



MINISTRY OF DEFENCE (DGQA)

STANDARD QUALITY ASSURANCE PLAN SEWAGE TREATMENT PLANT, INTEGRATED VACUUM TOILET AND FIXED H₂S GAS DETECTION & ALARM SYSTEMS

STANDARD QAP NO.
DGQA/DQA(WP)/SEWAGE TREATMENT PLANT/32/2022/REV 0 dated
19 DEC 22

Total Nos. of Pages:23

ISSUING AUTHORITY

DIRECTORATE OF QUALITY ASSURANCE (WARSHIP PROJECT)
MINISTRY OF DEFENCE (DGQA)
6TH FLOOR, 'B' BLOCK, DEFENCE OFFICE COMPLEX
SAROJINI NAGAR PO, NEW DELHI – 110 023



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RECORD OF AMENDMENTS

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MINISTRY OF DEFENCE (DGQA)

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**STANDARD QAP NO.
DGQA/DQA(WP)/SEWAGE TREATMENT
PLANT/32/2022/REV 0**

C. Kamalakkannan

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Rear Admiral
ADGQA(WP)
19 Dec 2022

Promulgated by:-

**DIRECTORATE OF QUALITY ASSURANCE (WARSHIP PROJECT)
MINISTRY OF DEFENCE (DGQA)
6TH FLOOR, 'B' BLOCK, DEFENCE OFFICE COMPLEX
SAROJINI NAGAR PO, NEW DELHI – 110 023**

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CONDITION OF RELEASE

1. This standard QAP has been prepared for use of the Indian Navy and of its contractors to follow the specified Quality Assurance procedure during the execution of the contracts. No alteration is to be made to this Standard QAP except by the issue of authorised amendment by DQA(WP).
2. It is to be applied as required in the Quality Assurance procedures covering manufacture of Sewage Treatment Plant (STP) for *IN* Ships.
3. The website <http://www.dgqa defence.gov.in> may also be referred for other QA requirements.
4. The Standard QAP has been prepared on the basis of decisions made in consultations with leading manufacturers of STP, representatives of professional directorates and inspection agencies. Any user of this Standard QAP either within DGQA / Indian Navy or in industry may propose an amendment to it with valid justification. Proposals not applicable to particular contract can be sent directly to DQA(WP), New Delhi, and those directly applicable to a particular contract are to be dealt with using contract procedures.
5. DQA(WP) reserves the right to amend or modify the contents of this Standard QAP without consulting or informing any holder of this document.
6. When this Standard QAP is incorporated into contracts, users are responsible for their correct application and for complying with contractual and other statutory requirements. Compliance with Standard QAP does not of itself confer immunity from legal obligations.
7. Enquiries in connection to these requirements may be made from:

Directorate of Quality Assurance (Warship Projects)
Ministry of Defence
6th Floor, 'B' Block,
Defence Office Complex
Sarojini Nagar P.O.
New Delhi – 110 023

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LIST OF ANNEXURES

SI.No.	Annexure No.	Topic
1.	Annexure – I	DQA(N) Policy letter No. 66301/POLICY/DQA(N)/SG dated 14 Nov 17 regarding inspection of imported items
2.	Annexure – II	DQA(N) Policy letter No. 12575//POLICY/DGQA/WP-TC dated 25 Mar 22 regarding Qualification of NDT Personnel through ASNT
3.	Annexure – III	DQA(WP) Policy letter No. 12575/POLICY/DGQA/WP-TC dated 28 Sep 20 regarding Guidelines for approval of SQAPs/QAPs.
4.	Annexure – IV	DQA(WP) Policy letter No. 12575/POLICY/DGQA/WP-TC dated 14 Jun 21 regarding use of approved QAP for replenishment order.

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STANDARDS INVOKED

S. No.	Specification No.	Description
1	NES 712	Requirement of Sewage and Waste Water System
2	BR 3021 (NSS-II)	Requirements for High Impact Shock Tests, Shipboard Equipment and Systems
3	MIL-STD-167	Mechanical vibrations of Shipboard Equipment
4	MIL-STD-740B	Airborne and Structure borne noise measurements and Acceptance Criteria of Shipboard Equipment
5	NES 723	Tally Diagram Plates
6	MIL-STD-461D E/F	EMI/EMC Requirement for Electrical Equipments
7	EED-Q-071(Rev.4)	Electrical Specification for AC Motors
8	JSS 55555	Environmental Tests Methods for Electronic and Electrical Equipment
9	NCD 3930	Statement of Technical Requirements for Integrated Vacuum Toilet, Sewage Treatment and Fixed Hydrogen Sulphide Gas Detection and Alarm System for IN Ships

Note: - The Standards given are indicative only. The specifications / standards and parameters given in the SOTR / Technical Specification (TSP) / MoM of TNC / Approved drawings will be final and binding.

