# BOILER SAFETY REPORT

## EUROTEX KNITWEAR LTD.

**Factory ID:** 9289

**Address:** Nayamati, Kutubpur, Fatullah, Narayangong

**GPS Coordinates:** 23.649209, 90.502215

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| **Factory List** | : | EUROTEX KNITWEAR LTD. (9289) |
| | | BALLY COTTON KNIT DRESS LTD. (Previously EURO KNIT SPINN COMPOSITE LTD.) (12637) |
| | | EUROTEX KNITWEAR LTD. (Extension) (24570) |
| | | EUROTEX KNITWEAR LTD. (Extension 2) (26200) |
| **Number of Boilers** | : | 03 |
| **Boiler Registration Numbers** | : | BB 11241, BB 10156, BB 13079 |

RSC RMG SUSTAINABILITY COUNCIL

## EXECUTIVE SUMMARY

A comprehensive boiler safety inspection of the factory – **EUROTEX KNITWEAR LTD. (9289)** was conducted by the RMG Sustainability Council, covering 3 boilers bearing the registration numbers – BB 11241, BB 13079 and BB 10156. The inspection aimed for the safety checks of the boiler and provide recommendations for safe operation and maintenance.

The inspection process was divided into three distinct parts. Firstly, an external visual inspection was carried out to evaluate the overall condition of the boiler and provide guidance for the upcoming full-fledged boiler safety inspection. Next, an internal inspection and hydrostatic pressure test (commonly referred to as a hydrotest) inspection was conducted to assess the safety and structural integrity of the boiler. Sufficient time was allocated to allow the factory to prepare for the final inspection stage, which involved a functional test inspection. This stage required the boiler to be operational to enable the inspection team to verify the functionality of different safety circuits.

**From the inspection observations -**

BB 11241, BB 13079 and BB 10156 are in operable condition, but a few issues - outlined in this report, are to be addressed in a timely manner.

| **Boiler Registration Number** | **External visual inspection** | **Internal & Hydrotest inspection** | | **Functional test inspection** | |
|---|---|---|---|---|---|
| | Date | Date | Remarks | Date | Remarks |
| BB 11241 | 4-Oct-21 | 13-Jan-25 | Satisfactory | 23-Mar-25 | |
| BB 10156 | 4-Oct-21 | 20-Jan-25<br>27-Jul-25 | On 20-Jan-25, the internal inspection was not satisfactory and hydrotest was not attempted due to hard scales on waterside. Another inspection was attempted on 27-Jul-25 after the factory descaled the boiler and the inspection was satisfactory. | 3-Aug-25 | |
| BB 13079 | 20-Jan-25 | 17-Mar-25<br>09-Jul-25 | On 17-Mar-25, the inspection could not be conducted due to a lack of necessary preparation from factory end (exhaust gas line from the running generator was not isolated fully and the high temperature (~120°C) of the boiler). Another | 3-Aug-25<br>15-Oct-25 | On 3-Aug-25, the functional test inspection could not be completed due to EGB damper is not closing automatically, & on 15-Oct-25 the functional test inspection could not |

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| | | | inspection was scheduled on 09-Jul-25 to complete the inspection. | 7-Apr-26 | be completed due to EGB damper is not closing properly. Another inspection was scheduled on 7-Apr-26 to complete the inspection. |

## LIMITATIONS

The information in this boiler safety inspection report was obtained during a factory visit and discussion with local factory management. Services performed by the inspectors are conducted in a manner consistent with the level of care and skill generally exercised by members of the engineering and auditing profession. However, an effort has been made to discover all meaningful areas within the stipulated time.

In evaluating the subject site, the inspector relies on good faith in the information provided by factory management or employees. The inspector assumes that the information provided is factual, accurate and accepts no responsibility for any deficiency, misstatement or inaccuracies contained in this report as a result of omission or misrepresentation of any person interviewed or contacted.

