

*Conference on  
Leverage Global Innovations to Fuel CGD Growth in India*



**BEST PRACTICES & INNOVATIONS –**  
**JOURNEY TO CGD EXCELLENCE**



**Date : 17.02.2026**

# PATHARDI LNG–LCNG: A PROVEN MODEL FOR CGD RESILIENCE



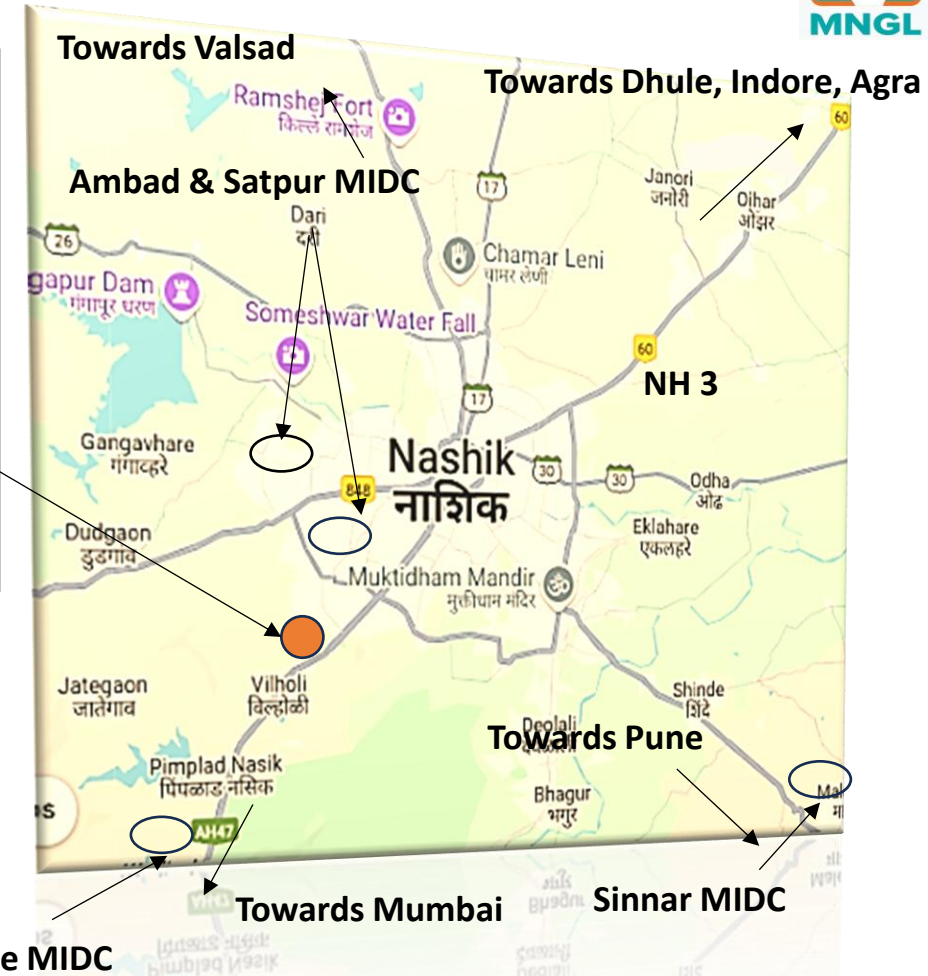
## Authorization :

- GA authorized in Sep 2018
- MNJPL feeder pipeline approved in 2019



## Strategic & Modular Design

- **3 × 114 KL tanks** in phased development (2 + 1 expansion)
- HP/MP/LP streams & **Auto-LNG dispensing**
- **Location advantage:** NH3, with access to key industrial belts