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ABBREVIATIONS

ABN	Air Borne Noise
ACCP	ASNT Central Certificate Program
ASME	American Society of Mechanical Engineers
ASNT	American Society of Non-destructive Testing
ATP	Approved Test Procedure
CHP	Customer Hold Point
CoC	Certificate of Conformance
COTS	Commercial-off-the-shelf
DBoM	Detailed Bill of Material
DI	Dimensional Inspection
DPT	Dye Penetrant Test
FATs	Factory Acceptance Trials
GA	General Arrangement
I-Note	Inspection Note
IFATs	Integrated Factory Acceptance Trials
IR	Inspection Report by Vendor
ITC	Inspection and Test Certificate
ISNT	Indian Society of Non-destructive Testing
MO	Material Organisation
MoM	Minutes of Meeting
MPT	Magnetic Particle Test
MTC	Manufacture Test Certificate
NABL	National Accreditation Board for Testing and Calibration Laboratories
NDE	Non Destructive Evaluation
NDT	Non Destructive Testing
NSTL	Naval Science and Technological Laboratory
OEM	Original Equipment Manufacturer
OPA	Order Placing Authority
P	Perform by
PCN	Personnel Certification in Non Destructive Testing
PIL	Parts Identification List
PO	Purchase Order
PQR	Procedure Qualification Record
QA	Quality Assurance
QAE	Quality Assurance Establishment
QAO	Quality Assurance Officer
QAP	Quality Assurance Plan
R	Review by

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ABBREVIATIONS

RT	Radiography Testing
SBN	Structure Borne Noise
SOTR	Statement of Technical Requirement
SQAP	Standard Quality Assurance Plan
STC	Supplier Test Certificate
TC	Test Certificate
TNC	Technical Negotiation Committee
TSP	Technical Specification Particulars
TT	Type Test
UT	Ultrasonic Testing
VI	Visual Inspection
W	Witness by QA Rep.
WPQ	Welder Performance Qualification
WPS	Welding Procedure Specification

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SPECIFIC REQUIREMENTS

1. Testing of physical, chemical properties and specific tests (wherever mentioned) has to be done by NABL accredited lab (including firm's NABL accredited lab).
2. Make of the outsourced items should be as per approved PIL/Detailed Bill of Material (DBoM) or Naval approved sources
3. Imported items will be inspected in accordance with DQA(N) Policy No. 66301/Policy/DQA(N)/SG dated 14 Nov 17 (**Annexure-I**), as amended from time to time. Normally, following documents are inspected:-
 - (a) Copy of one among Bill of Lading / Shipping Bill / Airway bill
 - (b) Invoice by OEM or Country of Origin Certificate of equipment with Packing List
 - (c) Bill of entry to warehousing
 - (d) The Certificate of Conformity(CoC) indicating governing specifications and values to which the items are tested along with OEM Test Certificates / Test Reports/catalogue/data Sheet.
 - (e) Guarantee / Warranteer Certificate from the supplier / OEM as per supply order.
4. All NDT to be performed in accordance with DQA(WP) Policy No. 12575/Policy/DGQA/WP-TC dated 25 Mar 22 (**Annexure-II**) and guidelines regarding qualification of NDT personnel are as follows:-
 - (a) **NDT Certification:** All NDT procedures are to be performed and / or sentenced by NDT personnel who have acquired the desired minimum qualification (Level II /III) through Central Certification Programs conducted by Certification Bodies like ISNT, ASNT and BINDT. The certification of these personnel should be in-date ad verifiable through the websites of the Certification Bodies. Certification of personnel through Employer Based Programs is not to be treated at par with Central Certification Programs.
 - (b) **Radiography (RT) and Ultrasonic Testing (UT).**
 - (i) **Procedure / Technique Sheet approval** – Level III (ASNT/ ISNT/ PCN/ equipment) certified personnel.
 - (ii) **Conduct of test** – Level II/III (ASNT/ ISNT/ PCN/ equivalent) certified personnel.
 - (iii) **Interpretation/ Sentencing** - Level III (ASNT/ ISNT/ PCN/ equivalent) certified personnel.

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(c) **Magnetic Particle Testing (MPT) and Dye Penetrant Testing (DPT).**

- (i) Procedure / Technique Sheet approval – Level III (ASNT/ ISNT/ PCN/ equipment) certified personnel.
- (i) Conduct of test – Level II/III (ASNT/ ISNT/ PCN/ equivalent) certified personnel.
- (iii) Interpretation/ Sentencing - Level III (ASNT/ ISNT/ PCN/ equivalent) certified personnel.

5. Ingress protection testing, wherever applicable, will be done as per applicable IP rating.
6. Type Test, EMI /EMC Test and EWT, wherever applicable, will be done at Government PSU test centers or NABL accredited labs. EMI / EMC Acceptance Test Plan is to be done vetted by NEC Mumbai.
7. If Type Testing have already been done in earlier projects on identical units, it will not be done again & the original reports of earlier tested units will have to be provided for review of Inspection Agency.
8. Guidelines for approval of SQAPs/QAPs, DQA(WP) policy letter 12575/POLICY/DGQA/WP-TC dated 28 Sep 20 **(Annexure-III)** is relevant.
9. For replenishment order, DQA(WP) policy letter 12575/POLICY/DGQA/WP-TC dated 14 Jun 21 **(Annexure- IV)** is relevant.

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10. Post promulgation of this SQAP, the manufacturer shall be required to submit confirmation to concerned QA Agency and OPA towards acceptance of SQAP either in totality or with some design specific inclusions and/or exclusions, if any, along with the following details.

- (a) Equipment name
- (b) Equipment technical details (as applicable)
- (c) Purchase Order reference
- (d) Sub/Sub-Sub Orders reference (as applicable)
- (e) Name of Main Indenter/ Ordering Authority
- (f) Name of end user, if available
- (g) Name of firm / manufacturer
- (h) SOTRs reference, if available
- (i) Yard No./ Name of ship where to be fitted (if available)/ End user
- (k) References of relevant drawings
- (l) QAP No. & Date (as indicated by the firm)
- (m) Contractual delivery date
- (n) Inspection Authority
- (p) Inspection Agency
- (q) Quantity (as applicable)
- (r) Inclusions, if any
- (s) Exclusions, if any

11. The SQAP along with the proposed inclusions/ exclusions approved by DQA(WP) shall be deemed as the approved QAP for the particular PO.

