

## eustream, a.s.

## Replacement of hydraulic parts of turbo-compressors 650-21-2 at KS01-Veľké Kapušany

**TECHNICAL SPECIFICATION** 

## **ATTACHMENT NO. 9**

Rev.	Date	Description	Prepared	Checked	Approved	Datum	Approv	ed	
	eu	stream		CENTR	Document IFUGAL Co Data Sh (API 617-	OMPRESSOF eet	R		
COMPANY Company	y Representa	ative:	Area Code	Area Code: DFO:					
Reference	e:		Proje	ct Identificatio	n	Document No. R			
PO. No.:  CONTRACTOR  Contractor Representative:									
Documer	nt Originator	:							

		JOB NO			ITI	ITEM NO.		
		PURCHASE ORDER NO.						
E	eustream	DATA SHEET NO.						
	CENTRIFUGAL COMPRESSOR	REVISIO			D/	DATE		
	DATA SHEET (API 617-6TH)	PAGE		OF	7 BY			
	METRIC UNITS	PAGE	2	OF				
1	APPLICABLE TO:   PROPOSAL O PURCHASE O AS I	DI III T						
	FOR SPP, SLOVAKIA	BUILI	UNIT		E4	L E2 (E2 OPTIONALY	<b>\</b>	
	SITE VEL'KE KAPUSANY		SERIAL N	10	<u></u>	I, E2 (E3 OPTIONALY)	)	
	SERVICE TRANSPORTATION		NO. REQI		2 -	+ 1 (ONE AS AN OPTI	ONI)	
	© CONTINUOUS O INTERMITTENT O STA	ND DV	_			,		
5		INDBY	DRIVER I			ECTRIC MOTOR (SY	NCHRONOUS)	
	MANUFACTURER MODEL		DRIVER I			<u> </u>		
	NOTE: INFORMATION TO BE COMPLETED: OBSPACE ORDERATION TO BE COMPLE	TING CON		BY MAN	UFACTURER	1		
8	OPERA	I ING CON			Incint 2	Deint 2	Daint 4	
9	(ALL DATA ON PER UNIT BASIS)		Point 1		Point 2	Point 3	Point 4	
10	(ALL DATA ON I EN ONT BAGIO)							
11	(M) 0.40 (MAND) ED (A) 0.0 0EE ATTAOUNENT)		-					
	GAS HANDLED (ALSO SEE ATTACHMENT)		-					
	O DELIVERED FLOW @ 1.013 BAR & 20 °C, (MNm³/h) 1), 2)		-					
	O WEIGHT FLOW - WET, (kg/h)		-					
	O WEIGHT FLOW - DRY, (kg/h)							
