

Document Title: Technical / Commercial Quotation Form

Document Code: Q-FR-MS-071/02

Customer: Adish

5/18/2025 Date:

CEMS Analyzer system- Power plant Customer Ref NO:

CR.03.098 **PSQ Qutation NO:**

TO.03.098.04 Technical Offer.NO:

Commercial Offer.NO:

We Thank You For Your Request For Quotation And Are Pleased To Submit Our Proposal Supporting With Product Information.

We Trust Our Offer Suits Your Requirements And Expectation And Are At Your Service For Any Information.

Best Regards,

Managing Director / Commercial Manager / Sales Expert

	TECHNICAL DEPARTMENT	COMMERCIAL DEPARTMENT			
Issued By:	H.Rouhani	Issued By:			
Confirmed by:	H.Rouhani	Confirmed by:			
Date:	5/18/2025	Date:			

Pira	EM QESH	HM HM		t Title: Technical / Comme t Code: Q-FR-MS-071/02	Siai Quotation F	0.711						
	ner Name					Customer Ref NO:		CEMS Analyz Power plant	er system-	Date:	5/18/202	
SQ Qu	itation No	0:	CR.03.098			Technical Offer NO	D:	TO.03.098.04	1			
Item												
	Tag	(s) No	Stre	am Tag(s) Number	Measuring Component(s)	Measuring Range	Take-Off Temperature (°C)	Take-Off Pressure (mbarg)	Water Dewpoint (°C)	HC Dewpoint (°C)	Sample Phase	
1/0	AT-54	AT-545-0001		AE-545-0001	O2 CO SO2 CO2 NOx	0 ~ 25% 0 ~ 500 ppm 0 ~ 500 ppm 0 ~ 25% 0 ~ 500 mg/Nm3 0 ~ 23,000 kg/h	Opr.: 457 °C Design: 700 °C	30~50	20	-	Vapor	
			Client Haz	ardus Area Classification .	:		Zone 2, Grou	ıp IIB, T3				
1/1	Note	Rev	4 set		Heated Sample P	robe						
				Type: Set Point:		Electronic Temper	ature Controller					
					With Low Temper 230 VAC	ature Alarm						
				Filter Element Porosity:								
				-	Zone 2, Group IIB,	Т3						
					Tie-in Connection							
				Connection Type:	Flange 4" Flanged , 300#							
				Material:	_							
					Insertion Tube							
				Insertion Tube Length:	500 mm							
				Material:	Hastelloy							
1/2	Note	Rev	4 set		Heated Sample To	ransfer Line						
					Specification Self Regulated He	ated Line						
				Set Point:		ateu Lille						
				Material:								
				Thermal Insulation:	Corrugated							
				Power:	230 VAC							
				Size or Rating:	1/4" OD							
				Length: Stream #1:	70m							
				Stream #2:								
				Stream #3:								
				Stream #4:	49m							
				Marking:	Zone 2, Group IIB,	T3						
1/3	Note	Rev	1 set		Heat Trace for Sa	mpling System						
					Specification Heat Trace							
				Set Point:								
				Length:								
				Marking:	Suitable for Safe A	Area						
1/4	Note	Rev	1 set		Sample Handling	System						
			4 ^	Sampling Accessories	room Cruitali !				Size or Rating	Material		
				Way Solenoid Valve for Str article Filter	eam Switching				AISI 316L	1/4" 1/4"		
				ectrical Sample Cooler (Tw	o Heat Exchanger	+ Two Prestaltic P	umps		AISI 316L	1/4"		
				aphragm Pump for Sample			•		-	1/4"		
			1 Ne	eedle Valve					AISI 316L	1/4"		
				ariable Area Flowmeter wi					AISI 316L/Glass	1/4"		
				oisture Filter + Moisture S					-	1/4"		
				Way Solenoid Valve for Au embrane Filter	ito Calibration				AISI 316L AISI 316L	1/4" 1/4"		

