١-قائمة السلع وجدول التسليم

الطلبية المرقمة (١١١/م/س ج ن ٢٠٢٤/٦) تجهز عداد غاز مع الملحقات (تصميم وتجهز وتنصبب وفحص وتشغيل)لعمل سمنت النجف الاشرف

0	16 - Total loop error of the skid			>	
- 15	15 - The supplier must supply the original certificate of each item				
	14 - Manufacturer, west Europe				
	13 - All skid must be explosion proof				
	12 - Backup power supply				
	11 - Density meter			بالاعتماد	
	10 - pressure and temperature transmitters	2		• التبلي خ	
	9 - Chaises and sun shelter			ريط او	
	8 - inlet & outlet piping system		CIF or CIP		
	7 - Flow Straightener				
	6 - Uncertainty < 0.3 %			رة. د	
	5 - Operational pressure: (2-7) bar.			حلود (۱۱۰)	
	4 - Design pressure: (10) bar Max				
	3 - Operational flow rate: (100 - 7000)Nm ³ / h				
	$2 - \text{Flow max: } (10000) \text{ m}^3 / \text{h}$				
	12 lines (1 duty . 1 master) 6 paths UFM skid with $Z-configuration$.				18f 2c
	Supply the gas flow meter with accessories where complete metering skid (design supply erection (installation). inspection and operation)				
je j	وصف السلع	الكمية الوحدة	ONEROR	الموعد المتوقع المتسليم	فائرة التجهيز المفترح من مقدم العمااء إيماكم من قبل مقدم العطاء
			مكان التسليم		فقرة التجهيز بالأيام
	المعتبية المرقعة (١١١/م/١١) عن ١٠٠٠) المراور معادة من المناسبة المراور المارة المراور				

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2 Air	22-Flow Computer to be install in control room (safe area)for correction the flow	21-Ultrasonic Gas meter 6 path for natural gas application	- Alfitude at: +42m	- Fluid: Natural Gas .	- Signal: (4-20) m Amp	- Operating voltage = 24 DC	- Diameter of pipe = 6 inch	- Ambient Tempressure = $-5C^{\circ}$ to $55C^{\circ}$.	- Warranty 1 years from successful test .	- Processing period: 120 day.	- Gas Temp: - 20C ⁰ to 60 C ⁰	- Flow rate: $10.000 \text{ nm}^3/\text{hr max} \cdot 100 \text{ nm}^3/\text{hr min}$	- Design according AGA 3.5.7.8.9.10	- Origin country: West Europe	General Specifications:	20 - Unites measurements are user selectable	19 - Flow computer has configurable calculations for AGA 3.5.7.8.9.10	18 - Set of documents	17 - Original calibration certificate by third party of meter and instruments
2.1(12.5))for correction the flow																A 3.5.7.8.9.10		er and instruments

33- Original calibration certificate by third party of meter instruments 31-PLC panal for flow Computer 34-Set of documents including drawing and wiring diagram. 32- The suppler must supply the original certificate of each item 30- UPS system 29- Cables Cabie try 28-junction box 27-Bail valves . check valves 26- Density analyzer 25- Temperature transmitter 24-Pressure transmitter 23-Flow conditioner Density Kg/m3 Total flow Rate :Corrected Nm3/hr Flow Rate : Corrected Nm3/hr Sound speed :m/s Flow rate :Uncorrected Nm3/hr Temperature :C Pressure :bar Parameter to be show:

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1-list of goods and delivery schedule

Tender NO: (11A/T/SOC-6/2024) Supply the Gas flow meter with accessories (design .supply, installation, inspection and operation) for cement Najaf plant

															3	N Hem
14 - Manufacturer, west Europe	13 - All skid must be explosion proof	12 - Backup power supply	11 - Density meter	10 - pressure and temperature transmitters	9 - Chaises and sun shelter	8 - inlet & outlet piping system	7 - Flow Straightener	6 - Uncertainty < 0.3 %	5 - Operational pressure: (2 - 7) bar.	4 - Design pressure: (10) bar Max	3 - Operational flow rate: (100 - 7000)Nm ³ /h	$2 - \text{Flow max:} (10000) \text{ m}^3 / \text{h}$	1 - $2\ lines$ ($1\ duty$. $1\ master$) $6\ paths$ UFM skid with $Z-configuration$.	Supply the gas flow meter with accessories where complete metering skid (design .supply .erection (installation) . inspection and operation)	Goods Description	
															Quantity	
															Š.	Ę.
	+11							CIForCIP							Destination	Elas I Dalissas
			the (L/C)	advising about	The date of	O _r		signing the contract (Cash)	The date of	starting from:	(120)Days	2			Estimated Delivery period	Suppl
	19	ē.					2								The proposed Delivery Period by Bidder (filled by Bidder)	Supplying Period (in days)

