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कृपया पत्राचार पदनाम से करें ना कि अधिकारी के नाम से।
Please address all correspondence by designation & not by name.



भारत सरकार
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Government of India
Ministry of Defence,
Directorate General of
Aeronautical Quality Assurance
'H' Block, New Delhi-110011

No. 1405/Directives/DGAQA/Tech-Coord

18 Mar 2020

To,


All Technical Groups at HQrs DGAQA

**RELEASE OF AQA DIRECTIVES 09/2020 ON
CENTRAL PROCUREMENT PROCESS AS PER DPM & DPP (SQR's & RFP's)**

It has been decided by HQrs DGAQA to issue the Aeronautical Quality Assurance Directives (AQAD) on the subject essential for Quality Assurance (QA) in military aviation. The aim of issuing such AQA directives is to have continual improvements in Quality Management System in Indian Military Aviation as well as to set clear-cut guidelines/requirement which needed to be adhere/ensure during discharging the respective duties of stakeholders. This document has been prepared by AE Group HQrs DGAQA after obtaining the feedback from all the groups of this HQrs DGAQA.

2. The objective for issuance of this quality assurance directive to specify the uniform procedure and develop the professional approach across all the groups at HQrs DGAQA for QA activities in respect of SQR's & RFP during the central procurement process of military aviation stores to ascertain the airborne system meeting the desired specifications, thereby mitigating the risk of defects or other inadequacies throughout the operational life of Project/Equipment.

3. It is suggested to give wide publicity of the document within our organization as well as all stake holders for awareness and compliance. To facilitate this, a soft copy of the document is uploaded on DGAQA website and can be accessed from website www.dgaeroqa.gov.in through technical (main menu).


(H Devaraju)
Director (AE, E&I, IT)
For Director General, AQA

Encls. : As stated

Copy to :

(i)	PPS to DG, AQA	:	For kind information please.
(ii)	PS to ADG, AQA	:	--- do ---
(iii)	IT Section	:	With a request to upload the document on DGAQA website.



ऐ के भत्ते
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PREFACE

To accomplish the Directorate General of Aeronautical Quality Assurance mission, vision and values, HQrs DGAQA and its FE's are responsible for management and supervision of QA function at work centres.

2. Introduction of this document by DGAQA for carrying out QA activities in military aviation which will improve the Quality Management System of military aviation stores, further leading to improve quality and reliability of aircrafts & its associated equipments. DGAQA is involved during the central procurement process (i.e. SEPC, Project Facilitating, TEC, CNC, PDI & JRI etc) of the military aviation stores for tri-services as per the latest version of DPP & DPM.

3. It is pertinent that controlling the input is a better method of Quality Assurance than post process.

4. This quality assurance directive is issued to specify the uniform procedure across all the groups at HQrs DGAQA for QA activities in respect of SQR's & RFP during the central procurement process of military aviation stores.

अ. क. भत्ते

ऐ के भत्ते 18/03/2020

महानिदेशक, वै. गु. आ.

AQA DIRECTIVE
ON
CENTRAL PROCUREMENT PROCESS
AS PER DPM & DPP
(SQR's & RFP's)



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TABLE OF CONTENTS

Sl. No.	Contents	Page No.
1.	Introduction	01
2.	Description & Procedure of SQR's	02-03
3.	Description & Procedure of RFP	04-07
4.	Check List	08-11
5.	Sequence of Activities	12-13
6.	Conclusion	14
7.	Abbreviations and Acronyms	15
8.	References Documents	16

1. INTRODUCTION

HQ DGAQA is involved during central procurement of the aviation stores for tri-services as per the latest version of DPP & DPM. Since HQ DGAQA is one of the member of various committees (i.e. SEPC, Project Facilitating, TEC & CNC etc) during the central procurement process at their respective HQrs/Directorates.

A procedure must be coherent, i.e. shall not contain conflicting standards. Therefore the RFP & SQR's procedure is required to be standardised for effective quality assurance activities for of all groups of HQ DGAQA, who contributes to the preparation of technical comments for RFP & SQR's.