*MNGL's first Virtual CGS*

## Performance & Recognition

**About 2 lakh SCMD supply** post-expansion

Fully Power backed up by **125 KVA x 3 Gas Genset**

**Zero BOG** achieved via network readiness

**Not a single hr shut down** due to equipment or design failure

Emerged as the **largest selling LNG–LCNG station in Southeast Asia by any CGD**

# BUILT AGAINST THE ODDS: PATHARDI LNG-LCNG IN ACTION

**Hard Hilly Strata Cracked**



**Aquifer & waterlogging managed**



**LNG Dyke Area Ready for Key Equipment Installation**



**Foundation for 3<sup>rd</sup> tank pre-planned**

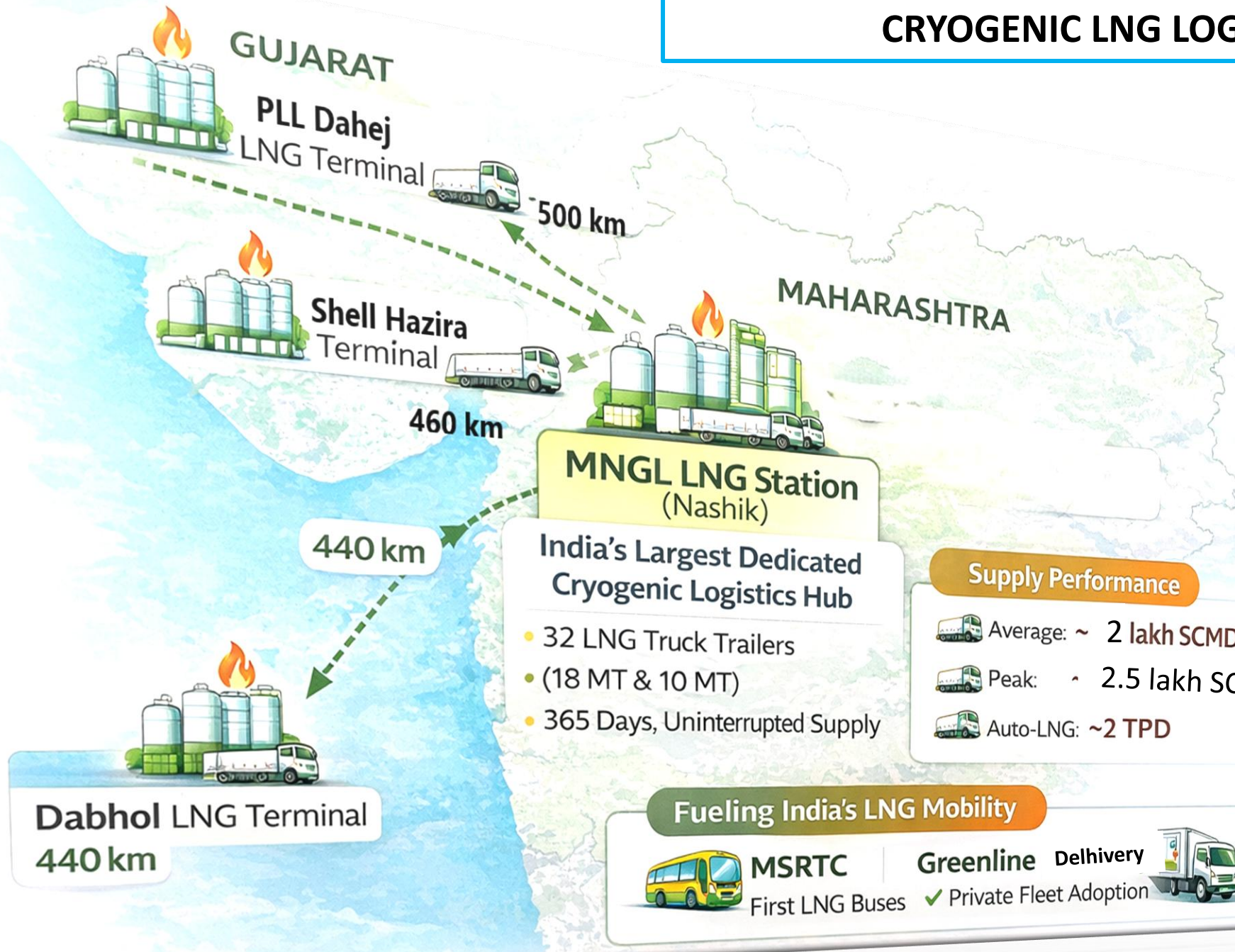


**Station Successfully Commissioned (FY22) in Record Time**

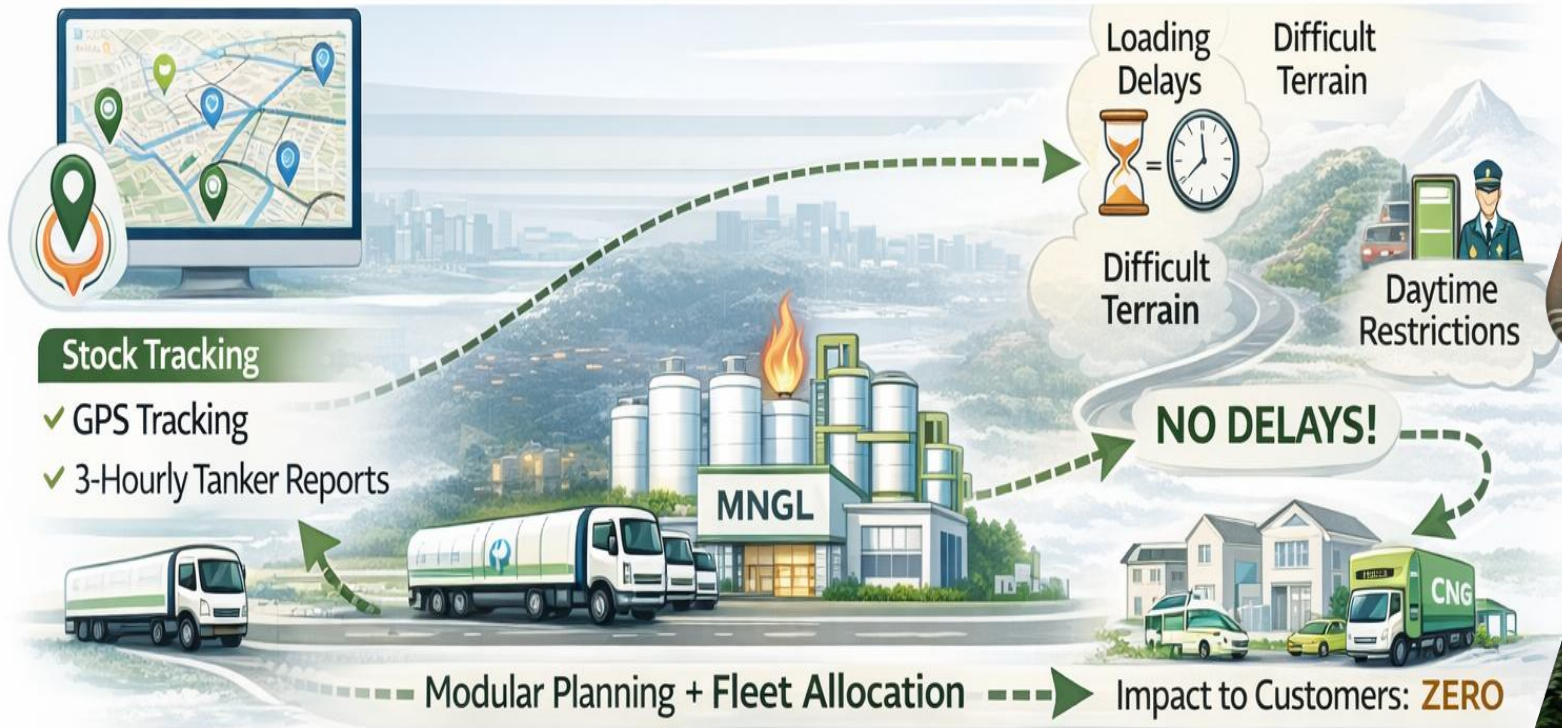
Achieved in about 8 months from receiving all necessary approvals to begin construction, overcoming challenges related to timely availability of material and services during the peak of the unprecedented COVID wave.

The expansion with the addition of a third tank in FY25 has enhanced the delivery capacity to 2.5 lakh SCMD.