Piramoon	_	Document Title: Technical / Commercial Quotation Form									
SYSTEM QESHM پیرامون سیستم قشم	D	Occument Code: Q-FR-MS-071/02									
Customer Name:		Adish		Customer Ref NO:	CEMS Analyz Power plant		Date:	5/18/2025			
PSQ Qutation NO:		CR.03.09	98	Technical Offer NO:	TO.03.098.04	1					
Item											
		1	Variable Area Flowmeter wi	th Needle Valve +FLA + Barrier		AISI 316L/Glass	1/4"				
		1	Pressure Gauge (dial size 10	0-mm)		AISI 316L/Glass	1/4"				
		1	Humidity and temperature t	transmitters		-	1/4"				
		1	Temperature Gauge for Cabi	inet (dial size 60-mm)		AISI 316L	1/4"				
		2	2-Way Ball Valve			AISI 316L	1/4"				
				Internal Tubing and Fitting							
			Size or Rating:	1/4" OD , 1/2" OD							
			Material:	AISI 316L / PTFE							
1/5 Note R	Rev	1 set		Gas Analyser							
			Manufacturer:	ABB							
			Model:	EL3040							
				Technical Specification for Analyser							
			Principle:	NDIR + Paramagnetic							
			Modules:	Uras26 + Magnos 28							
	M	1easurii	ng Components & Ranges:								
				CO: 0~500 ppm							
				SO2: 0~500 ppm							
				CO2: 0~25%							
				NO: 0~500 mg/Nm3							
				O2: 0~25%							
			Ambient Temperature:								
			Linearity Deviation:	·							
			Repeatability:	≤ 0.5 % of span							
			Linearity error:	≤ 0.5 % of span							
			Zero Drift:	≤ 1 % of span per week							
			Sensitivity Drift:	≤ 1 % of measured value per week							
			Warm-up Time:	Approx. 30 minutes without thermostat							
			90% Response Time:	T90 = 2.5 sec for measurement cell length = 175 mm							
			Inlet Pressure:	pe = 2–500 hPa							
			Power Supply:	230VAC, 50Hz							
				Wall mount / IP65							
			Flow Rate:								
				4xDO-Contact load rating 30V/1A							
			- ,	• •							
			• .	4xAO Set for each component.							
				Modbus module with RS485							
			Marking:	Suitable for Safe Area							
			Importatnt Note:	Based on your request, the paramagnetic module (M	lagnos 28) has	s been included in	n the technical o	ffer.			
				Please note that the AZ30 oxygen analyzer (zirconium	n oxide cell) h	ad already been i	ncluded in the o	ffer.			
				Currently, oxygen (O_2) is being measured simultaneous	usly by both a	analyzers.					
1/6 Note R	Rev	1 set		Calibration Accessories Regulating System							
		4	· -	with Inlet and Outlet Gauges							
				Cylinders	Size	Material					
			Span Gas Cylinder	CO2. 09/400 CO2. 0:-200/ NT	10 lit.	AI / CS					
				om, SO2: 0~400 ppm, CO2: 0~20%, NOx: 0~400 mg/N		A1 / CC					
			Calibration Gas Cylinder for	ALOU	40 lit.	Al / CS					
			Zero Gas Cylinder Composition: Pure Nitrogen	(N2: 99 999%)	10 lit.	AI / CS					
1/7 Note Re	ev.4	4 set		O2 Analyser	OPTIONAL						
,			Manufacturer:		C. HOHAL						
			Model:								
			Wiodel.	Technical Specification for Probe							
			Principle:	Zirconium Oxide							
			Insertion Length:								
			_	Manual Calibration							
				Flange, ANSI 4 in 150							
				Yes, 150# to 300#							
			Hazardous Area :	Ex db IIB +H2 T4 Gb (Ta –20 °C to 70 °C)							
			Test Gas Response Time:	T9 0 < 10 seconds							
			System Accuracy:	T9 0 < 10 seconds							
			Ambient Temperature:								
			•	Transmitter: –20 to 55 °C							

