

## SECTION : 4 (b) (i)

### ORGANISATION FUNCTIONS AND DUTIES

---

#### Introduction:

DGAQA (Dte. Gen. Of Aeronautical Quality Assurance {formerly DTD&P (Air)}) is the Organisation under the Department of Defence Production, in the Ministry of Defence, is the regulatory authority for Quality Assurance of military aircraft / aeronautics/ Airborne systems and Ground Support Equipment during design, development, production and overhaul at the different organisations / work centres in the country, such as PSUs (HAL, BEL, BEML & BDL), Ordnance factories, DRDO Labs and private sector sources.

#### Role:

- It is the designated regulatory authority of the Ministry of Defence for Quality Assurance for military aircraft, aero engines, air armament, unmanned aerial vehicles, aeronautics and Ground Support Equipment during their design, development, production, overhaul and repair.
- DGAQA ensures surveillance through Approved Firms Inspection Organisation system.
- It is the nodal agency for **Strategic Systems Quality Assurance Group (SSQAG)** and **Missile Systems Quality Assurance Agency (MSQAA)** under the Integrated Missile Development Programme (IGMDP).

#### Organisation Structure:

- The various DGAQA functions, are accomplished through the organization comprising of the Headquarters at New Delhi and a network of around 33 Field Establishments (FEs) and detachments covering a large number of work centers, spread all over India.
- DGAQA is headed by Director General (DG) and is assisted by the 5 Deputy Director Generals (ADGs) viz ADG(Hqrs), ADG(SZ), ADG(N&CZ), ADG(Nasik) and ADG(Koraput) located at New Delhi, Bangalore, Lucknow, Nasik and Koraput respectively.
- DGAQA Headquarters at New Delhi functions through 8 technical/specialist sections each headed by respective Director/officer-

in-charge are as listed below :-

- Aircraft and Aero-Medical
- Power Plant & Fuel, Oil & Lubricants (PP&FOL)
- Armament (Armt.)
- Aviation Electronics (AE/IT)
- Electrical & Instrument (E&I)
- Ground Support Equipment (GSE)
- Missiles System Quality Assurance Agency (MSQAA)
- **Strategic Systems Quality Assurance Group (SSQAG)**

**Duties of the Sections, in general, are summarised below:**

- To ensure and monitor adequacy/correctness of the QA functions at the FEs under their control.
- Scrutinise the Monthly and Quarterly Progress Report (QPRs) from the respective FEs for adequacy of action and status of issues and interact as necessary.
- Scrutinise Quarterly Defect Investigation (QDI) summaries for adequacy of action. Highlight areas where recurrent/major Defect persists or where the correction action has not proved adequate. Analyse trend of the repetitive cases and implementation of the remedial measures and monitor the results.
- Process proposals from FEs for approval under AFQMS in respect of the firms under their jurisdiction.
- To deliberate and decide, in consultation with DG, on the QA related policy matters and issue such QA directives as necessary to the concerned FEs.
- Continuous coordination for standardising procedures in a uniform order.
- DGAQA representation in the Courts of Inquiry (COI) instituted by Service HQrs.
- Assisting Ministry of Defence in formulation/ renewal of international bilateral agreements in the field of Military QA.
- Assisting Ministry of Defence in the procurement process of Aircraft and related equipment/ items. Involvement in formulation/vetting of QRs, technical evaluation, field trials, commercial negotiations, inspection and acceptance of Aero stores, as per Defence Procurement Procedure.

**DGAQA field establishments, their locations, functional areas and responsibilities are as described below:**

- Offices of the Regional Director Aeronautical Quality Assurance (RDAQA) are located at the various Divisions of HAL at Bangalore, Nasik, Koraput, Hyderabad, Lucknow, Kanpur, Korwa and Barrackpore for carrying out the executive QA functions during manufacture/overhaul/repair of aircraft/aero-engine/associated equipment. Their main responsibilities are summarised below:
  - Exercise control over the Quality Assurance Organisation of the respective Division and report to Headquarters of any fall in standard of the firm's QA organization/staff.
  - To satisfy through supervision that the firm's Quality Assurance organization has carried out comprehensive QA checks at all stages from the raw material to the final delivery of the product and introduce such checks and procedures, as are considered necessary from time to time.
  - Introduce stages of Quality Assurance monitoring which should be comprehensive and cover Quality Assurance right from the incoming raw material and stores to the finished product and final assembly stage. They are to be reviewed periodically for ensuring better supervision over the firm's Quality Assurance organisation.
  - To ensure that all deviations from the stipulated requirements are properly processed, authorized and recorded. Concessions/ Production Permits to be properly dealt with.
  - Associate with Investigations of Defects (DIs) reported during development, in-service and at the manufacturer's works/overhaul Agencies and make suitable recommendations, as per laid down procedure.
  - Report to Headquarters, details of new design projects or manufacturing methods or processes which are likely to affect the established inspection procedure and raise critical observations thereon.
  - To associate with all phases of development and testing of the stores under Type Approval from the initial stages. Progressive appraisals and the Engineering observations made in this regard, particularly from Quality, maintenance or servicing point of view, should be reported to CRE/RD, CEMILAC before the Type Approval is to be granted. Appropriate follow-up action during the subsequent Bulk Production phase of the same store has to be ensured.
  - To issue the Certificate of Safety for flight (Form-1090) for undertaking any test flight at the contractor's works, for purposes of

trials/acceptance and ferry to the user units in respect of aircraft under development/ manufacture/ overhaul/ repair. Before issuing such a certificate, it is to ensure that the aircraft has been manufactured/ overhauled/ repaired and ground tested in accordance with the Paper particulars and the contractor has complied with all such requirements.

- Apart from the Aircraft and the associated systems, another major area of QA coverage for the Department is the production of a variety of Air Armament/weapon systems at various Ordnance Factories and Private Sector. RDAQA at Pune alongwith the Aeronautical Quality Assurance Wing, Khamaria and its detachments at various Ordnance Factories are responsible for the QA functions in respect of development, manufacture, servicing, repair and proofing the Air Armament stores. Depending on the nature and end-use of the stores, the particular factory's QA facilities/setup and the economic considerations, the desirable degree and the extent of inspection is assessed by the Resident Inspectorates and laid down accordingly. In addition, AHSP functions also form a prominent part of the responsibilities of an Air Armament establishment.