The findings and recommendations in this report are not intended to imply, guarantee, ensure or warrant compliance with any government regulations. Additionally, the results do not imply in any way that compliance with the findings or recommendations, as stated in this report, will eliminate all risks or exposures not referred to in this report. Compliance with the findings and recommendations stated in this report does not relieve the factory from the obligation to comply with specific project requirements, industry standards, or the provisions of any local government regulations.

In case any critical safety concerns are found that require the RSC to recommend an immediate boiler shutdown, for applicable cases, the RSC will inform the Chief Inspector of Boilers (CIoB) office and collaborate with them on all subsequent steps to remediate the issue(s).

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## 1. EXTERNAL VISUAL INSPECTION

| Inspection Date | Boiler Registration Number | Author(s) |
|---|---|---|
| 4-Oct-21 | BB 11241, BB 10156 | Md Kamrul Hasan Chowdhury<br>Faisal Bin Faruk |
| 20-Jan-25 | BB 13079 | Ahmad Hossain Khokon<br>Md. Humayun Kabir Tipu |

**Reviewed by** : Mohammed Rakibul Hasan

**Approved by** : Md. Mehedi Hasan

## FINDINGS AND RECOMMENDATIONS

The table below summarizes the identified boiler safety hazards during this inspection. Recommendations have been provided for each finding.

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| **FINDING NO:** | B-1 | |
| **CATEGORY:** | ELECTRICAL WIRING SYSTEM | |
| **BOILER REGISTRATION NO:** | BB 11241 | |
| **FINDING:**<br><br>No emergency stop push switch was available near the entrance outside of the boiler room. | | |
| **RECOMMENDATION:**<br><br>Emergency stop push switches must be installed on the boiler control panel and outside the boiler room near every entrance door. | | |
| **PRIORITY:** | P3 | |
| **REMEDIATION TIME FRAME:** | 2 MONTHS | |

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| **FINDING NO:** | B-2 | |
| **CATEGORY:** | ELECTRICAL WIRING SYSTEM | |
| **BOILER REGISTRATION NO:** | BB 10156 | |
| **FINDING:**<br><br>No emergency stop push switch was available near the entrance outside of the boiler room. | | |
| **RECOMMENDATION:**<br><br>Emergency stop push switches must be installed on the boiler control panel and outside the boiler room near every entrance door. | | |
| **PRIORITY:** | P3 | |
| **REMEDIATION TIME FRAME:** | 2 MONTHS | |

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| **FINDING NO:** | B-3 | |
| **CATEGORY:** | MONITORING AND CONTROL SYSTEM | |
| **BOILER REGISTRATION NO:** | BB 11241 | |
| **FINDING:**<br><br>Low Low Water Level (LLWL) was not marked properly on water level gauge glass system. | | |
| **RECOMMENDATION:**<br><br>The Low Low Water Level (LLWL) should be marked beside the gauge glass on a separate arrangement so that the water level can be visualized and identified clearly. | | |
| **PRIORITY:** | P3 | |
| **REMEDIATION TIME FRAME:** | 2 MONTHS | |

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| **FINDING NO:** | B-4 | |
| **CATEGORY:** | MONITORING AND CONTROL SYSTEM | |
| **BOILER REGISTRATION NO:** | BB 10156 | |
| **FINDING:**<br><br>Low Low Water Level (LLWL) was not marked properly on water level gauge glass system. | | |
| **RECOMMENDATION:**<br><br>The Low Low Water Level (LLWL) should be marked beside the gauge glass on a separate arrangement so that the water level can be visualized and identified clearly. | | |
| **PRIORITY:** | P3 | |
| **REMEDIATION TIME FRAME:** | 2 MONTHS | |

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| **FINDING NO:** | B-5 |
| **CATEGORY:** | FUEL SYSTEM |
| **BOILER REGISTRATION NO:** | BB 11241 |
| **FINDING:**<br><br>Fuel line connection was not terminated properly. | |
| **RECOMMENDATION:**<br><br>Any fuel line openings in boiler room shall be diverted outside of the boiler room or sealed off with a bond plug/blind flange to prevent fuel leakage. | |
| **PRIORITY:** | P1 |
| **REMEDIATION TIME FRAME:** | 2 WEEKS |

