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QUALITY CONTROL PLAN

This example of QC Plan is designed mainly for the inspection of Goods. For Services, the QC Plan would usually be simpler, focusing on confirming key deliverables (reports, milestones...). For Works, the QC Plan would usually be more specific to the construction sector to confirm the quality of the Work. Please contact the Senior Director of Global Procurement and the Infrastructure team for more information on QC Plan for Work.

PR/MAR #: PR AMB 005	Tender #: AMB-RFP-005
PR/MAR Description: PLTS Refurbishment on Tiga Island	

A QC Plan should detail the procedures to inspect and determine the acceptability of the goods, services, and works received.

The Originator is responsible for submitting the initial Quality Control Plan (QC Plan) with the Purchase Request (PR) and the Tender Initiation Request, for all High-Value Tenders (USD \$150,000 and greater) -See section 5.16 of the FP3.

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Essential Specifications and Testing Requirements

PV Module (Goods)

Parameter	Target Value	Margin of Error (Absolute or Relative) ¹	Testing Method (Lab Test, Visual, Certificate...)	Performed / Reviewed by:
Power Output (Wp)	410	- 3%	Visual (Label)	QC Team
Temperature de rating Coefficient maximum (%)	0,4	N/A	Visual (Label)	QC Team
Minimum Efficiency(%)	20	N/A	Visual (Label)	QC Team
Nominal Output warranty after 10 years(%)	90	N/A	Visual (Label)	QC Team
Nominal Output warranty after 25 years(%)	80	N/A	Visual (Label)	QC Team
Number of Module Strings				

PV Module Mounting (Goods)

Parameter	Target Value	Margin of Error (Absolute or Relative)	Test (Lab, Visual, Certificate...)	Performed / Reviewed by:
Tilt Oriented	10	NA	LabTest	QC Team
Minimum Designed Wind Gusts (m/s)	32	NA	Lab Test	QC Team
Maksimum Self shading losses (%)	2,5	NA	Simulation Report	QC Team

PV Inverter (Goods)

Parameter	Target Value	Margin of Error (Absolute or Relative)	Test (Lab, Visual, Certificate...)	Performed / Reviewed by:
Minimum Quantity	2	NA	Visual (Label)	QC Team
Minimum Efficiency (%)	97	NA	Visual (Label)	QC Team
Minimum Protection rating	IP 65	NA	Certificate	QC Team
Minimum Standard Warranty (Years)	5	NA	Certificate	QC Team

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Battery Inverter (Goods)				
Parameter	Target Value	Margin of Error (Absolute or Relative)	Test (Lab, Visual, Certificate...)	Performed / Reviewed by:
Minimum installed Capacity (kW)	30	NA	Visual (Label)	QC Team
Minimum peak Capacity (kW)	50	NA	Visual (Label)	QC Team
Minimum Efficiency (%)	94	NA	Visual (Label)	QC Team
Minimum Quantity	2	NA	Visual (Label)	QC Team
Minimum Standard Warranty (Years)	5	NA	Certificate	QC Team
Battery Energy Storage System (Goods)				
Parameter	Target Value	Margin of Error (Absolute or Relative)	Test (Lab, Visual, Certificate...)	Performed / Reviewed by:
Chemistry	LI-Ion	NA	Visual (Label)	QC Team
Minimum installed Capacity (kW)	30	NA	Visual (Label)	QC Team
Minimum peak Capacity (kW)	50	NA	Visual (Label)	QC Team
Round Trip Efficiency (%)	85	NA	Visual (Label)	QC Team
Maximum Self discharge related to capacity(%)	5	NA	Visual (Label)	QC Team
Minimum retain capacity after 10 years (%)	60	NA	Certificate	QC Team
Minimum Standard Warranty (Years)	10	NA	Certificate	QC Team
Diesel Generator (Goods)				
Parameter	Target Value	Margin of Error (Absolute or Relative)	Test (Lab, Visual, Certificate...)	Performed / Reviewed by:
Power Output (kW)	20	+ - 5%	Visual (Label)	QC Team
Voltage (V)	400	+ - 5%	Visual (Label)	QC Team

¹ A relative margin of error will be indicated as a percent (example: +-5%); an absolute margin of error will be indicated as a value (example: +- 5cm)

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Frequency (hz)	50	+ - 1%	Visual (Label)	QC Team
Rated Speed (rpm)	1500	NA	Visual (Label)	QC Team
Fuel Tank capacity (litre)	500	NA	Visual (Label)	QC Team

Genset Controller (Goods)

Parameter	Target Value	Margin of Error (Absolute or Relative)	Test (Lab, Visual, Certificate...)	Performed / Reviewed by:
Reputable Brand	ComAp	NA	Visual (Label)	QC Team

Example: Engineering, Procurement & Construction (Service)

Parameter	Target Value	Margin of Error (Absolute or Relative)	Testing Method (Lab, Visual, Certificate...)	Performed / Reviewed by:
ISO 14001	N/A	N/A	Certification	Originator
ISO 9001	N/A	N/A	Certification	Originator
OHSAS 18001	N/A	N/A	Certification	Originator

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Contract Testing Requirements

- For Goods, **describe the sampling size that will be inspected** (% or value), the frequency of the inspection (per truck, per shipment, per order...), and the percentage of the tested sampling that needs to fail for the entire order to be considered as non-conforming².
- For Services, describe briefly how you plan to confirm the deliverables and the parameters for non-conformity.
- For Works, contact the Senior Director of Global Procurement and the Infrastructure Team for more guidance.

This can also be broken down into specific items if some items are simply more important than others. For example if food items are included in an order with NFIs, 100% of food items may need to pass or they are considered non-conforming, whereas it may only be 50% of the goods to be checked for NFIs. This information should be included as part of the tender.

Example: (Goods)

Percent of goods to be tested -Sampling size- (%)	Frequency	Percent of tested sampling that needs to fail for the entire order to be considered non-conforming (%)
10%	Per order (PO)	95%

For details testing each components and services in Technical specifications as attached

See “**Quality Control Inspection Form**” examples in [Wiki](#) (or DL)

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Non-Conformance

- **Define what to do in cases of non-conformance to agreed quality standards.** Any contractual penalties to be applied and the process to follow in case of potential disagreements with the vendor must be included in the contract. There needs to be clear procedures on how to handle sub-standard goods, services, works, and item substitutions (including penalties if applicable).
- **Update the Tender Initiation Request, the Tender Package and the sample contract** with the required non-conforming clauses in order for Mercy Corps to enforce the inspection processes and the impact for non-conforming items.

² A non-conforming item (or deliverable) is an item (or deliverable) that fails to meet the agreed quality standards (per contractual agreement)