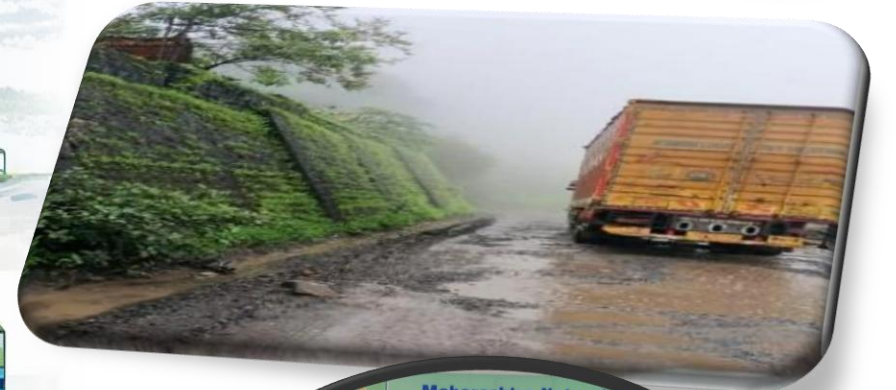
# ENSURED DAILY GAS SECURITY THROUGH CRYOGENIC LNG LOGISTICS



# OPERATIONAL RESILIENCE : MANAGING LNG LOGISTICS UNDER UNCERTAINTY



**Road Conditions from Konkan LNG**



## Proven Under Pressure

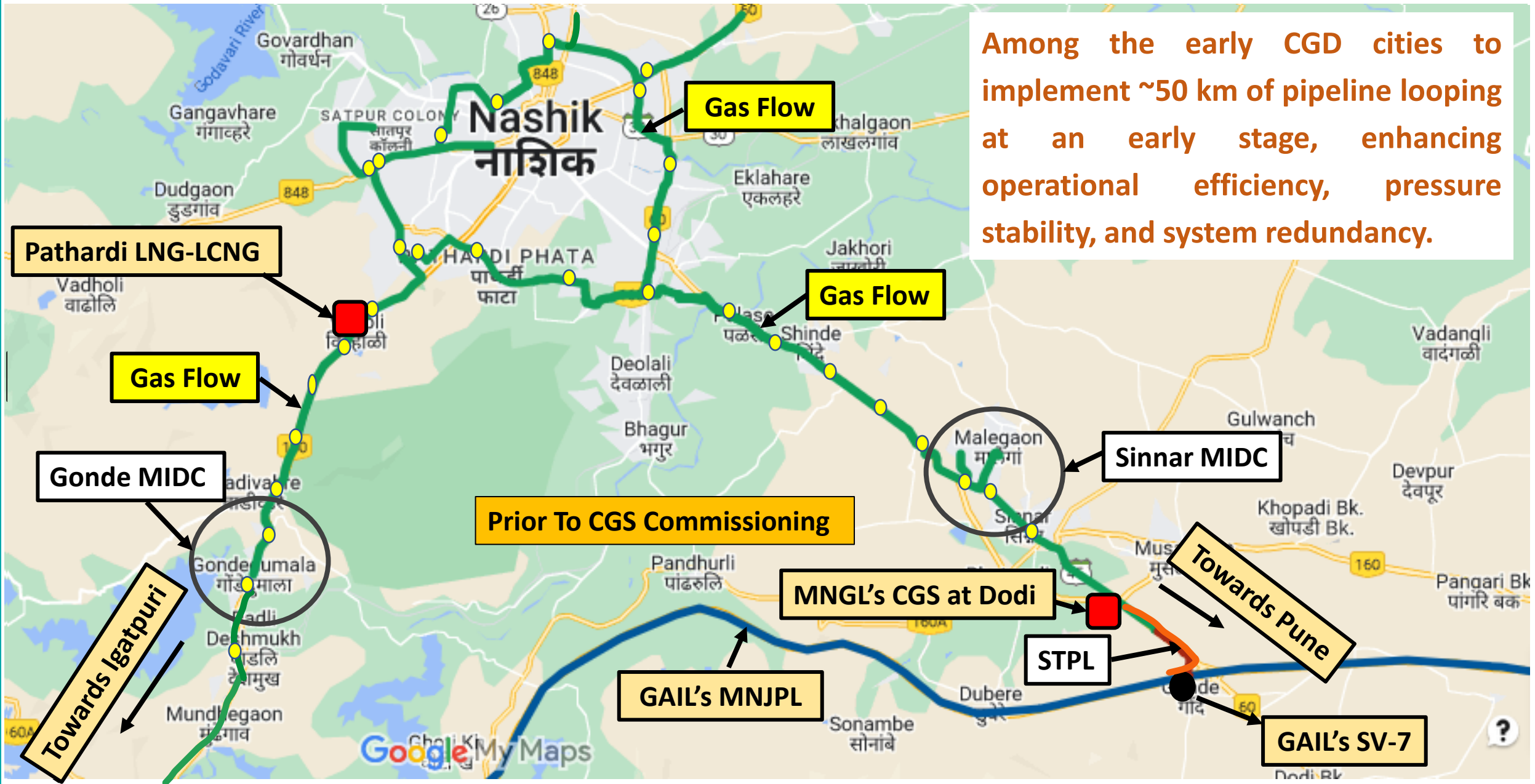
- Baroda Floods | Aug 2024
  - Rapid Fleet Re-Routing
  - Minimal Impact
- Truck Driver Agitation | Jan 2024
  - Rapid Fleet Re-Routing
  - Minimal Impact



