



INSPECTION REPORT

REPORT NO.:	GII/ALKOUT/AGPT/EM-01/2023	INSPECTION DATE:	06.12.2023
JOB REF. No.	2023 04 040	PO NO. & DATE:	PO2023-123110951 & 29.11.2023
CLIENT:	Al Kout Industrial Projects.	CONTACT PERSON:	Mr. Prashant Shah
VENDOR:	Air-N-Gas Process technologies.	PLACE OF INSPECTION:	Ahmedabad, Gujarat - India
EQUIPMENT:	CU DE-OXO System-100Nm3/HR	INSPECTED BY	Er. Sapan Shah
DRAWING NO.:	ANG-1450-CDP-GA R3(GA) ANG-1450-CDP-P&ID R7.	QAP NO.:	1450/QAP/R1 DT:29.08.2023
STAGES OF INSPECTION:			
<input type="checkbox"/> KICK OFF / PRE-INSPECTION MEETING	<input type="checkbox"/> MATERIAL IDENTIFICATION	<input type="checkbox"/> INTERIM STAGE	
<input type="checkbox"/> DOCUMENT REVIEW	<input checked="" type="checkbox"/> FINAL	<input type="checkbox"/> STATUS REVIEW / FAT	

1. Above mentioned both Drawings are Approved by M/s Al Kout on Dated:08.10.2023 & 11.10.2023.
2. Inspection activities Carried out as Per Scope of Work given by M/s. Al Kout Industrial Projects.

❖ BELOW MENTIONED ACTIVITIES CARRIED OUT DURING INSPECTION VISIT:

- A. Major Overall Dimensions (Skid size, Channel Size, foundation hole dimensions, Piping Size) of system Checked -found as Per Approved drawing.
- B. There are some Changes in dimensions (Location of water Inlet/outlet, Location/height of hydrogen Inlet/outlet, Location Nitrogen Inlet/outlet, Vent Height) w.r.t Drawing-To be Incorporated in final as built drawing and same to be submitted for final approval Prior to dispatch.
- C. System Verified as Per Approved P& ID Diagram -found Acceptable-Except below observations:
 - Flow meter and flow Transmitter not attached during testing-Same will be attached at site.
 - Pressure gauge, temperature gauge, Pressure switch for water Line not attached due to space constraint. - Same will be attached at site.
 - Addition of NRV 04 & 05 already Incorporated in final as built drawing-Same is Approved by Al Kout Industrial Projects.
- D. Pneumatic test of Whole System (**After Painting**) Witnessed at test Pressure 9.4 kg/cm²g for holding time of 30 minutes. - No leakage or pressure drop observed during holding time. -Accepted
 - **Pneumatic test offered after Painting which is not good Practice -Client to confirm and make a note of same.**
- E. Manufacturer's (SUD-CHEMIE) test Certificate of Copper Catalyst-Grade C-54 reviewed as Per Approved catalyst specification sheet-found in order.
- F. Raw material test Certificate of Plates and Pipes, Welding documents reviewed-found in order as Per requirement.
- G. In Process fabrication reports (Main shell, Nozzle fit up reports, LPE reports, Dimension report) for both Copper DE-OXO tower A & B, after cooler, Moisture Separator reviewed as Per Vendor's Internal fabrication drawing, below are observation:
 - There are some dimensions deviation at fabrication stage as mentioned in attached reports-same is incorporated in Internal as built drawing which is Approved by Al Kout.
- H. Final hydro test report of both Copper DE-OXO tower A&B, after Cooler, Moisture separator reviewed-found acceptable.



I. All bought items test Certificate Verified as Per Approved data sheet. - found Acceptable.

Except below observations:

- Make of Ball Valve of size 6NB,10NB,15NB changed -Same to be updated in data sheet and submitted for Approval.

J. All Spare items Including Electrical heater coil assembly Verified -found as Per approved data sheet.

K. Calibration certificates of measuring and testing Instruments Verified-found in order.

Remarks/Notes:

1. Final Packing List is not Prepared by Vendor yet. -Same will be submitted during dispatch.
2. Both heaters will be supplied in Loose condition.
3. Final testing of whole system will be done at site.
4. Vendor to complete necessary finishing, Painting touch up and Packing Prior to dispatch.
5. Vendor to take dispatch clearance from Client.
6. All activities carried out as per above mentioned Approved Drawing and Intimation given by Client.
7. Reports and Photographs are attached for reference.

Area of concern:

1. Pneumatic test offered after Painting as mentioned above.
2. final GA Drawing required to be Approved as Per actual dimensions Prior to dispatch.

Conclusion:

Offered materials is found accordance with the related standard, Purchase Order, Drawing and ITP. And found acceptable.

INSPECTION PHOTOGRAPHS





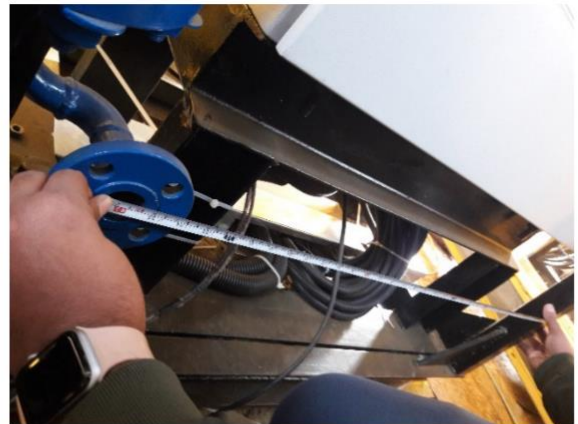
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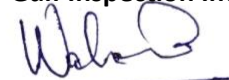
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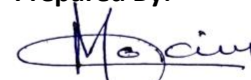


Gulf Inspection Int'l Co., KSC



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I/C. Inspection Department

Prepared By:



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Inspection Department

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