

<b>Manufacturer's Logo, if available</b> Format No		<b>MANUFACTURER'S NAME &amp; ADDRESS:</b>		<b>MANUFACTURING QUALITY PLAN</b>				<b>PROJECT:</b> <b>BHEL PO NO &amp; DATE:</b> <b>MQP NO:</b> <b>DATE: DD/MM/YYYY</b>				<b>REV NO:</b> <b>PAGE: 1 OF 2</b>	
				<b>PRODUCT:</b>									
<b>SUB-SYSTEM :</b>													
SL. NO	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY			REMARKS	
1	2	3	4	5	6	7	8	9	D**	**	10	11	
<b>1.0 RAW MATERIALS &amp; BOUGHT OUT ITEMS (BOI):</b>													
									√				
									√				
									√				
<b>2.0 INPROCESS CONTROLS:</b>													
									√				
									√				
									√				
<b>3.0 FINAL INSPECTION :</b>													
									√				
									√				
									√				
<b>4.0 PAINTING, MARKING, PACKING AND PRESERVATION:</b>													
									√				
									√				

**QP shall be submitted in the format incorporating following minimum checks, format to be signed, sealed as token of acceptance**

- a. Raw materials test certificate review (chemical & Mechanical tests) - per heat / heat treatment batch and NDT test (if applicable).
- b. BOI Items (if any) - Review of reports in line with specification.
- b. In process inspection stages like heat treatment, machining etc (as applicable)
- c. Visual & Dimension inspection, functional test (if applicable) (witness by BHEL TPI)
- d. Packing, Painting & preservation details
- e. Any other relevant stages as per specification / standard

**Annexure Q (Quality requirements format) shall be filled in, signed and sealed:**

		<b>LEGEND:</b> * <b>RECORDS</b> IDENTIFIED WITH “TICK” (√) SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN QA DOCUMENTATION. <b>** M:</b> MANUFACTURER, <b>C:</b> BHEL / BHEL AIA, <b>N:</b> CUSTOMER; <b>P:</b> PERFORM, <b>W:</b> WITNESS, <b>V:</b> VERIFICATION; <b>CLASS:</b> A - CRITICAL; B - MAJOR; C – MINOR; <b>MTC-</b> MILL /MANUFACTURER'S TEST CERTIFICATE; <b>IR-</b> INSPECTION REPORT.
<b>PREPARED BY</b>	<b>REVIEWED &amp; APPROVED BY</b>	
<b>MANUFACTURER</b>	<b>MAIN SUPPLIER (BHEL)</b>	
<b>SIGNATURE &amp; SEAL</b>		

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1	2	3	4	5	6	7	8	9	D** ** 10			11

- NOTES:**
- Latest revision of standards & specifications shall apply.
  - Materials shall be procured in compliance to Functional Technical Specification.
  - Inspection shall be in compliance with approved Quality Control Procedure for the product.
  - Qualified Personnel shall carry out NDT with compliance to approved NDT Procedures and Acceptance Norms, as per ASME Section V.
  - Gauges and measuring Instruments, with valid calibration only shall be used
  - Cleaning and Painting of products shall be carried out as per Approved Painting Schedule as applicable.
  - Finished Products shall be packed to comply with approved Packing Schedule.
  - BHEL Authorized representatives shall have the right to witness the necessary inspection and testing of goods mentioned in the PO. Inspection / Inspection wavier / approval by BHEL does not absolve Supplier's responsibility for conformity of the specification as per the terms of PO.
  - QA Documentation package shall include copy of approved Data Sheets/ Drawings & QP, along with all Material Test Certificate (MTCs), CHPs, Material Dispatch Clearance Certificate for all items.
  - This QP shall be read along with relevant PO, BHEL drawing and approved data sheet.
  - This QP is applicable for mandatory spare also as applicable.