2. DESCRIPTION & PROCEDURE OF SQR's

2.1 Brief Description of SQR's : The Service Qualitative Requirements (GSQRs/JSQRs/NSQR/ ASQR) which lay down the technical parameters of the equipment/item required by tri-Service (Indian Army, Indian Air Force & Indian Navy), reflecting the user's requirements in terms of functional, operational & environmental characteristics of the stores being procured. These also generally need to indicate the requirement of military grade, ruggedized or commercially off the shelf items.

Based on the feasibility study, the SHQ (Service Head Quarter) concerned would formulate the Preliminary Services Qualitative Requirements (PSQRs) specifying broad essential and desirable parameters. The essential parameters of PSQRs of equipment would be of proven technologies available in Indian/world market. These PSQRs shall form part of the Statement of Case (SoC) while seeking Acceptance of Necessity (AoN) for the projects. Whereas NSQRs and ASQRs refer to the Naval and Air Force Staff Qualitative Requirements respectively for equipment specific to these Services. JSQRs refer to specifications reflecting the Joint Services Qualitative Requirements in cases where commonality of equipment exists and standardization of QRs between the three Services is merited.

2.2 Attributes of SQR : The Request for Information (RFI) process aims to validate the possibility of realising and achieving the broad scope of Qualitative Requirements (QRs), which may be described by a set of Operational Requirements (ORs). The ORs will be determined and developed by the SHQs and will not be a part of the RFP but will guide in laying down the criteria for the finalisation of SQR parameters for testing and validation.

2.3 Parameters of SQRs :

2.3.1 Purpose : The purpose for which this equipment is needed or in broad outlines the capabilities that are needed in terms of operation capabilities in different environments.

2.3.2 Technical Parameters : All technical parameters listed in the SQR in terms of size, weight, performance, operating environment, power, torque, preservation, utility life, storage, shelf life etc, should be specified. These Parameters may be divided into **Essential Parameters-A**, **Essential Parameters-B** (if applicable) and **Enhanced Performance Parameters** (if applicable) along with respective credit scores.

- (i) **Essential Parameters-A :** These are parameters that are generally a part of the contemporary equipment available in the market and form the core of the SQRs; Essential Parameters - A will be tested and validated at Field Evaluation Trial (FET) stage.

(ii) Essential Parameters-B : These parameters can be developed and achieved by the vendors using available technologies. These parameters need to be tested and validated within a specified time frame as stipulated in the contract.

(iii) Enhanced Performance Parameters (EPP) : EPP are those parameters that enhance the capability of the equipment, a SQR may not contain EPP in all cases. However, if a vendor claims to have equipment meeting the EPP as specified in SQR and RFP, then they must provide details of the same in their technical bids, which have to be tested for compliance during the FET itself.

2.4 Preparation of SQRs : The SQRs would be drafted by the user directorate at SHQ. Draft SQR would be circulated by SHQ to all stakeholders concerned including other possible user directorates, maintenance directorate, HQ IDS, DRDO, DDP, DGQA/DGAQA/DGNAL, Directorate of Standardisation, Technical Managers (TM's) and any other necessary department for obtaining their views/comments. These agencies will also be represented on the Staff Equipment Policy Committee (SEPC) for approving the SQRs. In cases where there is commonality of equipment, HQ IDS will constitute a Joint Staff Equipment Policy Committee (JSEPC) with representation from the services concerned, for the preparation of the Joint Service Quality Requirement (JSQR).

2.5 Approval of SQRs : SQRs must be approved by the competent authorities at the respective SHQs. A copy of SQR duly approved by the respective SHQ authorities would be submitted along with the Statement of Case" (SoC) for seeking AoN. No changes to the SQR will be permitted after obtaining the AoN. In situations where SQRs need to be amended post the issuance of AoN, a fresh AoN has to be obtained with the amended SQR.

3. DESCRIPTION & PROCEDURE OF RFP

3.1 Brief Description of RFP : The Request for Proposal (RFP) should lay down user requirements in a comprehensive, structured and concrete manner and should be broad based. The user requirements should be expressed in terms of functional characteristics. Its formulation must not prejudice the technical choices by being narrow and tailor-made. Specific Quality Assurance requirements should be included in the RFP. Draft RFP is divided into five Parts, each Part is dealing with a different aspects.

