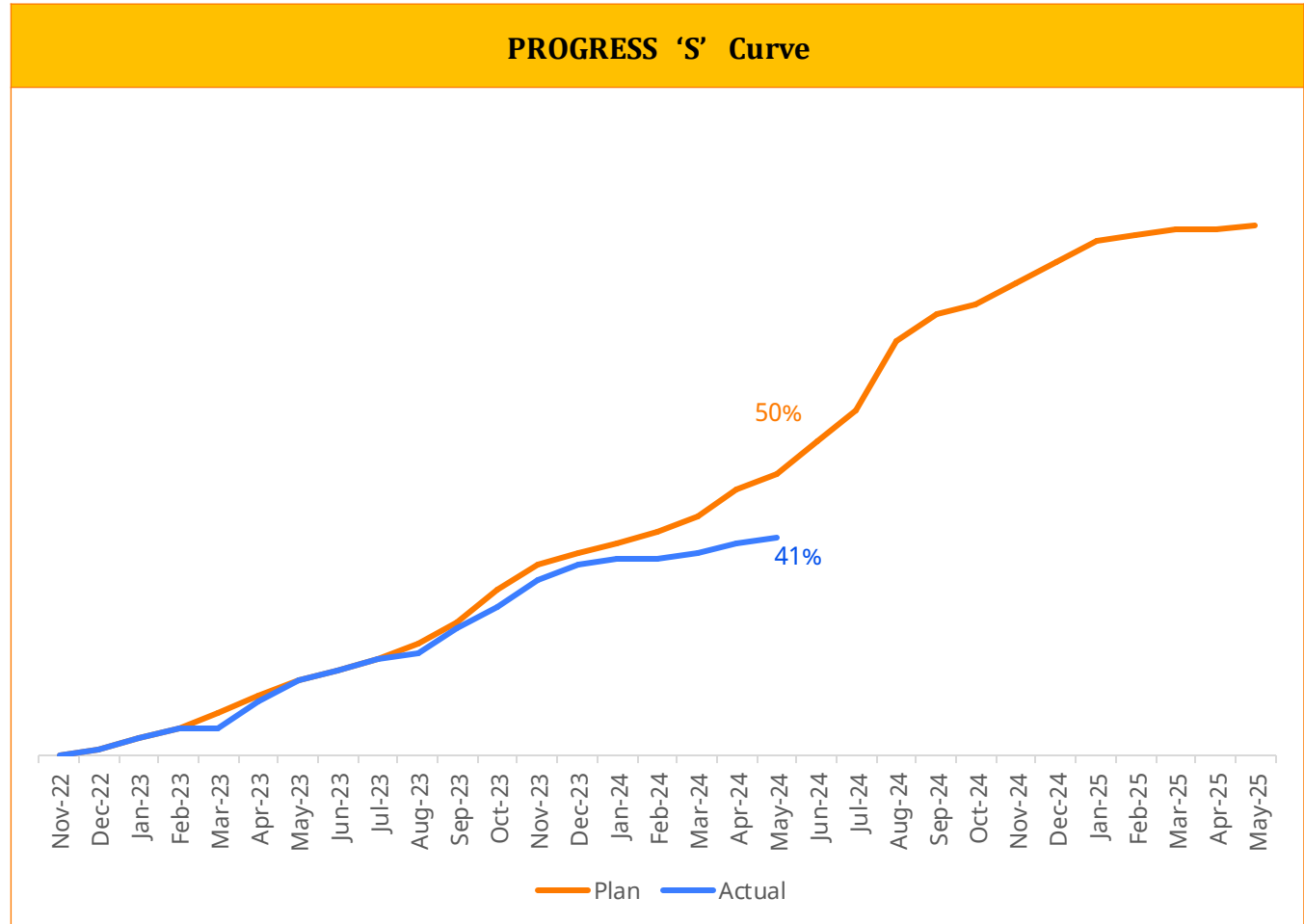
OWNER

KEC

| PROJECT SUMMARY | |
|----------------------------|-----|
| Days Remaining (up to RFS) | 375 |
| Planned Percentage | 50% |
| Actual Percentage ** | 41% |

| QUALITY - STATUS | | |
|--------------------|------------|-------|
| Description | Last Month | Cumm. |
| Open Observation | 15 | 51 |
| Closed Observation | 02 | 232 |
| Open NCR | 12 | 54 |
| Closed NCR | 03 | 25 |

| EHS Status | | |
|--------------------|------------|--------|
| Description | Last Month | Cumm. |
| Work Hours | 54616 | 393739 |
| Safe Work Hours | 54616 | 393739 |
| Total Observation | 94 | 2005 |
| First Aid Case | 0 | 0 |
| Lost time Incident | 0 | 0 |



