BOILER SAFETY REPORT

Tusuka Stitches Ltd.

Factory ID: 24266

Address: 40/4, Hazrat Shahjalal Road,Rajnagar, Sataish, Tongi

GPS Coordinates: 23.922149,90.358499

Factory List	:	Tusuka Stitches Ltd. (24266)
		TUSUKA APPARELS LTD. (Relocation) (24293)
Number of Boilers	:	4
Boiler Registration Numbers	:	BB 12251, BB 15441, BB 14427, BB 10611

RSC RMG SUSTAINABILITY COUNCIL

EXECUTIVE SUMMARY

A comprehensive boiler safety inspection of the factory – **Tusuka Stitches Ltd. (24266)** was conducted by the RMG Sustainability Council, covering 4 boilers bearing the registration numbers – BB 12251, BB 15441, BB 14427 and BB 10611. 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 15441 and BB 14427 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 12251	23-Oct-22	28-Jan-26	The office of the Chief Inspector of Boilers **cancelled the registration** of this boiler due to strong corrosion of fire drum, shell and end plate on 8-May-24.		
BB 15441	13-Apr-26	13-Apr-26	Satisfactory	7-Jun-26	
BB 14427		20-Apr-26	Satisfactory	7-Jun-26	
BB 10611		The office of the Chief Inspector of Boilers has **acknowledged temporary shutdown** of this boiler as of 1-Apr-26.			

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)
23-Oct-22	BB 12251	Md. Sohidul Islam
13-Apr-26	BB 15441, BB 14427, BB 10611	Abdullah Bin Mostafa AL-Hasan Istiak Islam

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:	Documentation
BOILER REGISTRATION NO:	BB 12251
FINDING: Necessary technical documents (Electrical wiring diagram, data sheets of mountings, accessories & feed water pump) 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-2
CATEGORY:	Documentation
BOILER REGISTRATION NO:	BB 15441
FINDING: Necessary technical documents (manufacturing drawings and calculations, Piping and Instrumentation diagram, electrical wiring diagram, commissioning documents, data sheets of mountings, accessories and feed water pump, operation and maintenance manual, water treatment design and calculation) 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 15441
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:	Monitoring and Control System
BOILER REGISTRATION NO:	BB 15441
FINDING: Visual flame monitoring system was not easily accessible for regular monitoring	
RECOMMENDATION: A visual flame monitoring system is required to be installed for regular monitoring	
PRIORITY:	P3
REMEDIATION TIME FRAME:	2 MONTHS

FINDING NO:	B-5
CATEGORY:	Safety Valve
BOILER REGISTRATION NO:	BB 15441
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

FINDING NO:	B-6
CATEGORY:	Monitoring and Control System
BOILER REGISTRATION NO:	BB 15441
FINDING: There is no drainage available for water level gauge glass.	
RECOMMENDATION: A suitable discharge pipe shall be fitted with each water gauge drain cock or valve.	
PRIORITY:	P3
REMEDIATION TIME FRAME:	2 MONTHS

FINDING NO:	B-7
CATEGORY:	Documentation
BOILER REGISTRATION NO:	BB 14427
FINDING: Necessary technical documents (manufacturing drawings and calculations, Piping and Instrumentation diagram, electrical wiring diagram, commissioning documents, data sheets of mountings, accessories and feed water pump, operation and maintenance manual, water treatment design and calculation) 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-8
CATEGORY:	Monitoring and Control System
BOILER REGISTRATION NO:	BB 14427
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-9
CATEGORY:	Monitoring and Control System
BOILER REGISTRATION NO:	BB 14427
FINDING: Visual flame monitoring system was not easily accessible for regular monitoring	
RECOMMENDATION: A visual flame monitoring system is required to be installed for regular monitoring	
PRIORITY:	P3
REMEDIATION TIME FRAME:	2 MONTHS

FINDING NO:	B-10
CATEGORY:	Safety Valve
BOILER REGISTRATION NO:	BB 14427
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

FINDING NO:	B-11
CATEGORY:	Documentation
BOILER REGISTRATION NO:	BB 10611
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 log book, operation and maintenance manual, water treatment design and calculation, 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-12
CATEGORY:	Monitoring and Control System
BOILER REGISTRATION NO:	BB 10611
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-13
CATEGORY:	Monitoring and Control System
BOILER REGISTRATION NO:	BB 10611
FINDING: There is no drainage available for water level gauge glass.	
RECOMMENDATION: A suitable discharge pipe shall be fitted with each water gauge drain cock or valve.	
PRIORITY:	P3
REMEDIATION TIME FRAME:	2 MONTHS

FINDING NO:	B-14
CATEGORY:	Monitoring and Control System
BOILER REGISTRATION NO:	BB 14427
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-15
CATEGORY:	Support and Access
BOILER REGISTRATION NO:	BB 15441
FINDING: Rotating equipment (Fuel pump rotor shaft) was found without mechanical guard in the boiler room.	
RECOMMENDATION: Mechanical guard must be provided to rotating shaft and driving system.	
PRIORITY:	P1
REMEDIATION TIME FRAME:	2 WEEKS