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22-Flow Computer to be install in control room (safe area)for correction the flow	21-Ultrasonic Gas meter 6 path for natural gas application	- Alfitude at: +42m	- Fluid: Natural Gas .	- Signal: (4-20) m Amp	- Operating voltage = 24 DC	- Diameter of pipe = 6 inch	- Ambient Tempressure = $-5C^{\circ}$ to $55 C^{\circ}$.	- Warranty I years from successful test .	- Processing period: 120 day.	- Gas Temp: - 20C ⁰ to 60 C ⁰	- Flow rate: 10.000 nm ³ / hr max . 100 nm ³ / hr min	- Design according AGA 3.5.7.8.9.10	- Origin country: West Europe	General Specifications:	20 - Unites measurements are user selectable	19 - Flow computer has configurable calculations for AGA 3.5.7.8.9.10	18 - Set of documents	17 - Original calibration certificate by third party of meter and instruments	16 - Total loop error of the skid	13 - The supplier must supply the original certificate of each item
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34-Set of documents including drawing and wiring diagram.	33- Original calibration certificate by third party of meter instruments	32- The suppler must supply the original certificate of each item	31-PLC panal for flow Computer	30- UPS system	29- Cables Cabie try	28-junction box	27-Bail valves . check valves	26- Density analyzer	25- Temperature transmitter	24-Pressure transmitter	23-Flow conditioner	Density Kg/m³	Total flow Rate :Corrected Nm3/hr	Flow Rate :Corrected Nm3/hr	Flow rate: Uncorrected Nm3/hr	Sound speed :m/s	Temperature:C	Pressure:bar	Parameter to be show:
													10000						
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Tender NO: (11A/T/SOC-6/2024) Supply the Gas flow meter with accessories (design supply, installation, inspection and operation) for cement Najaf

IT.NO	SPECIFICATION	MD
	Supply the gas flow meter with accessories where complete metering skid (design supply serection (installation) inspection and operation)	
	1-2 lines (1 duty . 1 master) 6 paths UFM skid with $Z-configuration$.	
	2-Flow max: (10000) m ³ /h	
	3 - Operational flow rate: (100 - 7000)Nm ³ /h	
	4 - Design pressure: (10) bar Max	
	5 - Operational pressure: (2 - 7) bar.	
	6 - Uncertainty < 0.3 %	
	7 - Flow Straightener	
	8 - inlet & outlet piping system	
	9 - Chaises and sun shelter	
	10 - pressure and temperature transmitters	
	11 - Density meter	
	12 - Backup power supply	
	13 - All skid must be explosion proof	
	14 - Manufacturer: west Europe	
	15 - The supplier must supply the original certificate of each item	
	16 - Total loop error of the skid	
	17 - Original calibration certificate by third party of meter and instruments	

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18 - Set of documents

19 - Flow computer has configurable calculations for AGA 3.5.7.8.9.10

20 - Unites measurements are user selectable

General Specifications:

- Origin country: West Europe

- Design according AGA 3.5.7.8.9.10

- Flow rate: $10.000 \text{ nm}^3/\text{hr max} \cdot 100 \text{ nm}^3/\text{hr min}$

- Gas Temp: - 20C0 to 60 C0

- Processing period: 120 day.

- Warranty 1 years from successful test .

- Ambient Tempressure = $-5C^{\circ}$ to $55 C^{\circ}$.

Diameter of pipe = 6 inch

- Operating voltage = 24 DC

- Signal: (4-20) m Amp

- Fluid: Natural Gas.

- Alfitude at: +42m

21-Ultrasonic Gas meter 6 path for natural gas application

22-Flow Computer to be install in control room (safe area) for correction the flow

Parameter to be show:

Pressure :bar

Temperature:C

Sound speed m/s

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Flow rate: Uncorrected Nm3/hr

Flow Rate : Corrected Nm3/hr

Total flow Rate :Corrected Nm3/hr

Density Kg/m3

23-Flow conditioner

24-Pressure transmitter

25- Temperature transmitter

26- Density analyzer

27-Bail valves . check valves

28-junction box

29- Cables Cabie try

30- UPS system

31-PLC panal for flow Computer

32- The suppler must supply the original certificate of each item

33- Original calibration certificate by third party of meter instruments

34-Set of documents including drawing and wiring diagram.

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Y- Drawing

NO Drawing		
Purpose	Name Of Drawing	No. Of Drawing

E- Test And Engineering Inspection

The Following Tests And Engineering Inspection will be executed (Fill in the schedule of tests and engineering inspections)

1. Original calib	Line Item No The required insp	
Original calibration certificate by third party of meter and instruments	Line Item No The required inspection for the tender materials are as follows	List of Inspections and Tests

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