SHAMS POWER COMPANY

ENGINEERING DIVISION

INSPECTION & CORROSION SECTION

SHAMS 1

LOCATION: R1LCA10BB001

KKS: R1LCA10BB001

GRADE & CLASSIFICATION: 2

CERTIFICATE OF INSPECTION

The equipment detailed below was examined in accordance with the SHAMS code of practice for plant inspection,

ITEM: Atmospheric tank LOCATION: SHAMS Plant

TYPE OF INSPECTION: Major DATE OF INSPECTION: March, 2020 outage

PLACE OF INSPECTION: IN-SITU DATE OF LAST INSPECTION: Jan, 2019

REPORT:

1.0. SUMMARY

The above tank was taken off line, isolated, opened, vented & cleaned for major external & internal inspections.

2.0. SUBJECT

2.1. This is a vertical, cylindrical, ASTM A-516 Gr.60 tank with one inlet and outlet of condensate water.

Size	
Design pressure	
Design temperature	
Operation pressure	ATM
Operation temperature	
Fluid characteristics @	
Flanges	
Piping	
Shell minimum thickness	
Head minimum thickness	

The above equipment is/ is not considered suitable for further service under the present operating conditions

NEXT MAJOR INSPECTION DUE: March 2024 INSPECTED: Osman Ismail

ENDORSEMENT: 48 MONTHS

REVIEWED: Ali Al Masabai

3.0 History

This tank was commissioned in 2013. Periodical inspection records since Oct.'2014 are available.

4.0. Scope of Inspection

- 4.1. Visual Inspection
- 4.2 Ultrasonic Thickness survey

5.0. Conditions Found

5.1. External

- 5.1.1 All painting and insulation found intact without any evidence of painting peel off or blistering and no evidence of any damage for insulation or insulation cover aluminum sheet.
- 5.1.2 All ladders, stairways and handrails found in satisfactory condition.
- 5.1.3 All concrete support found in satisfactory condition without evidence of cracking or spalling.
- 5.1.4 All external piping insulation found in satisfactory condition.
- 5.1.5 All earthling lugs found in satisfactory condition.

5.2. Internal

- 5.2.1 All internals found in satisfactory condition without evidence of fallen down, damage or corrosion.
- 5.2.2 All internal surfaces of shell and heads found in satisfactory condition, apart from normal carbon steel very thin hydroxide layer with scattered corrosion deposits spots.

6.0 NDT

- Ultrasonic thickness measurement was carried out on the internal shell courses and heads found satisfactory. See attached thickness measurement report.

6.0. Recommendations

Atmospheric Tank to be open for inspection after four years as per SHAMS code of practice.

10. Inspection Grade and Interval

In accordance with the latest revision of SHAMS Code of Practice, this **Deaerator was** endorsed for 48 months under class 2, for next Major Inspection.

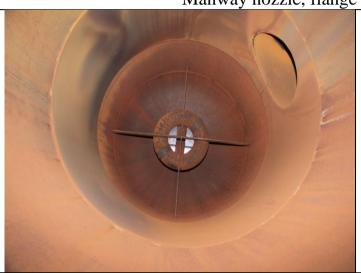
FREQUENCY : 48 MONTHS. ENDORSEMENT : 48 MONTHS,

GRADE : 2

Next Major Insp. due : March, 2024

Photos







Shell, dished end internal surfaces and internal



International Inspection Services Ltd.

NON DESTRUCTIVE TESTING/HEAT TREATMENT/ADVANCED INSPECTION SERVICES, CALIBRATION SERVICES AND MECHANICAL & METALLURGICAL LAB SERVICES

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Form No.: IN-QSF-36 Rev. 05E Dtd.: 20-10-2018

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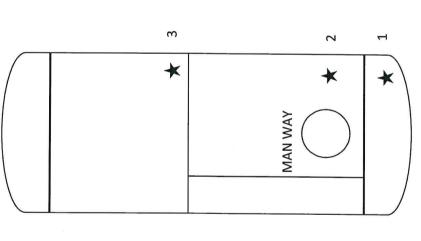
International Inspection Services Ltd

Date :- 03.03.2020 **Report No.:-** AD-454

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ULTRASONIC THICKNESS SCANNING DRAWING SHEET

ATMOSPHERIC TANK



BOTTOM

★ UTG LOCATION

LEVEL II TECHNICIAN

Name: - SHAMAICHUL

Sign: Sign

Date: - 003.05.2020