

| FMCG • HUB OPERATIONS • CONGESTION MANAGEMENT

How Freight Tiger decreased congestion at hub by identifying bottlenecks

IMPACT

8%

Reduction in detention cost

11%

Reduction in overall transit time

OVERVIEW

The customer is one of the top FMCG companies in the world. The hub in consideration is one of the largest hubs in India which handles both primary as well as secondary movements. Visibility into the in plant movements was paramount to improve efficiency and reduce the time of vehicles inside the hub.

SOLUTION

- Implemented FT Trace to enable seamless data collection and FT Insights for trend analysis.
- Implemented route scheduling to distribute load throughout the day.
- Ensured transporter and warehouse manager compliance to reduce loading time.

KEY CHALLENGES

- ⚠ 20 hours TAT @ Origin.
- ⚠ No visibility of hub operational efficiency.
- ⚠ Highly uneven load distribution led to congestion between 2 PM to 6 PM.
- ⚠ Increase in parking time led to higher detention costs; out of 24 hrs spent by a vehicle at origin, 16 hrs were spent in parking.

00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
24	24	24	24	24	24	24	24	24	22	20	20	18	19	32	32	33	33	33	33	33	30	29	26
25	24	23	23	23	23	23	21	18	10	9	9	9	13	15	18	18	18	18	17	16	15	9	8
7	7	7	7	7	7	7	7	6	5	13	13	13	16	20	21	21	21	21	20	18	18	18	17
16	16	15	15	15	14	14	14	11	11	14	12	12	13	16	19	19	19	19	19	18	16	14	13
11	11	11	11	11	11	10	10	8	6	11	13	14	14	14	14	19	21	21	21	21	21	18	15
15	13	13	13	13	13	13	13	12	13	10	7	12	14	14	15	19	20	19	19	19	17	16	16
15	14	14	14	14	13	11	10	9	6	14	16	18	19	21	21	22	23	23	23	23	22	21	20
18	17	17	17	17	17	16	16	15	15	17	15	18	14	15	15	16	16	16	16	15	15	12	11
11	11	11	11	11	11	11	11	11	10	13	11	11	11	13	13	14	15	15	15	15	14	11	6
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9	9	9	9	9	7	7	7	6	2	3	3	3	3	4	4	4	4	4	4	4	4	3	3
1	1	1	1	1	1	1	1	1	6	8	9	9	12	13	13	14	14	14	14	14	13	10	9
4	4	4	4	4	4	4	3	2	4	5	5	9	12	12	12	12	11	11	10	9	9	7	6
5	5	5	5	5	5	5	5	5	7	6	6	6	8	8	8	11	11	11	10	9	7	7	4
4	4	4	4	4	2	2	2	1	5	10	11	11	13	14	13	14	14	14	13	13	12	10	9
8	8	8	8	8	8	4	3	3	4	9	7	7	12	12	12	17	17	17	17	14	12	12	9
9	8	8	8	8	8	7	7	5	3	7	8	8	9	13	13	14	14	14	14	12	12	11	10

Hourly load distribution across the hub, before route scheduling.

BUSINESS IMPACT

- ✔ **8% reduction in detention cost** from efficient vehicle distribution.
- ✔ **11% reduction in overall transit time**, improving delivery reliability.
- ✔ Achieved reduction in manpower overtime post load distribution.
- ✔ Scheduling of vehicles helped avoid repeat visits to the same warehouse.