** Construction progress is delayed 3% delay is planned to recover in next 5 weeks.

Key Highlights

| | |
|----------------------------|--|
| <p>Construction</p> | <p>A) Early package work:</p> <ul style="list-style-type: none"> • Fiber 5 :Overall, 83% Trenching & Ducting work completed • Fiber 6 : RoW demand note awaited from NMMC. • Northen Road: SWD excavation WIP, overall, 4% works completed. <p>B) CSA Package Work :</p> <ul style="list-style-type: none"> • DG Building (A-B) - Steel structure erection 43% completed. • DC Building (C-L) – 91 % substructure work completed, Plinth beam & shear wall construction WIP. • DG Building (C-L) - First Floor Pour 1, 85% Super structure completed, Top Rebar WIP • GIS Building : Cable cellar ground floor concrete completed. First Floor column shuttering & reinforcement WIP, target concrete by 16 May 24. |
| <p>Design</p> | <ul style="list-style-type: none"> • Building Management System & Security package : 4 number PoCs is complete and technical evaluation completed. Evaluation report received from Consultant. Pre-bid queries response received from Epsilon. • DC MEP contractor: technical submission & PPT from bidders under technical evaluation. All 6 bidders site visits completed. • Architectural and Interior Design Fit out Work Package: Pre-bid queries consolidated response shared with bidders on 9th May. Technical clarification meetings conducted in last week. |
| <p>Procurement</p> | <ul style="list-style-type: none"> • LV Panel - Techno commercial under approval. • MEP GC - Site visits completed. Technical Rating under preparation & schedule Under discussion Commercial and scope alignment in progress. • BMS - Technical Evaluation under progress. Commercial discussion being initiated. • Security - Tender enquiry floated. Query consolidation in progress • Civil Interior - Technical queries under discussion and commercial under progress. • Storm Water Drainage - Contract under sign off with NTT. |
| <p>Security</p> | <ul style="list-style-type: none"> • No threats reported |

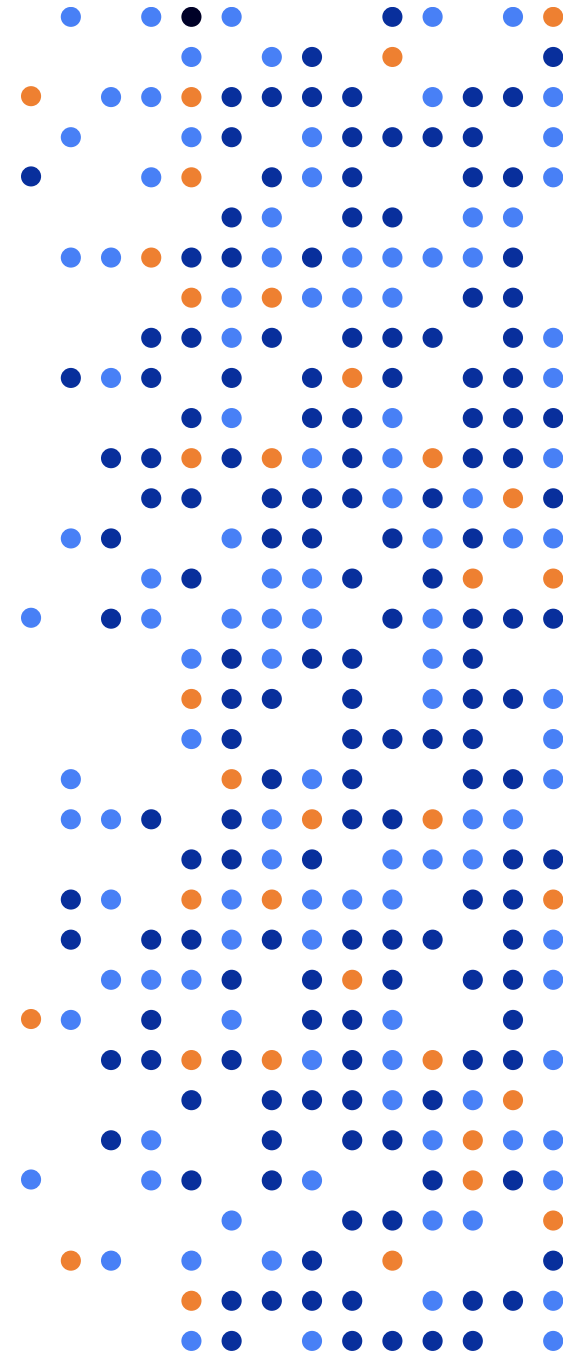
Current Risks

| KPI | RISK | PROPOSED MITIGATION & ACTIONS | Mitigation Status |
|--------------|--|---|-------------------|
| Construction | Shortage of manpower by KEC | It is impacting the civil construction completion of DC, DG & GIS building. Subsequently access to MEP contractor for GIS MEP & DC MEP vendor is impacting. | WIP |
| Construction | Underground services completion | Construction pace of substructure is not improving even after the work fronts are limited to substructure/Super structure works. | WIP. |
| Construction | Northern Road : Re-designing & Slow progress | Its is impacting the access to the MEP vendor to start underground services work Building UG Service impacting to start grade slab work. | WIP |
| Construction | Flood risk at the Primary Road | Existing storm water drains require maintenance and cleaning to avoid any flooding on the Primary Access Road. | WIP |

