

MANUFACTURER'S NAME AND ADDRESS		STANDARD QUALITY PLAN					TO BE FILLED BY BHEL		TO BE FILLED BY BHEL			
BHEL	VENDOR'S NAME	ITEM	Pressure/ Differential Pressure/ Flow Transmitter			QP NO.	QA/BE/QP/902					
					REV.	12						
		DRG. NO.	AS PER PO									
		REV	AS per PO									
		SPEC.	AS per PO									
	REV	AS per PO					Page 1 of 3					
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS	AGENCY			REMARKS
1	2	3	4	5	6	7	8	9	D	10		11

1.00	RAW MATERIAL											
1.01	Diaphragm, Sensing, Housing & Process Connections (As applicable)	Grade of Material	Major	Chemical	1 Sample / lot	Ordering specn./ BHEL Appd Data Sheet	Ordering specn./ BHEL Appd Data Sheet	COC	√	P	V	-
1.02	Flange & Wetting Part (As applicable)	Grade of Material	Major	Chemical	1 Sample / lot	Ordering specn./ BHEL Appd Data Sheet	Ordering specn./ BHEL Appd Data Sheet	COC	√	P	V	-
1.03	Electronic & Other Components (As applicable)	Visual, Make, Range, Type / Model No., Sl. No. & Electric Connection (Plug & Socket Type)	Major	Visual	100%	Ordering specn. / Vendor STD	Ordering specn. / Vendor STD	Internal records	-	P	V	-
2.00	IN-PROCESS INSPECTION											
2.01		Soundness of fitting, Connection & Terminal Marking	Major	Visual	100%	Ordering specn./ BHEL Appd Data Sheet	Ordering specn./ BHEL Appd Data Sheet	Internal records	-	P	-	-
2.02		Insulation Resistance & Dielectric strength	Major	Electrical	100%	Ordering specn./ BHEL Appd Data Sheet	Ordering specn./ BHEL Appd Data Sheet	Internal records	-	P	-	-
3.00	TYPE TESTS											
4.00	ROUTINE TESTS											
4.01		Visual (Input / Output Range, Make, Rating, Type / Model No./ Sl No.) & Dimensions	Major	Visual / Measurement	100%	Ordering specn./ BHEL Appd Data Sheet	Ordering specn./ BHEL Appd Data Sheet	Test Report*	√	P	W	-

MANUFACTURER/SUBCONTRACTOR	LEGEND: ! RECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION. M: MANUFACTURER / SUBCONTRACTOR B: BHEL / NOM. INSPECTION AGENCY N: CUSTOMER INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF CUSTOMER	FOR CUSTOMER USE
		APPROVED BY

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4.02		Mechanical Process Connections & Electrical Connections	Major	Visual / Measurement	100%	Ordering specn./ BHEL Appd Data Sheet	Ordering specn./ BHEL Appd Data Sheet	Test Report*	√	P	W	-	
4.03		Accuracy / Calibration Repeatability	Major	Electrical	100%	Ordering specn./ BHEL Appd Data Sheet	Ordering specn./ BHEL Appd Data Sheet	Test Report*	√	P	W	-	
4.04		Span and Zero Adjustability / Adjustability of Range	Major	Physical	100%	Ordering specn./ BHEL Appd Data Sheet	Ordering specn./ BHEL Appd Data Sheet	Test Report*	√	P	W	-	
4.06		Over Pressure Limit & Pressure Range versus Output Signal Test.	Major	Pressure	100%	Ordering specn./ BHEL Appd Data Sheet	Ordering specn./ BHEL Appd Data Sheet	Test Report*	√	P	W	-	
4.07		Power Supply Voltage Effect (As Applicable)	Major	Electrical	100%	Ordering specn./ BHEL Appd Data Sheet	Ordering specn./ BHEL Appd Data Sheet	Test Report*	√	P	W	-	
4.08		Insulation Resistance (If Applicable)	Major	Electrical	100%	Ordering specn./ BHEL Appd Data Sheet	Ordering specn./ BHEL Appd Data Sheet	Test Report*	√	P	W	-	
4.09	Completeness of TCs, COCs, & Inspection Reports		Major	Physical	100%	Ordering specn./ BHEL Appd Data Sheet	Ordering specn./ BHEL Appd Data Sheet	Documents	√	P	V	-	
5.00	IDENTIFICATION / MARKING & PACKING												
5.01		Identification Marking / Firmness of Tagging of Each Instrument	Major	Visual	100%	Ordering specn./ BHEL Appd Data Sheet	Ordering specn./ BHEL Appd Data Sheet	Internal Records		P	W	-	

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5.02		Soundness of Packing Against Transit Damage	Major	Physical	100%	Ordering Specn./ BHEL Appd Data Sheet/ Vendor's STD	Ordering specn./ BHEL Appd Data Sheet	Internal Records		P	-	-	
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Note:

1. Type tests clearance from BHEL Engineering to be verified by inspection engineer during inspection at vendor's works.
2. Manufacturer to maintain calibrated instruments having better accuracy than the item under the test. Inspection engineer shall check the same.
3. Witness by inspection agency to be random 10% of each material code(minimum 1 pieces per material code) from each lot. However vendor to carry out 100% tests internally and tests report shall be reviewed by inspection engineer during inspection at Vendor's works.
4. For material code having applicable spec ST48010, Transmitter shall be supplied with bracket for panel mounting along with necessary fasteners as per cl. no.-5.7 of BHEL spec. ST48010.

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