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SCOPE

Scope of Quality Assurance. The scope of Quality Assurance will cover witness and review of all manufacturing activities during all stages viz. raw material, in-process stage inspection and final stage inspection. The scope also covers the review and witness of Type Test of equipment, wherever applicable.

This Standard Quality Assurance Plan contains comprehensive list of inspections and/or trials that is to be applicable for quality assurance of the equipment. In addition, quality assurance of equipment will also be governed by specific conditions laid down in SOTRs and 'Approved Drawings'. The inspections/ trials must be contemporary to latest technology/ techniques available in the industry at the time of placement of orders.

The following QA activities will be carried out during the inspection of the equipment:-

- (a) Visual Inspection
- (b) Dimensional Inspection
- (c) Review of Lab Test Certificates
- (d) Review of in-house Lab Testing, if applicable
- (e) Witness of Non-destructive testing viz. UT and MPI
- (f) Review of Non-destructive testing viz. DPT and RT
- (g) Review of Heat Treatment charts and mechanical testing reports of heat treated sample, as applicable
- (h) Review of Shock Test and ABN & SBN reports for qualification of type test, as applicable
- (i) Review of draft documentation and witness/ stamping of final documentation, as applicable
- (j) Issue of CHP clearance
- (l) Issue of I-Note/ Form-IV or Dispatch Clearance as applicable

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SYSTEM DESCRIPTION

Sewage Treatment Plant (STP) is a self contained and fully automatic equipment. The STP treats sewage in batches. Each batch takes approximately 2 hrs from inlet of sewage into the STP to effluent discharge overboard. All the processes take place in the reaction tank. Each batch process consists of the following process stages: -

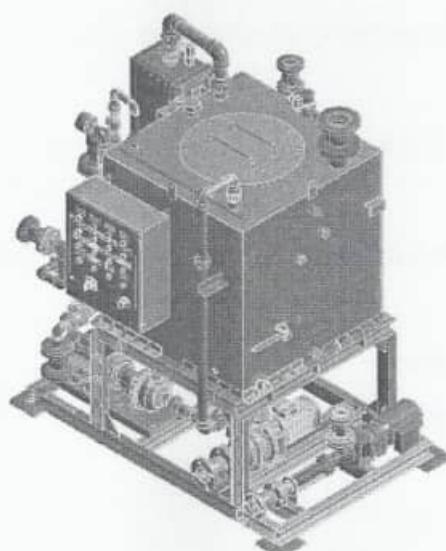
- Black waste water and sea water mixing stage
- Electrolysis process stage
- Separation phase
- Overboard effluent discharge

An independent collecting tank is used to hold black water (water from toilets), collection tank maintains atmospheric pressure. STP takes the sewage for treatment from collection tank. The sewage collection tank may be made of stainless steel, mild steel or other suitable alloys.

Vacuum Generator is an independent unit that generates vacuum in the vacuum piping network. It consists of two vacuum pumps, one operational and one standby. The pump starts when vacuum in the piping network drops below set vacuum.

Fixed H₂S Gas Detection System is to be provided with 02 sensors in STP compartment, in close vicinity of installed STP and one flasher/ hooter each inside the compartment/ near the access point, outside the compartment.

H₂S Gas Detector System control unit shall be activated to trigger the visual and audible alarms when the H₂S concentration reaches the set point.



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STANDARD QUALITY ASSURANCE PLAN

Part – I. General Information

The following generic information must generally be indicated on each QAP as its identity:-

- (a) Equipment Name
- (b) Equipment Technical Details (as applicable)
- (c) Purchase Order Reference
- (d) Sub/Sub-Sub Orders reference (as applicable)
- (e) Name of Main Indenter/ Ordering Authority
- (f) Name of End User
- (g) Name of Firm / Manufacturer
- (h) SOTRs Reference
- (j) Yard No./ Name of Ship where to be fitted (if available)/End User
- (k) References of Relevant Drawings
- (l) QAP No. & Date (as indicated by the firm)
- (m) Contractual Delivery Date
- (n) Inspection Authority
- (p) Inspection Agency
- (q) Quantity (as applicable)

Part – II. Technical Inspection / Trials

Standard Quality Assurance Plan of Sewage Treatment Plant **Appendix "A"**

Appendix-A

(Refers to Page 15, Part-II)

STANDARD QUALITY ASSURANCE PLAN FOR SEWAGE TREATMENT PLANT

 MINISTRY OF DEFENCE / DGQA DIRECTORATE OF QUALITY ASSURANCE (WP), NEW DELHI – 110023	STANDARD QAP NO. DGQA/DQA(WP)/SEWAGE TREATMENT PLANT/32/2022/REV-0							PAGE	16
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							FIRM	QAE		
1.00	DRAWINGS/DOCUMENTS/TYPE TEST									
1.01	GA Drawings of all Assemblies & sub assemblies along with DBOM & Binding Data	Check for availability of approved drawings and DBOM & Binding data	100%	As per PO/ SOTR/TNC Minutes	All approved drawings along with DBOM & Binding data are available	List of Approved Binding Drawings	P	R	CHP Approved binding data/drawing to be verified.	
1.02	Type Test reports for Vacuum Generator Vacuum Generator Control Panel H ₂ S Detector control panel & Sensors STP	Verification of Type Test Report.	100%	Purchase Order, GA drawings, Component drawings& SOTR/TNC Minutes	Equipment should have successfully undergone Type Test(as applicable)	Type Test Report	P	R	CHP Shipyard Orders. Type / Qualification test are to be conducted if not undertaken earlier or test certificate not held or equipment has undergone changes. MO Orders. Type / Qualification tests undertaken only, if mentioned in PO. Type Test Certificate of H ₂ S sensors/controller will be provided along with test & calibration report for the instrument from OEM. For imported equipment OEM Type Test Certificate to be submitted for review.	