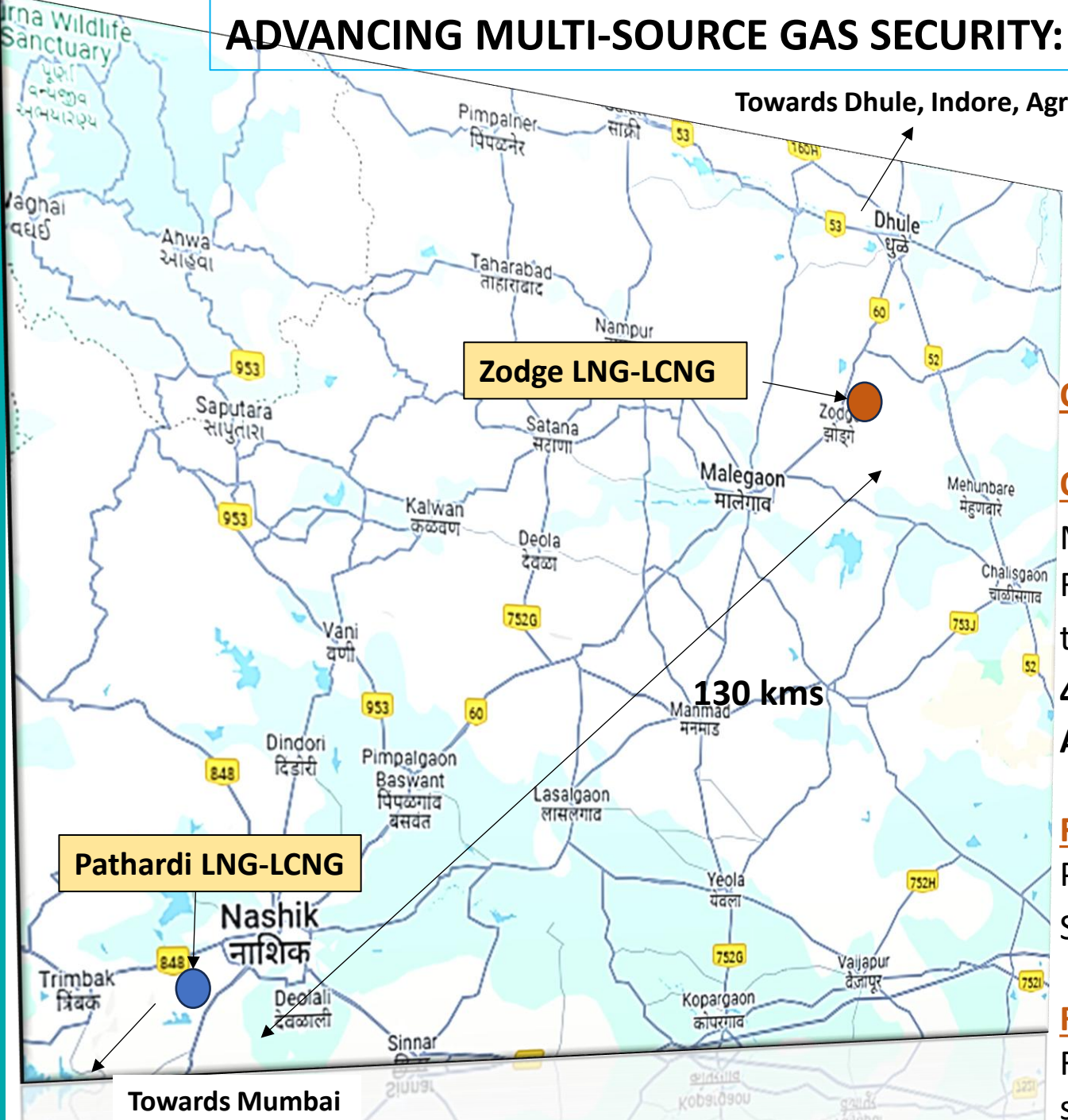
**Mini Fire Tender = 24x7 Safety Shield**

