

		MANUFACTURING QUALITY PLAN						QP. NO.: PE&SD/MQP/FIP/02 REV.00					
								REV NO: 00		DATE: 27/12/2013			
		PROJECT ENGINEERING & SYSTEMS DIVISION BHEL, RC PURAM, HYD-502032						PRODUCT: INSTRUMENT		PAGE 1 OF 12			
SL NO	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										P	W	V	

DIFFERENTIAL PRESSURE SWITCH

1.0 RAW MATERIALS & BOUGHT OUT ITEMS													
1.1	DIFFERENTIAL PRESSURE SWITCH	MATERIAL OF CONSTRUCTION	MAJOR	MATERIAL CONFIRMITY	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	MATERIAL COMPLIANCE CERTIFICATE	√	2	--	1	
2.0 FINAL INSPECTION & TESTING													
2.1	DIFFERENTIAL PRESSURE SWITCH	PHYSICAL VERIFICATION & MARKING CHECK	MAJOR	VISUAL	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	INSPECTION REPORT	√	2	1		
2.2		DIMENSIONAL VERIFICATION	MAJOR	MEASUREMENT	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	DIMENSION REPORT	√	2	1		
2.3		CALIBRATION	MAJOR	REVIEW	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	CALIBRATION TEST CERTIFICATE	√	2	--	1	

LEGEND: P: PERFORM, W: WITNESS, V: TEST CERTIFICATE REVIEW. INDICATE 1 FOR BHEL / BHEL NOMINATED INSPECTION AGENCY/END USER/END USER'S REPRESENTATIVE & 2 FOR VENDOR/SUB VENDOR AS APPROPRIATE AGAINST EACH COMPONENT /CHARACTERISTIC UNDER P, W & V COLUMNS. * FOR ITEMS MARKED ✓ (TICK) IN COLUMN 'D', TEST CERTIFICATES SHALL BE SUBMITTED TO BHEL FOR RECORDS.	PREPARED BY	APPROVED BY	APPROVED BY
			--NA--
	VENDOR's SIGNATURE & STAMP	BHEL QA SIGNATURE & STAMP	CUSTOMER'S SIGNATURE & STAMP (IF APPLICABLE)

बी एच ई एल BHEL		MANUFACTURING QUALITY PLAN						QP. NO.: PE&SD/MQP/FIP/02 REV.00					
		PROJECT ENGINEERING & SYSTEMS DIVISION BHEL, RC PURAM, HYD-502032				PRODUCT: INSTRUMENT		REV NO: 00		DATE: 27/12/2013			
								PAGE 2 OF 12					
SL NO	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY P W V			REMARKS
2.4		WEATHER PROOF	MAJOR	VERIFICATION	FOR ONE SAMPLE OF APPLICABLE DESIGN	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	IP CERTIFICATE	√	2	--	1	
2.5		GARANTEE PERFORMANCE	MAJOR	REVIEW	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	GUARANTEE CERTIFICATE	√	2	--	1	
3.0	PRESERVATION & PACKING												
3.1	COMPLETE ASSEMBLY	PACKING & PRESERVATION	MAJOR	PACKING	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	PACKING LIST	√	2	--	1	

NOTE:-

1. This standard MQP should be read along with specification (latest revision), approved drawings & approved data sheet.
2. Drawing/data sheet shall prevail over quality plan for contradiction if any between quality plan and drawing/specification.
3. All test certificates/reports reviewed and certified by TPI/BHEL shall be submitted to BHEL as documentation package.

LEGEND: P: PERFORM, W: WITNESS, V: TEST CERTIFICATE REVIEW. INDICATE 1 FOR BHEL / BHEL NOMINATED INSPECTION AGENCY/END USER/END USER'S REPRESENTATIVE & 2 FOR VENDOR/SUB VENDOR AS APPROPRIATE AGAINST EACH COMPONENT /CHARACTERISTIC UNDER P, W & V COLUMNS. * FOR ITEMS MARKED ✓ (TICK) IN COLUMN 'D', TEST CERTIFICATES SHALL BE SUBMITTED TO BHEL FOR RECORDS.	PREPARED BY	APPROVED BY	APPROVED BY
	VENDOR's SIGNATURE & STAMP	BHEL QA SIGNATURE & STAMP	CUSTOMER'S SIGNATURE & STAMP (IF APPLICABLE) --NA--