Pica	moc	on.		nt Title: Technical / Comm	ercial Quotation Form			
SYSTE تم قشم	M QESH مون سیست	M. پیرا	Docume	nt Code: Q-FR-MS-071/02		05146 :		
Custom	er Name	:	Adish		Customer Ref NO:	CEMS Analyzer system- Power plant	Date:	5/18/2025
SQ Qu	tation NO) :	CR.03.09	98	Technical Offer NO:	TO.03.098.04		
ltem								
				Ingress Protection:	Probe: IP66 and NEMA 4X			
					Electronics enclosures: IP66			
				Probe Body Material:				
				<u>-</u>	All probe lengths –20 to 800 °C			
				Operating Requirements:				
					Reference Air (1 bar)			
					Test Gases (air is recommended)			
				Hannada va Anan .	Transmitter Specification			
					Ex db IIB +H2 T6 Gb (Ta –20°C to 55°C)			
					graphical 128 x 64 pixel LCD			
				Display Backlight:				
					1 isolated current output			
				Languages:				
				Special Cable (Stream #1):				
				Special Cable (Stream #2):				
				Special Cable (Stream #3):				
1 /0	Net	De		Special Cable (Stream #4):				
1/8	Note	Rev	4 set	Model	Flow Meter on Stack AccuFlo®QAL			
				Manufacturer:				
					Probe Specification			
				Size and rating:				
				Flange Adaptor:	Yes, 150# to 300#			
				Principle:	Differential Pressure			
				Temperature Sensor:	Integrated temperature measurement: Pt100			
				Insertion Length:	780mm			
				MediumTemperature:	·			
				AmbienteTemperature				
				_	115/230 V AC			
				Evaluation electronics:	Other Accessories			
					Integrated temperature measurement: Pt100			
					5-Way Manifold			
					ACCU340 Pressure transmitter / Suitable for Zone	e 2, Group IIB, T3		
					Pressure transmitter series P121 / Suitable for Zo	one 2, Group IIB, T3		
					AccuMind® - Flow computer / Suitable for Safe A	rea		
					Amplifier AD-TV 22 GL			
1/9	Note	Rev	1 set		Analyser Cabinet Enclosure			
				Туре:	Cabinet			
				Dimensions:	2300(H) * 1500(W) * 1000 (D)			
				Material:				
				Ingress Protection:				
				Painted: Base Frame:				
					Air Conditioning			
					Split Air Conditioner with Heating and Cooling M	ode		
				Power Supply:				
				Marking:	Zone 2, Group IIB, T3 Purging Facilities			
			1		Purge Control Unit Suitable for Zone 2, Group IIB,	, T3		
			1		Ball Valve	•		
			1		Air Filter Pressure Regulator with Outlet Gauge			
				*	The analyzer cabinet will be purged according to	NFPA 496 / ATEX 2014/34/EU.		
					The whole cabinet of the analyzer will be certifie	d by a notified body.		
	Optional				Safety Facilities			
C			1		Yellow Flashing			
C			1		Red Flashing			
C			1		Horn			
C			1		Reset and Acknowledge button			
Ċ			-		Smoke Detector			
C			1		SHOKE DELECTOR			
ć					LEL Gas Detector			
	Note	Rev	1					
	Note	Rev	1 1 1 set	Electrical Items	LEL Gas Detector Electrical Accessories			
1/10	Note	Rev	1 1 1 set	Power Isolation Switch :	LEL Gas Detector Electrical Accessories Power Isolation Switch Exd IIB For N-UPS include			
	Note	Rev	1 1 1 set	Power Isolation Switch :	LEL Gas Detector Electrical Accessories	(C.B., Terminals, Rotary switch)		