# UNIQUE INITIATIVE : EARLY STEEL PIPELINE LOOPING IN PRACTICE

Among the early CGD cities to implement ~50 km of pipeline looping at an early stage, enhancing operational efficiency, pressure stability, and system redundancy.



# ADVANCING MULTI-SOURCE GAS SECURITY: MNGL'S 2<sup>nd</sup> LNG-LCNG STATION



**Commissioned** : Feb 2025 | **Location**: Zodge

## Operational from Day One

MP, HP & LP streams commissioned on the **same day**  
Retail, DPNG, Commercial & 1 BPCL OLS sales enabled from the **very next day**

**40,000 SCMD** achieved in just **3 months**

**Auto-LNG**: 2 TPD already operational

## Future-Ready Architecture

Provision for **3rd LNG tank**  
Scalable capacity up to **~2.5 lakh SCMD**

## Regional Energy Anchor

Fueling **Malegaon, Dhule & adjoining regions** with reliable, scalable LNG supply.

# CGS DODI : AHEAD OF THE CURVE - READY BEFORE THE GAS ARRIVED



## Planned in Advance. Delivered on Time.

Proactively planned & executed in sync with MNJPL

### **Parallel** execution :

- Interface works at SV7
- Installation of skids & piping at CGS Dodi
- **2.7 km STPL** from SV7 to CGS Dodi

System Readiness Enabled **Same-Day** Gas Take-In at CGS Dodi

## From Readiness to Results

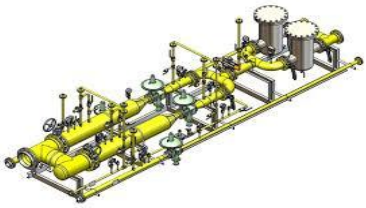
**Gas-In: 18 Nov 2025** → into the MNGL's CGD Network

**Peak throughput: ~2 lakh SCMD** within one month

Enabled MNGL to cross **3 lakh SCMD** in Nashik GA

– a significant milestone for any CGD

# CGS DODI : A UNIQUELY FEATURED, INTEGRATED MULTI-UTILITY STATION



Supply Skid + MNGL's PRS-cum-Check Meter

**First-of-its-Kind, High-Capacity Integrated CGS** : A large-scale installation combining supply skid, pressure regulation–metering, odorizing, and dispensing systems — designed to simultaneously cater to retail, HCV fleets (as MS), and the city gas network through steel and DRS connections – all under one roof.



6 GED Compressors



DRS

**Powerful Compression** : Equipped with 6 online compressors (2,000 SCMH each | 2.4 lakh SCMD)

**Smart Integration** : Advanced MNGL's metering-cum-pressure reduction skid (12 lakh SCMD) with three independent streams — one for compressors, one for city gas supply & one for future req.



