

OIL & GAS DEVELOPMENT COMPANY LIMITED
PROCUREMENT DEPARTMENT, ISLAMABAD
FOREIGN SECTION A

(To be completed, filled in, signed and stamped by the principal)

ANNEXURE 'A'

Material SPARES FOR TREM MECHANICAL SEALS INSTALLED ON RUHRPUMPEN AMINE BOOSTER PUMPS OF UCH-II PLANT
Tender Enquiry No PROC-FA/CB/P&P/UCH-5128/2021
Due Date
Evaluation Criteria FULL

SCHEDULE OF REQUIREMENT

Sr No	Description	Unit	Quantity	Unit Price (FOB)	Total Price (FOB)	Unit Price C & F BY SEA	Total Price C & F BY SEA	Deviated From Tender Spec. If Any
1	MECHANICAL SEAL, APILITE RO-0600-9292 P# 62913 ASY RUHRPUMPEN PUMP SCE 8X6X10.5 OR EQUIVALENT	Number	2					
2	REPAIR KIT, FOR MECHANICAL SEAL APILITE RO-0600-9292 P# 66407 ASY RUHRPUMPEN PUMP SCE 8X6X10.5 OR EQUIVALENT	Number	4					

Note:

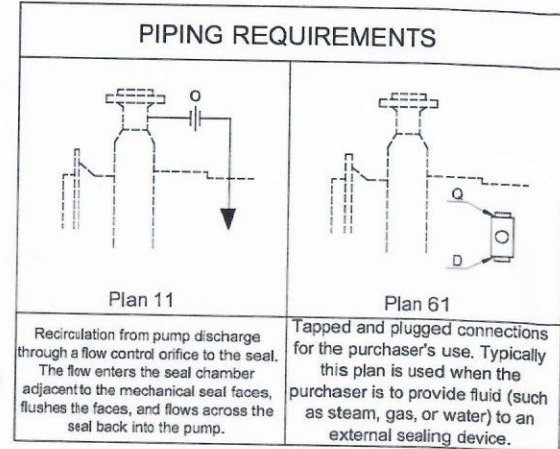
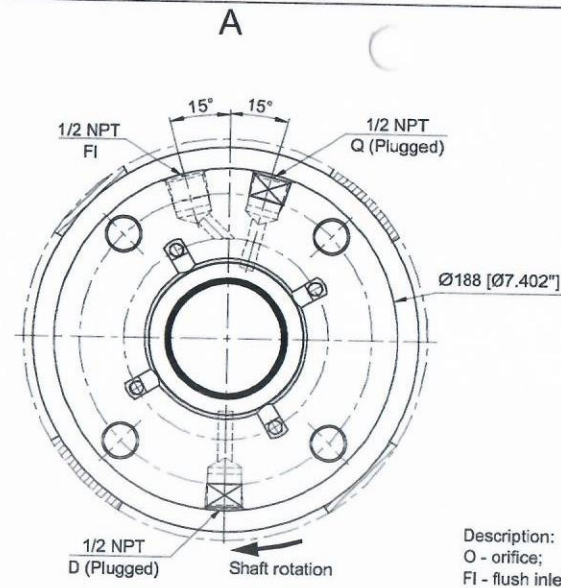
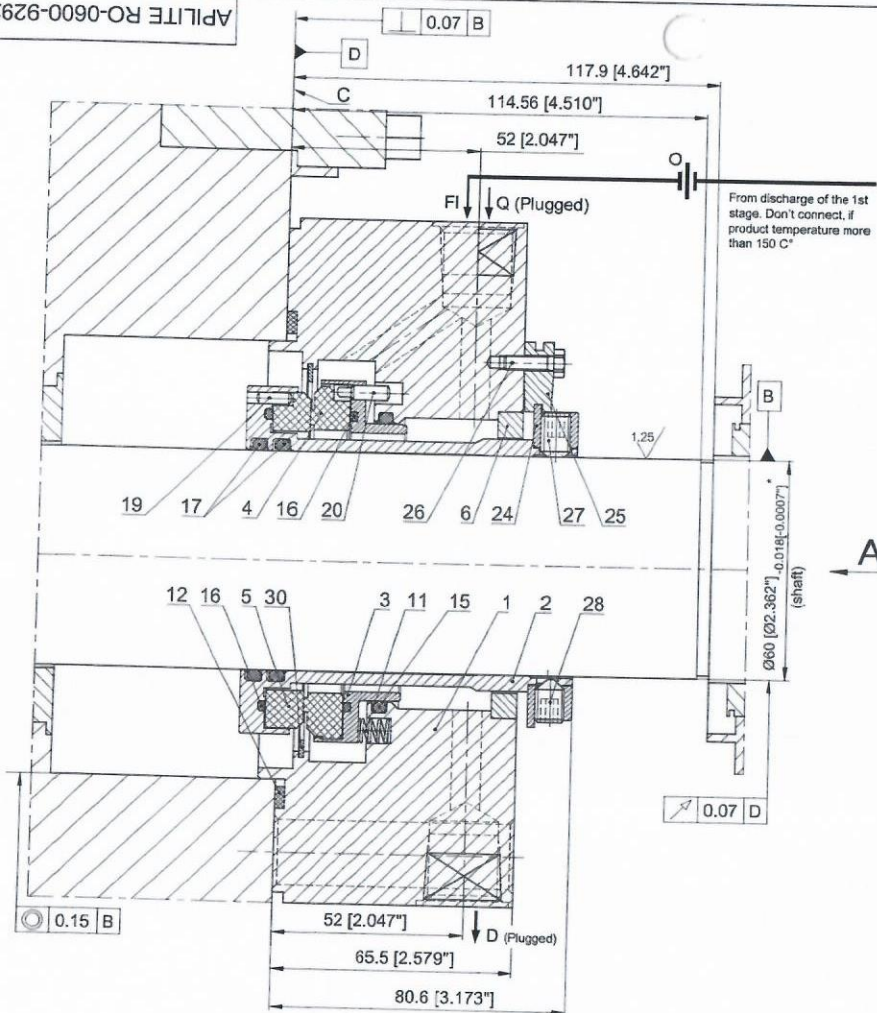
1. Bid Bond Amount: US \$ 500 or equivalent Pak Rupees valid up to 210 Days from the date of technical bid opening
2. Mode of Bidding: Single stage two Envelope basis.
3. Evaluation Criteria: - Full Consignment wise C&F By Sea
4. Delivery Period: 120 days from establishment of LC
5. Bid Validity: 180 Days
6. Bidders are advised to carefully read all the terms and conditions of the MASTER SET OF FOREIGN TENDER DOCUMENT (PRESS-SINGLE STAGE TWO ENVELOP) available on OGDCL website which is an integral part of this Schedule of Requirement

