ATC: BIA221075

Item Specification & Quantity

SI No.	ITEM CODE	DESCRIPTION	UOM	QTY
1	IA4827000	Item: Differential Pressure Transmitter Range: 0 To 2.0 kg/cm ² Service: NG Pressure difference across R1201, R1202A & R1202B. Refer Annexure 1 for detailed specification	No	4

Additional Terms & Conditions (ATC)

I. Guarantee/Warrantee: The offered material shall be guaranteed against any manufacturing defect and poor workmanship for a period of 18 months from the date of supply or 12 months from the date of commissioning, whichever is earlier. In case the material fails during guarantee period due to defective material or bad workmanship, you will have to replace/rectify the same free of cost. The guarantee certificate should indicate our order number and your invoice number. Guarantee/Warrantee Certificate shall be submitted along with dispatch documents at no extra cost to NFL.

ANNEXURE - I

SPECIFICATION FOR ELECTRONIC DIFFERENTIAL PRESSURE TRANSMITTERS								
Item Code	Item Description	Measuring range / Calibration Range	Normal/Max Pressure	RATING	Fluid Temperature Normal/Max	Quantity Required		
IA4827000	Electronic Differential Press. Transmitter	0 to 2.0 Kg/cm ²	37/44 Kg/cm ²	100 Kg/cm ²	390/430 °C	4		