7 HCV Bays | 4 Car + 2 Bus Dispensers

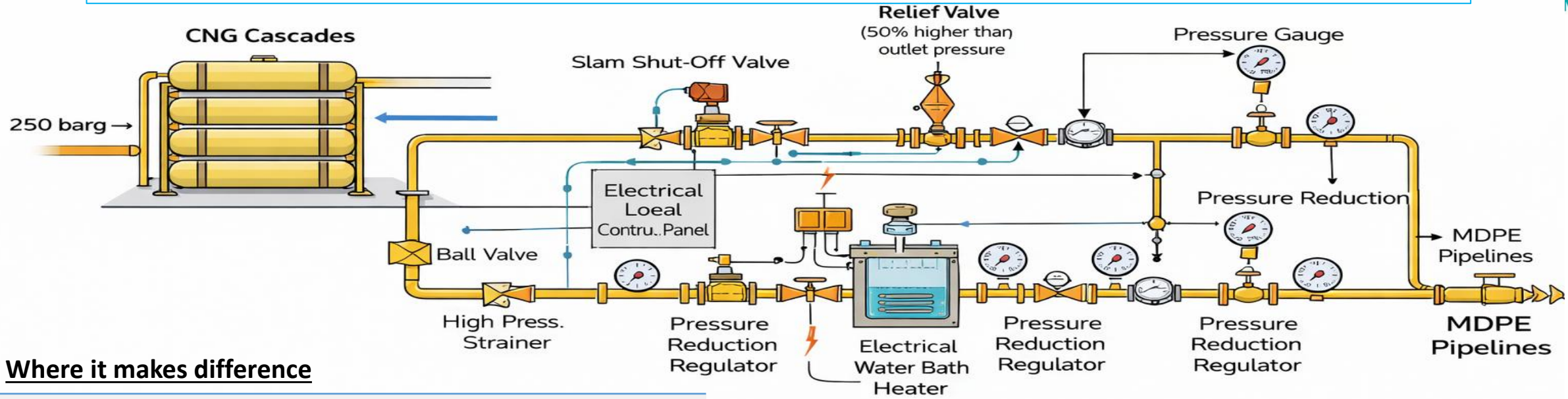
**Future-Ready Add-on** : Provision for EV Charging Facility with DC Fast Chargers



EV Fast Chargers | 4 Vehicles at Once

**Model station for replication** : Sets a new benchmark for efficiency, versatility, and network readiness in CGD.

# PIONEERING INITIATIVE : CONNECTIVITY TO POTENTIAL HUBS THRU' DCS



### Where it makes difference

Location	Connections
Amanora Park Town, Pune	10,000+ households
Life Republic, Pune	5,000+ households
Pride City, Pune	Large township cluster
Finolex, Urse, Pune	Industries
Kaprada, Valsad	Mota Ponda, Kaprada
Vengurla, Sindhudurg	1500+ households
Kudal, Sindhudurg	2000+ households
Channapatna, Ramanagara	5000+
Ramanagara	5000+

MNGL pioneered the use of **Decompression Skid (DCS) systems** as an **interim, high-reliability gas supply bridge** — enabling PNG delivery **ahead of pipeline readiness**

### How it works

- CNG cascades → DCS → regulated PNG supply → cluster
- Modular, quick-to-deploy, pipeline-independent
- Fully compliant and operationally safe

# DIGITAL VIGILANCE: AMLD FOR PROACTIVE PIPELINE INTEGRITY



## What We Did

- MoU with **Heath (USA)** via **Josler Hydrocarbons India Pvt. Ltd.**
- Done for **200 km + 50 km** underground pipeline leak survey (Pune GA)

## Technology

- **AMLD – Advanced Mobile Leak Detection**
- Vehicle-mounted, wireless, GPS-enabled