Part-I contains General Instructions to the bidders. Generally, all these instructions should be mentioned as it is, though minor changes can be done to suit a particular case.

Part-II, the Technical Details would be different for various types of equipment. As such only the broad guidelines for formulating this aspect have been stated here. The information may contain the following,

(a) The purpose for which the items are needed or broadly outline the capabilities that is required. It should be ensured that user requirements are laid down in a comprehensive, structured and concrete manner in terms of functional characteristics and are broad-based.

(b) Relevant technical parameters like size, weight, performance, operating environment, power, torque, preservation, utility life, storage, shelf life etc, can be specified as applicable. Examples are as under –

- (i) User requirements in terms of functional characteristics
- (ii) Specifications / Drawings, if applicable
- (iii) Technical details along with Essential Technical parameters
- (iv) Compliance chart for Technical evaluation
- (v) Requirement of training / on-job training
- (vi) Requirement of installation, Commissioning
- (vii) Requirement of FATs and SATs.
- (viii) Requirement of technical documentation.
- (ix) Type of future assistance on completion of warranty
- (x) Earliest Acceptable Year of manufacture

(c) In case of Two-Bid system, the essential performance parameters should be mentioned, fulfilment of which would be the basis for Technical Evaluation.

(d) In Para 5 pertaining to INCOTERMS, only the applicable Term of Delivery may be mentioned as decided for that particular case.

Part-III contains Standard clauses which might have a legal implication. Therefore, no deviation from the text given in the neither clauses nor deletion of any of these clauses has to be allowed. In case a deviation from these clauses has to be considered/allowed due to insistence of the Seller, then approval of Raksha Mantri will be required. Para 15 on Pre-Integrity clauses may be included only in cases above Rs. 100 crores.

Part-IV contains several Commercial clauses, which may or may not be relevant for a particular type of RFP. Hence the title is given as Special Conditions of Contract. A conscious decision may be taken to incorporate the relevant clauses from this list based on the guidelines given in the concerned DPM. The wordings of these clauses can also be appropriately modified to suit a particular case.

Part-V, the Evaluation Criteria can be suitably amplified/modified to suit the specific requirements of a particular case. Similarly, the Format of the Price Bid can be amended to include/exclude items as per requirements.

The draft RFP applies both to indigenous and foreign procurement cases. The main difference will be in the selection of relevant 'Special Condition Clauses' from those given in Part-IV of the draft RFP. This in turn will depend upon the guidelines contained in corresponding Para of various chapters. In particular, the provisions of Chapters 4 & 7 of DPM would be relevant for indigenous procurements and Chapters 9 & 10 of DPM for foreign procurements must be examined by the Buyer for appropriate selection of commercial clauses.

3.2 RFP Format :

The RFP is a very important document and should be a true and complete reflection of the indent. A standard format of RFP is given in Appendix 'C' of DPM-2009. The goods/services required, bidding procedures and contract terms are prescribed in the RFP. Special attention should be paid to the following aspects while preparing the RFP.

- (i) Description of the required goods and services
- (ii) Date and time of opening of the tenders
- (iii) Desired period of validity of offers
- (iv) Technical specifications
- (v) Inspection clauses
- (vi) Special Conditions of Contract
- (vii) Quality assurance requirements
- (viii) Source of supply in case of vendors/stockists
- (ix) Mode and terms of delivery
- (x) Delivery Schedule
- (xi) Mode of payment and the paying authority
- (xii) Terms of payment and paying authority
- (xiii) Evaluation parameters
- (xiv) Performance bank guarantee, if applicable

- (xv) Arbitration Clause
- (xvi) Liquidated damages clause
- (xvii) Advance payments
- (xviii) Installation, commissioning and AMC, if applicable
- (xix) Life time product support for spares, maintenance advice, defect investigation and information on product upgrade
- (xx) Repeat Order and Option Clause
- (xxi) Risk and Expense Clause
- (xxii) Apportionment of Quantity
- (xxiii) Acceptance of excess or short deliveries
- (xxiv) Force Majeure
- (xxv) Claims
- (xxvi) Applicability of Laws

3.3 Technical Specifications : All verifiable technical parameters in terms of size, weight, performance, operating environment, power, utility life, storage and shelf life, etc., both in terms of 'essential' and 'desirable' levels, as applicable to the equipment being procured should be listed clearly and unambiguously.