Critical Path (Up to Core & Shell)

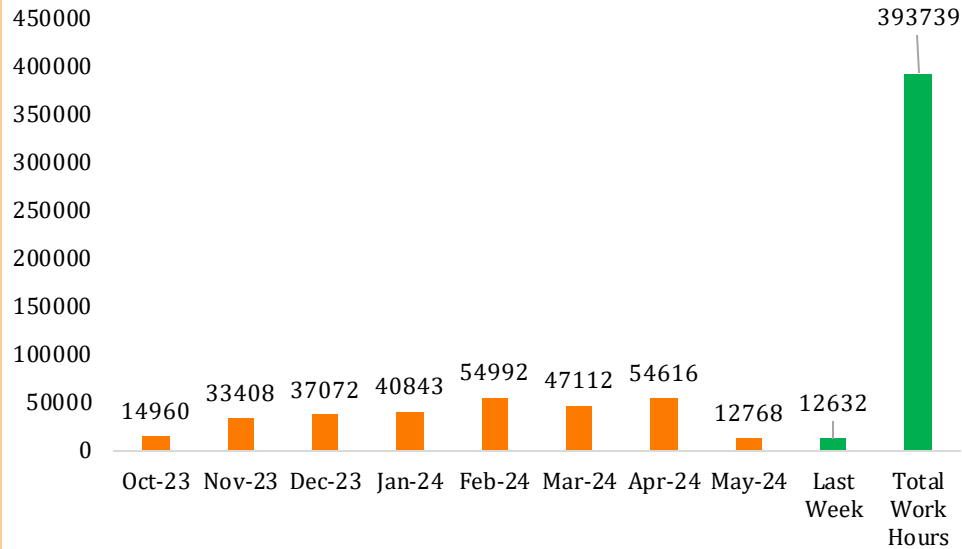
| Task Name | Baseline Start | Baseline Finish | Start | Finish | Status |
|--|----------------|-----------------|-----------|-----------|--------------------|
| BOM1 (TMC)- Phase 1 | 21-Nov-22 | 24-Apr-25 | 21-Nov-22 | 14-Jul-25 | |
| Base build core & shell works - CSA | | | | | |
| DC - Building | 20-Jun-23 | 10-Jan-25 | 20-Jun-23 | 25-Apr-25 | |
| Substructure Works | | | | | |
| Sub-structure (F+C+PB) | 14-Oct-23 | 15-Jan-24 | 28-Oct-23 | 21-May-24 | In progress |
| Column | 1-Nov-23 | 23-Nov-23 | 4-Nov-23 | 13-May-24 | In progress |
| Plinth Beam | 11-Dec-23 | 28-Dec-23 | 20-Jan-24 | 16-May-24 | In progress |
| Backfilling Works upto plinth beam | 28-Dec-23 | 15-Jan-24 | 2-Feb-24 | 21-May-24 | In progress |
| Superstructure | | | | | |
| CSA - Ground floor | 15-Jan-24 | 22-Feb-24 | 13-Feb-24 | 3-Jun-24 | |
| Pour1 | 15-Jan-24 | 14-Feb-24 | 13-Feb-24 | 3-Jun-24 | In progress |
| Interior - Ground floor | 5-Mar-24 | 28-Jun-24 | 30-May-24 | 27-Dec-24 | |
| CSA - 1st Floor | 14-Feb-24 | 16-Mar-24 | 3-Jun-24 | 5-Jul-24 | |
| Pour1 | 14-Feb-24 | 8-Mar-24 | 3-Jun-24 | 28-Jun-24 | |
| Pour2 | 22-Feb-24 | 16-Mar-24 | 8-Jun-24 | 5-Jul-24 | |
| Interior - 1st Floor | 29-Mar-24 | 21-Jun-24 | 19-Jul-24 | 24-Oct-24 | |
| CSA - 2nd Floor | 8-Mar-24 | 10-Apr-24 | 28-Jun-24 | 2-Aug-24 | |
| Pour1 | 8-Mar-24 | 2-Apr-24 | 28-Jun-24 | 26-Jul-24 | |
| Pour2 | 16-Mar-24 | 10-Apr-24 | 5-Jul-24 | 2-Aug-24 | |
| CSA - 3rd Floor | 2-Apr-24 | 4-May-24 | 26-Jul-24 | 2-Sep-24 | |
| Pour1 | 2-Apr-24 | 25-Apr-24 | 26-Jul-24 | 26-Aug-24 | |
| Pour2 | 10-Apr-24 | 4-May-24 | 2-Aug-24 | 2-Sep-24 | |
| CSA - 4th Floor | 25-Apr-24 | 28-May-24 | 26-Aug-24 | 30-Sep-24 | |
| Pour1 | 25-Apr-24 | 20-May-24 | 26-Aug-24 | 23-Sep-24 | |
| Pour2 | 4-May-24 | 28-May-24 | 2-Sep-24 | 30-Sep-24 | |
| CSA - 5th Floor (Terrace) | 20-May-24 | 21-Jun-24 | 23-Sep-24 | 24-Oct-24 | |
| Pour1 | 20-May-24 | 12-Jun-24 | 23-Sep-24 | 18-Oct-24 | |
| Pour2 | 28-May-24 | 21-Jun-24 | 30-Sep-24 | 24-Oct-24 | |
| Chiller Platform | | | | | |
| Column Pedestal with Tamplate & Bolt Casting | 12-Jul-24 | 26-Jul-24 | 14-Nov-24 | 26-Nov-24 | |
| Main SS Beams | 26-Jul-24 | 19-Aug-24 | 26-Nov-24 | 13-Dec-24 | |
| Secondary Beams | 21-Aug-24 | 4-Sep-24 | 16-Dec-24 | 27-Dec-24 | |
| Grating works | 28-Aug-24 | 4-Sep-24 | 21-Dec-24 | 27-Dec-24 | |
| Substation building | | | | | |
| Superstructure | 29-Dec-23 | 7-May-24 | 2-Feb-24 | 11-Jul-24 | |
| 1st Floor | 31-Jan-24 | 24-Feb-24 | 3-May-24 | 5-Jun-24 | In progress |
| 2nd Floor | 11-Apr-24 | 7-May-24 | 12-Jun-24 | 11-Jul-24 | |
| Finishing works | 26-Feb-24 | 6-Apr-24 | 12-Jul-24 | 30-Aug-24 | |

