BOILER SAFETY REPORT

Epyllion style Limited (extension project)

Factory ID: 12768

Address: Nayapara, Vhawal Mirzapur, Gazipur Sadar, Gazipur-1703.

GPS Coordinates: 24.104394, 90.372138

Factory List	:	Epyllion style Limited (extension project) (12768) EPYLLION STYLE LTD. (EXTENSION 2) (26605) Epyllion Knitex Ltd (10293) Epyllion Fabrics Ltd (Non-RSC)
Number of Boilers	:	2
Boiler Registration Numbers	:	BB 12563, BB 4754

RSC | RMG SUSTAINABILITY COUNCIL

EXECUTIVE SUMMARY

A comprehensive boiler safety inspection of the factory – **Epyllion style Limited (extension project) (12768)** was conducted by the RMG Sustainability Council, covering 2 boilers bearing the registration numbers – BB 12563 and BB 4754. 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 12563, and BB 4754 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 12563	22-Aug-22	5-Dec-24	Satisfactory	The Office of the Chief Inspector of Boilers (CIoB) acknowledged the temporary shutdown application for this boiler as of 29-Dec-24.	
BB 4754	22-Aug-22	7-Apr-25	On 7-Apr-25, the hydrotest could not be conducted due to 6 tubes found bulged and pressure part repair (end plates) carried out without the necessary documentation. After the factory plugged the bulged tubes and performed NDT, another inspection was scheduled on 17-Jul-25. However, the hydrotest was not conducted as 12 new tubes were found	1-Feb-26	On 1-Feb-26, the functional inspection could not be completed due to frequent boiler misfiring and the bypassing of the pilot gas line safety interlock. After resolving the issue, another inspection was scheduled on 23-Feb-26, and the
		17-Jul-25			

		26-Oct-25 30-Nov-25	bulged and 2 tubes were found bent. Subsequently, after the factory changes 35 no's of firetube and performed NDT, another inspection was scheduled on 26-Oct-25, but the hydrotest could not be completed once again as approximately 30~35 fire tubes were found bulged. After the issue was resolved as per RSC guideline, another inspection was scheduled on 30-Nov-25, and the inspection was satisfactory.	23-Feb-26	inspection was satisfactory.

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)
22-Aug-22	BB 12563, BB 4754	Md. Tanvir Siraj

Reviewed by : Arif Ahamed Mithun

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.

FINDING NO:	B-1
CATEGORY:	ELECTRICAL WIRING SYSTEM
BOILER REGISTRATION NO:	BB 12563
FINDING: No emergency stop push switch was available near the entrance outside of the boiler room.	
RECOMMENDATION: 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

FINDING NO:	B-2
CATEGORY:	DOCUMENTATION
BOILER REGISTRATION NO:	BB 4754
FINDING: Boiler's initial registration certificate was not available on-site during the inspection.	
RECOMMENDATION: Boiler registration certificate from the government authority which was provided after the installation shall be available on-site during the inspection.	
PRIORITY:	P3
REMEDIATION TIME FRAME:	2 MONTHS

FINDING NO:	B-3	
CATEGORY:	DOCUMENTATION	
BOILER REGISTRATION NO:	BB 12563	
FINDING: Necessary technical documents were not available to verify boiler design and operation parameters.		
RECOMMENDATION: 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	

FINDING NO:	B-4
CATEGORY:	DOCUMENTATION
BOILER REGISTRATION NO:	BB 4754
FINDING: Necessary technical documents were not available to verify boiler design and operation parameters.	
RECOMMENDATION: 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

FINDING NO:	B-5
CATEGORY:	ELECTRICAL WIRING SYSTEM
BOILER REGISTRATION NO:	BB 4754
FINDING: No emergency stop push switch was available near the entrance outside of the boiler room and on the boiler control panel.	
RECOMMENDATION: 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

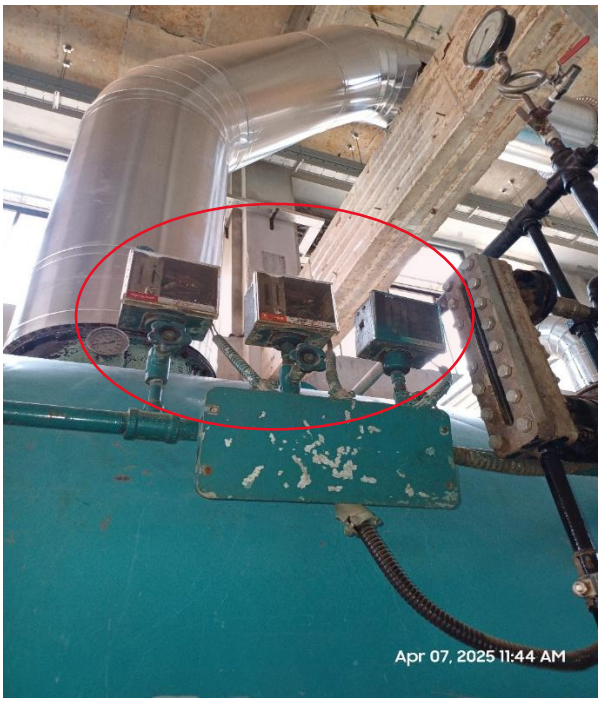
FINDING NO:	B-6
CATEGORY:	SAFETY VALVE
BOILER REGISTRATION NO:	BB 4754
FINDING: Boiler Steam Header Safety Valve outlet line was not directed outside of the boiler room.	
RECOMMENDATION: Boiler Steam Header Safety Valve outlet line should be directed outside of the boiler room with proper support and drainage system.	
PRIORITY:	P2
REMEDIATION TIME FRAME:	1 MONTH