16	INLET CONDITIONS		<b>5.00</b>		T 500		1 500	
	© PRESSURE, (MPa abs) 3)		5,00		5,00	5,00	5,00	
	TEMPERATURE, (°C) 3)		20		20	20	20	
	O RELATIVE HUMIDITY , (%)				1			
	O MOLECULAR WEIGHT, (kg/kmol)				1			
	O Cp/Cv (K1) OR (KAVG)				1			
	COMPRESSIBILITY (Z1)				1			
	INLET VOLUME, (m³/h) (WET / DRY)							
24	DISCHARGE CONDITIONS		7.05		I 0 45			
	X PRESSURE, (MPa abs) 3)		7,35		6,45	6,28	6,10	
26	<b>=</b>							
27	Cp/Cv (K2) OR (KAVG)		-					
	COMPRESSIBILITY (Z2)							
29	PERFORMANCE:				T	<u> </u>	<u> </u>	
30	MAX. POWER REQUIRED - ALL LOSSES INCLUDED, (kW)  SPEED, (RPM)		max 370	٠,	+		max 3700	
32			Illax 370	10			max 3700	
	ISENTROPIC HEAD (kJ/kg)							
33 34	ISENTROPIC HEAD (KJ/Kg)  ISENTROPIC EFFICIENCY (%)							
35	© CERTIFIED POINT		YES		YES	YES	YES	
36	PERFORMANCE CURVE NUMBER		IES		1123	TE3	TES	
37	PROCESS CONTROL							
38	METHOD O SUCTION THROTTLING O VARIABLE INLET	r (2)	SPEED V	ADIATIO	N O DI	SCHARGE O	COOLED RECYCLE	
39	FROM BAR GUIDE VANES	•	FROM				FROM	
40	TO BAR (3.4.2.4)		_	3 700 m	_		TO	
41	O LOAD SHARING MANUAL OR AUTOMATIC	O DIS	. •		_ '`	L (MINIMUM PRESSU		
42	SIGNAL O SOURCE (3.4.2.1)	O Die	CHARGE	-NESSU	KE CONTROL	L (WIINIWOW FRESSO	RE CONTROL)	
42	TYPE & ELECTRONIC O PNEUMATIC	О от	HFR					
43	RANGE 4-20 MA BAF							
44	ANTI-SURGE BYPASS O MANUAL & AUTOMATIC		NONE					
	REMARKS: 1) DELIVERED FLOW AT 20°C (NOT AT 0°C)	. 0	NONE					
47	2) DELIVERED FLOW BY VENDOR							
47	3) PURCHASER REQUIRED VALUES							
49	ANY OF THE PURCHASER UNSPECIFIED ITEMS SHOUL	D BE FILL	ED BY VEN	NDOB				
50	TITLE ON THE PONOLINGER ONS FEORED HEIVIS SHOUL	O DE FIEL	ירם חו עבוי	10011				
50								