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| **FINDING NO:** | B-6 |
| **CATEGORY:** | FUEL SYSTEM |
| **BOILER REGISTRATION NO:** | BB 10156 |
| **FINDING:**<br><br>Fuel line connection was not terminated properly. | |
| **RECOMMENDATION:**<br><br>Any fuel line openings in boiler room shall be diverted outside of the boiler room or sealed off with a bond plug/blind flange to prevent fuel leakage. | |
| **PRIORITY:** | P1 |
| **REMEDIATION TIME FRAME:** | 2 WEEKS |

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| **FINDING NO:** | B-7 |
| **CATEGORY:** | DOCUMENTATION |
| **BOILER REGISTRATION NO:** | BB 11241 |
| **FINDING:**<br><br>Necessary technical documents were not available to verify boiler design and operation parameters. | |
| **RECOMMENDATION:**<br><br>Documentation including manufacturing drawings and calculations, Piping and Instrumentation diagram, electrical wiring diagram, commissioning documents, data sheets of mountings, accessories and feed water pump, boiler operational and maintenance logbook, operation and maintenance manual, water treatment design and calculation, flue gas analysis report and water treatment report shall be available to verify the present condition of the boiler. | |
| **PRIORITY:** | P3 |
| **REMEDIATION TIME FRAME:** | 2 MONTHS |

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| **FINDING NO:** | B-8 |
| **CATEGORY:** | SUPPORT AND ACCESS |
| **BOILER REGISTRATION NO:** | BB 11241 |
| **FINDING:**<br><br>A boiler with a height of 8 feet or more was observed with an inadequate platform, ladder, and handrail, making it inaccessible. | |
| **RECOMMENDATION:**<br><br>An operation, maintenance, and inspection platform with a minimum width of 2.5 feet, a railing with a minimum height of 3.5 feet, and a ladder - that does not pose fall hazard - should be provided. | |
| **PRIORITY:** | P3 |
| **REMEDIATION TIME FRAME:** | 2 MONTHS |

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| **FINDING NO:** | B-9 |
| **CATEGORY:** | SUPPORT AND ACCESS |
| **BOILER REGISTRATION NO:** | BB 10156 |
| **FINDING:**<br><br>A boiler with a height of 8 feet or more was observed with an inadequate platform, ladder, and handrail, making it inaccessible. | |
| **RECOMMENDATION:**<br><br>An operation, maintenance, and inspection platform with a minimum width of 2.5 feet, a railing with a minimum height of 3.5 feet, and a ladder - that does not pose fall hazard - should be provided. | |
| **PRIORITY:** | P3 |
| **REMEDIATION TIME FRAME:** | 2 MONTHS |

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| **FINDING NO:** | B-10 |
| **CATEGORY:** | DOCUMENTATION |
| **BOILER REGISTRATION NO:** | BB 10156 |
| **FINDING:**<br><br>Necessary technical documents (Piping & Instrumentation diagram, data sheets of mountings, accessories & feed water pump, boiler maintenance logbook, operation and maintenance manual, water treatment design & calculation, flue gas analysis report and water treatment report) were not available to verify boiler design and operation parameters. | |
| **RECOMMENDATION:**<br><br>Documentation including manufacturing drawings and calculations, Piping and Instrumentation diagram, electrical wiring diagram, commissioning documents, data sheets of mountings, accessories and feed water pump, boiler operational and maintenance logbook, operation and maintenance manual, water treatment design and calculation, flue gas analysis report and water treatment report shall be available to verify the present condition of the boiler. | |
| **PRIORITY:** | P3 |
| **REMEDIATION TIME FRAME:** | 2 MONTHS |

