

## OIL & GAS DEVELOPMENT COMPANY LIMITED

KPD-TAY PLANT.



Phone#022-2789200 & Fax#022-2761410

Annexure-A

## **Schedule of Requirement**

Tender Enquiry No. TE/MECH/WT/KPD-0002/EA-4401/2022

"Web Tender for Supply and installation of Sleeves at 552 inlet tube ends of Lean Amine Air
Cooler (EA-4401) Installed at Amine Unit-01 of KPD-TAY Plant"

Sr#	Description	QTY	UOM
1	Supply and installation of seamless Stainless steel 316L Sleeve (CPI Shield).Size: minimum 8"length, thickness: 0.020" to 0.024".	552	No

### **TERMS AND CONDITIONS (TECHNICAL):-**

- a. The sleeve should be fit in tube having 1"ODX 0.1181"wall thickness. The detail specifications / Drawing dimensions of existing tube and exchanger are attached.
- b. Supplier shall be responsible for verifying provided Heat Exchanger drawings as per site so that Sleeves can be manufactured accordingly.
- c. The material of sleeves should be as per ASMESA 249 Stainless steel 316L specification.
- d. Material of sleeve should be resistant to any type of corrosion when installed in carbon steel tubes
- e. The sleeve should be able to work at minimum pressure of 97.5 psi and at minimum temperature 200°F with working fluid Hydrocarbon Lean Amine.
- f. Dimension of sleeve should be minimum 8" in length to fit in tube having 1" OD x 0.1181" wall thickness Carbon Steel material having Aluminum fins for 552 inlet tube ends of tube bundles of Lean Amine Air Cooler (EA-4401)
- g. The installed sleeve should be capable of providing sealing to at least 4 times of design pressure for tubes. Test certificate should be provided prior to delivery.
- h. Single sleeve piece should be capable of bearing hydro test pressure of 97.5 psi. Third party hydro test certificate to be provided before delivery.
- i. Sleeve material should be of foreign well known manufacturer having experience of at least 10 years, MTC of material must be provided before Delivery.
- j. Bidder shall prepare his own drawings for fabrication & same shall be handed over to OGDCL along with delivery of Sleeves.
- k. Supervision of supplier will be required during installation.
- I. Bidder should submit at least 03 work orders of similar nature job along with satisfactory work completion certificate.
- m. The supplier shall be responsible for safe transportation of the sleeves to the KPD-TAY Plant.
- n. In case of any non-conformance observed during inspection, Supplier shall immediately rectify / replace the same. Any delay in rectification will be liable to LDs as per OGDCL standard tender document.
- o. Delivery of material is to be completed in 90 days from the date of receipt of firm purchase order.

- p. The master set of tender documents (Local) available on OGDCL website (www.ogdcl.com) is the integral part of this tender.
- q. Installation of sleeves along with all required tools will be the responsibility of supplier and will complete the job in 60 days after delivery of material.
- r. All tools required for installation and testing of sleeves will be responsibility of supplier
- s. Removal of plugs and cleaning of tubes will be the responsibility of supplier.
- t. Hydro test will be responsibility of supplier / Contractor.
- u. In case of any damage to sleeve during installation and hydro testing the contractor will be responsible to provide and replace with new sleeve on free of cost /without additional charges.

#### **OGDCL RESPONSIBILITIES:**

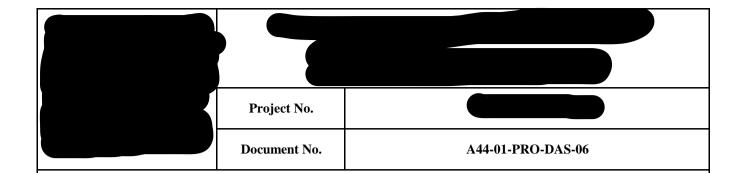
OGDCL will provide the following facilities during installation & hydro testing of tube bundles at KPD-TAY Plant.

- i. Isolation of the existing heat exchanger & purging.
- ii. Provide electricity & demineralized water for hydro testing of tube bundles.
- iii. Provide gaskets and plugs for Hydro testing of tubes.
- iv. All spiral wound gaskets for isolation & hydro testing of heat exchanger shall be arranged by OGDCL.
- v. Boarding and lodging of contractor staff.