3.4 Inspection Clauses : The RFP should clearly provide for Pre-Dispatch Inspection (PDI) and/or Joint Receipt Inspection (JRI), as required. In the case of Pre-Dispatch Inspection, to the extent possible, the RFP should mention the broad scope of such inspection, the likely number of such inspections, the composition of the team and duration of inspections.

3.5 Quality Assurance : The goods supplied under the contract should conform to the standards, which should be clearly mentioned as a part of the technical specifications in the RFP. The latest authoritative standards, issued by the concerned institution, applicable in the country of origin, to the goods to be procured could also be considered as acceptable standards and, if so decided, it should be mentioned in the RFP. In such situations, the RFP should also state that the details of such standards would be submitted by the prospective bidder while submitting his bid. All the items should be supplied and accepted along with OEM certification only. The quality assurance requirements should be specified both in terms of testing norms and methodology.

3.6 Delivery Schedule : The prescribed delivery schedule should be firm and not open-ended. Normally the delivery schedule should be fixed in such a manner that it is completed within ninety to one hundred and eighty days of the signing of contract, unless the circumstances warrant a longer delivery schedule.

3.7 Evaluation Parameters : Evaluation parameters should be clearly defined in the RFP. Wherever required, a detailed technical evaluation matrix should be enclosed with the RFP. [In a two-bid system, separate evaluation criteria should be laid down for technical evaluation and commercial-cum-price negotiation and only those offers should be evaluated

which are found to be in compliance with the technical evaluation parameters as defined in the RFP. Technical evaluation should be carried out by a Technical Evaluation Committee and approved by the competent authority. TEC procedure will be the same as laid down in Chapter-4 of this Manual (DPM).

3.8 Quality claims on account of defects or deficiencies : The quality claims for defects or deficiencies in quality noticed during the JRI shall be presented within forty five days of completion of JRI and acceptance of goods. Quality claims shall be presented for defects or deficiencies in quality noticed during warranty period earliest but not later than forty five days after expiry of the guarantee period. The quantity and quality claims should be submitted to the seller in the prescribed format given in Forms DPM-22 and DPM-23 respectively.

3.9 RFP Vetting And Issuance : The procedure for RFP vetting and issue will be as follows:-

(i) All activities internal to SHQ for preparation of RFP, which includes consultation with all agencies concerned such as procurement and maintenance directorates at SHQ, Quality Assurance agencies, DRDO etc. Draft RFP will be circulated to all the stakeholders. Observations, if any, will be intimated to the SHQ, and then the draft RFP will be amended accordingly. Collegiate vetting of RFP will be done after the accord of AoN.

(ii) In cases where ToT is being sought, the nominated Production Agency (PA) would prepare the detailed ToT requirements for inclusion in the RFP. In "Buy and Make" cases where the choice of PA has been left to foreign vendors, the DRDO would prepare the detailed ToT requirements.

(iii) Approval of DG (Acq)/DCAS for issue of RFP would be obtained after accord of AoN.

(iv) The RFP will be issued by the respective Technical Manager (TMs).

(v) No addition to the vendors would be allowed after issue of the RFP.

3.10 Inspection Authority : The Inspection will be carried out by DGAQA. The mode of Inspection will be Departmental Inspection/User Inspection/Joint Inspection /Self certification.

4. CHECK LIST

The following technical parameters from QA point of view shall be incorporated in the JSQR/ASQR/OR and also to be confirmed in the respective RFP,