		Document Title: Technical / Commercial Quotation Form									
Document Code: Q-FR-MS-071/02											
Adish		Custon	ner Ref NO:	CEMS Analyzer system- Power plant	Date:	5/18/202					
CR.03.098		Techni	cal Offer NO:	TO.03.098.04							
4	200.	Power Distribution Panel	Sheet steel For UPS	(CBs, Relay Contact, Power							
1	PDF:										
1	JB:	Signal JB Exe IIC Stainless	steel 316								
1	JB:	Alarm JB Exe IIC Stainless	steel 316								
1	JB:	&G JB Exe IIC Stainless st	eel 316								
2	JB:	Heated JB Exe IIC Stainless	steel 316								
2	JB:	Sample Probe Alarm Exe I	IC Stainless steel 316	5							
1	JB:	Modbus JB Exe IIC Stainle	ss steel 316								
2	JB:	low JB Exe IIC Stainless st	teel 316								
1	Lighting :	ighting Exed IIC									
1	Door Switch :	Door Switch Exde IIC									
1	Temperature switch :	Cabient temperature swit	ch Ex								
1	PLC :	PLC S7 1200 (CPU+ I/O ca	rd) for stream switch	ning and F&G logic located in UPS PDF)						
1	Converter:	Modbus RS485 to TCP/IP	Converter								
1	Data logger :	Data logger with GPRS mo	dem for direct data	transmission (Sim Card by Client)							
		With Web Base software									
	Cables										
70m	RTD Cable:	RTD Cable for sample pro	be								
63m	RTD Cable:	RTD Cable for sample pro	be								
56m	RTD Cable:	RTD Cable for sample pro	be								
49m	RTD Cable:	RTD Cable for sample pro	be								
70m	RTD Cable:	RTD Cable for flow meter									
63m	RTD Cable:	RTD Cable for flow meter									
56m	RTD Cable:	RTD Cable for flow meter									
49m	RTD Cable:	RTD Cable for flow meter									
70m	Power Cable:	Armoured power cable fo	r sample probe								
63m	Power Cable:	Armoured power cable fo	r sample probe								
56m	Power Cable:	Armoured power cable fo	r sample probe								
49m	Power Cable:	Armoured power cable fo	r sample probe								
70m	Instrument Cable:	Armoured Instrument Cal	ole for flow meter								
63m	Instrument Cable:	Armoured Instrument Cal	ole for flow meter								
56m	Instrument Cable:	Armoured Instrument Cal	ole for flow meter								
49m	Instrument Cable:	Armoured Instrument Cal	ole for flow meter								
	CR.03.098 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 70m 63m 56m 49m 70m 63m 56m 49m 70m 63m 56m 49m 70m 63m 56m	CR.03.098 1	CR.03.098 Technic 1 PDP: Power Distribution Panel Supply, Barier, Terminal, 1 JB: Signal JB Exe IIC Stainless II JB: Alarm JB Exe IIC Stainless II JB: F&G JB Exe IIC Stainless II JB: F&G JB Exe IIC Stainless II JB: Fow JB Exe IIC Stainless II JB: Heated JB Exe IIC Stainless II JB: Modbus JB Exe IIC Stainless II JB: Modbus JB Exe IIC Stainless II JB: Flow JB Exe IIC Stainless II Lighting: Lighting Exed IIC II Door Switch: Door Switch Exde IIC II Door Switch: Door Switch Exde IIC II Door Switch: Cabient temperature swit II PLC: PLC S7 1200 (CPU+ I/O ca II Converter: Modbus RS485 to TCP/IP II Data logger: Data logger with GPRS mowell With Web Base software Cables 70m RTD Cable: RTD Cable for sample prower Cable For RTD Cable for sample prower Cable: RTD Cable for sample prower Cable: RTD Cable for flow meter RTD Cable: Armoured power cable for Power Cable: Armoured power cable for Instrument Cable: Armoured Instrument Cable Instrument Cable: Armoured	Technical Offer NO: PDP: Supply,Barier, Terminal,) I JB: Signal JB Exe IIC Stainless steel 316 JB: F&G JB Exe IIC Stainless steel 316 JB: F&G JB Exe IIC Stainless steel 316 JB: Sample Probe Alarm Exe IIC Stainless steel 316 JB: Modbus JB Exe IIC Stainless steel 316 JB: Flow JB Exe IIC Stainless steel 316 Toor Switch: Door Switch Exde IIC Temperature switch: Cabient temperature switch Ex PLC: PLC ST 1200 (CPU+ I/O card) for stream switch Converter: Modbus RS485 to TCP/IP Converter Data logger: Data logger with GPRS modem for direct data With Web Base software Cables Tom RTD Cable: RTD Cable for sample probe RTD Cable: RTD Cable for flow meter RTD Cable: Armoured power cable for sample probe Armoured power cable for sample probe Instrument Cable: Armoured Instrument Cable for flow meter Instrument Cable: Armoured Instrument Cable for flow meter	Customer Ref NO: Power plant CR.03.098 Technical Offer NO: TO.03.098.04 POP: Supply,Barier, Terminal,) JB: Signal JB Exe IIC Stainless steel 316 JB: Alarm JB Exe IIC Stainless steel 316 JB: F&G JB Exe IIC Stainless steel 316 JB: F&G JB Exe IIC Stainless steel 316 JB: Beated JB Exe IIC Stainless steel 316 JB: Modbus JB Exe IIC Stainless steel 316 JB: Modb	CR.03.098 Technical Offer NO: TO.03.098.04 1					

