BOILER SAFETY REPORT

The Civil Engineers Woven Limited (Extension)

Factory ID: 25414

Address: 8, 9, 159 & 160 Baghbari, Horindhara, Hemayatpur, Savar, Dhaka, Bangladesh

GPS Coordinates: 23.790366, 90.257365

Factory List	:	The Civil Engineers Woven Limited (Extension) (25414) The Civil Engineers Woven Limited (Previously The Civil Engineer's Ltd. (UNIT-2)) (12156)
Number of Boilers	:	2
Boiler Registration Numbers	:	BB 7561, BB 7095

RSC RMG SUSTAINABILITY COUNCIL

EXECUTIVE SUMMARY

A comprehensive boiler safety inspection of the factory – **The Civil Engineers Woven Limited (Extension) (25414)** was conducted by the RMG Sustainability Council, covering 2 boilers bearing the registration numbers – BB 7561 and BB 7095. 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 7561 & BB 7095 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 7561	8-Aug-22	20-Oct-25	Satisfactory	26-Oct-25	
BB 7095	8-Aug-22	6-Oct-25	On 6-Oct-25, the inspection was not completed due to visible crack on pressure part (at second pass entry of furnace and end plate) and unauthorized welding found at second pass entry of furnace and end plate. After the issue was solved and documentation was reviewed, another inspection was scheduled on 9-Oct-25, and the inspection was satisfactory.	26-Oct-25	
		9-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)
8-Aug-22	BB 7561 BB 7095	Md. Foysal Ahmed

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:	MONITORING AND CONTROL SYSTEM	
BOILER REGISTRATION NO:	BB 7561	
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-2	
CATEGORY:	MONITORING AND CONTROL SYSTEM	
BOILER REGISTRATION NO:	BB 7095	
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-3
CATEGORY:	FUEL SYSTEM
BOILER REGISTRATION NO:	BB 7561
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-4
CATEGORY:	FUEL SYSTEM
BOILER REGISTRATION NO:	BB 7095
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-5	
CATEGORY:	DOCUMENTATION	
BOILER REGISTRATION NO:	BB 7561	
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, 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-6
CATEGORY:	DOCUMENTATION
BOILER REGISTRATION NO:	BB 7095
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, 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-7
CATEGORY:	BB 7095
BOILER REGISTRATION NO:	MONITORING AND CONTROL SYSTEM
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-8	
CATEGORY:	THERMAL INSULATION	
BOILER REGISTRATION NO:	BB 7095	
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:	ELECTRICAL WIRING SYSTEM	
BOILER REGISTRATION NO:	BB 7095	
FINDING: Boiler control panel was in another room.		
RECOMMENDATION: Boiler control panel should be installed in the same room as boiler from where the water level and the pressure gauge of the boiler can be monitored.		
PRIORITY:	P2	
REMEDIATION TIME FRAME:	1 MONTH	

FINDING NO:	B-10	
CATEGORY:	ELECTRICAL WIRING SYSTEM	
BOILER REGISTRATION NO:	BB 7095	
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-11	
CATEGORY:	SAFETY VALVE	
BOILER REGISTRATION NO:	BB 7095	
FINDING: Drainage arrangement was not installed for steam header safety valve.		
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-12
CATEGORY:	LEAKAGE
BOILER REGISTRATION NO:	BB 7095
FINDING: Steam leakage was observed in the boiler steam header control valve	
RECOMMENDATION: The steam leakage shall be repaired to prevent burn hazard.	
PRIORITY:	P2
REMEDIATION TIME FRAME:	1 MONTH

2. INTERNAL INSPECTION & HYDROSTATIC PRESSURE TEST INSPECTION

Inspection Date	Boiler Registration Number	Author(s)
6-Oct-25	BB 7095	Ahmad Hossain Khokon Mushfiq Ibne Kader
9-Oct-25	BB 7095	Nawaze Mahmud
20-Oct-25	BB 7561	Hasibul Islam Md. Mahfuzul Kabir

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-13
CATEGORY:	BOILER PRESSURE PARTS
BOILER REGISTRATION NO:	BB 7095
FINDING: 1 of the fire tubes of the boiler were found blinded, obstructing the flue gas flow.	
RECOMMENDATION: The blinded fire tube(s) should be replaced with new tubes to reopen the flue gas path as per manufacturer's guidance with the written permission from the Chief Inspector of Boilers.	
PRIORITY:	P2
REMEDIATION TIME FRAME:	6 MONTHS

3. FUNCTIONAL TEST INSPECTION

Inspection Date	Boiler Registration Number	Author(s)
26-Oct-25	BB 7561 BB 7095	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.