4.1 GENERAL POINTS :

- (i) The equipment supplied by the vendor would be accepted in India subject to jointly evolution and clearance by concerned Service Directorate & DGAQA
- (ii) The Buyer's representatives concerned (i.e. IAF/Army/Navy and DGAQA) jointly will carry out Pre-Despatch Inspection (PDI) of the stores/equipment in order to check their compliance with specifications in accordance with its usual standard procedures.
- (iii) PDI report will be signed jointly by Seller and Buyer (i.e. IAF/Army/Navy & DGAQA).
- (iv) Certificate of Conformity (CoC) will be signed by Seller and Buyer (i.e. IAF/Army/Navy) as per the specimen at Form DPM-21 available in MoD website.
- (v) Acceptance Test Report (ATR) will be signed jointly by the Seller's QA representative and Buyer's representatives concerned (i.e. IAF/Army/Navy and DGAQA).
- (vi) All the stores to be delivered under the present contract shall be new and confirm to latest manufacturing batch.
- (vii) The system shall confirm to operate under Environmental Conditions with test method of latest MIL-STD-810/JSS-55555 or other equivalent National/International Military Standard.
- (viii) If the item is airborne needs to be certified by CEMILAC (India) or country of OEM for airworthiness certification.
- (ix) The technical specification of the Testers/Test Rigs/Automatic Test Equipments (ATE's) used for testing of airborne items shall be cleared by respective CEMILAC/RCMA.
- (x) Equipment's outer surface exposed in the environment should have MAT finishing of painting.
- (xi) Work station should also have a provision of smoke detector.
- (xii) The provision of camouflage net to safe guard the system, the provision of carrying the same in the trailer may also be explored.

- (xiii) The UPS backup should be "Online-UPS".
- (xiv) Equipment should be easily transportable.
- (xv) Interchangeability & Interlocking for the fitment and functional aspects shall be ensured.
- (xvi) Reliability Model/Figure for the equipment to be procured under the contract should be added as part of RFP.
- (xvii) Shelf Life of the stores should be given both for controlled storage condition and as well as uncontrolled field storage condition. Vendor/OEM should also give the methodology along with test procedures for extension of shelf life after expiry of its assigned shelf life.

4.2 ELECTRICAL & ELECTRONICS STORES :

- (i) The power supply to various LRU's/Subsystem to be tested and confirm to latest MIL STD-704 or other equivalent National/International Military Standard.
- (ii) Compliance of ESS as per latest MIL-STD-2164 or other equivalent National/International Military Standard.
- (iii) Compliance of EMI/EMC as per latest MIL-STD-461 or other equivalent National/International Military Standard.
- (iv) All the COTS electronics components used shall be screened as per latest document No. JSG-0667:2006 for airborne items or other equivalent National/International Military Standard.
- (v) All the embedded software needs to have independent verification and validation (IV&V) for its efficacy, redundancy and compliance to software requirement specification.
- (vi) The I/O interface should also cater for MIL BUS-1553, RS-422 & ARINC.
- (vii) In order to incorporate security in the system, it must have "Biometric Authentication" in addition to "User Name & Password".
- (viii) If System needs highest level of software integrity security due to its operational requirement. It must be resistant to virus, encrypted and categorized under the communication security grading and

approval to be obtained from Software Approval Group (SAG) or equivalent National Security Agency.

- (ix) In Technical Specification/Operational characteristics the details of Software versions required for the weapon and the Testers should be added as part of the Technical Specification to avoid mismatch in the software version loaded on the weapon and the testers
- (x) All the cable looms must have EMI shielding and associated filters.
- (xi) Over and under voltage, current protection & load regulation requirement shall be ensured.
- (xii) Insulation Test & High Voltage Test, Fault Operation Test or Health Monitoring System, and Fuel Consumption Test at 75% and 100% full load test.
- (xiii) Harmonic test, Wave form test, Short Circuit Impedance test & Heat Run Test, Voltage Waveform Test with curve, Voltage regulation with regulator (Cold to hot, No load to full load & 0.8 pf to Unity pf) test.
- (xiv) Voltage stability and transient response test (with oscilloscope or UV recorder) Over load test, Phase sequence test, Transient voltage dip and rise at 0.8 pf from No load to full load Les than 10% test.
- (xv) Recovery time of the transient voltage 0.5 Sec., Space heater Efficiency Test, Heat Run test (8 Hrs) at full Load with temperature rise with resistance method. Insulation Resistance Test, High Voltage Test.
- (xvi) Voltage Imbalance with Unbalance Load test, Open & Short circuit characteristic test and Winding Resistance Measurement test.

4.3 ARMAMENT STORES :

- (i) The Quality of the ammunition to be delivered under the contract shall conform to the latest standards/or specifications of the manufactures in force in Seller country at the time of manufacture and shall be certified by the Sellers QA agency.
- (ii) OEM Certificate: In case the Bidder is not the OEM, the agreement Certificate with the OEM for sourcing the spares shall be mandatory, however, minor spares can be sourced from the authorised vendors subject to quality Certification.