Sr.No.	DESCRIPTION	REQUIREMENT	VENDOR'S CONFERMATION						
1	MATERIAL FOR DETECTING UNIT	3.5							
Α	PROCESS COVER	AISI 316							
В	MEASURING DIAPHRAGM / CAPSUL MATERIAL	AISI 316L SS OR BETTER							
С	OTHER WETTED PART	AISI 316 SS OR BETTER							
	SENSOR BODY MATERIAL	AISI 316 SS OR BETTER							
2	VENT / DRAIN	316 SS							
3	SENSOR TYPE	PARTY TO SPECIFY							
4	FILLED FLUID	SILICON OIL							
5	PROCESS CONNECTION	1/2 " NPT (F)							
6	STUD / BOLT / NUT MATERIAL	AISI SS 304							
7	ELECTRICAL HOUSING	MATERIAL-ALUMINIUM ALLOY, COLOUR/PAINT - AS PER MANUFACTURER STANDARD HAVING WEATHER RESISTANCE PAINT.							
8	ENCLOSURE CLASS	IP-67 OR BETTER							
9	HAZARDOUS AREA CERTIFICATION	TRANSMITTER SHALL BE SUITABLE FOR INSTALLATION IN HAZARDOUS AREA OF ZONE 0, GAS GROUP IIC EEX ID IIC T 4 WITH SHORT CIRCUIT CURRENT LIMIT 120 MA 60°C AMBIENT CONFORMING TO STANDARD IS - 2147 / IS - 2148. TRASMITTER SHALL ALSO CONFIRM TO INTRINSIC SAFE STANDARD CENELEC EN 500 20.							
11	POWER SUPPLY	18 V DC TO 36 V DC OR BETTER							
0.000		4-20 MA DC (TWO WIRE) WITH DIGITAL COMMUNICATION THROUGH HART PROTOCAL (HART							
	TRANSMITTER OUTPUT	5.1 OR BETTER LATEST)							
_	WIRING SYSTEM	TWO WIRE THE STATE OF THE STATE							
_	ALLOWABLE LOAD RESISTANCE	MAX 1290 OHMS AT 42 VDC AND MIN 600 OHMS AT 24 VDC OR BETTER							
	ACCURACY (INCLUDING LINEARITY, HYSTERESIS &	± 0.07 % OF SPAN OR BETTER							
_	RANGEABILITY	100:1							
_	OVER RANGE EFFECT	ZERO SHIFT 0.5% OF URL FOR ANY OVER RANGE TO MAXIMUM LIMIT.							
_	SUPPLY VOLTAGE EFFECT	LESS THAN 0.05% OF CALIBRATED SPAN PER 10V.							
	STABILITY	± 0.2% OF URL FOR 6 MONTHS.							
	TEMPERATURE EFFECT	EFFECT PER 55°C CHANGE BETWEEN THE LIMITS OF -40°C & +85°C ZERO SHIFT : ±0.7% OF URL.							
_	ZERO SUPRESSION / ELEVATION	100 % MAX.							
22	LIGHTENING PROTECTION	LIGHTNING SURGE UPTO ±3200V FOR 1u SEC.							
23	ZERO & SPAN ADJUSTMENT	CONTINUOUSLY ADJUSTABLE EXTERNALLY, NON-INTERACTING TYPE INTERACTING TYPE NOT ACCEPTED.							
24	INDICATOR	INTEGRAL OUTPUT DIGITAL INDICATOR (LCD TYPE) WITH CONFIGURATION FACILITY.							
25	ELECTRICAL CONNECTION	1/2" NPT (F) CABLE CONNECTION EQUIPPED WITH DOUBLE COMPRESSION EXPLOSION PROOF TYPE SS CABLE GLAND.							
26	MOUNTING	ON 2" NB VERTICAL PIPE एक कदम स्वकृता की ओर							
	AMBIENT TEMPERATURE	0 TO 60 °C.							
	AMBIENT HUMIDITY	90% RH							
_	SELF TEST / DIAGONOSIS	YES							
_	WRITE PROTECTION	YES							
	DATA STORAGE	NON VOLATILE MEMORY							
	CONFIGURATION FACILITY	ADJUSTABLE DAMPING, SQ ROOT EXTRACTION, TEMP./PRESSURE CORRECTION AND ALARM							
33	MANIFOLD (DIFFERENTIAL PRESSURE TRANSMITTER)	CORRESPONDING TO MIN. / MAX. SPAN. COMPLETE THREE WAY MANIFOLD ALONG WITH SS NUT, BOLTS & O-RINGS AND ADAPTOR OVAL FLANGES (BOTH SIDE) OF 1/2 " NPT (F) REQUIRED WITH EACH PRESSURE DIFFERENTIAL TRANSMITTER							
34	ACCESSORIES	THE PARTY SHALL SUPPLY TRANSMITTERS COMPLETE WITH MOUNTING ACCESSORIES, NUTS CLAMPS, BRACKETS SUITABLE TO MOUNT ON 2" SIZE PIPE & DOUBLE COMPRESSION							
35	STATIC PRESSURE TEST	EACH DIFFERENTIAL PRESSURE TRANSMITTER SHOULD BE STATIC PRESSURE TESTED AT 100 KG/CM2 FOR ITEM SR. NO. 2 & 3. THE ZERO AND SPAN SHIFT SHOULD NOT BE MORE THAN							
36	FOLLOWING CERTIFICATES ARE TO BE PROVIDED BY T	IO.2% OF CALIBRATED SPAN.							
	CALIBRATION CERTIFICATES.	THE VEHICLE							
	STATIC PRESSURE TEST CERTIFICATES.								
	GUARANTEE / WARRANTY CERTIFICATE								
_	MATERIAL TEST CERTIFICATES								
_	DOCUMENTATION								
	PARTY SHALL SUPPLY 1 SET OF COMPLETE DOCUMENTS AND DRAWING INCLUDING CIRCUIT DETAILS FOR PROBLEM DIAGNOSIS, INSTALLATION DETAILS, OPERATION AND MAINTENANCE.								
39	GUARANTEE / WARRANTY	DETAILS, OPE	RATION AND MAINTENANCE.						
	THE TRANSMITTERS SHALL BE GUARANTEED FOR 12 MONTHS FROM THE DATE OF INSTALLATION OR 18 MONTHS FROM THE DATE OF RECEIPT WHICHEVER IS EARLIER								