

**IRANIAN PETROLEUM STANDARDS
A8-QUOTATION ANALYSIS REPORT TABLE
FOR CENTRIFUGAL COMPRESSORS**

ISSUE DATE ----- PAGE ----- OF----- REV. -----

PREP'D. ----- CHE'D.- ----- APP'D. -----

OPERATING CONDITION	DATA	QUOTATION ANALYSIS REPORT FOR CENTRIFUGAL COMPRESSOR	SITE CONDITION
GAS COMPRESSED:			PROJECT: ----- CLIENT: ----- LOCATION ----- UNIT No: ----- ITEM No: ----- SERVICE: -----
MOL. WGT. AT INTAKE.		REMARKS:	
INTAKE TEMP. °C			
ACTUAL DISCHARGE TEMP. °C			
INTAKE PRESSURE MPa(abs)			
DISCHARGE PRESSURE MPa(abs)			
CORROSION / EROSION CAUSED BY:			
CP CV VALUE: SUCTION / DISCHARGE			
MIN. Δ P BETWEEN STAGES MPa			
PRESSURE RATIO			
Z VALUE: SUCTION / DISCHARGE			
DIFFERENTIAL PRESS. MPa			
PRESSURE RATIO			
OTHERS			
RATED PER API (CAPACITY TOLERANCE - 0% BHP TOLERANCE +0%) kg.h, WET *----- INLET m³/h, (CORRECTED) *----- Nm³/h *-----			

DESCRIPTION (Spec.)	DATA	VENDOR'S PROPOSAL								
		A			B			C		
COMPRESSOR:										
MAUFACTURER:										
TYPE/ MODEL										
NO.OF STAGE										
ROTATION	<input type="checkbox"/> cw <input type="checkbox"/> ccw	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
COMP. SPEED MIN / RATED / MAX.	rpm	/	/	/	/	/	/	/	/	/
1 ST , 2 ND & 3 RD CRITICAL SPEED	LATRAL rpm TORSIONAL rpm									
CASE SPLIT	<input type="checkbox"/> RADIAL <input type="checkbox"/> AXIAL									
VARIABLE SPEED CHANGER	TYPE/ SF									
CYL.. BORE / STROK mm	/	/	/	/	/	/	/	/	/	/
PROCESS CONTROL:	<input type="checkbox"/> SUC. THRO. <input type="checkbox"/> DISH. THRO. <input type="checkbox"/> SPEED VAR. <input type="checkbox"/> COOLED BY-PASS <input type="checkbox"/> VAR.I.G.V. OTHERS:-----	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
NOZZLE: SUC. ; SIZE, RATING, FACE & LOC.										
NOZZLE: DIS. ; SIZE, RATING, FACE & LOC.										
EFF.AT RATED/ CAPACTTY	% @ m³/h									
CALCULATED POWER (All LOSSES INCLUDED):	RATED kW MAX. kW									
POLYT. HEAD/PLOYT. EFF.(AT RATED)										
GUARANTEE POINT:										
MAX.ALLOW. WORK. PRESS. TEMP.	MPa(ga) °C									
HYDRO. TEST PRESS.(at 15°C)	MPa(ga)									
OTHERS										
GEAR UNIT:										
MAUFACTURER										
SPEED REDUCER or INCREASER	TYPE/AGMA SF									
TYPE/ MODEL										
GEAR RATIO										
OTHERS:										
DRIVER:										
MAUFACTURER										
TYPE	<input type="checkbox"/> Elect. <input type="checkbox"/> Gas Turbine <input type="checkbox"/> Engine <input type="checkbox"/> Steam Turbine	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
MODEL										
1 ST , 2 ND & 3 RD CRITICAL SPEED										
SPEED										
POWER	kW									
OTHERS:										
	MPa(ga)									
IMPELLERS:										
IMPELLER TYPE	<input type="checkbox"/> OPEN <input type="checkbox"/> CLOSE <input type="checkbox"/> S.SUCTION <input type="checkbox"/> D.SUCTION	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
IMPELLERS STRUCTURE	<input type="checkbox"/> MULTI-PIECE <input type="checkbox"/> WELDING <input type="checkbox"/> ONE PIECE <input type="checkbox"/> BRAZING <input type="checkbox"/> OTHERS	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A

