

## **Subject - Powering progress: 28 nos. of LT panels replaced ahead of schedule at Hazira Plant**

On 26 August 2025, Hazira Plant successfully completed a critical infrastructure upgradation project involving replacement and commissioning of 28 nos. of LT Panels across multiple substations. The LT panels were installed in substations SS#2, SS#3, SS#4, SS#14, SS#16 and at the Singapore Pump Station—all executed seamlessly while ensuring uninterrupted operation of critical Plant units.

The newly installed LT panels were inaugurated under the dynamic leadership of ED-Plant Manager Chandra Shekhar, in the presence of then Head Operations Rajeev Garg, then Head Maintenance Dillip Kumar Baral, Head Engineering Services Roopesh Kumar Sharan and other VCC members. ED-Plant Manager Chandra Shekhar commended the collective efforts of all sections of the Plant for successfully executing the essential infrastructure improvement project critical to operational safety well ahead of the scheduled completion date.



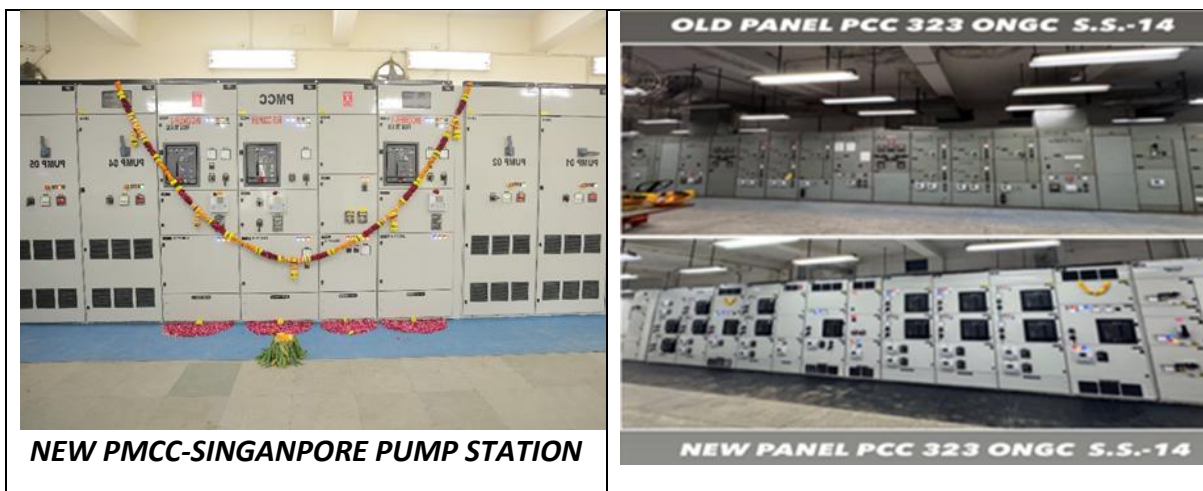
### **Inauguration at the Signanpore Pump Station Substation by ED-Plant Manager Chandra Shekhar accompanied by VCC members and the Project team**

The Hazira Plant's electrical power is distributed to various operational units viz. GSU, GDU, CFU, DPD, SRU, KRU, LPG and others through a network of High Tension (HT) and Low Tension (LT) substations.

The LT supply (415 V) supports essential Plant operations by powering equipment such as motors, lighting systems, centralized air conditioning units and UPS systems. To ensure seamless distribution and reliability, the LT supply is routed through:

- PCC (Power Control Centre)
- MCC (Motor Control Centre)
- ASB (Auxiliary Switch Boards)
- LDB (Lighting Distribution Boards)

The existing LT panels, commissioned during Phase-I and Phase-II of Hazira Plant, have been in operation for over 30 years and played a critical role in supporting plant operations. However, due to aging, physical condition of these panels and associated switchgear had deteriorated significantly. The Electrical Section of Hazira Plant identified that the existing LT electrical panels had outlived their useful life and highlighted urgent need for replacement of 28 nos. of LT electrical panels, recognizing the impact on operational reliability in view of challenges posed by deteriorated condition of the equipment, lack of spare parts, troubleshooting and absence of OEM (Original Equipment Manufacturer) support.



**A quick glance at the Panel & Bus Duct Replacement**

The newly designed panels incorporate advanced monitoring systems, integrate fault diagnostics, and is of durable built suitable for demanding Plant environments. These upgrades significantly reduce the potential of catastrophic failures, enable streamlined maintenance cycles, enhance predictability and control over electrical loads and improve operator safety while ensuring greater compliance with regulatory standards.

Hazira Plant has consistently undertaken critical engineering initiatives aimed at rejuvenating aging process infrastructure while enhancing operational efficiency and productivity. These efforts not only reinforce ONGC's commitment to excellence in engineering but also reflect its unwavering dedication to occupational health, environmental protection, and adherence to the highest standards of safety practices.



#### **Powering up by ED–Plant Manager Chandra Shekhar and then Head Maintenance DK Baral**

The LSTK project was successfully executed by M/s Raj Electrical, Surat, at a total cost of ₹29.618 crore. As a brownfield initiative its completion demanded meticulous planning, seamless teamwork and close coordination among various stakeholders supported extensively by the Operations, Maintenance, HSE and Support Services teams. The safety practices adopted by the contractor were widely appreciated by both internal and external teams during multiple safety visits conducted throughout the project execution period.



### **One for the album**

The project was meticulously planned and executed through the dedicated efforts of a multidisciplinary team from Engineering Services comprising Project Manager GM (Instrumentation) Tushar Khanore, Project Coordinator GM (Mechanical) Subrat Ranjan, Project Engineer CE (Instrumentation) Vyakhya, and Site Coordinator EA (Mechanical) Ketul Patel—supported by the Substation Group, which included GM (Electrical) Praveen Pathak, DGM (Electrical) Hitesh Patel, EE (Electrical) Satyam Pandey and EA (Electrical) (Bhupendra Chavda.

The team operated under the guidance and support of senior leadership, including then Head Maintenance D K Baral, then Head Operations Rajeev Garg, Head Engineering Services Roopesh Kumar Sharan and CGM (E)—LM Manoj Sharma. Their collective efforts, driven by meticulous planning and strict adherence to the highest safety standards, ensured the project was executed well ahead of the scheduled completion date.

The successful replacement of 28 nos. of LT panels completed well ahead of the schedule date and executed across multiple substations without any shutdown of various critical units of the plant marks a significant milestone for the Hazira Plant. This achievement substantially enhances operational reliability, strengthens environmental compliance, and elevates safety standards, reaffirming ONGC's commitment to technological adaptation/innovation, upgrade in critical infrastructure and sustainable growth.

**-Engineering Services Team, Hazira Plant**