		MANUFACTURING QUALITY PLAN						QP. NO.: PE&SD/MQP/FIP/02 REV.00					
								REV NO: 00		DATE: 27/12/2013			
		PROJECT ENGINEERING & SYSTEMS DIVISION BHEL, RC PURAM, HYD-502032						PRODUCT: INSTRUMENT		PAGE 3 OF 12			
SL NO	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										P	W	V	

PRESSURE SWITCH

1.0	RAW MATERIALS & BOUGHT OUT ITEMS												
1.1	PRESSURE SWITCH	MATERIAL OF CONSTRUCTION	MAJOR	MATERIAL CONFIRMITY	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	MATERIAL COMPLIANCE CERTIFICATE	√	2	--	1	
2.0	FINAL INSPECTION & TESTING												
2.1	PRESSURE SWITCH	PHYSICAL VERIFICATION & MARKING CHECK	MAJOR	VISUAL	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	INSPECTION REPORT	√	2	1		
2.2		DIMENSIONAL VERIFICATION	MAJOR	VISUAL	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	DIMENSION REPORT	√	2	1		
2.3		CALIBRATION	MAJOR	REVIEW	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	CALIBRATION TEST CERTIFICATE	√	2	--	1	
2.4		WEATHER PROOF & HAZARDOUS AREA CERTIFICATE	MAJOR	VERIFICATION	FOR ONE SAMPLE OF APPLICABLE DESIGN	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	IP CERTIFICATE	√	2	--	1	

LEGEND: P: PERFORM, W: WITNESS, V: TEST CERTIFICATE REVIEW. INDICATE 1 FOR BHEL / BHEL NOMINATED INSPECTION AGENCY/END USER/END USER'S REPRESENTATIVE & 2 FOR VENDOR/SUB VENDOR AS APPROPRIATE AGAINST EACH COMPONENT /CHARACTERISTIC UNDER P, W & V COLUMNS. * FOR ITEMS MARKED ✓ (TICK) IN COLUMN 'D', TEST CERTIFICATES SHALL BE SUBMITTED TO BHEL FOR RECORDS.	PREPARED BY	APPROVED BY	APPROVED BY
	VENDOR's SIGNATURE & STAMP	BHEL QA SIGNATURE & STAMP	CUSTOMER'S SIGNATURE & STAMP (IF APPLICABLE)

--NA--

		MANUFACTURING QUALITY PLAN						QP. NO.: PE&SD/MQP/FIP/02 REV.00					
		PROJECT ENGINEERING & SYSTEMS DIVISION BHEL, RC PURAM, HYD-502032				PRODUCT: INSTRUMENT		REV NO: 00		DATE: 27/12/2013			
								PAGE 4 OF 12					
SL NO	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										P	W	V	
2.5		GUARANTEE PERFORMANCE	MAJOR	REVIEW	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	GUARANTEE CERTIFICATE	√	2	--	1	
3.0	PRESERVATION & PACKING												
3.1	COMPLETE ASSEMBLY	PACKING & PRESERVATION	MAJOR	PACKING	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	PACKING LIST	√	2	--	1	

NOTE:-

1. This standard MQP should be read along with specification (latest revision), approved drawings & approved data sheet.
2. Drawing/data sheet shall prevail over quality plan for contradiction if any between quality plan and drawing/specification.
3. All test certificates/reports reviewed and certified by TPI/BHEL shall be submitted to BHEL as documentation package.
4. All type test reports submitted shall not be older than 5 yrs from the date of purchase order.
5. Any project/customer specific requirements which shall be notified have to be fulfilled by the vendor at the time of execution of order.

LEGEND: P: PERFORM, W: WITNESS, V: TEST CERTIFICATE REVIEW. INDICATE 1 FOR BHEL / BHEL NOMINATED INSPECTION AGENCY/END USER/END USER'S REPRESENTATIVE & 2 FOR VENDOR/SUB VENDOR AS APPROPRIATE AGAINST EACH COMPONENT /CHARACTERISTIC UNDER P, W & V COLUMNS. * FOR ITEMS MARKED ✓ (TICK) IN COLUMN 'D', TEST CERTIFICATES SHALL BE SUBMITTED TO BHEL FOR RECORDS.	PREPARED BY	APPROVED BY	APPROVED BY
	VENDOR's SIGNATURE & STAMP	BHEL QA SIGNATURE & STAMP	CUSTOMER'S SIGNATURE & STAMP (IF APPLICABLE) --NA--