(iii) **Packing and Marking :** The following packing clause should form part of RFP

(a) The ammunition should be packed in the hermetically sealed containers and further packed in outer Boxes for ease of transportation. The package should be legible, give full details of the ammunition, Lot No., year of manufacture, Qty, Hazard level etc as per prevailing National/International standards.

(b) All packing materials used for packing should be passed through Heat Kiln treatment at 56 degree centigrade for a minimum 30 hours or Methyl Bromide fumigation at 48g/cum for 32 hours of chemical impregnation of wood with wood preservatives such as copper chrome arsenic or any other approved treatment as per International Standards.

(c) Should carry a Phytosanitary Certificate issued by an authorised Officer from the country of origin of the consignment.

(d) Each spares, tool and accessories especially sensitive explosive material should be packed in the separate cartoons/containers.

(e) Packing and preservation of the stores shall be seaworthy, roadworthy and airworthy i.e. all weather conditions for transportation and shall ensure that the packing are strong enough to withstand the transportation hazards and weather condition during transportation by various modes during the assigned life.

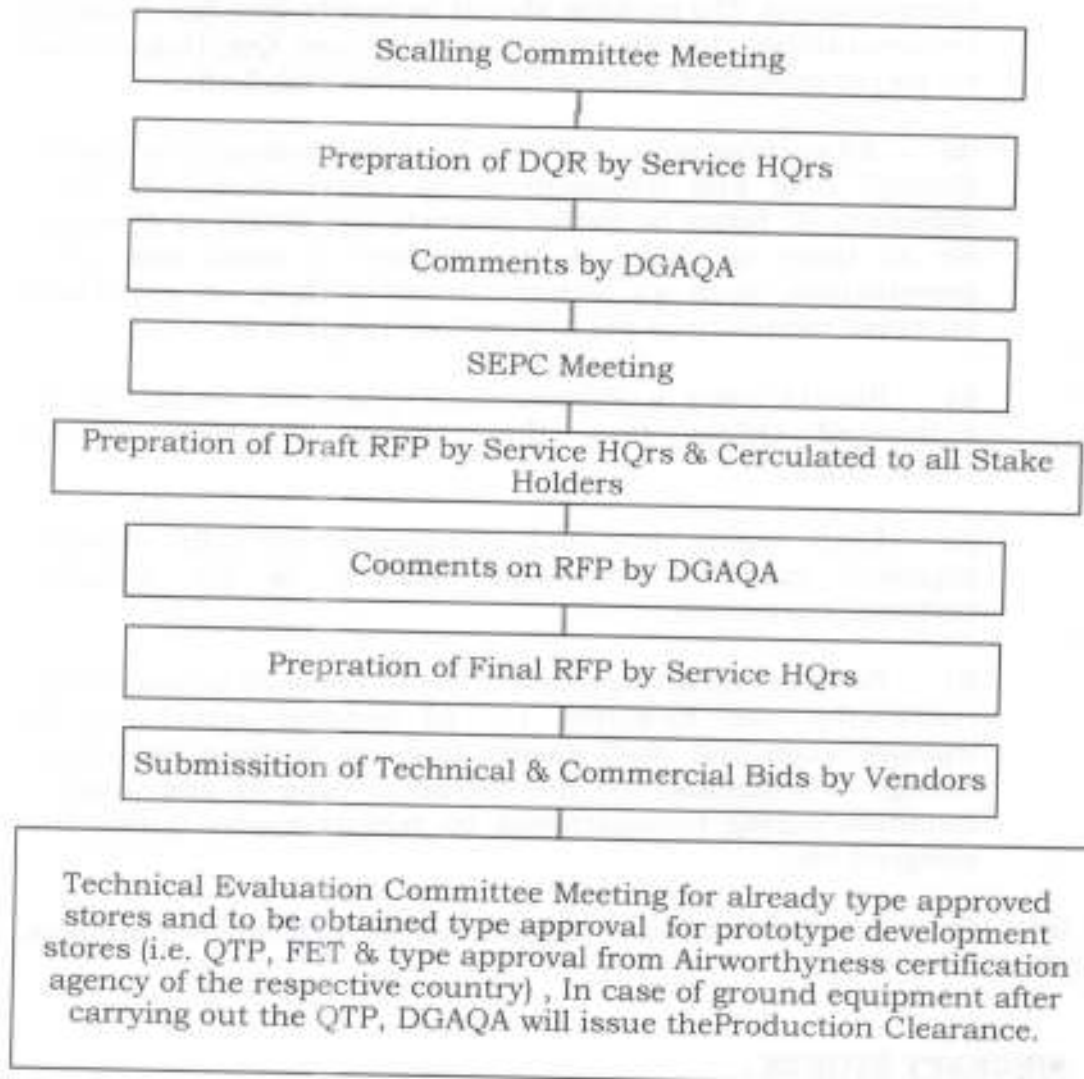
(iv) Procedure for disposal of unused and life expired ammunitions should be defined.