SL. NO	MATERIAL/COMPONENT/ DRG.NO/ QUALITY ACTIVITY	CHARACTERISTIC/ TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENTS	ACCEPTANCE CRITERIA	FORMAT OF RECORD	AGENCIES		REMARKS
							FIRM	QAE	
2.00	<u>RAW MATERIALS INSPECTION/ IDENTIFICATION</u>								
2.01	Various sizes of plates/sheets for fabrication	Raw Material Identification & Physical Inspection	100%	Approved Drawing	Approved Drawing, SOTR, TSP & PO	IR	P	R	<ul style="list-style-type: none"> Samples for NABL testing to be drawn by firm along with photographic documentation indicating date-time stamp. Photographic documents to be shared with NABL and QA organization for traceability. NABL test report accompanied by photographic documentation of sample by NABL will be reviewed by QA rep. Conformity of material used in product with NABL report will be done by QA Rep using hand held spectrometers.
		Mechanical & Chemical	01 sample per lot	Approved Drawing	Approved Drawing, SOTR, TSP & PO	NABL TC	P	R	
2.02	Pipes	Raw Material Identification & Physical Inspection	100%	Approved Drawing	Approved Drawing, SOTR, TSP & PO	IR	P	R	<ul style="list-style-type: none"> Samples for NABL testing to be drawn by firm along with photographic documentation indicating date-time stamp. Photographic documents to be shared with NABL and QA organization for traceability. NABL test report accompanied by photographic documentation of sample by NABL will be reviewed by QA rep. Conformity of material used in product with NABL report will be done by QA Rep using hand held spectrometers.
		Mechanical & Chemical	01 sample per lot	Approved Drawing	Approved Drawing, SOTR, TSP & PO	NABL TC	P	R	
2.03	Sections for fabrication	Raw Material Identification & Physical Inspection	100%	Approved Drawing	Approved Drawing, SOTR, TSP & PO	IR	P	R	<ul style="list-style-type: none"> Samples for NABL testing to be drawn by firm along with photographic documentation indicating date-time stamp. Photographic documents to be shared with NABL and QA organization for traceability. NABL test report accompanied by photographic documentation of sample by NABL will be reviewed by QA rep. Conformity of material used in product with NABL report will be done by QA Rep using hand held spectrometers.
		Mechanical & Chemical	01 sample per lot	Approved Drawing	Approved Drawing, SOTR, TSP & PO	NABL TC	P	R	
2.04	Square Tube	Raw Material Identification & Physical Inspection	100%	Approved Drawing	Approved Drawing, SOTR, TSP & PO	IR	P	R	<ul style="list-style-type: none"> Samples for NABL testing to be drawn by firm along with photographic documentation indicating date-time stamp. Photographic documents to be shared with NABL and QA organization for traceability. NABL test report accompanied by photographic documentation of sample by NABL will be reviewed by QA rep. Conformity of material used in product with NABL report will be done by QA Rep using hand held spectrometers.
		Mechanical & Chemical	01 sample per lot	Approved Drawing	Approved Drawing, SOTR, TSP & PO	NABL TC	P	R	
3.00	<u>BOUGHT OUT ITEMS</u>								
3.01	Rubber Expansion Joints	As per latest approved QAP				IR & Release Note / Clearance Certificate	P	R	
3.02	Shock & Vibration Mounts	As per latest approved latest SQAP for SV Mounts				I-Note/ Form IV	P	R	
3.03	Vacuum Generator Control Panel	As per latest approved latest SQAP for Starter & Control Panel				I-Note/ Form IV	P	R	

SL. NO	MATERIAL/COMPONENT/ DRG.NO/ QUALITY ACTIVITY	CHARACTERISTIC/ TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENTS	ACCEPTANCE CRITERIA	FORMAT OF RECORD	AGENCIES		REMARKS			
							FIRM	QAE				
4.00	<u>COTS ITEMS</u>											
4.01	Pipe fittings	Product Identification	100%	Approved Drawings/Documents/OEM Catalogue / OEM Specifications	Approved Drawings/Documents/ OEM Catalogue / OEM Specifications	OEM TC/ STC/NABL TC	P	R	• For all COTS item, review for physical presence of the item and documents verification.			
4.02	Flanges	Product Identification	100%						• Review of physical presence of item will be done while the manufacturing is in process, will not be a CHP.			
4.03	Fasteners	Product Identification	100%									
4.04	Gasket	Product Identification	100%									
4.05	Locking Hinges	Product Identification	100%			OEM TC/STC /CoC						
4.06	Drain Valve	Product Identification	100%									
4.07	Vacuum Gauges	Product Identification	100%									
4.08	Isolation Valves of different sizes	Product Identification	100%			OEM TC/STC						
4.09	Shut off Valves of different sizes	Product Identification	100%									
4.10	Vacuum Scupper Drain	Product Identification	100%									
4.11	Stainless Steel Urinal Bowl	Product Identification	100%			Material TC from NABL approved Lab						
4.12	Porcelain Urinal Bowl	Product Identification	100%									
4.13	Manually Operated Gate Valve of different sizes	Product Identification	100%			OEM TC/STC						
4.14	Electronic Hooter with Flasher	Product Identification	100%									