FINDING NO:	B-16
CATEGORY:	Support and Access
BOILER REGISTRATION NO:	BB 14427
FINDING: Rotating equipment (Fuel pump rotor shaft) was found without mechanical guard in the boiler room.	
RECOMMENDATION: Mechanical guard must be provided to rotating shaft and driving system.	
PRIORITY:	P1
REMEDIATION TIME FRAME:	2 WEEKS

FINDING NO:	B-17
CATEGORY:	Fuel System
BOILER REGISTRATION NO:	BB 15441
FINDING: Fuel line was not properly supported and protected against corrosion.	
RECOMMENDATION: Fuel line shall be constructed with appropriate materials as specified by the manufacturer/standard. Support and protection against corrosion shall be as per the requirements of the gas supply company and NFPA 54.	
PRIORITY:	P2
REMEDIATION TIME FRAME:	1 MONTH

FINDING NO:	B-18
CATEGORY:	Fuel System
BOILER REGISTRATION NO:	BB 14427
FINDING: Fuel line was not properly supported and protected against corrosion.	
RECOMMENDATION: Fuel line shall be constructed with appropriate materials as specified by the manufacturer/standard. Support and protection against corrosion shall be as per the requirements of the gas supply company and NFPA 54.	
PRIORITY:	P2
REMEDIATION TIME FRAME:	1 MONTH

2. INTERNAL INSPECTION & HYDROSTATIC PRESSURE TEST INSPECTION

Inspection Date	Boiler Registration Number	Author(s)
13-Apr-26	BB 15441	Abdullah Bin Mostafa AL-Hasan Istiak Islam
20-Apr-26	BB 14427	Palash Kumar Paul

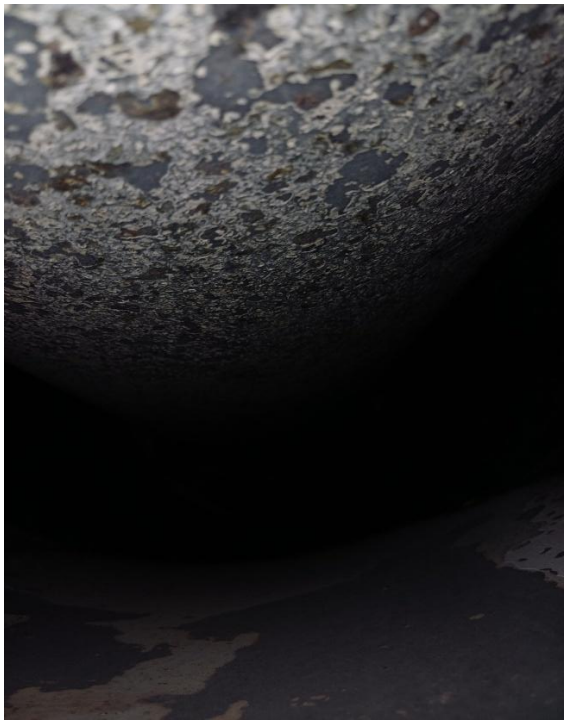
Reviewed by : Faisal Bin Faruk

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-19
CATEGORY:	Scales And Deposits
BOILER REGISTRATION NO:	BB 15441
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



3. FUNCTIONAL TEST INSPECTION

Inspection Date	Boiler Registration Number	Author(s)
7-Jun-26	BB 15441, BB 14427	Md. Almas Hossain Polash

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-20	
CATEGORY:	Monitoring and Control System	
BOILER REGISTRATION NO:	BB 15441	
FINDING: The Steam Pressure Limiter was missing.		
RECOMMENDATION: Steam Pressure Limiter should be installed and kept functional.		
PRIORITY:	P1	
REMEDIATION TIME FRAME:	1 MONTH	

FINDING NO:	B-21	
CATEGORY:	Monitoring and Control System	
BOILER REGISTRATION NO:	BB 14427	
FINDING: The Steam Pressure Limiter was missing.		
RECOMMENDATION: Steam Pressure Limiter should be installed and kept functional.		
PRIORITY:	P1	
REMEDIATION TIME FRAME:	1 MONTH	

FINDING NO:	B-22	
CATEGORY:	Monitoring and Control System	
BOILER REGISTRATION NO:	BB 15441	
FINDING: The Air Pressure Limiter was missing.		
RECOMMENDATION: Air Pressure Limiter shall be installed and kept functional.		
PRIORITY:	P2	
REMEDIATION TIME FRAME:	1 MONTH	

FINDING NO:	B-23	
CATEGORY:	Monitoring and Control System	
BOILER REGISTRATION NO:	BB 14427	
FINDING: The Air Pressure Limiter was missing.		
RECOMMENDATION: Air Pressure Limiter shall be installed and kept functional.		
PRIORITY:	P2	
REMEDIATION TIME FRAME:	1 MONTH	

FINDING NO:	B-24
CATEGORY:	Monitoring and Control System
BOILER REGISTRATION NO:	BB 14427
FINDING: The water level gauge glass was defective and the water level was not clearly visible.	
RECOMMENDATION: The water level gauge glass must be repaired or replaced to show the water level clearly. Until the remediation is done, permanent supervision by a certified boiler operator is required.	
PRIORITY:	P1
REMEDIATION TIME FRAME:	2 WEEKS