Deleted.

	Tag(s) No	Stream Tag(s) Number	Measuring Component(s)	Measuring Range	Take-Off Temperature (°C)	Take-Off Pressure (mbarg)	Water Dewpoint (°C)	HC Dewpoint (°C)	Sample Phase
2/0	AT-545-0001	AE-545-0001	O2 CO SO2 CO2 NOx	0 ~ 25% 0 ~ 500 ppm 0 ~ 500 ppm 0 ~ 25% 0 ~ 500 mg/Nm 0 ~ 23,000 kg/h	Opr.: 457 °C Design: 700 °C	30~50	20		Vapor
		Client Hazardus Area Classification	:		Zone 2, Gro	ıp IIB, T3			

2/1 Note Rev 3 set Heated Sample Probe

Specification

Type: Heatd Probe with Electronic Temperature Controller

Set Point: 180 °C

 $\textbf{\textit{Alarm:}} \ \ \text{With Low Temperature Alarm}$

 $\textbf{\textit{Power:}} \ \ 230 \ \text{VAC}$ $\textbf{\textit{Filter Element Porosity:}} \ \ 2 \ \mu$

			Document Title: Technical / Commercial Quotation Form								
SYSTEM QESHM put Docume		HM پیرا،	Document Code: Q-FR-MS-071/0								
ustom	ier Name	::	Adish	Customer Ref NO:	CEMS Analyzer system- Power plant	Date: 5/18/202					
Q Qu	tation N	0:	CR.03.098	Technical Offer NO:	TO.03.098.04						
tem											
			Markin	g: Zone 2, Group IIB, T3							
				Tie-in Connection							
			Connection Typ	-							
				g: 4" Flanged , 300#							
			IVIateri	il: SST 316							
			Incortion Tube Lengt	Insertion Tube							
			Insertion Tube Lengt	n: 300 mm							
2/2	Note		3 set	Heated Sample Transfer Line							
_, _	Note		3 300	Specification							
			Tvo	e: Self Regulated Heated Line							
				t: 120°C							
				il: AISI 316L							
			Thermal Insulation	n: Corrugated							
				r: 230 VAC							
			Size or Ratin	g: 1/4" OD							
			Lengt	h:							
			Stream #	5 : 42m							
			Stream #	6: 35m							
			Stream #	7: 28m							
			Markin	g: Zone 2, Group IIB, T3							
2/3	Note	Rev	1 set	Heat Trace for Sampling System							
				Specification							
			Тур	e: Heat Trace							
			Set Poir	<i>t:</i> 120°C							
			Lengt	h: 15m							
			Markin	g: Suitable for Safe Area							
2/4	Note	Rev	1 set	Sample Handling System							
			Sampling Accessories		Size or Rating	Material					
			3 3-Way Solenoid Valve for	Stream Switching	AISI 316L	1/4"					
			1 Particle Filter		AISI 316L	1/4"					
			·	Two Heat Exchanger) + Two Prestaltic Pumps	-	1/4"					
			1 Diaphragm Pump for Sar	npie Cooler	-	1/4"					
			1 Needle Valve1 Variable Area Flowmeter	with Needle Valve	AISI 316L	1/4"					
			1 Variable Area Flowmeter1 Moisture Filter + Moistur		AISI 316L/Glass	•					
					-	1/4"					
			3-Way Solenoid Valve forMembrane Filter	Auto Cambration	AISI 316L	1/4"					
			1 NOx Convertor		AISI 316L	1/4"					
				with Needle Valve +FLA + Barrier	AICL 24 CL /CL	1/4"					
			variable Area Flowmeter Pressure Gauge (dial size		AISI 316L/Glass						
			Humidity and temperatu		AISI 316L/Glass	1/4"					
			Temperature Gauge for C		- AISI 316L	1/4"					
			2 2-Way Ball Valve	,	AISI 316L AISI 316L	1/4"					
			,	Internal Tubing and Fitting	WISI STOF	1/ **					
			Size or Ratin	g: 1/4" OD , 1/2" OD							
				il: AISI 316L / PTFE							
2/5	Note	Rev	1 set	Gas Analyser							
			Manufacture								
			Mod	el: EL3040							
				Technical Specification for Analyser							
				: NDIR + Paramagnetic							
				s: Uras26 + Magnos 28							
			Measuring Components & Range								
				CO: 0~500 ppm							
				SO2: 0~500 ppm							
				CO2: 0~25%							
				NO: 0~500 mg/Nm3							
				02: 0~25%							
			Ambient Temperatu								
			Linearity Deviatio								
			Repeatabilit	y: ≤ 0.5 % of span							