SL. NO	MATERIAL/COMPONENT/ DRG.NO/ QUALITY ACTIVITY	CHARACTERISTIC/ TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENTS	ACCEPTANCE CRITERIA	FORMAT OF RECORD	AGENCIES		REMARKS
							FIRM	QAE	
5.00	<u>IMPORTED ITEMS</u>								
5.01	Level Switch	Product Identification	100%	Approved Drawings/Documents/OEM Catalogue /OEM Specifications	Against Import documents	IR	P	R	<ul style="list-style-type: none"> For all Imported items, review for physical presence of item and verification of import documents. Review of physical presence of item will be done while the manufacturing is in process, will not be a CHP. <p>Certificate of Conformity (CoC) indicating governing specifications and values to which the item are tested along with OEM test & calibration report is to be submitted for review, specifically for <u>Level Switch</u> and <u>Pressure Switch</u>.</p>
5.02	Vacuum pump with Motor & Rubber Isolator	Product Identification	100%						
5.03	Vacuum Toilet SS	Product Identification	100%						
5.04	Vacuum Toilet Porcelain	Product Identification	100%						
5.05	Vacuum Interface unit	Product Identification	100%						
5.06	Resilient Seat Gate Valves	Product Identification	100%						
5.07	Pipe couplings	Product Identification	100%						
5.08	Pressure Switch	Product Identification	100%						
5.09	Dosing Pump Set	Product Identification	100%						
5.10	H ₂ S gas detection sensor& control panel with Accessories	Product Identification	100%						Type Test Certificate of H ₂ S control panel is to be provided along with test & calibration report for H ₂ S sensor from OEM.

SL. NO	MATERIAL/COMPONENT/ DRG.NO/ QUALITY ACTIVITY	CHARACTERISTIC/ TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENTS	ACCEPTANCE CRITERIA	FORMAT OF RECORD	AGENCIES		REMARKS
							FIRM	QAE	
6.00	<u>STAGE INSPECTION/ SUB ASSEMBLY/ FABRICATION</u>								
6.01	Procedure & Welding Inspection (WPS,PQR,WPQ)	Suitability of Procedure, Welder Qualification & Conformance	100%	AWS D1.1 / ASME SEC. IX	AWS D1.1 / ASME SEC. IX	WPS/PQR/ WPQ	P	R	
6.02	Fabrication of Tank, Vacuum Generator, Piping Skid, Foundation, etc	Fabrication	100%	Approved Drawings	AWS D1.1 / ASME SEC. IX / Approved Drawing / Applicable Standard	WPS/PQR/ WPQ	P	R	Suitable NDT to be undertaken as per the approved drawing.
		NDT on Weld Joints				NDE Report	P	W/R	UT and MPI will be witnessed. DPT and RT will be reviewed.
		Visual & Dimensional Check			Approved Drawing	IR	P	W	
6.03	Hydrostatic test for tank / Pressure Test for pipes	No leakage	100%	Approved Drawing & SOTR	Approved Drawing & SOTR	IR	P	W	To be undertaken and proven as per measurement plan/ ATP in the approved drawing.
7.00	<u>FINAL INSPECTION</u>								
7.01	Final Assembly of STP having Collecting Tank and Vacuum Generator	Visual Inspection / Dimensional Inspection	100%	Approved Drawing	Approved Drawing, SOTR, TSP & PO	IR	P	W	
8.00	<u>FUNCTIONAL TEST /PERFORMANCE TESTS/ PRE-REQUISITES FOR FATS</u>								
8.01	Preliminary Safety cut out checks with alarm Parameters & Functional check	Functional	100%	As per Approved FAT Procedure	As per Approved FAT Procedure	FAT report	P	W	
8.02	Performance Run Test	Functional (As per Approved FAT Procedure)	100%	As per Approved FAT Procedure	As per Approved FAT Procedure	IR/ Performance report	P	W	

SL. NO	MATERIAL/COMP ONENT/ DRG.NO/ QUALITY ACTIVITY	CHARACTERISTIC/ TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENTS	ACCEPTANCE CRITERIA	FORMAT OF RECORD	AGENCIES		REMARKS
							FIRM	QAE	
9.00	INTEGRATED FINAL TEST								
9.01	Vacuum Toilets, Urinal Bowl, Vacuum Scupper Drain Collection Tank, Vacuum Generator, STP, H ₂ S Detector and Hooter along with control panel	FAT	100%	PO/TSP / TNC Minutes	Approved FAT Protocol	FAT Report	P	W	CHP Integrated FAT is required if mentioned in the PO/TSP/ TNC Minutes
10.00	TYPE TEST OF STP								
10.01	Tilt Test	All Functional parameters to be recorded.	One Unit	Approved Drawings/ Documents/PO & SOTR / TNC Minutes	Approved Drawings/Documents/ PO & SOTR / TNC Minutes	IR	P	W	
10.02	SBN / ABN	ABN & SBN radiated by unit.	One Unit	SOTR / Approved Drawing / Applicable Std	ABN & SBN meeting the limits specified in SOTR /Approved Drawing	ABN & SBN Report	P	R	Equipment to withstand without any reduction of reliability and performance the effect of environmental vibrations.
10.03	Shock & Vibration Test	NSS II requirement is to be proved.	One Unit	SOTR, Approved Drawing, BR 3021 (i) & shock Grade NSS II.	SOTR, Approved Drawing, BR 3021 (i) & shock Grade NSS II.	NSTL Test Report/ NSTL Approved Test Report	P	R	
11.00	PRE REQUISITE FOR ISSUE OF FORM-IV								
11.01	Liquidation of all observations during FAT, if any	Defect Rectification	100%	Approved Drawing, SOTR & FAT document	Approved Drawing, SOTR & FAT document	IR	P	W	
11.02	Submission of As built Drawings	Verification	100%	Approved Drawings, concession& Deviations	Approved Drawings & concurrence from drawing approval authority	As Built Drawing	P	R	

