

**Title:      Quotation of I&C Equipment**

We intend to purchase the items as specified at attached below:

Sr.	Description	Qty. (Nos.)
1	Differential Pressure Transmitter Measurement Span: 5 to 100mbar	10
2	Differential Pressure Transmitter Measurement Span: 10 to 1000mbar	10
3	Temperature Transmitter Universal Input Type	5
4	Handheld HART Communicator	2

[Note: Detail specification is attached at page-2]

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**Detail Specification of item 1 to item 4**

**1. Differential Pressure Transmitter**

Output: 4-20mA DC with digital Communication (HART 7 protocol)  
Measurement Span: 5 to 100 mbar, Medium: Air,  
Wetted parts Material: Diaphragm = Hastelloy, Others 316L  
Process connection: 1/4" NPT female process connector  
Bolts & Nuts material: SS316L  
Installation: Horizontal piping and right side high pressure (horizontal impulse piping type)  
Housing: Cast Aluminum alloy  
Electrical connection: 1/2" NPT female, two electrical connection without blind plugs  
Integral Indicator: Not required  
Mounting Bracket: 304 SST 2 inch pipe mounting, flat type for horizontal piping  
Housing standard: Explosion Proof, Dust/Ignition Proof, Intrinsically safe  
All features as per model below  
Make: Yokogawa EJA110E-JLS3G-912NB/FU1/D3 or  
Equivalent Honeywell, Rosemount, Shanghai Automation Instrumentation Company.

**2. Differential Pressure Transmitter**

Output: 4-20mA DC with digital Communication (HART 7 protocol)  
Measurement Span: 10 to 1000 mbar, Medium: Air,  
Wetted parts Material: Diaphragm = Hastelloy, Others 316L  
Process connection: 1/4" NPT female process connector  
Bolts & Nuts material: SS316L  
Installation: Horizontal piping and right side high pressure (horizontal impulse piping type)  
Housing: Cast Aluminum alloy  
Electrical connection: 1/2" NPT female, two electrical connection without blind plugs  
Integral Indicator: Not required  
Mounting Bracket: 304 SST 2 inch pipe mounting, flat type for horizontal piping  
Housing standard: Explosion Proof, Dust/Ignition Proof, Intrinsically safe  
All features as per model below  
Make: Yokogawa EJA110E-JMS3G-912NB/FU1/D3 or  
Equivalent Honeywell, Rosemount, Shanghai Automation Instrumentation Company.

**3. Temperature Transmitter**

Input: Thermocouple, RTD, DC mV, ohm  
Output: 4-20mA DC with digital Communication (HART 7 protocol)  
Supply: 24VDC, Single Sensor Input,  
Housing: Aluminum, Electrical connection: 1/2" NPT female  
Configuration: Through HART Communicator  
Integral Indicator: Not Required  
Mounting: SS304, 2 inch horizontal pipe mounting  
Housing standard: Explosion Proof, Dust/Ignition Proof, Intrinsically safe  
Other features as per model below  
Make: Yokogawa YTA610-JA1A2NB/KU2 or equivalent Honeywell, Rosemount,  
Shanghai Automation Instrumentation Company.

**4. Handheld HART Communicator**

Model: YHC5150X, HART-7 Protocol  
Make: Yokogawa or equivalent  
Compatible with item No1, 2, 3  
Provided with leads, charger and casing