BOILER SAFETY REPORT

Nafa Apparels Ltd. 2

Factory ID: 12861

Address: Village Joypura Union Shombag Upazila Dhamrai District Dhaka.

GPS Coordinates: 23.912710, 90.183601

Factory List	:	Nafa Apparels Ltd. 2 (12861)
		Nafa Apparels Ltd. 2 (Extension) (24853)
Number of Boilers	:	03
Boiler Registration Numbers	:	BB 8214, BB 13199, BB 14554

RSC RMG SUSTAINABILITY COUNCIL

EXECUTIVE SUMMARY

A comprehensive boiler safety inspection of the factory – **Nafa Apparels Ltd. 2 (12861)** was conducted by the RMG Sustainability Council, covering 3 boilers bearing the registration numbers – BB 8214, BB 13199, and BB 14554. 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 8214, BB 13199 & BB 14554 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 8214	31-Mar-22	26-May-25	Satisfactory	16-Oct-25	
BB 13199	26-May-25	19-Aug-25	Satisfactory	16-Oct-25	
BB 14554	26-May-25	26-Aug-25	Satisfactory	16-Oct-25	

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)
31-Mar-22	BB 8214	Md. Tanvir Siraj
26-May-25	BB 13199, BB 14554	Syed Rayhan Sajjid

Reviewed by : Faisal Bin Faruk

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.

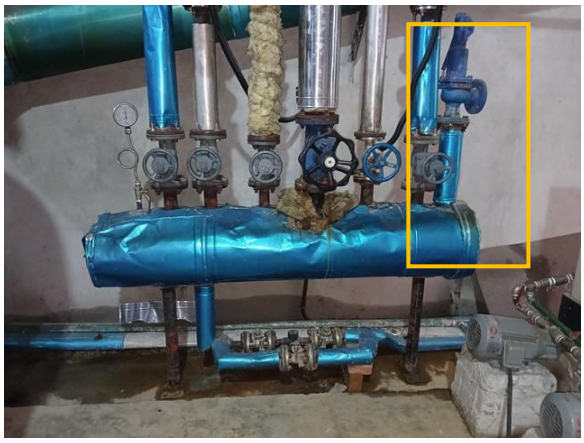
FINDING NO:	B-1
CATEGORY:	ELECTRICAL WIRING SYSTEM
BOILER REGISTRATION NO:	BB 8214
FINDING: No emergency stop push switch was available near the entrance outside of the boiler room and on the boiler control panel.	
RECOMMENDATION: Emergency stop push switches must be installed on the boiler control panel and outside the boiler room near every entrance door.	
PRIORITY:	P3
REMEDIATION TIME FRAME:	2 MONTHS

FINDING NO:	B-2	
CATEGORY:	DOCUMENTATION	
BOILER REGISTRATION NO:	BB 8214	
FINDING: Necessary technical documents (Water test report, P&ID, Construction drawing, Commissioning 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 log book, 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 8214
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

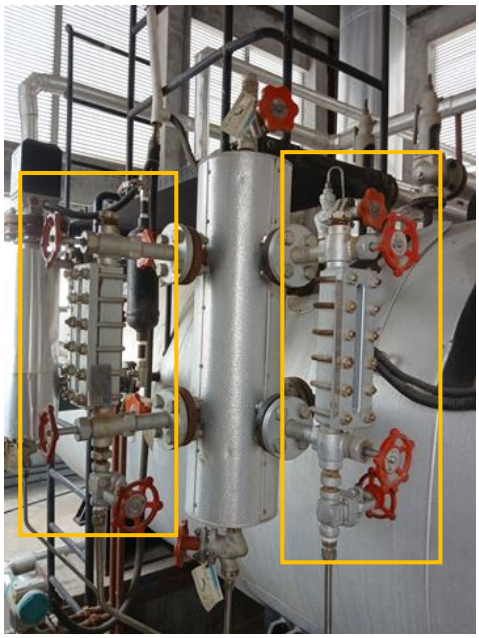
FINDING NO:	B-4
CATEGORY:	SAFETY VALVE
BOILER REGISTRATION NO:	BB 8214
FINDING: Boiler Safety Valve outlet line was not directed outside of the boiler room.	
RECOMMENDATION: Boiler Safety Valve outlet line should be directed outside of the boiler room with proper support and drainage system.	
PRIORITY:	P2
REMEDIATION TIME FRAME:	1 MONTH

FINDING NO:	B-5
CATEGORY:	SAFETY VALVE
BOILER REGISTRATION NO:	BB 8214
FINDING: Boiler (Steam Header) Safety Valve outlet line was not directed outside of the boiler room.	
RECOMMENDATION: Boiler 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

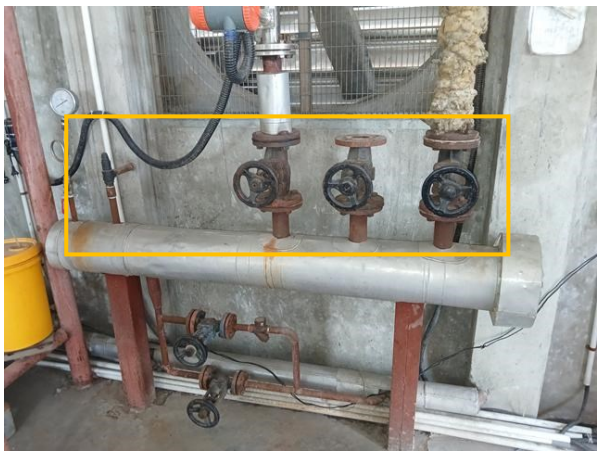


FINDING NO:	B-6
CATEGORY:	SUPPORT AND ACCESS
BOILER REGISTRATION NO:	BB 8214
FINDING: A boiler with a height of 8 feet or more was observed with an inadequate platform, ladder, and handrail, making it inaccessible.	
RECOMMENDATION: An operation, maintenance, and inspection platform with a minimum width 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