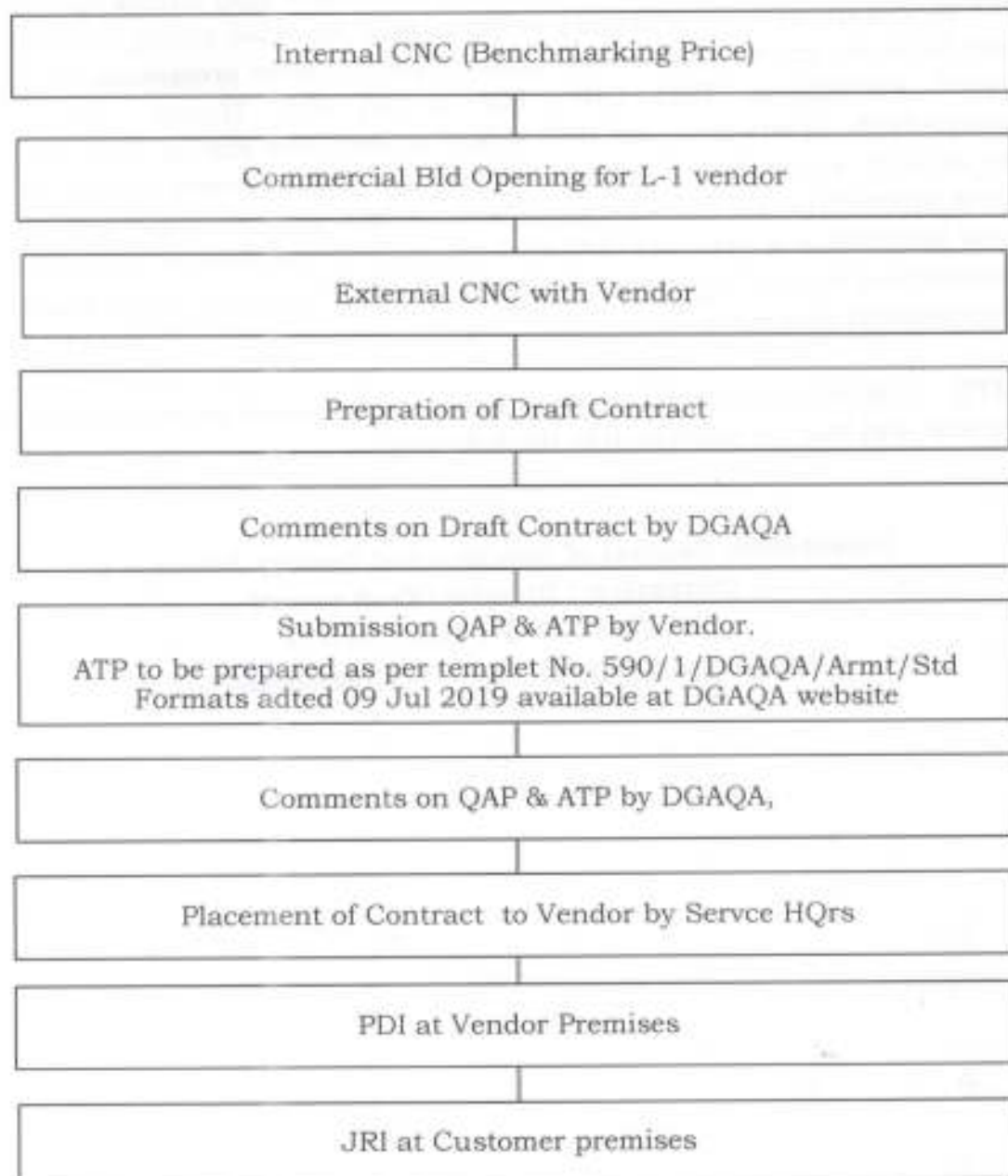
4.4 AIRCRAFT STORES :