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| **FINDING NO:** | B-11 |
| **CATEGORY:** | IDENTIFICATION |
| **BOILER REGISTRATION NO:** | BB 11241 |
| **FINDING:**<br><br>The boiler manufacturer's nameplate was not available on the boiler. | |
| **RECOMMENDATION:**<br><br>The boiler manufacturer's nameplate shall be available on the boiler with accurate technical information and boiler manufacturer's name in standard language. | |
| **PRIORITY:** | P2 |
| **REMEDIATION TIME FRAME:** | 1 MONTH |

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| **FINDING NO:** | B-12 |
| **CATEGORY:** | MONITORING AND CONTROL SYSTEM |
| **BOILER REGISTRATION NO:** | BB 10156 |
| **FINDING:**<br><br>The installed pressure gauge dial was not clearly visible. | |
| **RECOMMENDATION:**<br><br>An appropriate pressure gauge according to Bangladesh boiler regulation (BBR) and manufacturing standard shall be provided. | |
| **PRIORITY:** | P2 |
| **REMEDIATION TIME FRAME:** | 2 WEEKS |

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| **FINDING NO:** | B-13 | |
| **CATEGORY:** | THERMAL INSULATION | |
| **BOILER REGISTRATION NO:** | BB 10156 | |
| **FINDING:**<br><br>Boiler steam header and steam pipeline were found with improper insulation posing burn hazard. | | |
| **RECOMMENDATION:**<br><br>Proper insulation to exposed parts of the boiler body and steam distribution pipelines should be provided to avoid burn hazard. | | |
| **PRIORITY:** | P2 | |
| **REMEDIATION TIME FRAME:** | 1 MONTH | |

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| **FINDING NO:** | B-14 | |
| **CATEGORY:** | THERMAL INSULATION | |
| **BOILER REGISTRATION NO:** | BB 11241 | |
| **FINDING:**<br><br>Boiler steam header and steam pipeline were found with improper insulation posing burn hazard. | | |
| **RECOMMENDATION:**<br><br>Proper insulation to exposed parts of the boiler body and steam distribution pipelines should be provided to avoid burn hazard. | | |
| **PRIORITY:** | P2 | |
| **REMEDIATION TIME FRAME:** | 1 MONTH | |

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| **FINDING NO:** | B-15 |
| **CATEGORY:** | IDENTIFICATION |
| **BOILER REGISTRATION NO:** | BB 11241 |
| **FINDING:**<br><br>Nameplates for feed pump and safety valve were illegible. | |
| **RECOMMENDATION:**<br><br>Name plates shall permanently be fixed on the equipment and clearly readable. Manufacturer's technical documents regarding the equipment shall be provided. | |
| **PRIORITY:** | P2 |
| **REMEDIATION TIME FRAME:** | 1 MONTH |

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| **FINDING NO:** | B-16 |
| **CATEGORY:** | MONITORING AND CONTROL SYSTEM |
| **BOILER REGISTRATION NO:** | BB 10156 |
| **FINDING:**<br><br>The steam pressure gauge range was insufficient. | |
| **RECOMMENDATION:**<br><br>The boiler pressure gauge range should be at least twice the boiler's maximum allowable working pressure mentioned in the boiler license or in accordance with any recognized international standard. | |
| **PRIORITY:** | P2 |
| **REMEDIATION TIME FRAME:** | 1 MONTH |

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| **FINDING NO:** | B-17 |
| **CATEGORY:** | ELECTRICAL WIRING SYSTEM |
| **BOILER REGISTRATION NO:** | BB 13079 |
| **FINDING:**<br><br>No emergency stop push switch was available near the entrance outside of the boiler room. | |
| **RECOMMENDATION:**<br><br>Emergency stop push switches must be installed on the boiler control panel and outside the boiler room near every entrance door. | |
| **PRIORITY:** | P3 |
| **REMEDIATION TIME FRAME:** | 2 MONTHS |