SL. NO	MATERIAL/COMPONENT/ DRG.NO/ QUALITY ACTIVITY	CHARACTERISTIC/ TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENTS	ACCEPTANCE CRITERIA	FORMAT OF RECORD	AGENCIES		REMARKS
							FIRM	QAE	
11.03	Preservation and Packing	Finishing	100%	Approved Drawings/Documents/ PO & SOTR / TNC Minutes	As per Standard Packing Procedure & TSP	Certificate of Packing	P	R	
11.04	Total weight	Weighing	100%	Approved Drawings/Documents/ PO & SOTR / TNC Minutes	As per Approved drawing/TSP	Weight Certificate	P	W	
11.05	Documentation	Visual Inspection	100%	Approved Drawings/Documents/ PO & SOTR / TNC Minutes	As Per TSP	As per Approved Documentation	P	R	
11.06	Submission of Form – IV / I-Note	Correctness	100%	As per PO & TSP	As per PO & TSP	Form IV / I-Note	P	P & Issue	

IMPORTANT NOTE:-

1. **Imported Equipments/ Items:** Inspection will be carried out against the following (minimum) documents:-
 - (a) Copy of one among Bill of Lading/Shipping Bill/ Airway Bill.
 - (b) Invoice by OEM or Country of Origin certificate of the equipment with packing list.
 - (c) Bill of Entry for Warehousing.
 - (d) The certificate of Conformity (CoC) indicating governing specifications and values to which the items are tested along with Original Equipment Manufacturer (OEM) test certificates/ test reports/ Catalogue/ Data sheet.
 - (e) Guarantee/ Warranteer certificate from the supplier/ OEM as per supply order.
2. **COTS:** COTS items to be accepted on the basis of Certificate of Conformity (CoC) with following conditions:-
 - (a) Certificate of Conformity (CoC) must indicate governing specifications and values to which the item has been tested. The certificate must include copies of tests reports.

(b) In case of manufacturer's certificate under relevant quality standards (like ISO, OHSAS etc), the pre published data sheet or company quality policy bringing out the details of test carried out on specific items may be accepted.

3. **Bought Out Items:** Bought out items are those which are in the regular production range of the manufacturing firm/ sub vendor and manufactured on placement of specific order by main firm and production is covered by main firm's quality control program.

4. No of components/ items (under misc components/ Bought out/ COTS items) may vary from design to design. This list is indicative only. Actual components/ items would be as per approved DBOM/ drawings.

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No.: 66301/Policy/DQA(N)/SG

14 Nov 17

As per distribution list

REVISION OF ACCEPTANCE CRITERIA FOR IMPORTED EQUIPMENT/ ITEMS: IMPORT DOCUMENTS

1. Imported stores are, presently, accepted on the basis of validation of following seven import related documents in accordance with Para 17 of Section-V, Chapter 05 and Para 29 of Chapter 13 of DGQA Standing Orders and DQA(N) letter No. 66301/Policy/DQA(N)/SG dated 31 Jul 15:-

- (a) Bill of Lading.
- (b) Shipping Bill.
- (c) Bill of entry to Ware House.
- (d) Country of Origin.
- (e) Original manufacturers certificate conforming that spares are tested for fitment on main equipment for which spares are ordered i.e. PAC firm's confirmation certificate.
- (f) Original manufacturers certificate / Quality Assurance Guarantee certificates
- (g) Firm's guarantee certificate as per Supply Orders (SOs).

2. It has been observed that all of the above documents may not necessarily be needed to assure quality and at times non availability of one or more import related documents has caused undue delay in acceptance of stores. Accordingly, the issue has been examined in detail and it has been decided to rationalise the documents for acceptance of imported stores for ease of doing business yet retaining following essential QA requirements:-

- (a) Establishing the traceability of the item i.e the item is supplied by OEM.
- (b) Confirmation of items to the specification through certification by supplier / OEM.
- (c) Guarantee / Warrantee certificate from OEM.

3. In view of the above, the following import documents will be validated for acceptance of imported stores hence forth:-

- (a) Copy of one among Bill of Lading / Shipping Bill / Airway Bill (A document issued by the transporter of the equipment which clearly indicates the description, quantity, port of collection and port of discharge).
- (b) Invoice by OEM or Country of Origin certificate of the equipment with packing list.
- (c) Bill of Entry into warehouse.
- (d) The Certificate of Conformity (CoC) indicating governing specifications and values to which the items are tested alongwith Original Equipment Manufacturer (OEM) test certificates/test reports/ Catalogue/Data Sheet.
- (e) Guarantee / Warrante certificate from the supplier/OEM as per Supply Order.

4. DGQA standing order has been amended accordingly.

5. In view of the above OPAs are requested to include list of documents as at Para 3 above in the Supply Orders pertaining to imported stores.