02 Construction Safety



Construction Safety

Work Hours



Key Updates`

- **'0'** LTI, **'0'** reportable incidents past 7 days.
- **'02'** Internal DABS meeting.
- **'32'** Nos." total DEI team safety observations, **'04'** positive, **"28** negative, **'00'** critical..

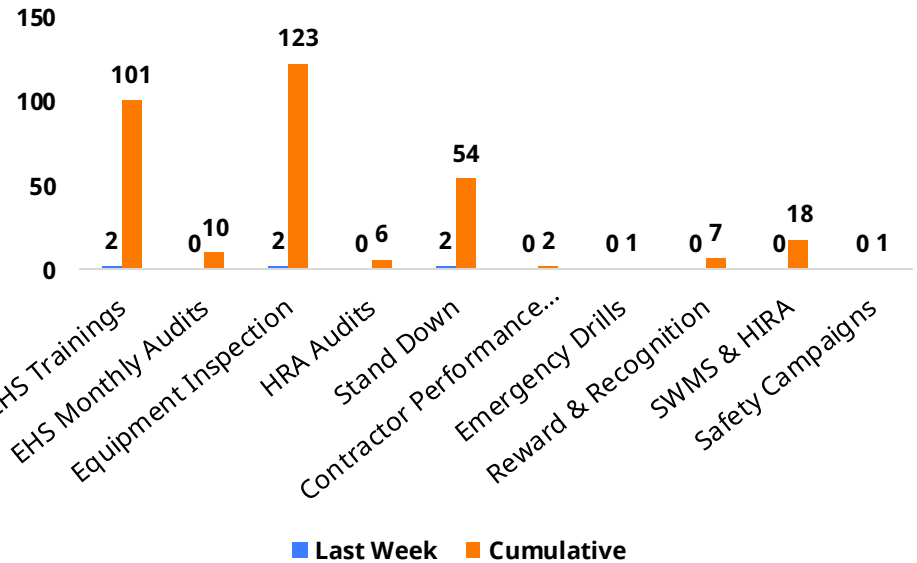
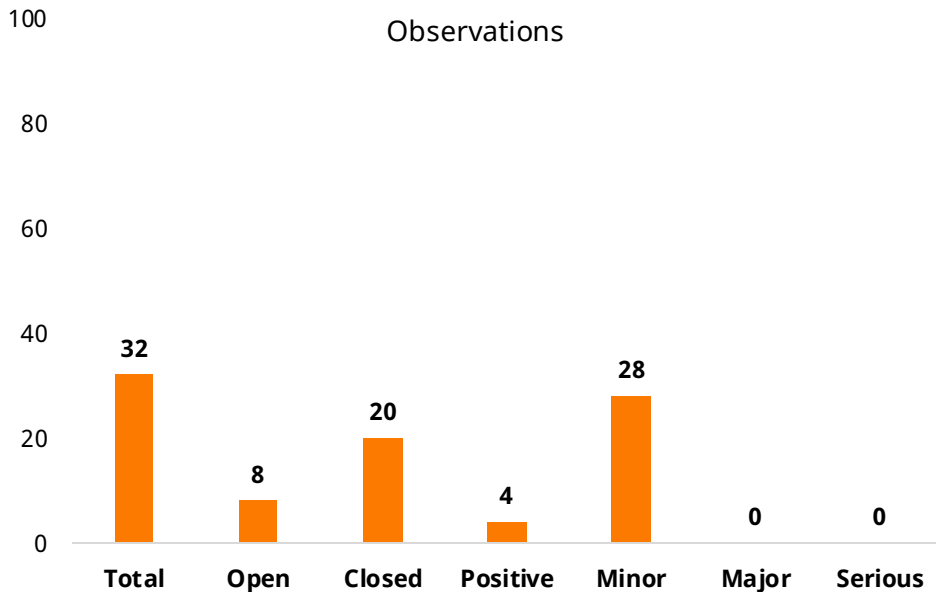
Key Actions