eustream

## CENTRIFUGAL COMPRESSOR

JOB NO.				ITEM NO.	
PURCHASI	E ORDEI	R NO.			
DATA SHE	ET No.				
REVISION	NO.			DATE	
PAGE	3	OF	7	ВУ	

	DATA SHEET (API 617-6TH) METRIC UNITS						PAGE 3 OF 7 BY				
1					OPERA	L RATING CONDITIONS					
	GAS ANALYSIS:	1)			I	T		HER CONDITION			
	MOL % O	<i>'</i>	NORMAL	Α	В	-	С	D	E	REMARKS:	
		MW	NOTALE .	^						TALINATURE.	
	AIR										
	OXYGEN		0.70			_					
	NITROGEN		0,76			_					
	WATER VAPOR					_					
	CARBON MONOXIDE  CARBON DIOXIDE		0.22								
			0,33								
	HYDROGEN SULFIDE					$\dashv$					
	HYDROGEN		05 472			$\dashv$					
	METHANE ETHYLENE		95,473			$\dashv$					
			2.420			$\dashv$					
	ETHANE PROPYLENE		2,428			-					
			0,729			-					
	PROPANE I-BUTANE		0,729								
	n-BUTANE		0,109								
	I-PENTANE		0,113			$\dashv$					
	n-PENTANE		0,022			-					
	n-HEXANE		0,017			-					
22	II-I IL/V-II-L		0,017								
23											
24											
	TOTAL		100,000	0,000	0,000	0	0,000				
	AVG. MOL. WT.		.00,000	0,000	0,000		0,000				
	LOCATION: (2.1.9)		ļ.		l	NOIS	E SPECIFICA	TIONS: (2.1.1)	0)		
28	· · ·	OUTDOOR	0	GRADE		۱ ـ		TO MACHINE:	•		
29	★ HEATED	O UNDER		O MEZZAN	NINE						
30	_	O PARTIAI	SIDES	0		0 ,	APPLICABLE 1	TO NEIGHBOF	RHOOD:		
31	O ELEC. AREA CLASSI	FICATION (2.	1.15) ZN	GR	CL	;	SEE SPECIFIC	CATION			
	O WINTERIZATION REG	-		ALIZATION F	REQ'D.	ACO	USTIC HOUSI	NG:	O yes	о по	
	SITE DATA:	, ,	(3.4.6.6)			0 1	PACKAGE MA	X. ALLOWABL	E SPL @ 1m	SHALL NOT EXCEED 85 dBA	
34	O ELEVATION 101	,5 m BAF	ROMETER	mB	AR			CIFICATIONS:			
35	O RANGE OF AMBIENT	TEMPS (INS	IDE OF THE	HALL):		API 617, CENTRIFUGAL COMPR. FOR GEN. REFINERY SERV.					
36		•		•		O VENDOR HAVING UNIT RESPONSIBILITY (2.9.1.7)					
37	NORMAL (°C)										
38	MAXIMUM (°C)	+40				O GOVERING SPECIFICATION (IF DIFFERENT)					
39	MINIMUM (°C)	+5				-					
40	(°C)					PAIN	TING:				
	UNUSUAL CONDITIONS:		DUST	O FUMES		O MANUFACTURER'S STD.					
42	<b>②</b> OTHER (2.1.9)	DUST, ACTIV				0	OTHER				
43	· -/	,	·								
44						SHIP	MENT: (4.4	.1)			
	REMARKS:					l _	DOMESTIC	O EXP	ORT (Y)	EXPORT BOXING REQ'D.	
46	1) FOR GAS ANAL	YSIS ALSO S	EE TECHNIC	AL SPECIFIC	CATION	l _		ORAGE MORI	_		
47	.,	. 5.5	0	5 5				R ASSEMBLY		,	
48						l	_	NTAL STORAG	_	VERTICAL STORAGE	
49							_	EN PURGED C			
50											
						1					