		<b>LEGEND:</b> * <b>RECORDS</b> IDENTIFIED WITH “TICK” (✓) SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN QA DOCUMENTATION. <b>** M:</b> MANUFACTURER, <b>C:</b> BHEL / BHEL AIA, <b>N:</b> CUSTOMER; <b>P:</b> PERFORM, <b>W:</b> WITNESS, <b>V:</b> VERIFICATION; CLASS: A - CRITICAL; B - MAJOR; C – MINOR; MTC- MILL /MANUFACTURER'S TEST CERTIFICATE; IR- INSPECTION REPORT.
<b>PREPARED BY</b>	<b>REVIEWED &amp; APPROVED BY</b>	
<b>MANUFACTURER</b>	<b>MAIN SUPPLIER (BHEL)</b>	
SIGNATURE & SEAL		

Annexure Q		
	Indent No:	Enquiry no:
Sl.No	BHEL / Customer Requirements	## Specific confirmations by the manufacturer (Acceptable/Not acceptable)
1	<b>Quality Plan Requirement: (If SQP is not given &amp; Vendor QP applicable)</b>	
	(i) MQP (Manufacturing Quality Plan) shall be submitted in attached format for BHEL/Customer review & approval. Our SQP/Typical MQP/ MQP Format is attached for guidance & use.	
	(ii) MQP shall invariably cover w.r.t Inward inspection including on Raw material Procurement, In process and Final inspection in elaborated way/details.	
	(iii) Bidder shall also to give specific confirmation that on need basis, their competent officials shall visit to BHEL / customer for finalization of Quality plan including test procedure/methodology during preaward / post award approval / detailed engineering in the event of an order.	
	(iv) No deviation on BHEL/Customer approved MQP/ SQP (In case BHEL SQP is provided) is acceptable.	
	(v) Bidder shall agree to submit all cross referred documents other than codes/standards to BHEL/Customer/Consultant.	
	<b>Important Notes shall be included in MQP :</b> (a) Latest revision of Standard s & Specification shall apply. Only International Standards are applicable. (b) Materials shall be procured in compliance to Functional Technical Specification. (c) Inspection shall be in compliance with Approved Quality Control Procedure for the Product. (d) NDT shall be carried out by Qualified Personnel with compliance to Approved NDT Procedures and Acceptance Norms, as per ASME standard. (e) Gauges and measuring Instruments, with valid calibration only shall be used. (f) Cleaning and Painting of products shall be carried out as per Approved Painting Schedule. (g) Finished Products shall be packed to comply with Approved Packing Schedule. (h) Welding shall be carried out by Qualified Personnel with compliance to Approved NDT Procedures and Acceptance Norms, as per ASME standard.	
2	<b>Domestic / Inland Inspection</b> will be carried out by BHEL/BHEL appointed Third Party Inspection Agency (TPIA) / Customer/Customer Appointed Inspection Agency/Consultant. This is applicable for all Stage inspection and Final Inspection identified as "W" - Witness or "CHP" - Customer Hold Point as per customer approved Quality Plan/ Technical specification / Approved Drawing/ Approved Data sheet / Scheme / PID / PFD / SLD (Process Instrumentation Diagram / Process Flow Diagram / Single Line Diagram) etc. (as applicable).	
3	<b>Inspection Agency for Foreign Bidders and also for Indian Bidder but importing from Foreign Sources:</b> (1) Any one of the following Third Party Inspection Agency (TPIA) shall be appointed by the bidder and same shall be furnished by the bidder in techno commercial bid itself. (2) The details of TPIA with contact details like Name of the official, Phone no, Email id shall also to be submitted during pre/post award. However cost for such inspection agency shall be borne by the bidder only. Inspection charges for such inspection agency shall be indicated separately so that if BHEL/Customer is undertaking the inspection by on their own , then these charges are non claimable by the bidder. <b>List of TPIA</b> 1.M/s Bureau Veritas 2.M/s TUV-Nord 3.M/s TUV-SUD 4.M/s TUV Rheinland 5.M/s Lloyds Register 6.M/s SGS 7.M/s Germanischer Lloyds 8.M/s QUEST 9.M/s Certification Engineers International 10.M/s Intertek 11.M/s IR Class Systems and Solutions 12.M/s DNV 13. M/s Fichtner 14. M/s ABS Inspection Services	