- **15** toolbox talks. **'142** permits issued.
- **'02'** Safety Training
- 61 Safety inductions completed, **'2'** plant / machinery inspection.

Risk Management

- Last Week - 7 HRA - Ground Disturbance, WFH, Lifting Operation ,Driving, Material Handling, Hazardous material, Electrical work
- Next week - 07 HRA - Ground Disturbance, WFH, Lifting Operation ,Driving, Material Handling, Hazardous material, Electrical work

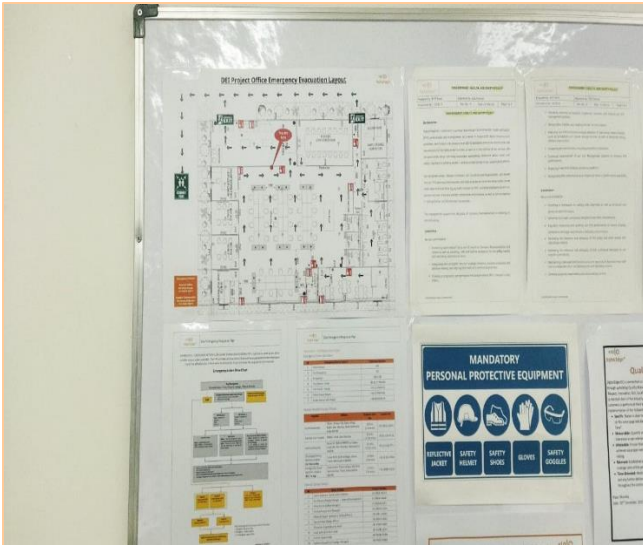
Observations



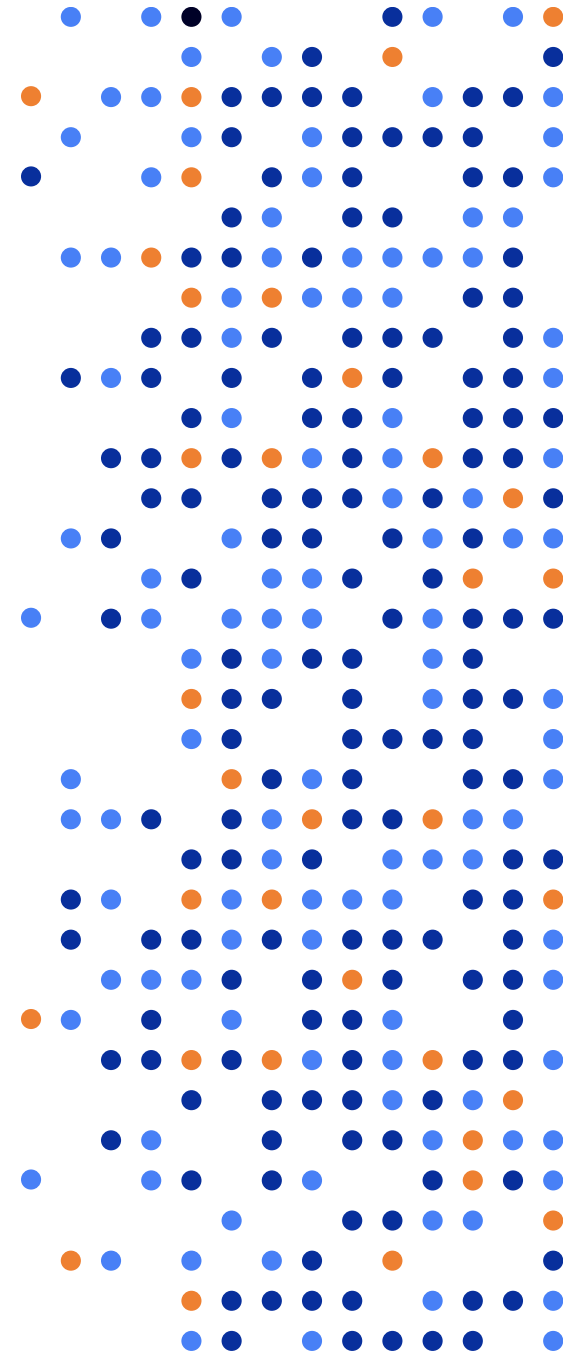
Key EHS Deliverable

| Sl.No. | Item | Action / Info | Action Status / Target |
|--------|--|--|------------------------|
| 1 | AI Camera | <ul style="list-style-type: none"> Vendor appointed. Kick-off schedules on 13 May 24. | TBA |
| 2 | Operational procedure for installation methodology | <ul style="list-style-type: none"> Completed. Submitted for review. | 10 May 24 |
| 3 | Revision of Waste management Plan | <ul style="list-style-type: none"> In Progress | 13 May 24 |
| 4 | DEI Guidance document for housekeeping and material storage (under revision) | <ul style="list-style-type: none"> Completed. Submitted for review. | 09 May 24 |

Construction Safety Positive Observations



05 Design & Procurement



Design Update

Overall Design Progress RIBA4 completed 100%. Completed and ongoing activities are summarized below:-

- **Building Management System & Security package** : 4 number PoCs is complete and technical evaluation completed. Evaluation report received from Consultant. Pre-bid queries response received from Epsilon.
- **DC MEP contractor:** technical submission & PPT from bidders under technical evaluation. All 6 bidders site visits completed.