		JOB NO. ITEM NO.					
		PURCHASE ORDER NO.					
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	CENTRIFUGAL COMPRESSOR	REVISION NO. DATE					
	DATA SHEET (API 617-6TH)	PAGE 4 OF 7 BY					
	SI UNITS						
1		RUCTION FEATURES					
2	SPEEDS:	TYPE (OPEN, ENCLOSED, ETC.)					
3	MAX. CONT. 3700 RPM TRIP RPM	TYPE FABRICATION					
4	MAX. TIP SPEEDS: m/s @ 100% SPEED	MATERIAL					
5	m/s @ MAX. CONT. SPEED	MAX. YIELD STRENGTH (N/mm²)					
6	LATERAL CRITICAL SPEEDS (DAMPED)	BRINNEL HARDNESS: MAX MIN					
7	FIRST CRITICAL RPM MODE	SMALLEST TIP INTERNAL WIDTH (mm)					
8	SECOND CRITICALRPMMODE	MAX. MACH. NO. @ IMPELLER EYE					
9	THIRD CRITICAL RPM MODE	MAX. IMPELLER HEAD @ 100% SPEED (kJ/kg)					
10	FOURTH CRITICAL RPM MODE	SHAFT:					
11	O TRAIN LATERAL ANALYSIS REQUIRED (2.9.2.3)	MATERIAL					
12	O TRAIN TORSIONAL ANALYSIS REQUIRED	DIA @ IMPELLERS mm. DIA @ COUPLING mn					
13	(TURBINE DRIVEN TRAIN) (2.9.4.5)	SHAFT END: O TAPERED O CYLINDRICAL					
14	TORSIONAL CRITICAL SPEEDS:	MAX. YIELD STRENGTH, (N/mm²)					
15		SHAFT HARDNESS (BNH)(Rc)					
16		MAX TORQUE CAPABILITY (N-m)					
17		☐ BALANCE PISTON:					
18	<u> </u>	MATERIAL AREA (mm²)					
	X VIBRATION:	FIXATION METHOD					
20	<u> </u>	☐ SHAFT SLEEVES:					
21		AT INTERSTAGE. CLOSE MATL  CLEARENCE POINTS					
		┥					
	MATERIALS INSPECTION REQUIREMENTS (4.2.2)	AT SHAFT SEALS MATL					
24	` ' —	O ACCESSIBLE (2.8.2)  LABYRINTHS:					
25 26		LABYRINTHS: INTERSTAGE					
27		TYPE MATERIAL					
28		BALANCE PISTON					
29	I —	TYPE MATERIAL					
30	<u>                                     </u>	SHAFT SEALS:					
31		SEAL TYPE (2.8.3) CONTACT OIL SEALS					
32	· · · · · · · · · · · · · · · · · · ·	PRESSURE, (BARG)     COMPRESSOR MAX WORKING PRESSURE					
33		O SPECIAL OPERATION (2.8.1)					
34	· · · — · · · · · · · · · · · · · · · ·	O SUPPLEMENTAL DEVICE REQUIRED FOR					
35	MAX DESIGN PRESS BARG	SEALS (2.8.3.2) TYPE					
36	TEST PRESS., (BARG) HYDRO	O BUFFER GAS SYSTEM REQUIRED (2.8.7) O MANIFOLD (3.5.1.6)					
37	MAX OPER. TEMP. 100 °C MIN. OPER. TEMP. 0 °C	O TYPE BUFFER GAS					
38	MAX NO. OF IMPELLERS FOR CASING	O BUFFER GAS CONTROL SYSTEM SCHEMATIC BY VENDOR					
39	MAX CASING CAPACITY (m³/h)	O PRESSURIZING GAS FOR SUBATMOSPHERIC SEALS (2.8.8)					
40	CASING SPLIT SEALING (2.2.10)	☐ TYPE SEAL					
41	O SYSTEM RELIEF VALVE SET PT. (2.2.4) BARG	☐ INNER OIL LEAKAGE GUAR. (I /DAY/SEAL)					
42	☐ DIAPHRAGMS:	BUFFER GAS REQUIRED FOR:					
43	MATERIAL	☐ AIR RUN-IN ☐ OTHER					
44	IMPELLERS:	☐ BUFFER GAS FLOW (PER SEAL):					
45	NUMBER OF IMPELLERS	NORM:kg/min @BAR D P					
46		MAX. kg/min @ BAR D P					
47		BEARING HOUSING CONSTRUCTION:					
48		TYPE (SEPARATE, INTEGRAL)  SEPARATE SPLIT HORIZONTAL					
49		MATERIAL					
50							
51	1						