ANNEXURE-A-1

#### **GENERAL TERMS AND CONDITIONS:**

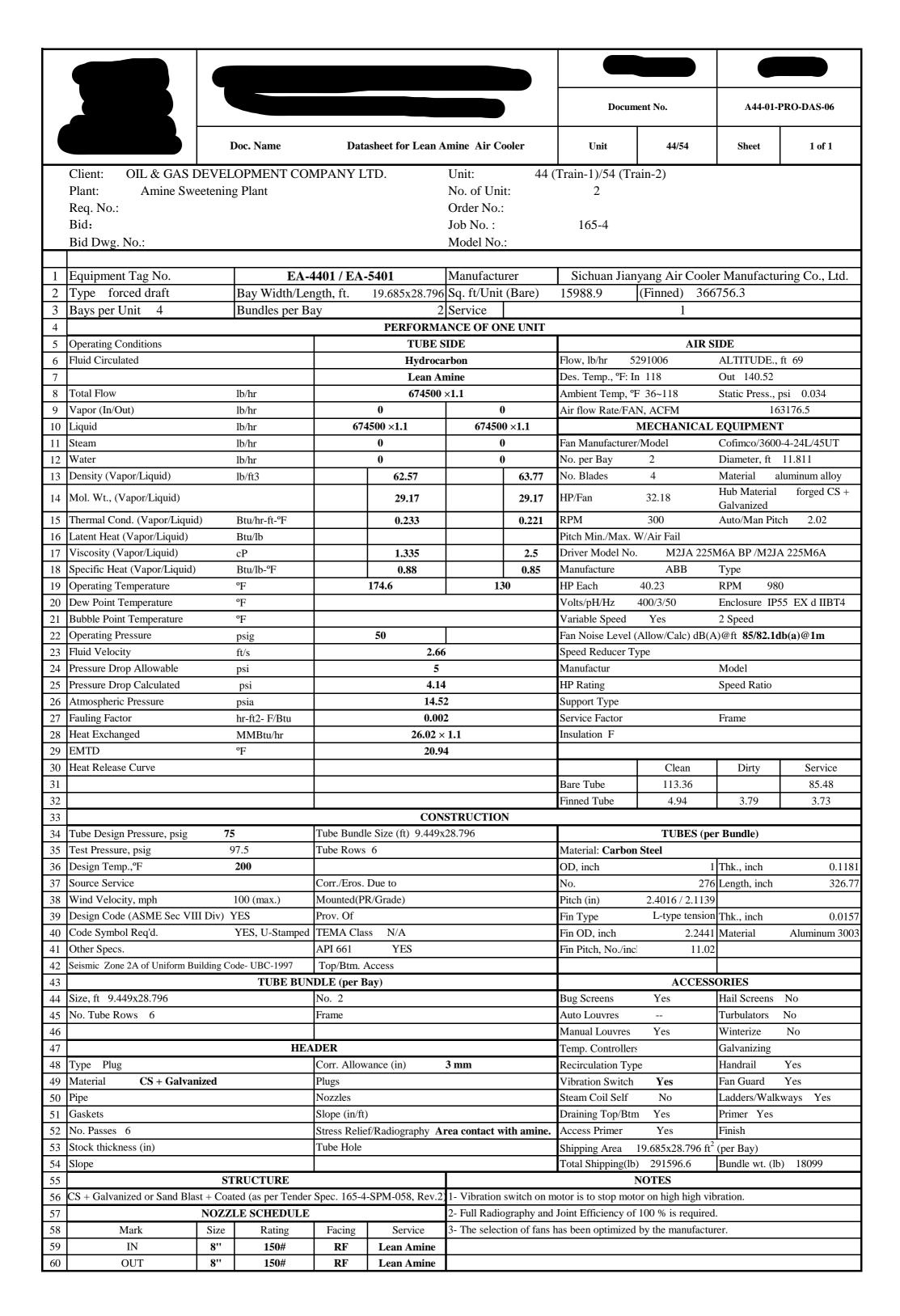
- A. BIDS MUST BE SUBMITTED UNDER **SINGLE STAGE TWO ENVELOPES BIDDING SYSTEM** i.e. TECHNICAL & FINANCIAL BID SEPARATELY ON DUE DATE.
- B. FINANCIAL BIDS OF ONLY TECHNICALLY RESPONSIVE BIDDERS WILL BE OPENED PUBLICLY.
- C. AFTER TENDER OPENING "TECHNICAL BIDS" WILL BE REVIEWED. THE BIDS WILL BE BROUGHT TECHNICALLY AT PAR BY SEEKING CLARIFICATIONS. THE BIDDERS WILL **NOT** BE ASKED FOR ANY PRICE CHANGE IN THEIR FINANCIAL BIDS DUE TO CERTAIN CLARIFICATIONS AND SUBSEQUENT CHANGE IN THEIR TECHNICAL PROPOSALS. THE BIDDERS WILL **NOT** BE ALLOWED TO SUBMIT SUPPLEMENTARY PRICE PROPOSALS IN A SEPARATE SEALED ENVELOPE TO MAKE IT A PART OF THE ALREADY SUBMITTED UNOPENED FINANCIAL BIDS AND TO ADJUST THEIR QUOTED PRICE SUBSEQUENTLY AFFECTED DUE TO CHANGE IN TECHNICAL PROPOSALS.