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| **FINDING NO:** | B-18 |
| **CATEGORY:** | SUPPORT AND ACCESS |
| **BOILER REGISTRATION NO:** | BB 13079 |
| **FINDING:**<br><br>A boiler with a height of 8 feet or more was observed with an inadequate platform, ladder, and handrail, making it inaccessible. | |
| **RECOMMENDATION:**<br><br>An operation, maintenance, and inspection platform with a minimum width of 2.5 feet, a railing with a minimum height of 3.5 feet, and a ladder - that does not pose fall hazard - should be provided. | |
| **PRIORITY:** | P3 |
| **REMEDIATION TIME FRAME:** | 2 MONTHS |

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| **FINDING NO:** | B-19 |
| **CATEGORY:** | SAFETY VALVE |
| **BOILER REGISTRATION NO:** | BB 13079 |
| **FINDING:**<br>Drainage arrangement was not installed or installed in an inadequate manner for one or more safety valves. | |
| **RECOMMENDATION:**<br>Drainage arrangement must be installed for all safety valves as per manufacturer published guideline or at the lowest point of outlet line. | |
| **PRIORITY:** | P3 |
| **REMEDIATION TIME FRAME:** | 2 MONTHS |

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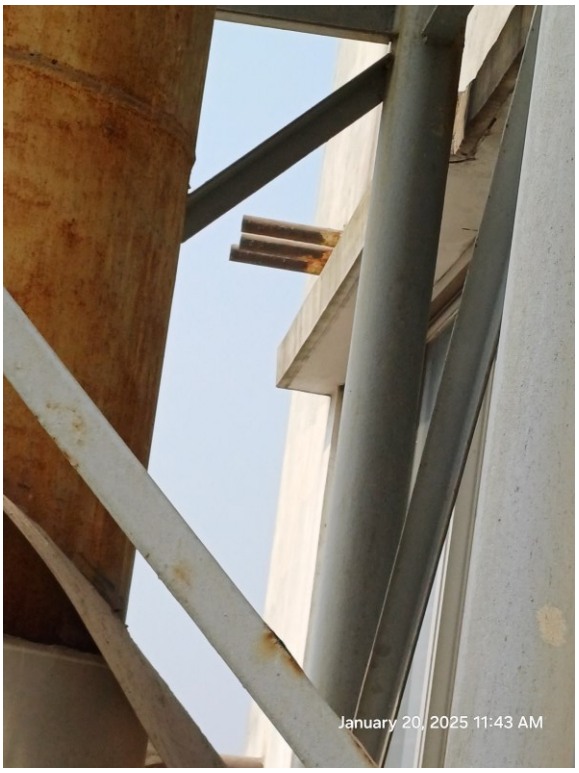
| **FINDING NO:** | B-20 |
| **CATEGORY:** | SAFETY VALVE |
| **BOILER REGISTRATION NO:** | BB 13079 |
| **FINDING:**<br>Discharge of safety valve was not free from danger of scalding. | |
| **RECOMMENDATION:**<br>Safety valve outlet line shall not affect emergency discharge path or discharge of safety valve shall be free from danger of scalding. | |
| **PRIORITY:** | P2 |
| **REMEDIATION TIME FRAME:** | 1 MONTH |



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| **FINDING NO:** | B-21 | |
| **CATEGORY:** | DOCUMENTATION | |
| **BOILER REGISTRATION NO:** | BB 13079 | |
| **FINDING:**<br><br>Necessary technical documents were not available to verify boiler design and operation parameters. | | |
| **RECOMMENDATION:**<br><br>Documentation including manufacturing drawings and calculations, Piping and Instrumentation diagram, electrical wiring diagram, commissioning documents, data sheets of mountings, accessories and feed water pump, boiler operational and maintenance logbook, operation and maintenance manual, water treatment design and calculation, flue gas analysis report and water treatment report shall be available to verify the present condition of the boiler. | | |
| **PRIORITY:** | P3 | |
| **REMEDIATION TIME FRAME:** | 2 MONTHS | |