FINDING NO:	B-7
CATEGORY:	MONITORING AND CONTROL SYSTEM
BOILER REGISTRATION NO:	BB 4754
FINDING: Low Low Water Level (LLWL) was not marked properly on water level gauge glass system.	
RECOMMENDATION: 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

FINDING NO:	B-8
CATEGORY:	SUPPORT AND ACCESS
BOILER REGISTRATION NO:	BB 4754
FINDING: A boiler with a height of 8 feet or more was observed with an inadequate platform, ladder, and handrail, making it inaccessible.	
RECOMMENDATION: 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

FINDING NO:	B-9
CATEGORY:	FUEL SYSTEM
BOILER REGISTRATION NO:	BB 4754
FINDING: Fuel line connection was not terminated properly.	
RECOMMENDATION: 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

FINDING NO:	B-10
CATEGORY:	MONITORING AND CONTROL SYSTEM
BOILER REGISTRATION NO:	BB 4754
FINDING: Valves were observed between the boiler and the pressure controller.	
RECOMMENDATION: 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



FINDING NO:	B-11	
CATEGORY:	MONITORING AND CONTROL SYSTEM	
BOILER REGISTRATION NO:	BB 4754	
FINDING: The steam pressure gauge range was insufficient.		
RECOMMENDATION: 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	

FINDING NO:	B-12	
CATEGORY:	IDENTIFICATION	
BOILER REGISTRATION NO:	BB 4754	
FINDING: Nameplate for one of the safety valves was illegible.		
RECOMMENDATION: 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	

FINDING NO:	B-13
CATEGORY:	THERMAL INSULATION
BOILER REGISTRATION NO:	BB 4754
FINDING: Boiler steam header and steam pipeline were found with improper insulation.	
RECOMMENDATION: Proper insulation to exposed parts of the boiler body and steam distribution pipelines should be provided.	
PRIORITY:	P2
REMEDIATION TIME FRAME:	1 MONTH

FINDING NO:	B-14
CATEGORY:	SAFETY VALVE
BOILER REGISTRATION NO:	BB 4754
FINDING: Drainage arrangement was not installed or installed in an inadequate manner for one or more safety valves.	
RECOMMENDATION: 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

2. INTERNAL INSPECTION & HYDROSTATIC PRESSURE TEST INSPECTION

Inspection Date	Boiler Registration Number	Author(s)
5-Dec-24	BB 12563	Md. Mahfuzul Kabir
7-Apr-25	BB 4754	Asif Tahmid Ahmad Hossain Khokon Arif Ahamed Mithun
17-Jul-25	BB 4754	Faisal Bin Faruk Mushfiq Ibne Kader
26-Oct-25	BB 4754	Ahmad Hossain Khokon Susanta Roy Chowdhury
30-Nov-25	BB 4754	Gobinda Chandra Roy Shapath Guha Ankur

Reviewed by : Arif Ahamed Mithun

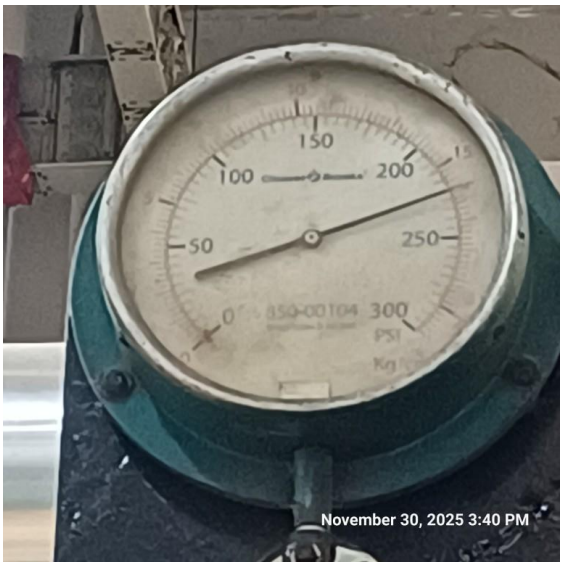
Approved by : Md. Mehedi Hasan

FINDINGS AND RECOMMENDATIONS

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

FINDING NO:	B-15
CATEGORY:	SCALES AND DEPOSITS
BOILER REGISTRATION NO:	BB 12563
FINDING: Salt and scale formation was observed on the waterside.	
RECOMMENDATION: 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

FINDING NO:	B-16
CATEGORY:	SCALES AND DEPOSITS
BOILER REGISTRATION NO:	BB 4754
FINDING: Salt and scale (1~2 mm) formation was observed on the waterside on the furnace and end plate.	
RECOMMENDATION: 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

FINDING NO:	B-17	
CATEGORY:	MONITORING AND CONTROL SYSTEM	
BOILER REGISTRATION NO:	BB 4754	
FINDING: An inconsistency was observed between the readings of the boiler pressure gauge and the calibrated pressure gauge.		
RECOMMENDATION: Defective pressure gauge(s) shall be replaced with functional gauge(s) as per Bangladesh Boiler Regulation (BBR).		
PRIORITY:	P1	
REMEDIATION TIME FRAME:	2 WEEKS	

3. FUNCTIONAL TEST INSPECTION

Inspection Date	Boiler Registration Number	Author(s)
1-Feb-26	BB 4754	Palash Kumar Paul
23-Feb-26		Md. Humayun Kabir Tipu

Reviewed by : Arif Ahamed Mithun

Approved by : Md. Mehedi Hasan

FINDINGS AND RECOMMENDATIONS

The initial inspection of this part of the boiler(s) revealed no safety concerns.