- D. SEALED FINANCIAL BIDS OF TECHNICALLY NON-RESPONSIVE BIDDERS WILL BE RETURNED UN-OPENED.
- E. OGDCL RESERVES THE RIGHT TO REJECT ANY OR ALL THE BIDS WITHOUT ASSIGNING ANY REASON.
- F. PRICES MUST BE QUOTED IN PKR INCLUSIVE OF ALL TAXES AND DUTIES, INDICATING UNIT PRICE AND TOTAL BID PRICES. GST MUST BE QUOTED SEPARATELY ALONG WITH COPY OF GST CERTIFICATE.
- G. QUOTED PRICES SHALL BE VALID FOR 90 DAYS FROM THE OPENING DATE OF THE TECHNICAL BID.
- H. OGDCL RESERVES THE RIGHT TO EVALUATE THE BID(S) EITHER ITEM-WISE OR FULL PASKAGE BASIS WITHOUT ASSIGNING ANY REASON. TO QOUTE COMPETITIVE PRICES FOR ALL OR ANY ITEMS ENABLE COMPANY TO DECIDE PURCHASE.
- BIDDERS TO SUBMIT THEIR COMPANY PROFILES, EXPERIENCE OF SIMILAR SUPPLIES IN PAKISTAN ALONG WITH TECHNICAL BIDS.

