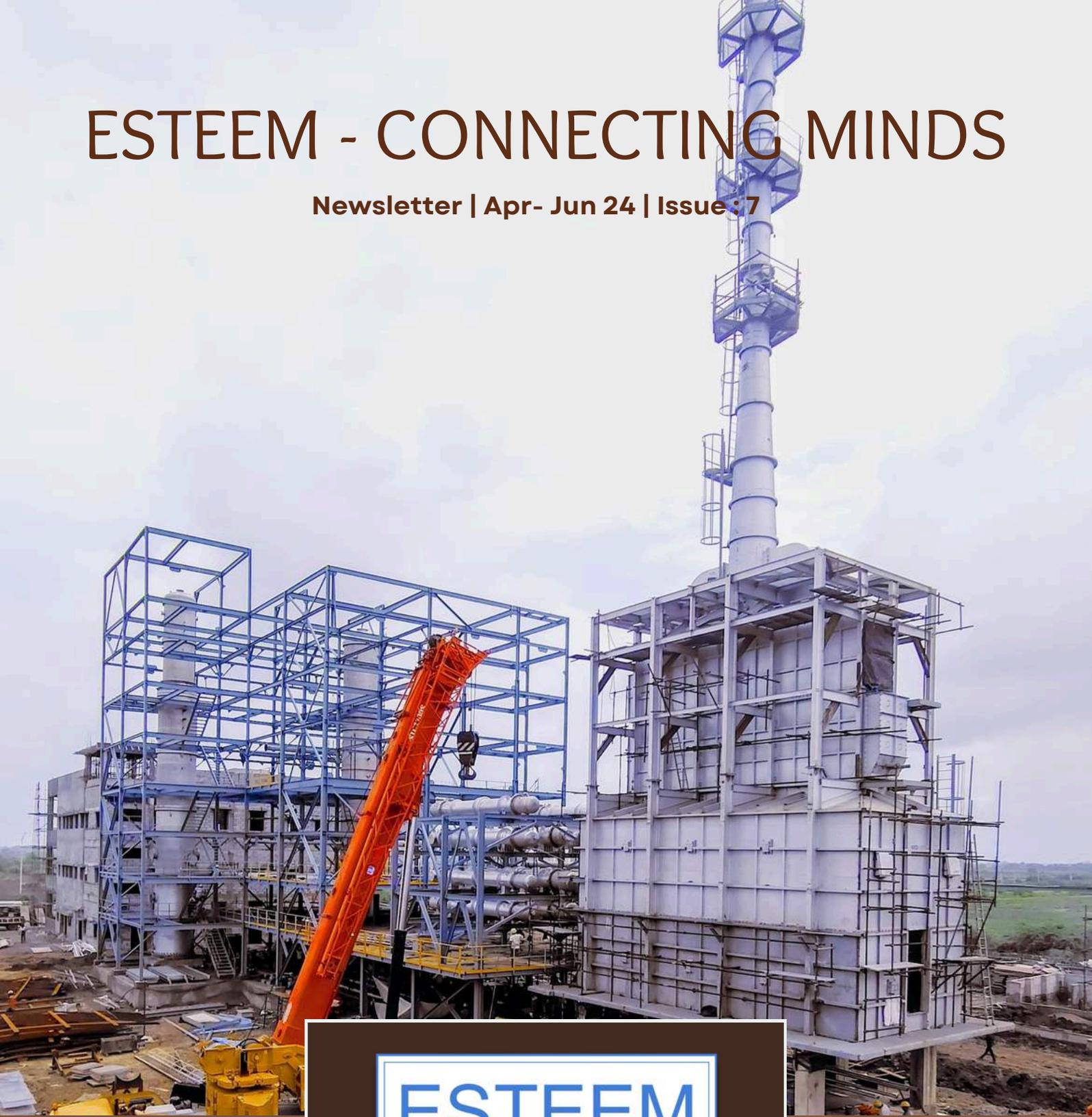


# ESTEEM - CONNECTING MINDS

Newsletter | Apr- Jun 24 | Issue :7



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CONSTRUCTIVE SOLUTIONS

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# CONTENTS

Newsletter | Apr- Jun 24 | Issue: 7

<b>SHUTDOWN JOBS</b>	<b>1 - 2</b>
<ul style="list-style-type: none"><li>• CHAMPS OF SHUTDOWNS</li></ul>	
<b>UPDATES ON PROJECTS</b>	<b>3-5</b>
<ul style="list-style-type: none"><li>• STATUS OF ONGOING PROJECTS.</li></ul>	
<b>KNOWLEDGE SHARING</b>	<b>6</b>
<ul style="list-style-type: none"><li>• DIGITAL RADIOGRAPHY</li></ul>	
<b>NEWS FROM HR</b>	<b>7-8</b>
<ul style="list-style-type: none"><li>• NEW FACES OF ESTEEM</li></ul>	
<b>ESTEEM MOMENTS</b>	<b>9-11</b>
<ul style="list-style-type: none"><li>• GREEN DAY CELEBRATION AT SITES.</li><li>• GET TOGETHER AFTER COMPLETION OF PROJECTS.</li></ul>	



There were a series of critical and challenging shutdowns from Nagothane to Jamnagar during April to June 2024. Each shutdown was unique and full of surprises and challenges.

The venture started during the peak summer of Maharashtra in April 2024. The duration of the shutdown was 16 days.

Our main target was to carry out the replacement of five cracker furnace tubes (one full furnace and partial replacements for four other furnaces) and the removal of three old STLX units and the installation of new ones. Replacing the convection section of one furnace and the IBR job was also included.

A total manpower deployment of around 250 personnel from various disciplines was utilized. Techniques such as automatic hydraulic torquing machines, jacks, and rollers were used to ensure quality work and save significant time.

The most critical part of the job was the removal of STLX units (approximately 42 MT each) at higher elevations within congested zones without disturbing other systems..

Micro-planning and in-house design were developed to remove the STLX units and install new ones using mechanical jacks and rollers. It was the most challenging and difficult job of the shutdown, and it was appreciated by the client.

There were many surprises and challenges due to the location. Despite these odds, the shutdown was completed on time and safely.

The next destination was Jamnagar within two days to attend another shutdown for the total replacement of radiant tubes in one cracker furnace.