		MANUFACTURING QUALITY PLAN						QP. NO.: PE&SD/MQP/FIP/02 REV.00					
								REV NO: 00		DATE: 27/12/2013			
		PROJECT ENGINEERING & SYSTEMS DIVISION BHEL, RC PURAM, HYD-502032						PRODUCT: INSTRUMENT		PAGE 5 OF 12			
SL NO	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										P	W	V	

LEVEL SWITCH

1.0	RAW MATERIALS & BOUGHT OUT ITEMS												
1.1	LEVEL SWITCH	MATERIAL OF CONSTRUCTION	MAJOR	MATERIAL CONFIRMITY	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	MATERIAL COMPLIANCE CERTIFICATE	√	2	--	1	
2.0	FINAL INSPECTION & TESTING												
2.1	LEVEL SWITCH	PHYSICAL VERIFICATION & MARKING CHECK	MAJOR	VISUAL	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	INSPECTION REPORT	√	2	1		
2.2		DIMENSIONAL VERIFICATION	MAJOR	VISUAL	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	DIMENSION REPORT	√	2	1		
2.3		HIGH VOLTAGE TEST AT 2KV	MAJOR	TEST	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	TEST REPORT	√	2	--	1	
2.4		WEATHER PROOF	MAJOR	VERIFICATION	ON ONE SAMPLE OF APPLICABLE DESIGN/ MODEL	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	IP CERTIFICATE	√	2	--	1	

LEGEND: P: PERFORM, W: WITNESS, V: TEST CERTIFICATE REVIEW. INDICATE 1 FOR BHEL / BHEL NOMINATED INSPECTION AGENCY/END USER/END USER'S REPRESENTATIVE & 2 FOR VENDOR/SUB VENDOR AS APPROPRIATE AGAINST EACH COMPONENT /CHARACTERISTIC UNDER P, W & V COLUMNS. * FOR ITEMS MARKED ✓ (TICK) IN COLUMN 'D', TEST CERTIFICATES SHALL BE SUBMITTED TO BHEL FOR RECORDS.	PREPARED BY	APPROVED BY	APPROVED BY
	VENDOR's SIGNATURE & STAMP	BHEL QA SIGNATURE & STAMP	CUSTOMER'S SIGNATURE & STAMP (IF APPLICABLE)

--NA--

		MANUFACTURING QUALITY PLAN							QP. NO.: PE&SD/MQP/FIP/02 REV.00				
		PROJECT ENGINEERING & SYSTEMS DIVISION BHEL, RC PURAM, HYD-502032				PRODUCT: INSTRUMENT			REV NO: 00		DATE: 27/12/2013		
									PAGE 6 OF 12				
SL NO	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										P	W	V	
2.5		GUARANTEE PERFORMANCE	MAJOR	REVIEW	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	GUARANTEE CERTIFICATE	√	2	--	1	
2.6	EXTERNAL CHAMBER, FLOAT AND OTHER PRESSURE PARTS	IBR CERTIFICATE*	MAJOR	REVIEW	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	IBR FORM-III C	√	2	--	1	*if applicable
3.0	PRESERVATION & PACKING												
3.1	COMPLETE ASSEMBLY	PACKING & PRESERVATION	MAJOR	PACKING	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	PACKING LIST	√	2	--	1	

NOTE:-

1. This standard MQP should be read along with specification (latest revision), approved drawings & approved data sheet.
2. Drawing/data sheet shall prevail over quality plan for contradiction if any between quality plan and drawing/specification.
3. All test certificates/reports reviewed and certified by TPI/BHEL shall be submitted to BHEL as documentation package.
4. All type test reports submitted shall not be older than 5 yrs from the date of purchase order.
5. Any project/customer specific requirements which shall be notified have to be fulfilled by the vendor at the time of execution of order.

LEGEND: P: PERFORM, W: WITNESS, V: TEST CERTIFICATE REVIEW. INDICATE 1 FOR BHEL / BHEL NOMINATED INSPECTION AGENCY/END USER/END USER'S REPRESENTATIVE & 2 FOR VENDOR/SUB VENDOR AS APPROPRIATE AGAINST EACH COMPONENT /CHARACTERISTIC UNDER P, W & V COLUMNS. * FOR ITEMS MARKED ✓ (TICK) IN COLUMN 'D', TEST CERTIFICATES SHALL BE SUBMITTED TO BHEL FOR RECORDS.	PREPARED BY	APPROVED BY	APPROVED BY
	VENDOR's SIGNATURE & STAMP	BHEL QA SIGNATURE & STAMP	CUSTOMER'S SIGNATURE & STAMP (IF APPLICABLE) --NA--