(Amit Raslog)
Commodore
Offg Addl. Director General
Quality Assurance (Naval)

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12575/POLICY/DGQA/WP-TC

25 Mar 22:

All Field Units of DQQA(WP)

POLICY ON QUALIFICATION OF NDT PERSONNEL

1. Refer to DQA(WP) letters of even number dated 12 Oct 20 and 06 Dec 21 regarding qualification of Non-Destructive Testing (NDT) personnel.
2. Policy regarding qualification of NDT personnel was promulgated vide DQA(WP) policy letters ibid. The directives were primarily based on information available with this Directorate as well as field level inputs from Units under DQA(WP). Since multiple Certification Bodies are providing various levels of NDT certifications, this Directorate in the recent past has received a number of queries/ recommendations from some of the Units and the industry regarding certification, competence and authorisation of NDT personnel for undertaking and sentencing various types of NDT procedures. Based on these inputs the existing policy has been revised as enumerated in the subsequent paragraphs.
3. NDT Certification programs conducted by Indian Society for Non-destructive Testing (ISNT), American Society for Non-destructive Testing (ASNT) and British Institute of Non-destructive Testing (BINDT) are available in India. It is essential to mention that certifications provided by BINDT are termed as PCN Level-I/ II/ III. These certification programs can be broadly classified into following two categories:-
 - (a) Central Certification Program. The training and/or examination are conducted by the Certification Bodies themselves or through accredited organizations.
 - (b) Employer-based Certification Program. Employers are responsible for the administration of training and conduct of qualification examinations.
4. Considering the criticality of NDT procedures towards ensuring quality and reliability of ship/ submarine equipment, broad guidelines regarding qualification of NDT

personnel are as follows:-

(a) NDT Certification. All NDT procedures are to be performed and/ or sentenced by NDT personnel who have acquired the desired minimum qualification (Level II/ III) through Central Certification Programs conducted by the Certification Bodies like ISNT, ASNT and BINDT. The certification of these personnel should be in-date and verifiable through the websites of the Certification Bodies. Certification of personnel through Employer Based Programs is not to be treated at par with Central Certification Programs.

(b) Radiography (RT) and Ultrasonic Testing (UT).

(i) RT and UT procedures/ technique sheets are to be approved by ISNT Level-III or ASNT Level-III or PCN Level-III or other equivalent Level-III NDT personnel, certified through Central Certification Programs.

(ii) RT and UT are to be performed by ISNT Level-II/ III or ASNT Level-II/ III or PCN Level-II/ III or other equivalent Level-II/ III NDT personnel, certified through Central Certification Programs.

(iii) Interpretation/ sentencing of RT and UT reports are to be done by ISNT Level-III or ASNT Level-III or PCN Level-III or other equivalent Level-III NDT personnel, certified through Central Certification Programs.

(c) Magnetic Particle Testing (MPT) and Dye Penetrant Testing (DPT).

(i) MPT and DPT procedures/ technique sheets are to be approved by ISNT Level-III or ASNT Level-III or PCN Level-III or other equivalent Level-III NDT personnel, certified through Central Certification Programs.

(ii) MPT and DPT are to be performed by ISNT Level-II/ III or ASNT Level-II/ III or ASNT (SNT-TC-1A) Level-II/ III or PCN Level-II/ III or other equivalent Level-II/ III certified NDT personnel.

(ii) Interpretation/ sentencing of MPT and DPT reports are to be carried out by ISNT Level-III or ASNT Level-III or PCN Level-III or other equivalent Level-III NDT personnel, certified through Central Certification Programs, only if there is any ambiguity/ difference of opinion between QA Agency and the supplier.

5. It is requested that all NDT procedures here-in-after be carried out as per the afore-mentioned guidelines. The same may also be disseminated to all firms during the First Contact Meetings.

6. This letter supersedes all previous letters on the subject and shall be applicable from the date of promulgation.



(प्रदीप बिस्वास/ Pradeep Biswas)

कैपटेन/ Captain

कैपटेन क्यू.ए (टेक)/ Captain QA (Tech)

कृतेब.म.नि.गु.आ (सुपो.प.)/ for ADGQA (WP)

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12575/POLICY/DGQA(WP)-TO

29 Sep 20

All Field Units of DQA(WP)

GUIDELINES FOR APPROVAL OF SQAPs/ QAPs

1. Approval of QAPs is an important activity undertaken by DQA(WP) for ensuring that the equipment/ spares supplied to the IN are compliant to the prescribed Quality norms. Prompt concurrence/ approvals of SQAP and QAPs is paramount towards timely commencement of production and the linked QA activities.
2. Promulgation of SQAPs has yielded significant reduction in the lead time for approval of QAPs. Further, all approved SQAPs/ QAPs are now being forwarded to the concerned Field Units and also to the firms so that subsequent activities as per the production plan can be commenced without waiting for approved copy of QAP from the Field Unit.
3. Despite of these initiatives, it is felt that approval of SQAPs/ QAPs can be done in shorter time frame by reducing postal delays. In order to minimise such time lost in postal transit, the procedure that is to be followed by all Field Units under DQA(WP) as regards to approval of SQAPs/ QAPs, is enumerated in the subsequent paras.
4. **Concurrence for Inspection Against SQAPs.** On promulgation of SQAPs for an equipment/ system, preparation of separate draft QAP for approval is not necessary. The following procedure is to be followed while seeking concurrence for inspection against SQAP:-
 - (a) The firm is to be advised by the Inspection Agency to submit confirmation regarding acceptance of SQAP either in totality or with some design specific inclusions and/ or exclusions, if any, by e-mail to the concerned Inspection Agency under intimation to DQA(WP).
 - (b) On receipt of confirmation from firm, the concerned Inspection Agency is to forward the same to DQA(WP) with recommendations by e-mail within seven working days of its receipt. For orders placed by IHQ MOD (Navy) and MOs, legible copy of the PO, approved drawing in A3 size and other relevant documents, if any, are to be forwarded along with the firm's confirmation.

(c) Concurrence for inspection against QAP, with or without changes, shall be accorded by DQA(WP) by e-mail to the concerned Inspection Agency, Firm, OPA, Command Headquarters and IHQ MoD (Navy), as applicable, within seven working days of receipt.

5. Concurrence for Use of Previously Approved QAP/ Re-validation of QAP: In case SOAF for a particular equipment/ system is issued by DQA(WP) and a previously approved QAP is to be used for undertaking inspections, concurrence for the same is to be accorded by DQA(WP). The following procedure is to be followed for concurrence for use of Previously Approved QAPs/ Re-validation of QAPs:-

(a) The firm is to be guided to submit proposal for use of previously approved drawing and QAP along with an undertaking that the equipment/ system has not undergone any changes with respect to design, material specification, duty point and manufacturing process by e-mail to the concerned Inspection Agency under intimation to DQA(WP).

(b) The firm's proposal is to be examined by the Inspection Agency and the same along with recommendations is to be forwarded to DQA(WP) by e-mail within five working days of receipt. Legible copy of the PO, approved drawing in A3 size and copy of the previously approved QAP are to be forwarded along with the firm's proposal.

(c) Concurrence for inspection against the previously approved QAP, with or without changes, shall be accorded by DQA(WP) by e-mail to the Inspection Agency, Firm, OPA, Command Headquarters and IHQ MoD (Navy), as applicable, within five working days of receipt.

6. Approval of Draft QAP: Approval of QAP, wherein provisions of para 4 and 5 ibid are not applicable, would entail submission of draft QAP by the firm. The procedure that is to be followed for approval of draft QAP is as follows:-

(a) The firm is to be advised to submit editable soft copy (in MS Words) of draft QAP by e-mail to the concerned Inspection Agency and DQA(WP). The hard copy of the same can be forwarded concurrently with int'l digital signature of firm's rep.

(b) The Inspection Agency is to examine the adequacy of the draft QAP in consultation with the firm and forward the final draft of the same to DQA(WP) with recommendations by e-mail within ten working days of receipt. For orders placed by IHQ MOD (Navy) and MOs, legible copy of the PO, approved drawing in A3 size and other relevant documents, if any, are to be forwarded along with the draft QAP. Ink/ Digitally signed hard copy of draft QAP is to be forwarded separately by post.

(c) The draft QAP received at DQA(WP) shall be examined and Approved/ Approved-with-Amendment/ commented upon and forwarded to the Inspection Agency and firm by e-mail within fifteen working days of receipt.

(d) Ink/ Digitally signed copies of Approved/ Approved-as-Amended copy of QAP shall be forwarded by DQA(WP) separately through Registered Post/ Speed Post by to the Inspection Agency.

(e) When the draft QAP is Approved-with-amendments or returned with comments/ observations, the Inspection Agency shall ensure resubmission of the draft QAP by the firm, duly liquidating the observations, by e-mail. Approval of the revised draft QAP is to be accorded by the Inspection Agency on behalf of DQA(WP) within seven working days of receipt and a copy of the approved QAP is to be forwarded to the firm and DQA(WP) by e-mail. Ink/ Digitally signed copies of Approved QAP is to be forwarded to firm separately through Registered Post/ Speed Post by to the Field Unit.

(f) In case the draft/ approved QAP is being delivered by hand, then a record of same is to be kept and e-copy of the same is also be forwarded by the concerned agency.

7. The date of receipt of soft copy of the approved QAP shall be considered as the date of issue of QAP.

8. It is requested that measures to implement the procedures mentioned above be instituted with immediate effect. Additionally, the contents of this letter are to be discussed and briefed to the firms during the First Contact Meeting and endorsement of the same is to be made in the Minutes of Meeting.



(Pradeep Biswas)
Captain
Captain QA (TC)
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group III

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12575/POLICY/DGQA/WP-TC

१५ Jun 2021

All Field Units of DQA(WP)

USE OF APPROVED QAP FOR REPLENISHMENT ORDERS

1. Refer to DQA(WP) Policy letter 12575/POLICY/DGQA/WP-TC dated Sep 20.
2. A large number of proposals have been received in the recent past wherein the firms have requested for use of earlier approved QAPs, even though SQAPs have been promulgated subsequently.
3. The issue has been analysed at this Headquarters. Following has been decided: -
 - (a) In case of replenishment orders, the firm who had supplied the system/equipment earlier, can be allowed to use the previously approved QAP, even if SQAP has been promulgated prior to NLC/Placement of order. The firm in such cases has to submit an undertaking that the system/equipment has not undergone any changes in terms of design, architecture, dimension, material specification, duty point, internal configuration, manufacturing process, governing standards/specifications and environmental conditions to which the system/equipment was proved earlier.
 - (b) If the design/production/assembly/testing has undergone any amendment warranting complete/partial repeat of Type Testing, the inspection shall be undertaken against SQAP. However, if the modifications are minor in nature which do not affect the functionality and performance of the system/equipment, HQDQA(WP) is authorised to permit use of earlier approved QAP after receiving the request from OEM through the Field Unit.
 - (c) Cases where the replenishment order for a particular system/equipment is placed on firm who have not supplied the same before, the previously approved QAPs for the system/equipment shall not be applicable if SQAP has been promulgated before the date of NLC. In such cases, only the SQAP is to be used for conduct of QA inspections.

(d) The previously approved QAPs will not be applicable in case of new induction/shipyard orders if SQAP has been promulgated prior to the date of placement of order.

4. Reps of DQA(WP)/DQA(N) attending PC/NLC meetings are to specifically confirm availability of earlier approved QAP and that there have been no material/process changes. In case the clarification is not available during PC/NLC Meeting, the same is to be obtained during FCM. The above requirement has been included in draft Revised QAD-01.

5. It is requested that the above mentioned procedure be instituted with immediate effect.



(Pradeep Biswas)
Captain
Captain QA (TC)
for ADG QA(WP)