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					JOB NOITEM NO					
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-	eustre	dili			DATA SHEET No.					
	CENTI	RIFUGAL CO	OMPRESSO	R	REVISION NO.		DATE			
		A SHEET (A			PAGE 5	OF 7	BY -			
		METRIC U					_			
1				CONSTRUCTIO	N FEATURES (CON	NTINUED)				
2	BEARINGS AND BE	ARING HOUSING	s		-	· · · · · · · · · · · · · · · · · · ·				
3	RADIAL		INLET	EXHAUST	THRUST			ACTIVE	INACTIVE	
4	☐ TYPE				☐ TYPE				!	
5	MANUFACTURE	R			MANUFACTU	RER	-			
6	LENGTH (mm)				1=	IG - MAX, (BAR)	-			
	SHAFT DIA. (mn	n)			I =	IG - ULT., (BAR)	-			
	UNIT LOAD (AC				AREA (mm²)	(= ::,	-			
	☐ BASE MATERIA	, , ,			□ NO. PADS		_			
	BABBIT THICKN				PIVOT: CENT	ER/OFFSET %	-			
	□ NO. PADS	iLoo (iliili)			☐ PAD BASE MA		_			
	LOAD: B'TWN/C	ON DAD			LUBRICATION:	O FLOODE	_ L	O DIRECTE		
	☐ PIVOT: CTR/OF				THRUST COLLAR:	_		O REPLACI		
	I=	-FSEI, %			1	: O INTEGRA	4L '	O REPLACI	EABLE	
14					MATERIAL			_		
15	BEARING SPAN	mm					(		ACHED API-670	
16	BEARING TEMPERA	ATURE DEVICES		ATTACHED	VIBRATION DETE	CTORS:	_	DATA SH	IEET	
17	O THERMISTORS		API	-670 DATA SHT	O TYP DS-1051	EEx	☐ MODE	EL DS-1051/	/03/040/050/3/1	
18	О түре	POS TEMP COE	FF NEC	3 TEMP COEFF	O MFR Brüel & Kjær (INSTALLATION TO EXISTING "COMPASS" SYS.)					
19	O TEMP SWIT	CH & INDICATOR	R BY: PUF	RCH MFR	O NO. AT EA SH	HAFT BEARING	2	ТОТ	AL NO. 4	
20	O THERMOCOUPL	_ES			O OSCILLATOR-DETECTORS SUPPLIED BY					
21	O SELECTOR	SWITCH & INDIC	. BY: PUF	RCH MFR	O MFR Brüel & Kjær MODEL OD 1051 EEx					
22	O RESISTANCE TI	EMP DETECTORS	3		MONITOR SUPPLIED BY (3.4.7.2) Compass					
23	O RESISTANO	CE MAT'L	0	OHMS	O LOCATION UCS ENCLOSURE					
24	O SELECTOR	SWITCH & INDIC	ATOR BY:		O MFR. Brüel & Kjær  MODEL					
25			PUF	RCH MFR	□ SCALE RANGE O ALARM □ SET @ µm					
26	O LOCATION-JOU	RNAL BRG			O SHUTDOWN SET @ µm O TIME DELAY 2 SEC					
27	NO.	EA PAD EVI	ERY OTH PAD	PER BRG						
28	OTHER				AXIAL POSITION DETECTOR: O SEE ATTACH. API-670					
29	O LOCATION-THR	UST BRG			DATA SHEET					
30	NO.	EA PAD EVI	ERY OTH PAD	PER BRG	O TYPE DS-	1051 EEx	П море	EL DS-1051/	/03/040/050/3/1	
31	OTHER				I	el & Kjær	O NO. R	EQUIRED	2	
32		EA PAD EVI	FRY OTH PAD	PER BRG		R-DEMODULATOR S			<u>-</u>	
33	· · · · · ·		LICE OTTER			rüel & Kjær	_	EL OD 1051	FFY	
	O MONITOR SUPF	PLIED BV (3.4.7.4)				IPPLIED BY (3.4.7.2		Compass	LLX	
35	l _	, ,	ENCLOSURE		D LOCATIO	,	· –	OSURE		
36	l _		MODEL			Brüel & Kjær		MODEL		
		ICE 🗆	_ LI MODEL   ALARM   SE1	°C	SCALE R				· @m	
37 38	_	N□ SET@	°C O TIME DE			OWN SET@	_	D TIME DE		
		<u>л П эет (ф</u>	C O HIME DE			ANN MOEI @	µm \	O THIVIE DE	LAI 4 SEC	
39		To.		CASING	CONNECTIONS		I -			
40		ODESIGN	ASME		0		0		<b> </b> ⊔	
41		APPROVAL	☐ API605			FLANGED		NG FLG	GAS	
42	CONNECTION	REQ'D	OTHERS	FACING	ORIENTATION	OR	& G/	ASKET	VELOCITY	
43			SIZE	☐ BORE		STUDDED	BYV	ENDOR	(m/s)	
44										
45	INLET									
46	DISCHARGE									
47										
48										
49										
50										
E1										