			Docum	ocument Title: Technical / Commercial Quotation Form								
Pira SYSTE	M QESH امون سیسا	IM پيرا	Docum	ent Code: Q-FR-MS-071/02								
Custom	er Name:	:	Adish		Customer Ref NO:	CEMS Analyzei Power plant	system-	Date:	5/18/2025			
SQ Qu	tation NC):	CR.03.0	98	Technical Offer NO:	O.03.098.04						
Item												
				Zero Drift:	≤ 1 % of span per week							
				Sensitivity Drift:	\leq 1 % of measured value per week							
				Linearity error:	≤ 0.5 % of span							
				Warm-up Time:	Approx. 30 minutes without thermostat							
				90% Response Time:	T90 = 2.5 sec for measurement cell length = 175 mm							
				Inlet Pressure:	pe = 2–500 hPa							
				Power Supply:	230VAC, 50Hz							
				Housing design:	Wall Mount / IP65							
				Flow Rate:	20–100 l/h							
				Digital Output:	4xDO-Contact load rating 30V/1A							
				Analog Output:	4xAO Set for each component.							
				Communication:	Modbus module with RS485							
				Marking:	Suitable for Safe Area							
				Importatnt Note:	Based on your request, the paramagnetic module (Mag	gnos 28) has b	een included	d in the technic	cal offer.			
					Please note that the AZ30 oxygen analyzer (zirconium	oxide cell) had	already bee	n included in t	he offer.			
					Currently, oxygen (O ₂) is being measured simultaneous	sly by both an	alyzers.					
2/6	Note	Rev	1 set		Calibration Accessories							
			4	Cylinder Pressure Regulator	Regulating System with Inlet and Outlet Gauges							
			-	of macri ressure negulator	Cylinders							
			1	Span Gas Cylinder	•	LO lit. A	I / CS					
					om, SO2: 0~400 ppm, CO2: 0~20%, NOx: 0~400 mg/Nn							
			2	Calibration Gas Cylinder for	AZ30 4	10 lit. A	I / CS					
			1	Zero Gas Cylinder	1	LO lit.	I / CS					
				Composition: Pure Nitrogen								
2/7	Note	Rev	3 set	A4	O2 Analyser							
				Manufacturer:								
				Model:	Technical Specification for Probe							
				Principle:	Zirconium Oxide							
				Insertion Length:								
				_	Manual Calibration							
					Flange, ANSI 4 in 150							
					Yes, 150# to 300#							
					Ex db IIB +H2 T4 Gb (Ta –20 °C to 70 °C)							
				Test Gas Response Time:								
				System Accuracy:								
				Ambient Temperature:	15 0 1 10 00001140							
				•	Transmitter: –20 to 55 °C							
					Probe: –20 to 70 °C							
				Ingress Protection:	Probe: IP66 and NEMA 4X							
				-	Electronics enclosures: IP66							
				Probe Body Material:	316L stainless steel							
				-	All probe lengths –20 to 800 °C							
				Operating Requirements:								
					Reference Air (1 bar)							
					Test Gases (air is recommended)							
					Transmitter Specification							
				Hazardous Area :	Ex db IIB +H2 T6 Gb (Ta –20°C to 55°C)							
				Display Type:	graphical 128 x 64 pixel LCD							
				Display Backlight:	Green LED							
				Analog Outputs:	1 isolated current output							
				Languages:	English							
				Special Cable (Stream #1):	50 m							
				Special Cable (Stream #2):	50 m							
				Special Cable (Stream #3):	50 m							
2/8	Note	Rev	3 set		Flow Meter on Stack							
					AccuFlo®QAL							
				Manufacturer:								
				Cina and antia	Probe Specification 3" ANSI 150#							
				Size and rating:	3" ANSI 150#							
				Flange Adaptor:								