- **Architectural and Interior Design Fit out Work Package:** Pre-bid queries consolidated response shared with bidders on 9th May. Technical clarification meetings conducted in last week.

Design Tracker:

| RFI SUMMARY | | | | | | | |
|-------------|--------------|--|------------|---------------------|----------|----------|---------------|
| SR. NO. | TPM | | TOTAL | RAISED IN LAST WEEK | OPEN | CLOSED | CRITICAL OPEN |
| 1 | DEI | | 38 | 1 | 1 | 0 | 0 |
| 2 | KEC | | 87 | 1 | 1 | 1 | 0 |
| | Total | | 113 | 2 | 3 | 0 | 0 |

| DESIGN DELIVERABLES SUMMARY | | | | | | |
|-----------------------------|-------|-----------|-------------|--------------|----------|-------------------|
| PACKAGE | TOTAL | SUBMITTED | PENDING SUB | UNDER REVIEW | APPROVED | REVISE & RESUBMIT |
| KEC | 963 | 894 | 50 | 4 | 891 | 15 |

| TDS SUMMARY | | | | | | |
|-------------|-------|-----------|-------------|--------------|----------|-------------------|
| PACKAGE | TOTAL | SUBMITTED | PENDING SUB | UNDER REVIEW | APPROVED | REVISE & RESUBMIT |
| KEC | 152 | 19 | 133 | 0 | 19 | 0 |

Procurement Highlights

BOM1

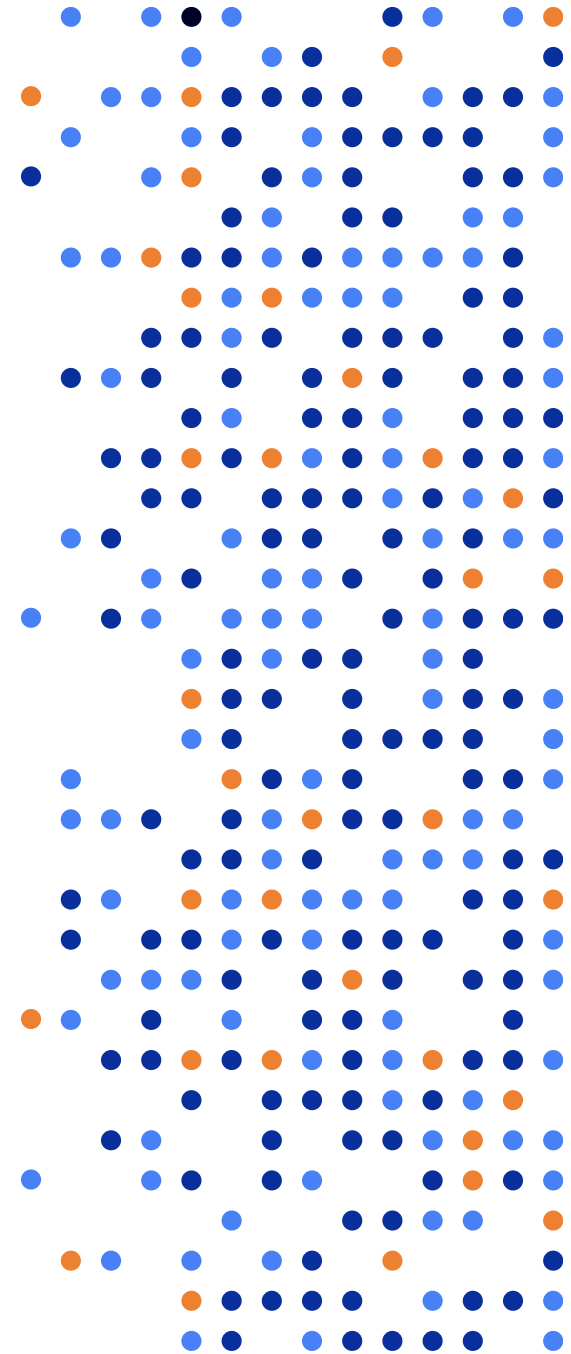
- **LV Panel** - Techno commercial under approval.
- **MEP GC** - Site visits completed. Technical Rating under preparation & schedule Under discussion Commercial and scope alignment in progress.
- **BMS** - POC completed with participating bidders. Technical Evaluation under progress.
- Commercial discussion being initiated.
- **Security** - Tender enquiry floated. Query consolidation in progress
- **Civil Interior** - Technical queries under discussion and commercial under progress.
- **Storm Water Drainage** - Contract under sign off with NTT.