Technical Terms & Conditions:

1. Original Authority Letter from OEM (M/S TREM ENGINEERING) for bid submission must be provided with technical bid otherwise bid will be rejected.
2. In case of any ambiguity in part nos., it should be cleared prior to bid submission/opening date.
3. Parts must be in original OEM Packing.
4. Parts must be new & free from any defect.
5. If bidder found any change/update/superseded part nos., it should be incorporated in bid and OEM confirmation be provided with technical bid.
6. Parts must have standard OEM warranty/guarantee.
7. Delivery period is 120 days from date of issuance of L/C.
8. In case of equivalent parts, Bidder must confirm that quoted spare parts are 100% fit in size and function/metallurgy for the Amine Pumps model mentioned.
9. In case of equivalent parts, Manufacturer must have 10 years' experience of manufacturing the spare parts for Amine pumps. Company profiles & previous supply record of same parts to E&P Companies (reference list) be provided.
10. Bidder must confirm country of origin in technical bid.
11. Bidder should submit the complete compliance of TOR duly signed and stamped.

[Handwritten Signature]

For offer		Version: 2
For approval		Date: 23.05.2013
Final for delivery	X	Coordinated:
		Date:
		Approved:
		Date:



1. Mechanical seal is supplied tested and securely packaged ready for installation.
2. * - Check dimensions before installation.
3. Before mounting the seal install plugs as required. Use suitable thread sealant such as Loctite-542, PTFE thread sealing cord, or similar material.
4. Before the installation make sure that the surface C is clean and free of scratches and lugs.
5. When tighten nuts of gland studs make sure that the gland fit the surface C of the pump completely without the gap all around the full circle.
6. Tighten set screws item 27 equally crosswise, in 4 steps. Final torque: 15 N *m.
7. Maximum axial movement (design) ± 2.5 mm.
8. Remove clips item 25 before start-up.
9. Do not start-up pump with tank without barrier fluid.
10. Install clips item 25, before removing seal.

AS-BUILT

CUSTOMER:	Bellelli Engineering
Pump Item-No:	300-P104 A/B/C/D
RP-PROJECT No:	160070 A/B/C/D
RP-DRAWING No:	701 480 0034

Customer and equipment data	
1.1	Customer Bellelli Engineering
1.2	End user Pakistan
1.3	Unit
1.4	Equipment item number 300-P104 A/B/C/D
1.5	Equipment type Pump OH2
1.6	Equipment model SCE 8x6x10.5
1.7	Project No 160070 A/B/C/D
1.8	Seal Chamber 141200152
1.9	Order N, date
Working conditions	
2.1	RPM 2980
2.2	Liquid Lean amine
2.3	Temperature, °F 190..200
2.4	Viscosity, cP 1.41
2.5	Density, Lb/ft³ 61.84
2.6	Suction pressure, psi.g 6.99
2.7	Discharge pressure, psi.g 79.49
2.8	Seal chamber pressure, psi.g 28.72
2.9	Vapor pressure, psi.g 9.08
Auxiliary	
3.1	API 682 Plans 11, 61
3.2	Buffer liquid
3.3	Orifice hole, mm 3..4
3.4	Drawing of plans
Mechanical seal	
4.1	Drawing N
4.2	Seal Data
4.3	Data of spare kit
4.4	Contract, invoice

Item	Part No	Description	Q-ty	Material	Spare	Q-ty
1	62850	Gland	1	AISI316		
2	62851	Sleeve	1	AISI316		
3	46589	Retainer	1	AISI316		
4	62091	Mating ring	1	Resin Carbon	*	1
5	36845	Mating ring	1	S-SiC	*	1
6	35388	Ring	1	Bronze		
11	22273	Spring	6	Hastelloy-C	*	6
12	4293	Gasket	1	AISI316/Graphite	*	1
15	34532	O-Ring	1	Perfluorocastomer	*	1
16	22767	O-Ring	2	Perfluorocastomer	*	2
17	34531	O-Ring	2	Perfluorocastomer	*	2
19	20652	Pin	3	A4		
20	39842	Pin	3	A4		
24	34530	Lock ring	1	2Cr13		
25	20086	Clip	4	2Cr13		
26	24017	Screw	4	A2	*	4
27	4877	Screw	6	A2	*	6
28	14120	Screw	3	A2	*	3
30	27511	Snap ring	1	AISI302	*	1
31	23243	Plug	3	A2		

APILITE RO-0600-9292

Mechanical seal
Installation drawing
and parts list

Designed	Fedorova	Signature	Date
Checked	Nechiporenko		27.12.12
Approved	Horoshih		27.12.12

JSC TREM Engineering