We had to close out the ongoing shutdown and shift all machinery, infrastructure, and manpower. It was highly challenging.

The target was to complete the shutdown within 12.5 days. To save time, a roller bed was made to pull out the tubes after cutting. A workforce of 150 was mobilized along with all necessary infrastructure.

The entire operation was carried out so efficiently that the shutdown was completed two days ahead of schedule without any repairs or reshoots of joints. It was a hallmark of ESTEEM.

Before planning to take a break and celebrate our consecutive successes, the phone started ringing to attend an emergency shutdown at Jamnagar. This was more critical as all the tubes were choked, and this shutdown was not planned.

A rescue team was mobilized on an emergency basis. Team members acted like firefighters and started the process without any delay, as they were accustomed to working under pressure and challenges.

Once again, the jobs were completed ahead of schedule. Final closing is in progress.

The main mantra of success was leadership and an experienced, dedicated, and hard-working team.

## Ongoing Projects

### Job No. 245



- Engineering completed.
- 96% items are received at site.
- Total heater erection completed.

### Job No. 251

- Engineering completed.
- Ordering completed and part items received at site.
- Major fabricated items dispatched and erected at site.
- Balance fabricated items are ready to dispatch.



### Job No. 257

- Detailed Engineering nearing completion.
- Long delivery items ordered.
- Foundation handed over.
- One module for Heater no. 2 received at site.
- Balance fabrication is in progress .
- Site team re-mobilised.

## Job No. 258



- Engineering completed.
- Ordering completed.
- Major equipment fabrication completed.
- Equipment erection is in progress.
- Heater erection completed
- Pumps installation is in progress.
- Piping jobs are in progress.
- E&I job at site commenced.

## Job No. 265



- Engineering near completion.
- Major long lead items ordered.
- Civil work started at the site.
- Structural fabrication job started.
- Convection module fabrication at Esteem works started.
- Expected shut down job on 15th September 2024.

## Job No. 269

- Kick off meeting held.
- Basic engineering is in progress.
- Procurement is in process.

## Job No. 270

- Kick off meeting held.
- Site visit was made.
- Engineering is in progress
- Procurement commenced.