						JOB NO. ITEM NO.							
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,						DATA SHEET No.							
	CENTRIFUGAL			₹		REVISION NO. DATE							
	DATA SHEET	-	-			PAGE 6 OF 7 BY							
	METRIC  OTHER CONNECTIONS	, UNI	15			ALLOWARI E RIPINO FOROFO AND MOMENTO							
	SERVICE:	NO.	SIZE	TYPE		ALLOWABLE PIPING FORCES AND MOMENTS:  INLET DISCHARGE							
	LUBE-OIL INLET	1	DN40 PN6	ITPE		FORCE MOMT FORCE MOMT FORCE MOMT							
	LUBE OIL OUTLET	2	DN150 PN6			N N-m N N-m N N-m							
	SEAL-OIL INLET	2	DN40 PN100			AXIAL							
	SEAL-OIL OUTLET	2	DN40 PN100			VERTICAL							
	SEAL GAS INLET					HORIZ. 90 <sup>0</sup>							
	SEAL GAS OUTLET					FORCE MOMT FORCE MOMT FORCE MOMT							
	CASING DRAINS					N N-m N N-m N N-m							
10	STAGE DRAINS					AXIAL							
11	VENTS					VERTICAL							
12	COOLING WATER N.A.					HORIZ. 90°							
13	PRESSURE					O ACCELEROMETER(3.4.7.5) NEW INSTALLATION TO COMPR. NDE							
14	TEMPERATURE					O SEE ATTACHED API-670 DATA SHEET							
15	SOLVENT INJECTION					O TYPE Accelerometer							
16	PURGE FOR:					O MFR Brüel & Kjær NO. REQUIRED 3							
17	BRG. HOUSING					O LOCATION <u>VERTICAL/HORIZONTAL/AXIAL</u>							
18	BTWN BRG & SEAL AIR					O OSCILATOR-DEMODULATORS SUPPLIED components which are necessary: dete							
19	BTWN SEAL & GAS GAS					MFR , cabling, vibrational module							
	O INDIVIDUAL STAGE DRAINS	REQUIF	RED (2.4.3.2)			O MONITOR SUPPLIED BY (3.4.7.6)							
	O VALVED & BLINDED					O LOCATION UCS ENCLOSURE co B & K ltd.							
	O VALVED & BLINDED & MANIF	OLD				O MFR Brüel & Kjær							
	KEY PHASOR REQUIRED					SCALE RANGE O ALARM SET @ mm/s²							
	O COMPRESSOR O GEAR	O DE	RIVER			O SHUTDOWN SET @mm/s² O TIME DELAY 2 SEC							
25					А	ACCESSORIES							
	COUPLING AND GUARDS (3.2)												
	NOTE: SEE ROTATING ELEMENT			# E00 LD#DE		10 O 1/57/50							
	O SEE ATTACHED API-671 DAT COUPLING FURNISHED BY ČKI			LESS HYDF	RAULIG	IC O KEYED							
		) PRAH		TYI	DE	MODEL							
	COUPLING GUARD FURNISHED				-								
32				/II-OPEN		O OTHER							
	COUPLING DETAILS	LOULD	0 02.1	01 211		O VENDOR MOUNT HALF COUPLING							
34	l—				mm								
35	HUB WEIGHT				kg	O NON-LUBE O GREASE 3 CONT. OIL LUBE O OTHER							
36	☐ SPACER LENGTH				mm								
37	SPACER WEIGHT				kg								
38	MOUNTING PLATES					I .							
	O BASEPLATES: FURNISHED I	3Y (3.3.	1.1)			O SOLEPLATES: FURNISHED BY:							
	O COMPRESSOR (3.3.2.1)	` -	DRIVER	O GEAR		☐ THICKNESS mm							
41	O OTHER AS REQUIRI	ΞD				O SUBSOLE PLATES REQ'D (3.3.3.2)							
42	O DRIP TRIM O LEV	'ELING	PADS (3.3.2.2)	)		STAINLESS STEEL SHIM THICKNESS - (mm)							
43	O COLUMN MOUNTING (3.3.2.3	)				O DRIVER O GEAR O COMPRESSOR							
44	O SUB-SOLE PLATES REQ'D (3	.3.3.2)				O PRIMER FOR EPOXY GROUT REQ'D (3.3.1.2.9)							
45	STAINLESS STEEL SHIM THI	CKNES	S		mm	TYPE							
46	O PRIMER FOR EPOXY GROUT	REQ'D	(3.3.1.2.9)										
47	TYPE												
48	l <u> </u>												
	O BASE PLATE WILL BE ON CO			ON (3.3.2.5)									
	O MACHINED MOUNTING PADS	REQ'D	0. (3.3.2.6)										
51													

