

# MAJOR TURNAROUND 2025

## PRESSURE VESSEL INSPECTION REPORT

Equipment tag no: R-201

Report no.: PLANT1/VI/  
R-201/TA2025

Equipment description: Catalytic Reactor

Report date:  
22 November  
2025

Plant/Unit/Area: Reaction Unit 2

DOSH registration no.: MK PMT 1002

### **FINDINGS, NDTs & RECOMMENDATIONS**

Condition: With respect to the internal surface, describe and state location of any scales, oils or other deposits. Give location and extent of any corrosion and state whether active or inactive. State location and extent of any erosion, grooving, bulging, warping, cracking or similar condition. Report on any defective rivets bowed, loose or broken stays. State condition of all tubes, tube end, coils nipples, etc. Report condition of setting, linings, baffles, support, etc. Describe major changes or repairs made since last inspection

### **FINDINGS**

Initial/Pre-Inspection - Not applicable

#### **Post/Final Inspection**

##### **Internal**

1 1.1 Through-wall corrosion detected with active leak or imminent failure risk

1.2 External corrosion detected on shell surface, localized area approximately 50mm x 50mm with minimal metal loss

1.3 General corrosion observed with pitting depth up to 2mm across affected area

2 2.1 General corrosion observed with pitting depth up to 2mm across affected area

2.2 Severe corrosion with significant metal loss exceeding 3mm depth

#### **NON-DESTRUCTIVE TESTINGS**

UTTM: No significant wall loss detected compared to nominal thickness. Please refer to attachment report.

#### **RECOMMENDATIONS**

1: 1.1 1.1 Schedule repair during next planned shutdown within 30 days

1.2 Engineering assessment required to determine repair methodology

2: 2.1 nill

Inspected by:

Reviewed by:

Approved by (Client):

Recommendation/Comment by DOSH Officer (if applicable):

Name: Signature: Date:

Action taken by Plant 1 on recommendation by DOSH (if applicable):

Name: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_



# PRESSURE VESSEL INSPECTION REPORT

## PHOTOS REPORT

Equipment tag no: R-201

Equipment description: Catalytic Reactor

Plant/Unit/Area: Reaction Unit 2

Inspected by:

Date: 30 November 2025

### Photo 1

**Finding:**

No caption provided

**Recommendation:**

Nil

### Photo 1

**Finding:**

No caption provided

**Recommendation:**

Nil

### Photo 1

**Finding:**

No caption provided

**Recommendation:**

Nil

## **Photo 2**

### **Finding:**

No caption provided

### **Recommendation:**

Nil

## **Photo 2**

### **Finding:**

No caption provided

### **Recommendation:**

Nil

## **Photo 6**

### **Finding:**

No caption provided

### **Recommendation:**

Nil