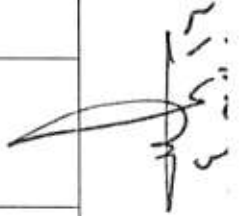


## ١- قائمة السلع وجدول التسليم

المطلبة المرقمة (١١/ب/م/م/ج.ن. ٢٠٢٤/٦٠) تجهيز عداد غاز (تصميم وتجهيز وتثبيت وفحص وتشغيل) لعمل سميت الخف الأشرف

رقم الفقرة	وصف السلع	الكمية	الوحدة	مكان التسليم النهائي	الموعد المتوقع للتسليم	فترة التجهيز بالأيام
	Supply the gas flow meter with accessories where complete metering skid (design .supply .erection ( installation) . inspection and operation) 1 - 2 lines ( 1 duty . 1 master ) 6 paths UFM skid with Z – configuration . 2 – Flow max: ( 10000 ) m <sup>3</sup> / h 3 – Operational flow rate: (100 - 7000 )Nm <sup>3</sup> / 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			CIF or CIP	• توقيع العقد (نقدي) أو • التبليغ بالاعتماد	حدود (١٢٠) يوم تبدأ من تاريخ

- 17 – Original calibration certificate by third party of meter and instruments
- 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 nm<sup>3</sup>/hr max . 100 nm<sup>3</sup>/hr min
  - Gas Temp: - 20C<sup>0</sup> to 60 C<sup>0</sup>
  - Processing period: 120 day.
  - Warranty 1 years from successful test .
  - Ambient Temperssure = -5C<sup>0</sup> to 55 C<sup>0</sup> .
  - 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

Flow rate :Uncorrected Nm<sup>3</sup>/hr

Flow Rate :Corrected Nm<sup>3</sup>/hr

Total flow Rate :Corrected Nm<sup>3</sup>/hr

Density Kg / m<sup>3</sup>

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 panel for flow Computer

32- The supplier 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 .

Handwritten notes and signature

1-list of goods and delivery schedule

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

Item No.	Goods Description	Quantity	Unit No.	Final Delivery Destination	Supplying Period (in days)	
					Estimated Delivery period	The proposed Delivery Period by Bidder (filled by Bidder)
	<p>Supply the gas flow meter with accessories where complete metering skid (design ,supply ,erection ( installation) . inspection and operation)</p> <p>1 - 2 lines ( 1 duty . 1 master ) 6 paths UFM skid with Z – configuration .</p> <p>2 – Flow max: ( 10000 ) m<sup>3</sup> / h</p> <p>3 – Operational flow rate: (100 - 7000 )Nm<sup>3</sup> / h</p> <p>4 – Design pressure: (10) bar Max</p> <p>5 – Operational pressure : ( 2 - 7 ) bar .</p> <p>6 – Uncertainty &lt; 0 .3 %</p> <p>7 – Flow Straightener</p> <p>8 – inlet &amp; outlet piping system</p> <p>9 – Chaises and sun shelter</p> <p>10 – pressure and temperature transmitters</p> <p>11 – Density meter</p> <p>12 – Backup power supply</p> <p>13 – All skid must be explosion proof</p> <p>14 – Manufacturer. west Europe</p>					<p>About (120)Days starting from : The date of signing the contract (Cash)</p> <p>Or</p> <p>The date of advising about the (L/C)</p>





- 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
- 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 nm<sup>3</sup> / hr max . 100 nm<sup>3</sup> / hr min
  - Gas Temp: - 20C<sup>0</sup> to 60 C<sup>0</sup>
  - Processing period: 120 day.
  - Warranty 1 years from successful test .
  - Ambient Tempressure = -5C<sup>0</sup> to 55 C<sup>0</sup> .
  - 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




	<p><b>Parameter to be show :</b></p> <p><b>Pressure :bar</b></p> <p><b>Temperature :C</b></p> <p><b>Sound speed :m/s</b></p> <p><b>Flow rate :Uncorrected Nm<sup>3</sup>/hr</b></p> <p><b>Flow Rate :Corrected Nm<sup>3</sup>/hr</b></p> <p><b>Total flow Rate :Corrected Nm<sup>3</sup>/hr</b></p> <p><b>Density Kg / m<sup>3</sup></b></p> <p><b>23-Flow conditioner</b></p> <p><b>24-Pressure transmitter</b></p> <p><b>25- Temperature transmitter</b></p> <p><b>26- Density analyzer</b></p> <p><b>27-Bail valves . check valves</b></p> <p><b>28-junction box</b></p> <p><b>29- Cables Cable try</b></p> <p><b>30- UPS system</b></p> <p><b>31-PLC panel for flow Computer</b></p> <p><b>32- The supplier must supply the original certificate of each item</b></p> <p><b>33- Original calibration certificate by third party of meter instruments</b></p> <p><b>34-Set of documents including drawing and wiring diagram .</b></p>				
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Tender NO: ( 11B/T/SOC-6/2024 ) Supply the Gas flow meter with accessories (design ,supply , installation , inspection and operation) for cement Najaf

IT.NO	SPECIFICATION	QTY
	<p>Supply the gas flow meter with accessories where complete metering skid (design ,supply ,erection ( installation ) . inspection and operation)</p> <p>1 - 2 lines ( 1 duty . 1 master ) 6 paths UFM skid with Z - configuration .</p> <p>2 - Flow max: ( 10000 ) m<sup>3</sup> / h</p> <p>3 - Operational flow rate: (100 - 7000 )Nm<sup>3</sup> / h</p> <p>4 - Design pressure: (10) bar Max</p> <p>5 - Operational pressure : ( 2 - 7 ) bar .</p> <p>6 - Uncertainty &lt; 0 .3 %</p> <p>7 - Flow Straightener</p> <p>8 - inlet &amp; outlet piping system</p> <p>9 - Chaises and sun shelter</p> <p>10 - pressure and temperature transmitters</p> <p>11 - Density meter</p> <p>12 - Backup power supply</p> <p>13 - All skid must be explosion proof</p> <p>14 - Manufacturer. west Europe</p> <p>15 - The supplier must supply the original certificate of each item</p> <p>16 - Total loop error of the skid</p> <p>17 - Original calibration certificate by third party of meter and instruments</p>	




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<p>Flow rate :Uncorrected Nm<sup>3</sup>/hr Flow Rate :Corrected Nm<sup>3</sup>/hr Total flow Rate :Corrected Nm<sup>3</sup>/hr Density Kg / m<sup>3</sup> 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 panel 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 .</p>	
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Y- Drawing

Drawings List		
No. Of Drawing	Name Of Drawing	Purpose
		NO Drawing

٤- Test And Engineering Inspection

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

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





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