

BOILER SAFETY REPORT

Four H Apparels Ltd.

Factory ID: 10377

Address: 295, Jalalabad, Hathazari Road, Baluchara, Chittagong

GPS Coordinates: 22.405595, 91.818301



Factory List : Four H Apparels Ltd. (10377)

Number of Boilers : 2

Boiler Registration Numbers : BB 13128, BB 13129

EXECUTIVE SUMMARY

A comprehensive boiler safety inspection of the factory – **Four H Apparels Ltd. (10377)** was conducted by the RMG Sustainability Council, covering 2 boilers bearing the registration numbers – BB 13128 and BB 13129. 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 13128 is 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 13128	6-Mar-23	16-Apr-25	Satisfactory	23-Apr-25	No Interlock for LLWL trip.
BB 13129	6-Mar-23	The Office of the Chief Inspector of Boilers (CIB) acknowledged the temporary shutdown application for this boiler on 4-Jun-24.			

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 (CloB) 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)
6-Mar-23	BB 13128, BB 13129	Md. Tanvir Siraj

Reviewed by : Asif Tahmid

Approved by : Md. Mehedi Hasan

FINDINGS AND RECOMMENDATIONS

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

FINDING NO:	B-1	
CATEGORY:	DOCUMENTATION	
BOILER REGISTRATION NO:	BB 13128	
FINDING: Necessary technical documents (Water Test Report) 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-2	
CATEGORY:	DOCUMENTATION	
BOILER REGISTRATION NO:	BB 13129	
FINDING: Necessary technical documents (Water Test Report) 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-3
CATEGORY:	MONITORING AND CONTROL SYSTEM
BOILER REGISTRATION NO:	BB 13128
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



2. INTERNAL INSPECTION & HYDROSTATIC PRESSURE TEST INSPECTION

Inspection Date	Boiler Registration Number	Author(s)
16-Apr-25	BB 13128	Md. Minhajul Islam

Reviewed by : Asif Tahmid

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-4	
CATEGORY:		SCALES AND DEPOSITS	
BOILER REGISTRATION NO:		BB 13128	
FINDING: Salt and thin scale (2 mm) formation was observed on the waterside on shell surface.			
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	

3. FUNCTIONAL TEST INSPECTION

Inspection Date	Boiler Registration Number	Author(s)
23-Apr-25	BB 13128	Md. Minhajul Islam

Reviewed by : Asif Tahmid

Approved by : Md. Mehedi Hasan

FINDINGS AND RECOMMENDATIONS

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

FINDING NO:	B-5	
CATEGORY:	MONITORING AND CONTROL SYSTEM	
BOILER REGISTRATION NO:	BB 13128	
FINDING: There was no interlock for the Low Low Water (LLWL) level trip of the boiler.		
RECOMMENDATION: The Low Low Water (LLW) level tripping mechanism should be functional.		
PRIORITY:	P1	
REMEDIATION TIME FRAME:	1 WEEK	