

VENDOR'S NAME & ADDRESS:		<b>TYPICAL MANUFACTURING QUALITY PLAN</b>							MQP. NO.:				
		CUSTOMER: BHEL, HYDERABAD PROJECT: PRODUCT: <b>MODULE CLEANING SYSTEM</b>				BHEL PO No: PO DATE: BHEL SPEC:			REV:		REV NO:	DATE:	
		PAGE 1 OF 4											
SL NO	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
									P	W	V		

1	Pipes & Fittings for Bore well	Make, Type & Rating, BOM check, Material test certificates	Major	Physical	100%	BHEL Spec/ Appd drg /data sheet	BHEL Spec/ Appd drg /data sheet	IR	√	2		1	
		Hydro test(as applicable) and dimension check	Major	Physical	100%	As per relevant standards/ BHEL Spec	As per relevant standards/ BHEL Spec	IR	√	2		1	
2	3Hp or higher submersible pump with Motor	Make, Model, Type, & Rating, BOM check, Test Certificate or COC	Major	Physical	100%	As per relevant standards/ BHEL Spec	As per relevant standards/ BHEL Spec /	IR	√	2	1		
		Routine, type & acceptance test as per relevant standard	Major	Physical	100%	As per relevant standards/ BHEL Spec	As per relevant standards/ BHEL Spec	IR	√	2	1		1 sample /lot or 10% offered quantity whichever is more shall be witnessed by BHEL /BHEL TPIA
3	Single phase starter	Make, Model, Type, & Rating, BOM check, Test Certificate	Major	Physical	100%	BHEL Spec/ Appd drg /data sheet	BHEL Spec/ Appd drg /data sheet	IR	√	2		1	

LEGEND: P: PERFORM, W: WITNESS, V: VERIFICATION. INDICATE 1 FOR BHEL CQS (OR BHEL NOMINATED INSPECTION AGENCY) & 2 FOR VENDOR/SUB VENDOR 3. CUSTOMER /CUSTOMER'S CONSULTANT 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.

VENDOR'S NAME & ADDRESS:		TYPICAL MANUFACTURING QUALITY PLAN							MQP. NO.:				
		CUSTOMER: BHEL, HYDERABAD			BHEL PO No:				REV NO:		DATE:		
		PROJECT:			PO DATE:				PAGE 2 OF 4				
		PRODUCT: <b>MODULE CLEANING SYSTEM</b>			BHEL SPEC:								REV:
SL NO	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										P	W	V	
4	Storage Tank 1500L (Syntex or equivalent PVC storage tank)	Make, Test Certificate or COC	Major	Physical	100%	BHEL Spec/ Appd drg /data sheet	BHEL Spec/ Appd drg /data sheet	IR	√	2		1	
5	HDPE Pipe for Module Cleaning System,	Make, BOM check,	Major	Physical	100%	BHEL Spec/ Appd drg /data sheet	BHEL Spec/ Appd drg /data sheet	IR	√	2		1	
6	Nipple, Hose with gun, Valves, reducer	Make, Model, Type, & Rating, BOM check, Test Certificate	Major	Physical	100%	BHEL Spec/ Appd drg /data sheet	BHEL Spec/ Appd drg /data sheet	IR	√	2		1	
		Routine & Acceptance Test as per relevant standard	Major	Physical	100%	As per relevant standards/ BHEL Spec	As per relevant standards/ BHEL Spec	IR	√	2	1		1 sample /lot or 10% offered quantity whichever is more shall be witnessed by BHEL /BHEL TPIA
7	3HP or Higher Booster pump with motor	Make, Model, BOM check, Test Certificate	Major	Physical	100%	BHEL Spec/ Appd drg /data sheet	BHEL Spec/ Appd drg /data sheet	IR	√	2	1		

LEGEND: P: PERFORM, W: WITNESS, V: VERIFICATION. INDICATE 1 FOR BHEL CQS (OR BHEL NOMINATED INSPECTION AGENCY) & 2 FOR VENDOR/SUB VENDOR 3. CUSTOMER /CUSTOMER'S CONSULTANT 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.

VENDOR'S NAME & ADDRESS:		TYPICAL MANUFACTURING QUALITY PLAN							MQP. NO.:				
		CUSTOMER: BHEL, HYDERABAD			BHEL PO No:				REV NO:		DATE:		
		PROJECT:			PO DATE:				PAGE 3 OF 4				
		PRODUCT: <b>MODULE CLEANING SYSTEM</b>			BHEL SPEC:				REV:				
SL NO	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										P	W	V	
		Routine, type & Acceptance Test as per relevant standard	Major	Physical	100%	As per relevant standards/ BHEL Spec	As per relevant standards/ BHEL Spec	IR	√	2	1		1 sample /lot or 10% offered quantity whichever is more shall be witnessed by BHEL /BHEL TPIA
8	Measuring instruments	Make, Model, Type, & Rating, BOM check, Test Certificate	Major	Physical	100%	BHEL Spec/ Appd drg /data sheet	BHEL Spec/ Appd drg /data sheet	IR	√	2		1	
9	Cable	Make, Model, Type, & Rating, BOM check, Test Certificate	Major	Physical	100%	BHEL Spec/ Appd drg /data sheet	BHEL Spec/ Appd drg /data sheet	IR	√	2		1	
10	PACKING	Proper packing	Major	Visual	100%	BHEL Spec	BHEL Spec	Report/ Packing list	√	2		1	

**Notes:-**

1. This MQP should be read along with specification (latest revision as per PO), approved drawings & approved datasheet.
2. Drawing/datasheet shall prevail over quality plan for contradiction if any.
3. Any project/customer specific requirements which shall be notified have to be fulfilled by the vendor at the time of execution of order.
4. **This is an indicative list of tests /checks. The manufacturer is to furnish each equipment wise detailed QAP in BHEL format which is attached separately indicating practice and procedure (meeting IS /IEC /relevant standards) along with relevant supporting documents.**

LEGEND: P: PERFORM, W: WITNESS, V: VERIFICATION. INDICATE 1 FOR BHEL CQS (OR BHEL NOMINATED INSPECTION AGENCY) & 2 FOR VENDOR/SUB VENDOR 3. CUSTOMER /CUSTOMER'S CONSULTANT 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.

VENDOR'S NAME & ADDRESS:		<b>TYPICAL MANUFACTURING QUALITY PLAN</b>							MQP. NO.:				
		CUSTOMER: BHEL, HYDERABAD			BHEL PO No:				REV NO:	DATE:			
		PROJECT:			PO DATE:				PAGE 4 OF 4				
		PRODUCT: <b>MODULE CLEANING SYSTEM</b>			BHEL SPEC:		REV:						
SL NO	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										P	W	V	

Abbreviations:-

MTC – Material Test certificate

IBR – Indian Boiler Regulations

DFT – Dry Film Thickness

PMI – Positive Material Identification

IR – Inspection Record

AS – Alloy Steel

SS – Stainless Steel

TC – Test Certificate

IS – Indian Standards

LEGEND: P: PERFORM, W: WITNESS, V: VERIFICATION. INDICATE 1 FOR BHEL CQS (OR BHEL NOMINATED INSPECTION AGENCY) & 2 FOR VENDOR/SUB VENDOR 3. CUSTOMER /CUSTOMER'S CONSULTANT 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.