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	CENTRIFUGAL COMPRESSOR							
	DATA SHEET (API 617-6TH)		PAGE7 OFBY					
	METRIC UNITS							
1			UTILITIES					
2	O UTILITY CONDITIONS: N. A.		☐ TOTAL UTILITY CONSUMPTION:					
3			COOLING WATERm³/					
4	INLET MIN BARG °C BARG	°C	STEAM, NORMAL kg/					
5	NORM BARG °C BARG	°C	STEAM, MAX kg/					
6 7	MAX BARG °C BARG	_ °C		m³/h				
8	EXHAUST. MIN BARG °C BARG  NORM BARG °C BARG	°C	HP (DRIVER) kW HP (AUXILIARIES) kW					
9	MAX BARG °C BARG	_ °C	HEATERS KW					
10				v n³/h				
	,	DOMAN		/				
11		DOWN	MISCELLANEOUS:					
12 13	VOLTAGE		RECOMMENDED STRAIGHT RUN OF PIPE DIAMETERS					
14	HERTZ		BEFORE SUCTION O NOMOGRAPHS REQUIRED FOR EACH SECTION (5.3.3.1.5)					
15	COOLING WATER:		O VENDOR'S REVIEW & COMMENTS ON PURCHASER'S					
16	TEMP. INLET °C MAX RETURN	°C	PIPING & FOUNDATION (3.5.3.2)					
17	PRESS NORM BARG	_	O COMPRESSOR TO BE SUITABLE FOR FIELD RUN IN					
18	DESIGN BARG		ON AIR (2.1.17)					
19	MIN RETURN BARG		O PROVISION FOR LIQUID INJECTION (2.1.11)					
20	MAX ALLOW D P BAR							
21	WATER SOURCE		O VENDOR'S REVIEW & COMMENTS ON PURCHASER'S					
22	INSTRUMENT AIR:		CONTROL SYSTEMS (3.4.1.1)					
23	MAX PRESS BARG. MIN PRESS B	ARG	O EXTENT OF PROCESS PIPING BY VENDOR (3.5.3.1)					
24	SHOP INSPECTION AND TESTS: (4.1.4) REQ'D.		O SHOP FITUP OF VENDOR PROCESS PIPING (4.4.3.11)					
25	CLEANLINES (4.2.1.5)		O WELDING HARDNESS TESTING (4.2.1.6)					
26	HYDROSTATIC O							
27	IMPELLER OVERSPEED		VENDOR'S REPRESENTATIVE SHALL (2.1.14)					
28	MECHANICAL RUN O		O OBSERVE FLANGE PARTING					
	O CONTRACT COUPLING O IDLING ADAPTORS		O CHECK ALIGNMENT AT TEMPERATURE					
30			O BE PRESENT AT INITIAL ALIGNMENT					
31	VARY LUBE & CONTROL OIL PRESSURES  OND TEMPEDATURES (4.2.4.2.5)		WEIGHTS (kg):					
	AND TEMPERATURES (4.3.4.2.5)		COMPR. GEAR DRIVER BASE					
	POLAR FORM VIB DATA (4.3.4.3.3)  TAPE RECORD VIB DATA (4.3.4.3.6)		ROTORS: COMPR. DRIVER GEAR					
	TAPE RECORD VIB DATA (4.3.4.3.6)  TAPE DATA TO PURCHASER (4.3.4.3.7)		COMPRESSOR UPPER CASE  SOUR SEAL OIL TRAPS					
	SHAFT END SEAL INSP (4.3.4.4.1)		L.O. CONSOLE S.O. CONSOLE					
37	GAS LEAK TEST DISCH PRESS (4.3.5.2)		OVERHEAD SEAL OIL TANKS					
38	O BEFORE O AFTER POST TEST INSPECTION (4.3.6.8)		MAX. FOR MAINTENANCE (IDENTIFY)					
	PERFORMANCE TEST(GAS)(AIR)(4.3.6.1)		TOTAL SHIPPING WEIGHT					
	COMPLETE UNIT TEST (4.3.6.2)							
41	TORSIONAL VIB MEAS (4.3.6.2)		SPACE REQUIREMENTS (mm):					
42	TANDEM TEST (4.3.6.3)		COMPLETE UNIT: L W H					
43	GEAR TEST (4.3.6.4)		L.O. CONSOLE: L W H					
44	HELIUM LEAK TEST (4.3.6.5)		S.O. CONSOLE: L W H					
45	SOUND LEVEL TEST (4.3.6.6)		SOUR SEAL OIL TRAPS					
	FULL LOAD/SPEED/PRESS TEST (4.3.6.9)		OVERHEAD SEAL OIL TANKS					
	HYDRAULIC COUPLING INSP (4.3.6.10)							
48	0		REMARKS:					
49	0							
50	0							
51	$\cup$		I					