		MANUFACTURING QUALITY PLAN						QP. NO.: PE&SD/MQP/FIP/02 REV.00					
		PROJECT ENGINEERING & SYSTEMS DIVISION BHEL, RC PURAM, HYD-502032				PRODUCT: INSTRUMENT		REV NO: 00		DATE: 27/12/2013			
		PAGE 7 OF 12											
SL NO	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY P W V			REMARKS

PRESSURE GAUGE

1.0	RAW MATERIALS & BOUGHT OUT ITEMS												
1.1	PRESSURE GAUGE	MATERIAL OF CONSTRUCTION	MAJOR	MATERIAL CONFIRMITY	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	MATERIAL COMPLIANCE CERTIFICATE	√	2	--	1	
2.0	FINAL INSPECTION & TESTING												
2.1	PRESSURE GAUGE	VISUAL & MARKING CHECK	MAJOR	VISUAL	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	INSPECTION REPORT	√	2	1		
2.2		CALIBRATION	MAJOR	REVIEW	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	CALIBRATION TEST CERTIFICATE	√	2	--	1	
2.3		WEATHER-PROOFNESS	MAJOR	TYPE TEST	ON ONE SAMPLE OF APPLICABLE DESIGN/ MODEL	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	IP CERTIFICATE	√	2	--	1	
2.4		GUARANTEE PERFORMANCE	MAJOR	REVIEW	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	GUARANTEE CERTIFICATE	√	2	--	1	
LEGEND: P: PERFORM, W: WITNESS, V: TEST CERTIFICATE REVIEW. INDICATE 1 FOR BHEL / BHEL NOMINATED INSPECTION AGENCY/END USER/END USER'S REPRESENTATIVE & 2 FOR VENDOR/SUB VENDOR AS APPROPRIATE AGAINST EACH COMPONENT /CHARACTERISTIC UNDER P, W & V COLUMNS. * FOR ITEMS MARKED ✓ (TICK) IN COLUMN 'D', TEST CERTIFICATES SHALL BE SUBMITTED TO BHEL FOR RECORDS.						PREPARED BY VENDOR's SIGNATURE & STAMP		APPROVED BY BHEL QA SIGNATURE & STAMP		APPROVED BY --NA-- CUSTOMER'S SIGNATURE & STAMP (IF APPLICABLE)			

		MANUFACTURING QUALITY PLAN						QP. NO.: PE&SD/MQP/FIP/02 REV.00					
								REV NO: 00		DATE: 27/12/2013			
		PROJECT ENGINEERING & SYSTEMS DIVISION BHEL, RC PURAM, HYD-502032						PRODUCT: INSTRUMENT		PAGE 8 OF 12			
SL NO	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										P	W	V	
3.0	PRESERVATION & PACKING												
3.1	COMPLETE ASSEMBLY	PACKING & PRESERVATION	MAJOR	PACKING	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	PACKING LIST	√	2	--	1	

NOTE:-

4. This standard MQP should be read along with specification (latest revision), approved drawings & approved data sheet.
5. Drawing/data sheet shall prevail over quality plan for contradiction if any between quality plan and drawing/specification.
6. All test certificates/reports reviewed and certified by TPI/BHEL shall be submitted to BHEL as documentation package.

LEGEND: P: PERFORM, W: WITNESS, V: TEST CERTIFICATE REVIEW. INDICATE 1 FOR BHEL / BHEL NOMINATED INSPECTION AGENCY/END USER/END USER'S REPRESENTATIVE & 2 FOR VENDOR/SUB VENDOR AS APPROPRIATE AGAINST EACH COMPONENT /CHARACTERISTIC UNDER P, W & V COLUMNS. * FOR ITEMS MARKED ✓ (TICK) IN COLUMN 'D', TEST CERTIFICATES SHALL BE SUBMITTED TO BHEL FOR RECORDS.	PREPARED BY	APPROVED BY	APPROVED BY
	VENDOR's SIGNATURE & STAMP	BHEL QA SIGNATURE & STAMP	CUSTOMER'S SIGNATURE & STAMP (IF APPLICABLE)

--NA--

		MANUFACTURING QUALITY PLAN						QP. NO.: PE&SD/MQP/FIP/02 REV.00					
								REV NO: 00		DATE: 27/12/2013			
		PROJECT ENGINEERING & SYSTEMS DIVISION BHEL, RC PURAM, HYD-502032						PRODUCT: INSTRUMENT		PAGE 9 OF 12			
SL NO	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
DIFFERENTIAL PRESSURE GAUGE													