BOM2

- MEP design, CSA, Substation, Cost & Permitting consultant on boarded.

| No. | Packages | Recommendation | Award Works | Status | Program Impact |
|-----|----------------------------|----------------|-------------|----------------------------------|----------------|
| 1 | LV Switch gears and panels | 22-Apr-24 | 10-May-24 | Techno Commercial under approval | No |
| 2 | DC MEP | 01-Jun-24 | 25-Jun-24 | Commercial discussion WIP | No |
| 3 | Interior Fitout | 31-May-24 | 07-Jun-24 | Techno commercial discussion WIP | No |
| 4 | BMS | 25-May-24 | 10-Jun-24 | Technical Evaluation WIP | No |
| 5 | Security | 01-Jun-24 | 10-Jun-24 | Technical Evaluation WIP | No |

07 Quality





Construction Quality Update

| QUALITY - STATUS | | |
|--------------------|-----------|-------------|
| Description | Last Week | Cumulative. |
| Open Observation | 15 | 51 |
| Closed Observation | 02 | 232 |
| Open NCR | 12 | 54 |
| Closed NCR | 03 | 25 |

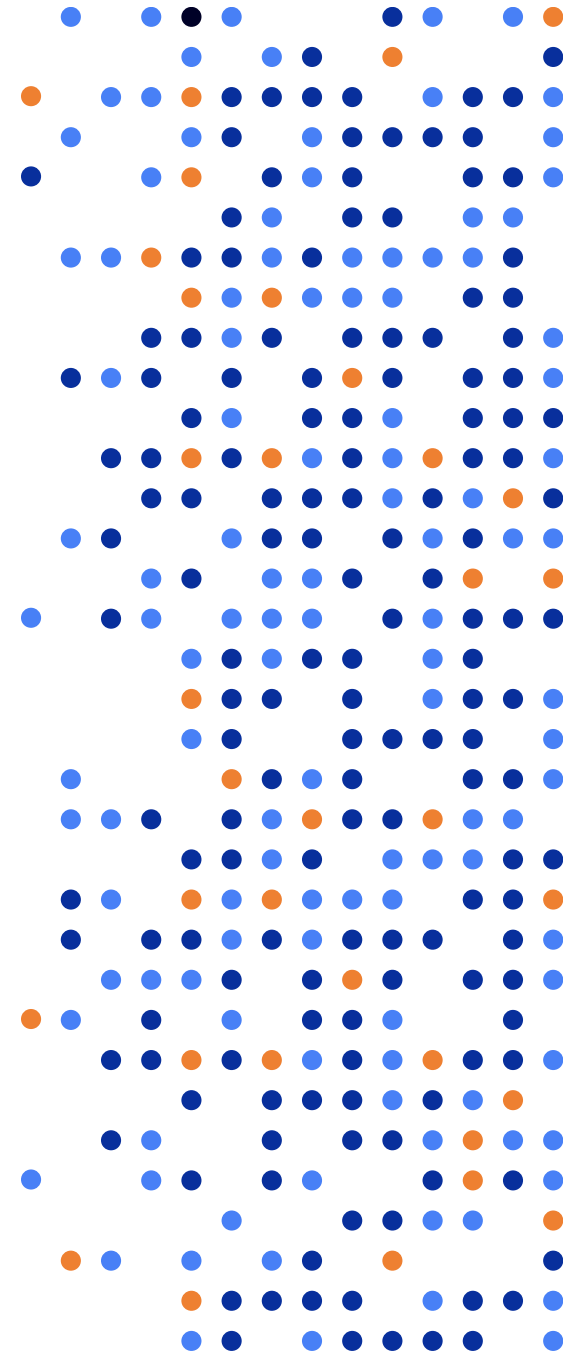
| Analysis | Count | Obs / IRLs / NCs |
|------------|------------|--|
| High | 4 Nos. | <ul style="list-style-type: none"> Poor Waterproofing application Concrete finishing not as per standard, uneven surface and visible aggregates. Vertical Cracks on the columns Backfilling at UGT at 3.5 m height without layer wise compaction |
| Ageing | 16-30 Days | <ul style="list-style-type: none"> NCR closure Coverage on Reinforcement Steel with Tarpaulin / Shades to avoid oxidation during monsoon |
| Repetitive | >01 Times | <ul style="list-style-type: none"> Cleaning of Structural Steel before erection Honeycombs Cracks due to improper vibration and not adhering curing Cracks after repair |