Pira	moo	חח		t Title: Technical / Comm	ercial Quotation Form			
SYSTE cms ci	M QESH	M⊢ پیرا	Documen	t Code: Q-FR-MS-071/02				
Custome	er Name:	:	Adish		Customer Ref NO:	CEMS Analyzer system- Power plant	Date:	5/18/202
SQ Qut	tation NC	D:	CR.03.098	;	Technical Offer NO:	TO.03.098.04		
Item								
				Insertion Length:				
				MediumTemperature:	·			
				AmbienteTemperature	115/230 V AC			
				Evaluation electronics:				
				Evaluation electronics.	Other Accessories			
					Integrated temperature measurement: Pt100			
					5-Way Manifold			
					ACCU340 Pressure transmitter / Suitable for Zone 2,	Group IIB, T3		
					Pressure transmitter series P121 / Suitable for Zone 2	2, Group IIB, T3		
					AccuMind® - Flow computer / Suitable for Safe Area			
					Amplifier AD-TV 22 GL			
2/9	Note	Rev	1 set		Analyser Cabinet			
				-	Enclosure			
					Cabinet 2300(H) * 1500(W) * 1000 (D)			
				Material:				
				Ingress Protection:				
				Painted:	Yes			
				Sun Shade:	Yes			
				Base Frame:				
				Tues	Air Conditioning Split Air Conditioner with Heating and Cooling Mode			
				Power Supply:				
					Zone 2, Group IIB, T3			
					Purging Facilities			
			1		Purge Control Unit Suitable for Zone 2, Group IIB, T3			
			1		Ball Valve			
			1		Air Filter Pressure Regulator with Outlet Gauge			
				*	The analyzer cabinet will be purged according to NFP			
					The whole cabinet of the analyzer will be certified by	a notified body.		
C	Optional				Safety Facilities			
			1		Yellow Flashing			
			1		Red Flashing			
			1		Horn			
			1		Reset and Acknowledge button			
			1		Smoke Detector			
			1		LEL Gas Detector			
2/10	Note	Rev	1 set		Electrical Accessories			
				Electrical Items				
			1		Power Isolation Switch Exd IIB For N-UPS include: (C.			
			1	Power Isolation Switch :	Power Isolation Switch Exd IIB For UPS include: (C.B.	Terminals Potary switch)		
			1		Power Distribution Panel Shoot steel For N LIDS (CBs			
			_	PDP :	Power Distribution Panel Sheet steel For N-UPS (CBs, Supply Barier Terminal			
					Power Distribution Panel Sheet steel For N-UPS (CBs, Supply,Barier, Terminal,) Power Distribution Panel Sheet steel For UPS (CBs, F	Relay Contact, Power		
			1	PDP :	Supply,Barier, Terminal,)	Relay Contact, Power		
			1	PDP :	Supply,Barier, Terminal,) Power Distribution Panel Sheet steel For UPS (CBs, F Supply,Barier, Terminal,) Signal JB Exe IIC Stainless steel 316	Relay Contact, Power		
			1 1 1	PDP: JB: JB:	Supply,Barier, Terminal,) Power Distribution Panel Sheet steel For UPS (CBs, F Supply,Barier, Terminal,) Signal JB Exe IIC Stainless steel 316 Alarm JB Exe IIC Stainless steel 316	Relay Contact, Power		
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			1 1 1 2 2 1 1	PDP: JB: JB: JB: JB: JB: JB: JB: Lighting:	Supply,Barier, Terminal,) Power Distribution Panel Sheet steel For UPS (CBs, F Supply,Barier, Terminal,) Signal JB Exe IIC Stainless steel 316 Alarm JB Exe IIC Stainless steel 316 F&G JB Exe IIC Stainless steel 316 Heated JB Exe IIC Stainless steel 316 Sample Probe Alarm Exe IIC Stainless steel 316 Modbus JB Exe IIC Stainless steel 316 Flow JB Exe IIC Stainless steel 316 Flow JB Exe IIC Stainless steel 316 Lighting Exed IIC	Relay Contact, Power		