1.0	RAW MATERIALS & BOUGHT OUT ITEMS												
1.1	DIFFERENTIAL PRESSURE GAUGE – SENSOR & CASE OF INSTRUMENT etc.	MATERIAL OF CONSTRUCTION	MAJOR	MATERIAL CONFIRMITY	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	MATERIAL COMPLIANCE CERTIFICATE	√	2	--	1	
2.0	FINAL INSPECTION & TESTING												
2.1	DIFFERENTIAL PRESSURE GAUGE	PHYSICAL VERIFICATION & MARKING CHECK	MAJOR	VISUAL	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	INSPECTION REPORT	√	2	1		
2.2		CALIBRATION	MAJOR	REVIEW	100%			CALIBRATION TEST CERTIFICATE	√	2	--	1	
2.3		WEATHER PROOF	MAJOR	TYPE TEST	ON ONE SAMPLE OF APPLICABLE DESIGN/ MODEL			IP CERTIFICATE	√	2	--	1	
2.4		ACCURACY TEST	MAJOR	TYPE TEST	ON ONE SAMPLE OF APPLICABLE DESIGN/ MODEL			TEST CERTIFICATE	√	2	--	1	

LEGEND: P: PERFORM, W: WITNESS, V: TEST CERTIFICATE REVIEW. INDICATE 1 FOR BHEL / BHEL NOMINATED INSPECTION AGENCY/END USER/END USER'S REPRESENTATIVE & 2 FOR VENDOR/SUB VENDOR AS APPROPRIATE AGAINST EACH COMPONENT /CHARACTERISTIC UNDER P, W & V COLUMNS. * FOR ITEMS MARKED ✓ (TICK) IN COLUMN 'D', TEST CERTIFICATES SHALL BE SUBMITTED TO BHEL FOR RECORDS.	PREPARED BY	APPROVED BY	APPROVED BY
	VENDOR's SIGNATURE & STAMP	BHEL QA SIGNATURE & STAMP	CUSTOMER'S SIGNATURE & STAMP (IF APPLICABLE)

--NA--

बी एच ई एल BHEL		MANUFACTURING QUALITY PLAN							QP. NO.: PE&SD/MQP/FIP/02 REV.00				
		PROJECT ENGINEERING & SYSTEMS DIVISION BHEL, RC PURAM, HYD-502032				PRODUCT: INSTRUMENT			REV NO: 00		DATE: 27/12/2013		
									PAGE 10 OF 12				
SL NO	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										P	W	V	
2.5		MAXIMUM WORKING PRESSURE WITHSTAND ABILITY	MAJOR	TYPE TEST	ON ONE SAMPLE OF APPLICABLE DESIGN/ MODEL	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	TEST CERTIFICATE	√	2	--	1	
2.6		GUARANTEE PERFORMANCE	MAJOR	REVIEW	100%			GUARANTEE CERTIFICATE	√	2	--	1	
3.0	PRESERVATION & PACKING												
3.1	COMPLETE ASSEMBLY	PACKING & PRESERVATION	MAJOR	PACKING	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	PACKING LIST	√	2	--	1	

NOTE:-

1. This standard MQP should be read along with specification (latest revision), approved drawings & approved data sheet.
2. Drawing/data sheet shall prevail over quality plan for contradiction if any between quality plan and drawing/specification.
3. All test certificates/reports reviewed and certified by TPI/BHEL shall be submitted to BHEL as documentation package.

LEGEND: P: PERFORM, W: WITNESS, V: TEST CERTIFICATE REVIEW. INDICATE 1 FOR BHEL / BHEL NOMINATED INSPECTION AGENCY/END USER/END USER'S REPRESENTATIVE & 2 FOR VENDOR/SUB VENDOR AS APPROPRIATE AGAINST EACH COMPONENT /CHARACTERISTIC UNDER P, W & V COLUMNS. * FOR ITEMS MARKED ✓ (TICK) IN COLUMN 'D', TEST CERTIFICATES SHALL BE SUBMITTED TO BHEL FOR RECORDS.	PREPARED BY	APPROVED BY	APPROVED BY
	VENDOR's SIGNATURE & STAMP	BHEL QA SIGNATURE & STAMP	CUSTOMER'S SIGNATURE & STAMP (IF APPLICABLE) --NA--