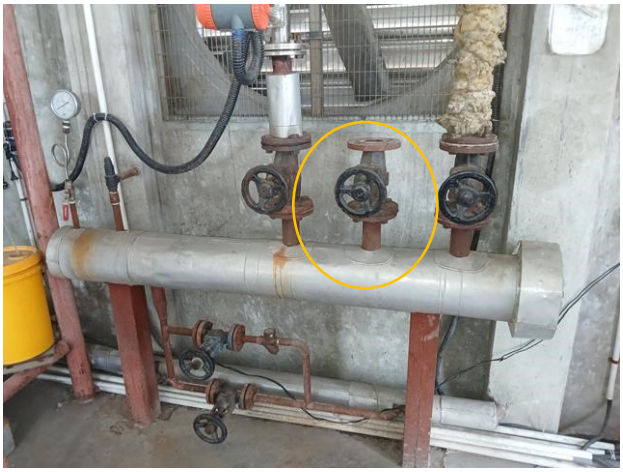
FINDING NO:	B-7
CATEGORY:	MONITORING AND CONTROL SYSTEM
BOILER REGISTRATION NO:	BB 13199
FINDING: Low Low Water Level (LLWL) was not marked properly on water level gauge glass system.	
RECOMMENDATION: The Low Low Water Level (LLWL) should be marked beside the gauge glass on a separate arrangement so that the water level can be visualized and identified clearly.	
PRIORITY:	P3
REMEDIATION TIME FRAME:	2 MONTHS



FINDING NO:	B-8
CATEGORY:	THERMAL INSULATION
BOILER REGISTRATION NO:	BB 13199
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-9
CATEGORY:	STEAM DISTRIBUTION NETWORK
BOILER REGISTRATION NO:	BB 13199
FINDING: Unused steam line connection was not terminated properly.	
RECOMMENDATION: Any unused & unprotective steam line shall be terminated in an appropriate manner that does not create any possibility of burn hazard for the operator(s).	
PRIORITY:	P1
REMEDIATION TIME FRAME:	2 WEEKS



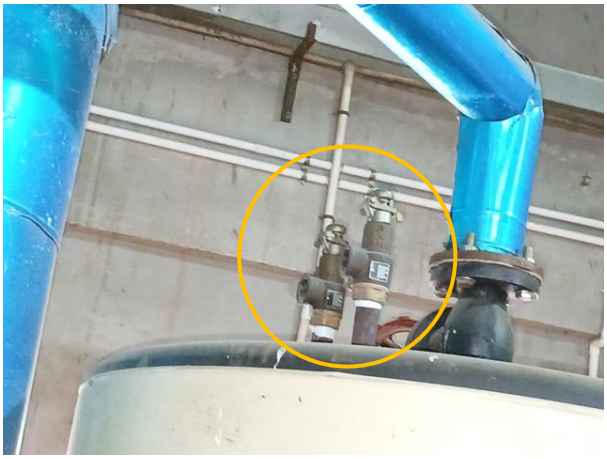
FINDING NO:	B-10
CATEGORY:	SAFETY VALVE
BOILER REGISTRATION NO:	BB 13199
FINDING: Discharge of safety valve was not free from danger of scalding.	
RECOMMENDATION: Safety valve outlet line shall not affect emergency discharge path or discharge of safety valve shall be free from danger of scalding.	
PRIORITY:	P2
REMEDIATION TIME FRAME:	1 MONTH

FINDING NO:	B-11
CATEGORY:	MONITORING AND CONTROL SYSTEM
BOILER REGISTRATION NO:	BB 14554
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-12
CATEGORY:	MONITORING AND CONTROL SYSTEM
BOILER REGISTRATION NO:	BB 14554
FINDING: Installed pressure gauge was inadequate in dial size and pressure rating according to manufacturing standard.	
RECOMMENDATION: An appropriate pressure gauge according to Bangladesh boiler regulation (BBR)/manufacturing standard/any standard recognized by the CIoB. shall be provided.	
PRIORITY:	P3
REMEDIATION TIME FRAME:	2 MONTHS

FINDING NO:	B-13
CATEGORY:	SUPPORT AND ACCESS
BOILER REGISTRATION NO:	BB 14554
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-14
CATEGORY:	SAFETY VALVE
BOILER REGISTRATION NO:	BB 14554
FINDING: Boiler Safety Valve outlet line was not directed outside of the boiler room.	
RECOMMENDATION: Boiler 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



2. INTERNAL INSPECTION & HYDROSTATIC PRESSURE TEST INSPECTION

Inspection Date	Boiler Registration Number	Author(s)
26-May-25	BB 8214	Syed Rayhan Sajjid
19-Aug-25	BB 13199	Mushfiq Ibne Kader
26-Aug-25	BB 14554	Asif Ahmed

Reviewed by : Faisal Bin Faruk

Approved by : Md. Mehedi Hasan

FINDINGS AND RECOMMENDATIONS

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

3. FUNCTIONAL TEST INSPECTION

Inspection Date	Boiler Registration Number	Author(s)
16-Oct-25	BB 8214 BB 13199 BB 14554	Kazi Sefat-E-Nur

Reviewed by : Faisal Bin Faruk

Approved by : Md. Mehedi Hasan

FINDINGS AND RECOMMENDATIONS

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