(i) Verification of quality documents/records, shelf life of consumables, physical inspection, airworthiness requirements & packing requirements to ensure that the store under acquisition are confirming to the approved ATP.

(ii) Final inspection checks of Major component assemblies (MCAs), installation checks for MCAs, Final Assembly Line (FAL) & Flight line (FL).

(iii) Integration, functional, pre-flight checks and training for DGAQA reps for quality assurance & final acceptance of the store.

5. SEQUENCE OF ACTIVITIES



6. CONCLUSION

The document has brought out systemic procedures/practices that will help all the stakeholders to ensure Quality Assurance (QA) during the SQR's & RFP procedure with documentary evidence that specified quality requirements have been met during the various stages of procurement programme (i.e. SEPC, Project Facilitating, TEC, CNC, PDI & JRI etc). Though, the primary responsibility of ensuring the RFP & SQR's procedure during procurement of the aviation stores for tri-services as per the latest version of DPP & DPM. These procedures will enhance the quality of final product. Strict adherence to these procedures is expected to further enhance the confidence of our esteemed customers of Armed Forces for keeping our flying machines in the highest order of operational readiness.

NOTE : Suggestions for further improvement/amendment in this document are welcome and may be addressed to the following;

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7. **ABBREVIATIONS AND ACRONYMS**

S/No.	Abbreviation	Full Form
1	AM	Acquisition Manager
2	AoN	Acceptance of Necessity
3	ATP	Acceptance Test Procedure
4	COTS	Commercial Off The Shelf
5	CNC	Cost Negotiation Committee
6	DPP	Defence Procurement Procedure
7	DPM	Defence Procurement Manual
8	DDPMAS	Procedure for Design, Development and Production Military Aircraft and Airborne Stores
9	EMI	Electro Magnetic Interference
10	EMC	Electro Magnetic Compatibility
11	EPP	Enhanced Performance Parameters
12	JSEPC	Joint Staff Equipment Policy Committee
13	JSQR	Joint Service Qualitative Requirement
14	GSQR	General Staff Qualitative Requirement
15	ASQR	Air Staff Qualitative Requirement
16	JRI	Joint Receipt Inspection
17	ORs	Operational Requirements
18	PA	Production Agency
19	PDI	Pre Dispatch Inspection
20	PERT	Programme Evaluation & Revenue Technique
21	QRs	Qualitative Requirements
22	RFI	Request for Information
23	RFP	Request for Proposal
24	IDS	Integrated Defence Staff
25	PSR	Preliminary Staff Requirements
26	SCAPCC	Services Capital Acquisition Categorization Committee.
27	SCAPCHC	Services Capital Acquisition Categorization Higher Committee.
28	JSEPC	Joint Staff Equipment Policy Committee
29	SEPC	Staff Equipment Policy Committee
30	SHQ	Service Headquarters
31	SCAP	Services Capital Acquisition Plan
32	SQR	Services Qualitative Requirement
33	TAC	Technology Acquisition Committee
34	TEC	Technical Evaluation Committee
35	TM	Technical Manager
36	TNC	Technical Negotiations Committee
37	TOC	Technical Oversight Committee
38	TOEC	Technical Offsets Evaluation Committee
39	TOOC	Technical Offer Opening Committee
40	VCNS	Vice Chief of Naval Staff
41	VCOAS	Vice Chief of Army Staff
42	VCAS	Vice Chief of Air Staff

8. REFERENCE DOCUMENTS

List of documents used for reference purpose for SQRs & RFP,

- Defence Procurement Procedure-2016
- Defence Procurement Manual-2009
- DDPMAS-2002