Sl.No	BHEL / Customer Requirements	## Specific confirmations by the manufacturer (Acceptable/Not acceptable)
4	<b>Stage Inspection during manufacturing Process :</b> Stage Inspection during manufacturing shall be carried out as per approved quality plan and all necessary documents shall be provided for review, verification and clearance for further processing. This inspection call shall be given well in advance (at least 2 weeks before) to TPI/Bidder's own inspection agency to avoid delay in the manufacturing processes.	
5	<b>Inspection before despatch for domestic supplier :</b> Inspection before despatch at supplier's works shall be carried out by BHEL appointed Inspection agency (as in Sl no. 2). Inspection shall be done as per approved Quality plan/ Technical specification/ Approved Drawing/ Approved Data sheet .	
6	<b>Inspection at Foreign Source/Supplier:</b> (a) As in sl no: 3. shall be ensured without fail (b) No material / items shall be despatched without getting the written communication from BHEL / Customer inspection carried out by Bidder appointed Third Party Inspection Agency (As per Sl no.3) / Customer/Customer Appointed Inspection Agency/Consultant. This is applicable for all Stage inspection and Final Inspection identified as "W" - Witness or "CHP" - Customer Hold Point as per customer approved Quality Plan/ Technical specification / Approved Drawing/ Approved Data sheet / Scheme / PID / PFD / SLD (Process Instrumentation Diagram / Process Flow Diagram / Single Line Diagram) etc. (As applicable). Inspection before despatch for Foreign supplier : Inspection before despatch at supplier's works shall be carried out by bidder appointed inspection agencies having international presence at vendors and or vendor's sub vendor works. Inspection shall be done as per approved Quality plan/ Technical specification/ Approved Drawing/ Approved Data sheet by TPIA mentioned in Sl no: 03 at supplier's cost.	
7	<b>Painting</b> shall be done strictly as per BHEL/Customer approved painting schedule / scheme only. Paint Thickness / Paint shade shall be ensured as per BHEL / Customer approved painting schedule / specification / data sheet etc. No deviation is acceptable unless otherwise accepted by BHEL/Customer in writing. Any conflict if any among BHEL / Customer approved painting schedule / Spec / data sheet etc. shall be brought to the notice of BHEL well in advance before proceeding including the BOI being procured for assy / skid like motors etc.	
8	Specific conformation for document package in the event of an order (2 Hard copies & soft copy in PDF file) is to be given containing the following with proper linkages (i) Index Sheet (ii) MQP/RQP/Endorsement Sheet (As applicable) (iii) TCs identified by BHEL/ Customer for record for "CHP" / "W" and Verification portion ("V") as given in approved QP. (iv) Final inspection report + TC including Chemical + Mechanical + HT + NDT etc. (v) Third party Inspection report + TC (vi) Customer CHP/ MDCC (vii) Type test / Performance Test reports conducted (viii) Type test / Performance Test approval/ clearance obtained from BHEL/Customer (ix) BOM with As Build Drgs with actual make / rating used with BHEL/customer approved drawings.	
9	<b>Packing / Seaworthy Packing</b> shall be as per BHEL Packing schedule / approved drg / sketch. This shall be ensured to take care transit / handling / transshipment in Road / Sea / Air. Photographs are to be submitted for BHEL review before despatching the material as per contract conditions.	
10	<b>Outsourcing of test facilities:</b> Bidder shall ensure all the testing facilities in house. However If any of the test facilities are not available with successful bidder, then bidder shall ensure the same at NABL accredited third party lab / Govt / Govt Lab for major testing such as NDT, Electrical & Mechanical testing.	
11	<b>Important Note:</b> No deviation on the above requirement 01 to 10 is acceptable with respect to Quality Requirement and those offers not meeting these specific customer requirement is liable for rejection and hence the bidder shall submit all the required documentary evidences in the offer itself.	
12	## Necessarily to be filled up by the bidder at the time of offer itself otherwise the offer may not be considered w.r.t Quality Requirement being customer specific requirement.	
VENDOR SIGN AND STAMP:		Vendor Name & Address: