


شماره صفحه از ۱۱	مدارک اضافه شده به اسناد مناقصه دو مرحله‌ای خرید یک دستگاه کروماتوگرافی گازی آنلاین	 شرکت ملی پتروشیمی شرکت پتروشیمی و فناوری
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1- Purchase Order

1 Special On-line GC Instruments for HDPP Pilot as Below:

Configured so that be able to separate and analyze below components in percent range:
Hydrogen, Ethylene, Propylene and 1-Butene every 180 seconds and report mole percentage of each compound and their ratio to the Hydrogen.


Common Requirements for all instruments:

- *Voltage: 220 volt (universal)
- *PC system with latest version of original MS operating system with color laser printer
- *latest version of Original Software in Order to control GC and analyze results
- * Five years spare parts
- * 2 year guaranty & 10 years warranty
- * Training course for 2 people

Technical Data Sheet

Item No	TECHNICAL FEATURES	DESCRIPTION
1	Component to be Analyzed:	H ₂ , C ₂ H ₄ , C ₃ H ₆ , 1-Butene, 1-Hexene, 1-Octene, C ₂ H ₆
2	Concentration Level:	Percentage
3	Water	No <input checked="" type="checkbox"/> Yes <input type="checkbox"/>
4	No. of Sample Points:	5 (Reactor: 3, Feed: 2)
5	Analyzer	3 Channels (analyzing 3 separate points simultaneously)
6	Temperature:	Inlet: Ambient, Outlet: 65 °C
7	Pressure:	Inlet: 9bar, Outlet: 8.5bar
8	Line Diameter:	Tube 1/8"
9	The distance of Sample Point to the Analyzer:	30 m
10	The Elevation of Sample Point:	Second floor, 6 m
11	Sample Point Zone:	Ex. Zone 1
12	Analyzer Room Zone:	Zone 2
13	Ability to Transfer Data to the PLC:	No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>
14	Electrical data	220 V, 50 Hz

Additional Accessories: Cabling and run the Cable Tray

شماره صفحه ۱۱ از ۲	مدارک اضافه شده به اسناد مناقصه دو مرحله‌ای خرید یک دستگاه کروماتوگرافی گازی آنلاین	 شرکت ملی پتروشیمی شرکت پتروشیمی و فناوری
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Sample Requirement Specification

A) Sample information

Sample type:							
Sample Type	Real (Calibration, Validation, Real sample)						
Sample Description	Ethylene Polymerization Reactor Analysis (for example Naphtha)						
Sample state	Gas (Gas or Liquid)						
Sample Temperature at site	80-85 °C						
Sample Pressure at site	6-9 Bar						
Max Runtime	On-line						
Max cycle Time	3 Min						
Fill in details in case of specific component analysis							
#	Component Or Group	Critical Comp.	Concentration		LOD	Unit of Measurement (wt%, vol%, ppm, ppb, etc.)	Quantitation (yes or no)
			Min.	Max.			
01	Hydrogen		0	60		mol %	Yes
02	Ethylene		0	100		mol %	Yes
03	Ethan		trace	trace		mol %	Yes
04	Propylene		0	100		mol %	Yes
05	1-Butene		0	30		mol %	Yes
06	1-Hexene		0	30		mol %	Yes
07	1-Octene		0	30		mol %	Yes
<u>Additional Information:</u>							

Does this sample contain:	No	Yes	Describe
Corrosives	*		
Moisture/Water	*		
Particulates	*		
Oils/Heavies	*		
Precipitates	*		
Oligomers, Polymers	*		

خوانده شده و مورد تایید است

شماره صفحه ۱۱ از ۳	مدارک اضافه شده به اسناد مناقصه دو مرحله‌ای خرید یک دستگاه کروماتوگرافی گازی آنلاین	 شرکت پارسین پتروشیمی شرکت پتروشیمی و فناوری
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2- Additional Technical Information

Item No	TECHNICAL FEATURES	DESCRIPTION
1	Minimum Range	0-500 ppm
2	Repeatability	±1 % of full scale from 0.05-2 % ±0.5 % of full scale from 2-100 %
3	Linearity	±2 % of full scale
4	Oven Temp. Range	5-330 °C
5	Temp. Control	±0.05 °F (±0.02 °C)
6	Electronic Pressure Resolution	0.001 psig
7	Cycle Time	180 sec
8	Serial output	RS232, RS435
9	Ethernet	Standard Four 10/100 Base T Ethernet connection with Rj45 connectors autosense and auto-negotiato
10	Standard I/O	2 analog outputs, 4 digital outputs, 4 digital inputs
11	Board Slots for Optional I/O	Up to 2
12	Controlling Sysrem	Capability to control with PLC (dara transferring)
13	Sample Flow	50-200 cc/min
14	Sample Filtration	0.1 µm
15	Minimum Sample Pressure	5 psig
16	Maximum Sample Pressure	75 psig
17	Maximum Sample Temp.	121 °C
18	Material In Contact with Sample	Stainless steel, teflon and polyimide
19	Configuration	Single unit with multiple enclosures
20	Data Analysis & Report	Percentage of each component and their ratio to each other
21	Pressure & Flow Controlers	Internal Auto-Calibrated
22	No. of Detectors	At least 3 Detectors for 3 Channels
23	Detector Range	Auto-Scale
24	Sampling	Online (5 points)