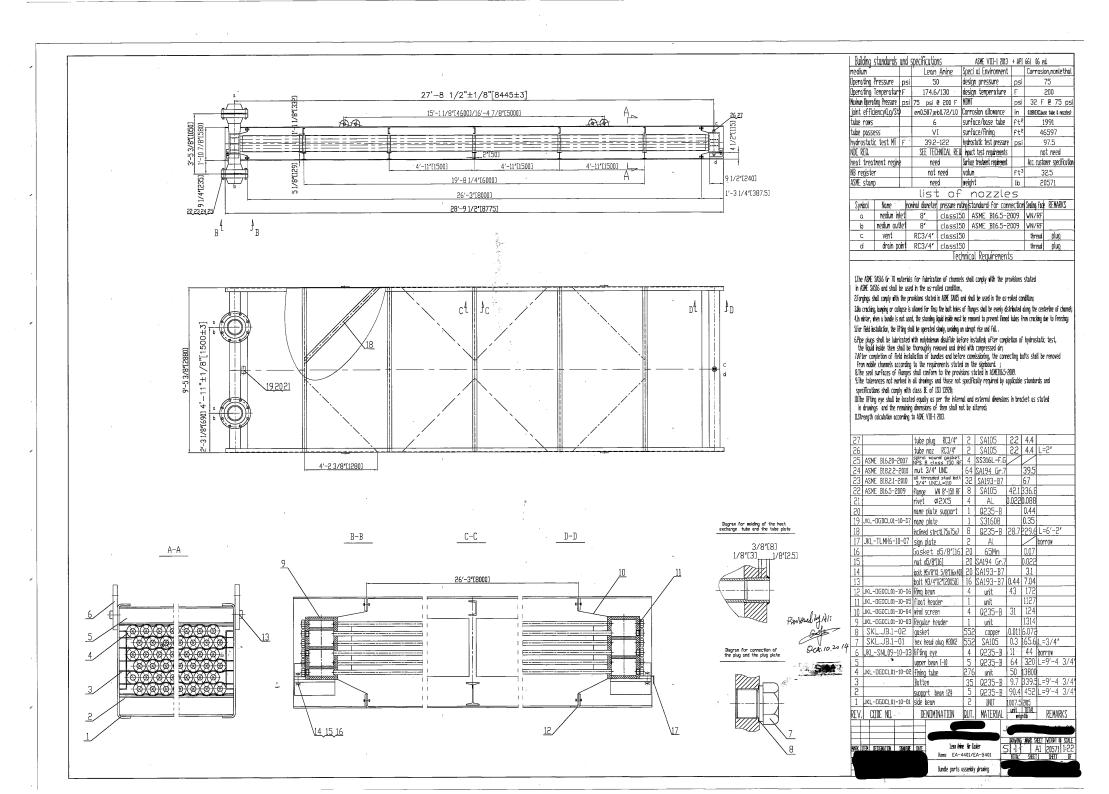


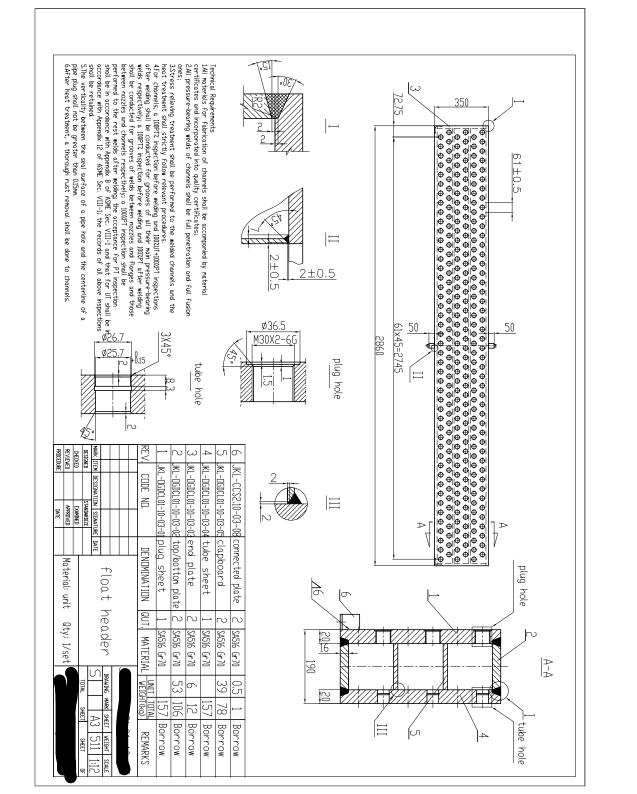
# Datasheet for Lean Amine Air Cooler EA-4401 / EA-5401



Rev.	Date	Description	Prepared by	Checked by	Reviewed by	Approved by
Е	08-04-2014	For Approval	WJH	ZY	SQ	GJF
0	23-04-2014	Approved	WJH	ZY	SQ	GJF
0	11-08-2015	AS-BUILT	WJH	ZY	SQ	GJF







S.N	Name	Specification	Qty
Lean An	nine Cooler EA-4401/EA	-5401	
1	Flange Gasket	D8"-Class150 SS316L-F.G.	32
2	Threaded Bolt	3/4", L=110 SA193-B7	64
3	Nut	3/4" SA194-2H	128
4	Plug	M30×2 L=20 SA105	50
5	Plug Gasket	d36/d30.5×1.5 (Copper)	100
6	Narrow V-Belt	15J-5 L=3180	3