Construction Quality Update

Quality Observations

| Sr.no. | Observation | Location | Photo | Recommendation |
|--------|---|-----------------------|---|--|
| 1 | Rebar protruding even after casting of the Wall UGT External Wall, Eastern side, M-N/1 grid Date: 06.05.2024 | UG External Wall |  | KEC to cut the extra reinforcement. |
| 2 | Undulating and improper finishing on top of the wall Date: 06.05.2024 | Transformer Dyke Wall |  | Top surface shall be finished levelled. KEC to propose corrective methodology using bonding agent. |

08 Security & Admin

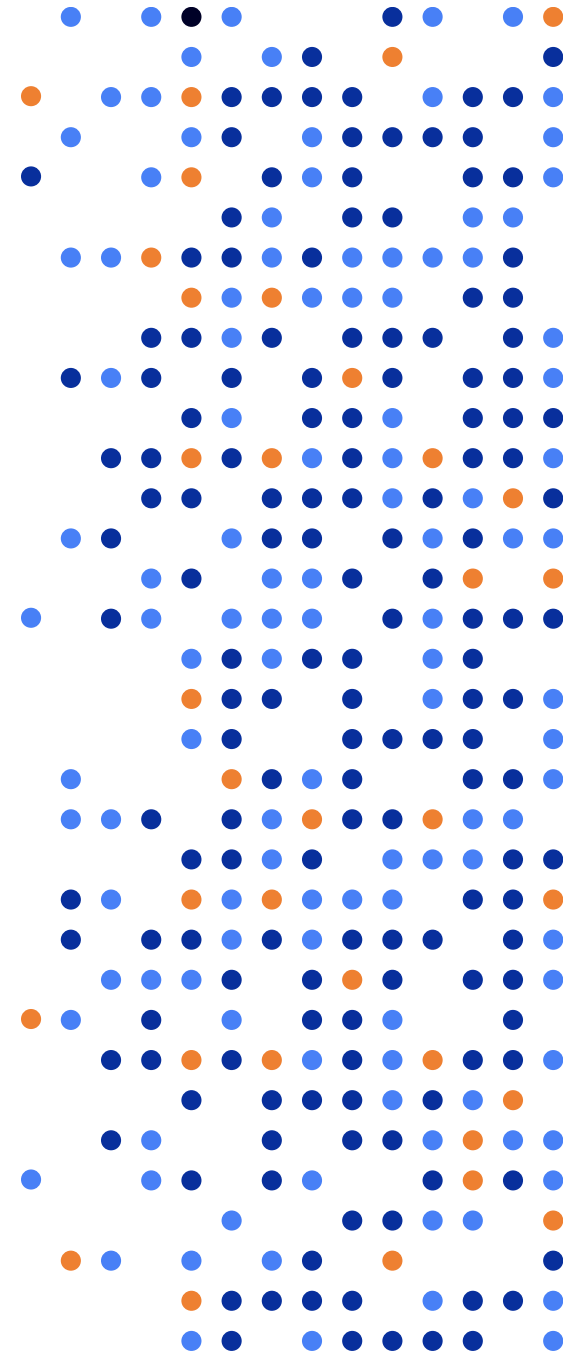


Admin & Security Update

No Security concern is reported in last month. Below are the summary of Security & Admin tasks.

| Sr. No. | Summary | Status | Target Date | Remarks |
|---------|---|---------------|-------------|---------------------------|
| 01 | Preparation of area for access control system at construction site | Closed | | Cabin in operation |
| 02 | CCTV installation across eastern boundary wall. | Under process | | Work order not yet issued |
| 03 | KEC, parking, carbon off areas not yet prepared, Garbage disposal needs to be addressed | Open | | In progress |
| 04 | Raising height of eastern side boundary wall by 1-1.5 mtr to avoid intrusion/jumping over the wall | Open | | WO being issued |
| 05 | DEI toilet block needs to be fixed and installed | Closed | | |

09 Progress Pictures



On Site Works – 30 Apr 24

DG – Substructure (A-B), DC – Substructure (C-L) and GIS



On Site Works – May 24

DC – Substructure (C-L) , DG – Substructure (A-B) and GIS substructure



Thank You