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| **FINDING NO:** | B-22 | |
| **CATEGORY:** | IDENTIFICATION | |
| **BOILER REGISTRATION NO:** | BB 13079 | |
| **FINDING:**<br>Inconsistency was observed between the nameplate data and the CIoB provided certificate copy for the boiler regarding heating surface | | |
| **RECOMMENDATION:**<br>Information provided in the nameplate and in the CIoB provided certificate shall be consistent. Any alteration shall be approved from the CIoB and a copy to be preserved on site. | | |
| **PRIORITY:** | P2 | |
| **REMEDIATION TIME FRAME:** | 2 MONTHS | |



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| **FINDING NO:** | B-23 | |
| **CATEGORY:** | MONITORING AND CONTROL SYSTEM | |
| **BOILER REGISTRATION NO:** | BB 13079 | |
| **FINDING:**<br>The steam pressure gauge range was insufficient. | | |
| **RECOMMENDATION:**<br>The boiler pressure gauge range should be at least twice the boiler's maximum allowable working pressure mentioned in the boiler license or in accordance with any recognized international standard. | | |
| **PRIORITY:** | P2 | |
| **REMEDIATION TIME FRAME:** | 1 MONTH | |

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| **FINDING NO:** | B-24 |
| **CATEGORY:** | SAFETY VALVE |
| **BOILER REGISTRATION NO:** | BB 11241 |
| **FINDING:**<br>Discharge of safety valve was not free from danger of scalding. | |
| **RECOMMENDATION:**<br>Safety valve outlet line shall not affect emergency discharge path or discharge of safety valve shall be free from danger of scalding. | |
| **PRIORITY:** | P2 |
| **REMEDIATION TIME FRAME:** | 1 MONTH |

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| **FINDING NO:** | B-25 |
| **CATEGORY:** | MONITORING AND CONTROL SYSTEM |
| **BOILER REGISTRATION NO:** | BB 11241 |
| **FINDING:**<br>Valves were observed between the boiler and the pressure controller. | |
| **RECOMMENDATION:**<br>The measuring and sensing devices related to boiler safety shall be mounted directly with the boiler without any valves in between. | |
| **PRIORITY:** | P1 |
| **REMEDIATION TIME FRAME:** | 2 WEEKS |

## 2. INTERNAL INSPECTION & HYDROSTATIC PRESSURE TEST INSPECTION

| Inspection Date | Boiler Registration Number | Author(s) |
|---|---|---|
| 13-Jan-25 | BB 11241 | Siam Mahbub<br>Md. Foysal Ahmed |
| 20-Jan-25 | BB 10156 | Ahmad Hossain Khokon<br>Md. Humayun Kabir Tipu |
| 17-Mar-25 | BB 13079 | Md. Humayun Kabir Tipu<br>Gobinda Chandra Roy |
| 9-Jul-25 | BB 13079 | Nawaze Mahmud |
| 27-Jul-25 | BB 10156 | Kazi Sefat-E-Nur<br>Asif Ahmed |

**Reviewed by** : Mohammed Rakibul Hasan

**Approved by** : Md. Mehedi Hasan

## FINDINGS AND RECOMMENDATIONS

The table below summarizes the identified boiler safety hazards during this inspection. Recommendations have been provided for each finding.

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| **FINDING NO:** | B-26 |
| **CATEGORY:** | SCALES AND DEPOSITS |
| **BOILER REGISTRATION NO:** | BB 13079 |
| **FINDING:**<br>Salt and scale formation was observed on the waterside inside water-tubes. | |
| **RECOMMENDATION:**<br>Cleaning is required. A water treatment station is to be used. Feed and boiler water quality and conditioning should be verified and monitored. The boiler operator should operate the boiler with proper blowdown. | |
| **PRIORITY:** | P2 |
| **REMEDIATION TIME FRAME:** | 1 MONTH |