## Why AMLD

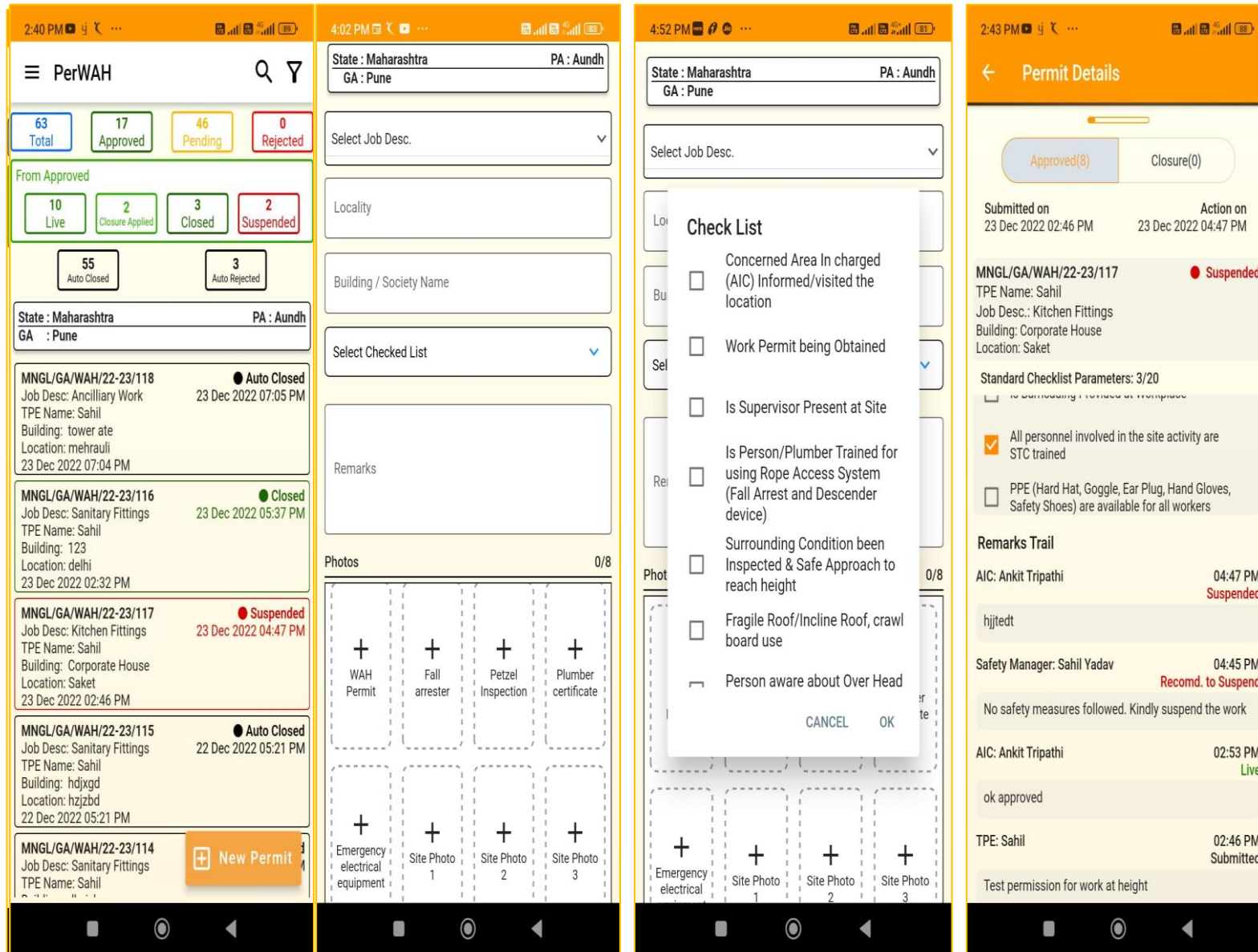
- Rapid large-area scanning
- Pinpoint GPS mapping
- Non-intrusive & scalable

## Outcome

- Proven **fast, accurate, low-cost** digital tool
- Ready for **network-wide deployment**



# SMART SAFETY TRANSFORMATION – A MOBILE-FIRST BEST PRACTICE



**Faster permits** = no idle manpower

**Live monitoring** = fewer incidents

**On-site accountability** = safer teams

## Outcome:

**Protected people | Productive sites**

**I Predictable timelines I**

# MNGL SHOPEE : GETTING CLOSURE TO CUSTOMERS



**12**

Exclusive Customer Touchpoints

**1**

Unified Service Counter

**100%**

Digital Onboarding & Billing


## Challenge

Hard to reach

Fragmented service channels

Billing efficiency

## MNGL Solution

12 MNGL Shoppes 

One-stop counters

Digital onboarding 

## Impact

Higher trust 

Faster resolution

Accurate bills 

**THANK YOU**