# <u>CORRIGENUDM – 1</u>

## **Department of Aerospace Engineering**

#### **Extension of bid submission date:**

# The due date for the submission of bids has been extended to 11/03/2021 @ 3 PM & the technical bid opening is 11/03/2021 @ 4 PM.

## **Changes in technical specification:**

## **Coriolis Flow Meter for sCO2**

The flow meter is expected to measure flow rate of high pressure (~ 200 bar) super critical CO2 fluid. The unit shall be capable of measuring up to 0.05 kg/s of maximum flow of liquid CO<sub>2</sub>. The unit shall be able to interface with the controlling device to be able to precisely control flow. The unit shall be able withstand the maximum operating temperature of  $100^{\circ}$  C. The unit shall comply with ASME standards of high pressure piping requirements.

Detailed technical specifications for the requirements are listed below.

#### **Operational Specifications**

<u>S.No.</u>	Description	
1.	Nominal Mass flow	<mark>0 – 0.05 kg/s or 0 to 180 kg/h</mark>
2.	Maximum Pressure in the Line	200 bar
3.	Maximum Temp (C)	100 <sup>0</sup> C
4.	Communication	RS232/RS485
5.	Mode of Operation	Continuous
6.	Type of Fluid	sCO2 in liquid state
7.	Data Transmission	Milliamp / digital outputs
8.	Mass Flow Accuracy	Shall not exceed <u>+</u> 0.1 % of max
		flow
9.	Temperature Accuracy	<u>+</u> 1° C

#### **Mechanical Specifications**

S.No.	Description	
1.	Nominal Inlet Diameter	BSP 1" inch
2.	Nominal Outlet Diameter	BSP 1" inch
3.	Material Make	316L stainless steel

## **Electrical Specifications**

<u>S.No.</u>	Description	
1.	Voltage	3 Phase – 220- 240 V
2.	Current	10 - 15 A
3.	Frequency	50 – 60 Hz

## Additional Specifications

<u>S.No.</u>	Description	
1.	Display	Input digital display
2.	Current	10 - 15 A
3.	Frequency	50 – 60 Hz