			1 1 1 2 2 1 1 1	PDP: JB: JB: JB: JB: JB: Lighting: Door Switch:	Supply,Barier, Terminal,) Power Distribution Panel Sheet steel For UPS (CBs, F Supply,Barier, Terminal,) Signal JB Exe IIC Stainless steel 316 Alarm JB Exe IIC Stainless steel 316 F&G JB Exe IIC Stainless steel 316 Heated JB Exe IIC Stainless steel 316 Sample Probe Alarm Exe IIC Stainless steel 316 Modbus JB Exe IIC Stainless steel 316 Flow JB Exe IIC Stainless steel 316 Lighting Exed IIC Door Switch Exde IIC	Relay Contact, Power		
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(Document Title: Technical / Co	ommercial Quotation Form			
Piramoon SYSTEM QESHM پیرامون سیستم فشم	Document Code: Q-FR-MS-071				
ustomer Name:	Adish	Customer Ref NO:	CEMS Analyzer system- Power plant	Date:	5/18/202
SQ Qutation NO:	CR.03.098	Technical Offer NO:	TO.03.098.04		
tem					
5					
	Deleted				
	Deleted				
2/11 Note Rev	1 set	Spare Parts			
2/11 Note Rev	1 561	Commissioning Spare parts			
	1	Filter Element			
	1	O-ring for Filter Body			
	_	2-Years Spare Parts Option	onal		
	1	Chopper			
	1	Key film			
	1	Display EL3000			
	1	Fuse for electronics Magnos/Uras			
	1	Gas filter EL3020			
	1	O-ring (FFKM) for Magnos28			
		Probe Spare Parts Option	onal		
	4	Flange seal			
	2	O-ring kit for filter element and probe, ma			
	2	Ceramic filter element incl. Viton O-rings,			
		Pump Spare Parts Optio	onal		
	1	Set inlet/outlet valves			
	1 1	O-ring bypass valve Crankshaft assembly spare parts kit			
	1	Bellow type 4 for P1.X and P1.XE			
	1	mounting set P1.XE complete			
2/12 Note Rev	1 set	Service			
		FAT			
		For one working day for one person at PSC) shon		
			231101		
		Board, travel and loading by Client			
Optional		Field Service			
		For 2 years			
		Part of field service is standard training of	analyzer for operation/maintenance	and etc.	
		Board, travel and loading by Client			
Optional		SAT			
		For one working day for one person at clie	nt site		
		Board, travel and loading by Client			
Outleant.					
Optional		Training			
		Person per day at client site & shop			
		Installation			
		Whole installation activity will be don by P	SQ		
		Commissioning and Start-up			
		Person per day			
		Board, Travel and loading by Client Notes			
ote 1 Deleted.		NOTES			
_	CVCB-DE-CENTIN CDC 0003 4221	ment. This ducument refers to analyser house. F	SO didn't consider house for analyse	r anclosure. The	analyser will b
installed in a SS		ment. This ducument refers to dildiyser flouse. F	Se dian i consider flouse for analyse	a enclosure. The	unaiysei Will L
ote 3	. Jud Gubinet.				
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Note 5 Please consider that all signal and modbus cables between cabinet and DCS (600m) are in client's scope of supply. Otherwise please inform us.