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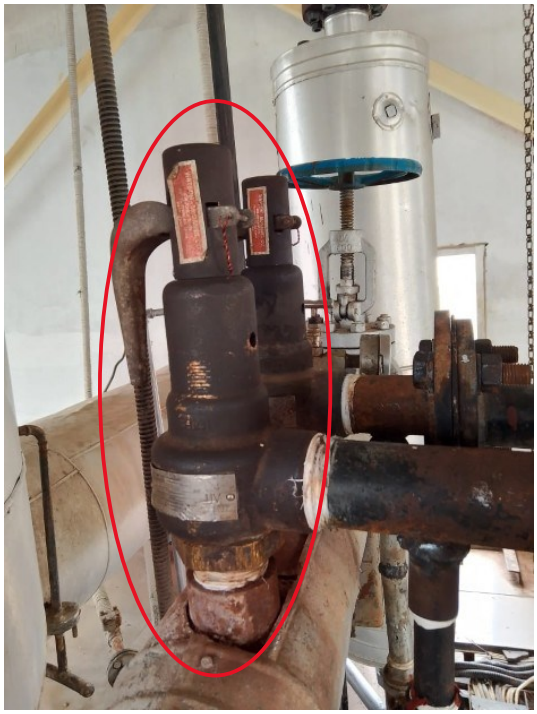
| **FINDING NO:** | B-27 |
| **CATEGORY:** | SAFETY VALVE |
| **BOILER REGISTRATION NO:** | BB 13079 |
| **FINDING:**<br>One of the available safety valves was not functioning. | |
| **RECOMMENDATION:**<br>The non-functioning safety valve must be repaired or replaced if necessary. | |
| **PRIORITY:** | P1 |
| **REMEDIATION TIME FRAME:** | 2 WEEKS |



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| **FINDING NO:** | B-28 | |
| **CATEGORY:** | SCALES AND DEPOSITS | |
| **BOILER REGISTRATION NO:** | BB 10156 | |
| **FINDING:**<br><br>Salt and scale formation was observed on the waterside. | | |
| **RECOMMENDATION:**<br><br>Cleaning is required. A water treatment station is to be used. Feed and boiler water quality and conditioning should be verified and monitored. The boiler operator should operate the boiler with proper blowdown. | | |
| **PRIORITY:** | P2 | |
| **REMEDIATION TIME FRAME:** | 1 MONTH | |

## 3. FUNCTIONAL TEST INSPECTION

| Inspection Date | Boiler Registration Number | Author(s) |
|---|---|---|
| 23-Mar-25 | BB 11241 | Shapath Guha Ankur<br>Faisal Bin Faruk |
| 3-Aug-25 | BB 13079, BB 10156 | Hossain Shah Arif |
| 15-Oct-25 | BB 13079 | Hossain Shah Arif |
| 7-Apr-26 | BB 13079 | Kazi Sefat-E-Nur |

**Reviewed by** : Mohammed Rakibul Hasan

**Approved by** : Md. Mehedi Hasan

## FINDINGS AND RECOMMENDATIONS

The table below summarizes the identified boiler safety hazards during this inspection. Recommendations have been provided for each finding.

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| **FINDING NO:** | B-29 |
| **CATEGORY:** | MONITORING AND CONTROL SYSTEM |
| **BOILER REGISTRATION NO:** | BB 11241 |
| **FINDING:**<br><br>The Steam Pressure Limiter was missing. | |
| **RECOMMENDATION:**<br><br>Steam Pressure Limiter should be installed and kept functional. | |
| **PRIORITY:** | P1 |
| **REMEDIATION TIME FRAME:** | 1 MONTH |

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| **FINDING NO:** | B-30 |
| **CATEGORY:** | MONITORING AND CONTROL SYSTEM |
| **BOILER REGISTRATION NO:** | BB 10156 |
| **FINDING:**<br><br>The Steam Pressure Limiter was missing. | |
| **RECOMMENDATION:**<br><br>Steam Pressure Limiter should be installed and kept functional. | |
| **PRIORITY:** | P1 |
| **REMEDIATION TIME FRAME:** | 1 MONTH |