Digital radiography (DR) is a form of non-destructive testing (NDT) that uses X-rays to generate digital images of an object's internal structure. Unlike traditional film radiography, DR uses digital detectors to capture the X-ray image, which can then be viewed on a computer screen or printed.

### Advantages of Digital Radiography:

- Real-time imaging: DR provides real-time images of the object being inspected, allowing for immediate assessment and faster decision-making.
- Enhanced image quality: Digital images can be adjusted and enhanced to improve clarity and reveal details that might be missed in traditional film radiography.
- Reduced operating costs: DR eliminates the need for film processing chemicals and reduces storage requirements for radiographs.
- Archiving and sharing: Digital images can be easily archived electronically and shared with colleagues or remote experts for consultation.

### Applications of Digital Radiography in Industry:

- Welding inspection: DR is widely used to inspect welds for defects like cracks, porosity, and incomplete fusion.
- Casting inspection: It is used to identify defects in castings such as voids, cracks, and shrinkage cavities.
- Corrosion detection: DR is used to detect and assess the extent of corrosion in pipes, pressure vessels, and other structures.
- Composite material inspection: DR is used to inspect composite materials for defects like delamination, voids, and fiber breakage.
- Foreign object detection: DR is used to locate foreign objects embedded within a component.
- There are no manual handling marks like processing marks, film marks etc.

### Limitations of Digital Radiography:

- Higher initial cost: The initial investment cost for DR equipment is much higher compared to traditional film radiography.
- Sensitivity to thicker materials: DR may not be as effective for inspecting very thick materials as X-ray penetration is limited.
- Expertise required: Operating and interpreting DR images requires properly trained personnel.

Digital radiography is a valuable tool for non-destructive testing in various industries.

There are no manual handling marks like processing marks, film marks etc.

Caution : Document should be stored with password protection to avoid any tampering

# Let's Welcome

## NEW FACES OF ESTEEM FAMILY

---



Mohd. Zakir Khan  
Mechanical Draftsman  
Experience of 03 years



Manish Yadav  
GET - Process  
B.Tech. Process



M. Gunasekaran  
Sr.Manager-Mech.  
B.E. Mechanical  
Experience of 29 years



Surajit Dey  
Manager-Quality Control  
B.E. Mechanical  
Experience of 18 years



Md. Salam  
Safety Officer  
Diploma in Mechanical  
Experience of 07 years



Mohit Kumar  
Manager Mech.  
B.Tech. Mechanical  
Experience of 11 years



Akshita Jindal  
Accounts Executive  
MBA and B.Com  
Experience of 02 years



M. Mohamed Asjad  
Store Incharge  
Diploma in Mechanical  
Experience of 18 years



Manoj Yadav  
Safety Officer  
Diploma in Mechanical and ADIS  
Experience of 09 years

**A very warm welcome to you all !**

# Let's Welcome

## NEW FACES OF ESTEEM FAMILY



**Priyanka Gusain**  
Assistant  
Company Secretary  
CS from ICSI and B.Com  
Experience of 05 years



**Nipson Kottayam Edison**  
Sr.Manager-Engineering  
ITI - Mechanical  
Experience of 21 years



**Siddharth Bhattacharya**  
Planning Manager  
B.Tech Mechanical  
Experience of 18 years



**Puneet Sharma**  
Store Manager  
Diploma in Material  
Management and B.Com.  
Experience of 18 years



**Raghavendra Singh**  
Accounts Executive  
M. Com  
Experience of 04 years



**Supriya Bhargava**  
Sr. HR Operations  
MBA (HR and Finance)  
Experience of 07 years



**Anupam Mishra**  
Procurement Engineer  
Diploma in Mechanical  
Experience of 05 years



**Naipal Singh**  
Deputy Mng Procurement  
B.Tech Chemical Engineering  
Experience of 11 years



**Nikita Kamboj**  
Sr Executive -Talent Acquisition  
MBA (HR and Finance)  
Experience of 06 years

**A very warm welcome to you all !**



## CELEBRATION OF SUCCESS





## GREEN DAY CELEBRATION AT SITE



## SAFETY MOTIVATIONAL PROGRAM AT SITE



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