		MANUFACTURING QUALITY PLAN						QP. NO.: PE&SD/MQP/FIP/02 REV.00					
								REV NO: 00		DATE: 27/12/2013			
		PROJECT ENGINEERING & SYSTEMS DIVISION BHEL, RC PURAM, HYD-502032						PRODUCT: INSTRUMENT		PAGE 11 OF 12			
SL NO	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY P W V			REMARKS

LEVEL GAUGE

1.0 RAW MATERIALS & BOUGHT OUT ITEMS													
1.1	LEVEL GAUGE	MATERIAL OF CONSTRUCTION	MAJOR	MATERIAL CONFIRMITY	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	MATERIAL COMPLIANCE CERTIFICATE	√	2	--	1	
2.0 FINAL INSPECTION & TESTING													
2.1	LEVEL GAUGE	PHYSICAL VERIFICATION & MARKING CHECK	MAJOR	VISUAL	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	INSPECTION REPORT	√	2	1		
2.2		CORROSION TEST	MAJOR	TEST	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	TEST CERTIFICATE	√	2	--	1	
2.3		THERMAL SHOCK TEST	MAJOR	TEST	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	TEST CERTIFICATE	√	2	--	1	
2.4		HYDRAULIC TEST	MAJOR	TEST	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	TEST CERTIFICATE	√	2	--	1	

LEGEND: P: PERFORM, W: WITNESS, V: TEST CERTIFICATE REVIEW. INDICATE 1 FOR BHEL / BHEL NOMINATED INSPECTION AGENCY/END USER/END USER'S REPRESENTATIVE & 2 FOR VENDOR/SUB VENDOR AS APPROPRIATE AGAINST EACH COMPONENT /CHARACTERISTIC UNDER P, W & V COLUMNS. * FOR ITEMS MARKED ✓ (TICK) IN COLUMN 'D', TEST CERTIFICATES SHALL BE SUBMITTED TO BHEL FOR RECORDS.	PREPARED BY	APPROVED BY	APPROVED BY
	VENDOR's SIGNATURE & STAMP	BHEL QA SIGNATURE & STAMP	CUSTOMER'S SIGNATURE & STAMP (IF APPLICABLE)

--NA--

बी एच ई एल BHEL		MANUFACTURING QUALITY PLAN							QP. NO.: PE&SD/MQP/FIP/02 REV.00				
		PROJECT ENGINEERING & SYSTEMS DIVISION BHEL, RC PURAM, HYD-502032				PRODUCT: INSTRUMENT			REV NO: 00		DATE: 27/12/2013		
									PAGE 12 OF 12				
SL NO	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY P W V			REMARKS
2.5		IBR CERTIFICATE*	MAJOR	REVIEW	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	IBR FORM - III C	√	2	--	1	*if applicable
2.6		GUARANTEE PERFORMANCE	MAJOR	REVIEW	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	GUARANTEE CERTIFICATE	√	2	--	1	
3.0	PRESERVATION & PACKING												
3.1	COMPLETE ASSEMBLY	PACKING & PRESERVATION	MAJOR	PACKING	100%	Approved Datasheet/ Approved Drawing/ Tech. spec.	Approved Datasheet/ Approved Drawing/ Tech. spec.	PACKING LIST	√	2	--	1	

NOTE:-

7. This standard MQP should be read along with specification (latest revision), approved drawings & approved data sheet.
8. Drawing/data sheet shall prevail over quality plan for contradiction if any between quality plan and drawing/specification.
9. All test certificates/reports reviewed and certified by TPI/BHEL shall be submitted to BHEL as documentation package.

LEGEND: P: PERFORM, W: WITNESS, V: TEST CERTIFICATE REVIEW. INDICATE 1 FOR BHEL / BHEL NOMINATED INSPECTION AGENCY/END USER/END USER'S REPRESENTATIVE & 2 FOR VENDOR/SUB VENDOR AS APPROPRIATE AGAINST EACH COMPONENT /CHARACTERISTIC UNDER P, W & V COLUMNS. * FOR ITEMS MARKED ✓ (TICK) IN COLUMN 'D', TEST CERTIFICATES SHALL BE SUBMITTED TO BHEL FOR RECORDS.	PREPARED BY	APPROVED BY	APPROVED BY
	VENDOR's SIGNATURE & STAMP	BHEL QA SIGNATURE & STAMP	CUSTOMER'S SIGNATURE & STAMP (IF APPLICABLE) --NA--