**IRANIAN PETROLEUM STANDARDS
A8-QUOTATION ANALYSIS REPORT TABLE
FOR CENTRIFUGAL COMPRESSORS
(CONTINUED)**

DESCRIPTION (Spec.)	DATA	VENDOR'S PROPOSAL								
		A			B			C		
IMPELLER DIA.: M1N. / MAX. RATED	mm mm	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
SHAFT END SEAL										
TYPE:	<input type="radio"/> DRY GAS <input type="radio"/> OIL FILM <input type="radio"/> MECHANICA L	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
SEAL OIL TANK	<input type="radio"/> COMMON WITH LUB. OIL TANK <input type="radio"/> SEPERATE	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
INNER OIL LEAKAGE: RATED / MAX.										
BEARINGS & LUBRICATION SYSTEM:										
LUB. & SEAL OIL SYSTEM	<input type="radio"/> IPS-M-PM-320 <input type="radio"/> OTHER	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
MAIN. OIL PUMP: DRIVER	<input type="radio"/> MAIN DRIVE GEAR <input type="radio"/> ELECT.MOTOR	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
AUX. OIL PUMP: DRIVER	<input type="radio"/> AC ELEC. MOTOR <input type="radio"/> DC ELEC. MOTOR	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
LUB OIL TANK	<input type="radio"/> COMMON WITH DRIVER <input type="radio"/> SEPERATE	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
BEARING TYPE:	<input type="radio"/> HYD.DYNAMIC <input type="radio"/> MAGNETIC	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
BEARING HOUSING FEATURE	<input type="radio"/> HOZ.SPLIT <input type="radio"/> AXI.SPLIT	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
MAX. THRUST LOAD										
THRUST COLLAR	<input type="radio"/> INTEGRAL <input type="radio"/> REPLACEABLE	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
BEARING TEMP. DEVICES	<input type="checkbox"/> THERMOCOUPLE <input type="checkbox"/> RTD	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
NO.PER BRG. (RADIAL / THRUST)										
OTHERS:										
COUPLING:										
COUPLING WITH GUARD :	<input type="radio"/> GEAR <input type="radio"/> DISC TYPE TYPE <input type="radio"/> NON-SPARK GUARD	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
MFR./ MODEL NO.										
OTHERS:										
CONTROL:										
CONTROL SYSTEM	<input type="radio"/> ELECTRONIC <input type="radio"/> PLC <input type="radio"/> DCS <input type="radio"/> OTHERS -----	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
LOCAL PANEL	<input type="radio"/> REQUIRED <input type="radio"/> NOT REQ'D.	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
VIB.DETETION	<input type="radio"/> REQUIRED <input type="radio"/> NOT REQ'D.	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
NO.PER BRG.	<input type="radio"/> REQUIRED <input type="radio"/> NOT REQ'D.	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
AXIAL POS. DETECTION	<input type="radio"/> REQUIRED <input type="radio"/> NOT REQ'D.	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
NO.PER BRG.	<input type="radio"/> REQUIRED <input type="radio"/> NOT REQ'D.	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
BALANCE REF. INDICATOR (PHASE ANGLE)	<input type="radio"/> REQUIRED <input type="radio"/> NOT REQ'D.									
ANTISURGE SYSTEM	<input type="radio"/> REQUIRED <input type="radio"/> NOT REQ'D.	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
OTHERS:										
BASEPLATE:										
TYPE:	<input type="radio"/> COMMON <input type="radio"/> STEEL FABR. <input type="radio"/> HEAVY- DUTY	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
AIR VENT HOLES	<input type="radio"/> REQUIRED <input type="radio"/> NOT REQUIRED	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
DRAIN CONNECTION	<input type="radio"/> REQUIRED <input type="radio"/> NOT REQUIRED	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
ANCHOR BOLTS	<input type="radio"/> REQUIRED <input type="radio"/> NOT REQUIRED	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
OTHERS:										
NOISE:										
STANDARD LEVEL	MAX. db(abs.)									
MATERIALS:										
CASING / IMPLLER	/				/			/		
SHAFT/ SHAFT SLEEVE	/				/			/		
LABYRINTH	/				/			/		
OTHERS:	/ /				/ /			/ /		
	/				/			/		
ACCESSORIES:										
SUC. / DIS. SNUBBER	<input type="radio"/> REQUIRED <input type="radio"/> NOT REQ'D.	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
INTER STAGE PIPING / RELIEF VALVE	<input type="radio"/> REQUIRED <input type="radio"/> NOT REQ'D.	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
SEPARATE MOISTURE WITH TRAPS	<input type="radio"/> REQUIRED <input type="radio"/> NOT REQ'D.	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
INTER CONNECTING AUX. PIPING	<input type="radio"/> REQUIRED <input type="radio"/> NOT REQ'D.	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
INTER/AFTER COOLER		<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
ANCHOR BOLT		<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
SPECIAL / TOOLS WITH BOXES	<input type="radio"/> REQUIRED <input type="radio"/> NOT REQ'D.	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
COMMISSIONING SPARE PARTS	<input type="radio"/> REQUIRED <input type="radio"/> NOT REQ'D.	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
TWO YEARS SPARE PARTS	<input type="radio"/> REQUIRED <input type="radio"/> NOT REQ'D.	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO	<input type="radio"/> N/A
OTHER ACCESSORIES REQ'D. :										
DEVIATIONS / EXCEPTION.										
COMMENTS / REMARK										

**IRANIAN PETROLEUM STANDARDS
A8-QUOTATION ANALYSIS REPORT TABLE
FOR CENTRIFUGAL COMPRESSORS
(CONTINUED)**

DESCRIPTION (Spec.)	DATA	VENDOR'S PROPOSAL		
		A	B	C
TEST AND INSPECTION				
EVALUATION RANKING	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D			
TOTAL PRICE	IN USD \$			
COST OF COMMISSIONING SPARE PARTS	IN USD \$			
COST OF TWO YEARS SPARE PARTS	IN USD \$			
DELIVERY (EX. FACTORY)				
REMARKS:				
COMMENTS:				