Template No.

 CEMILAC\_ACGP\_IICFE/RE\_05

**Issue/Rev No: 01/00**

**Date of Release: 8 Feb 2025**

 **INTEGRATION OF INDIGENOUS CFE Store/system /Role Equipment (RE)**

**On Aircraft**

|  |
| --- |
|  |
| <DESIGN AGENCYLOGO> | **Document No.** |  |
| **Issue No./** **Rev No. :** | <00X>/ | **Issue Date :** | <DD/MM/YYYY> |
| **Copy No. :**  | 01 of N | **No. of** **Pages :**  | < total no .of pages > |
| **Document Classification :** | 🞎 Secret 🞎 Confidential 🞎 Restricted 🞎 Unrestricted  |
| **Title:** | **Project/System :** |
| **INTEGRATION OF INDIGENOUS CFE Store/system /Role Equipment (RE)****On Aircraft** | < Project/System Name> |
| **LRU/System Part No.**  |
| <No.> |
| **Critical Level** |
| <A/B/C/D/E> |
|  | **Name & Designation** | **Signature** |
| Prepared By | <Design Rep Name>, < Designation> <Agency Name> |  |
| Reviewed By | <Project Leader Name>, <Designation> <Agency Name><AWG/QA HOD Name>, <Designation> <Agency Name> |  |
| Approved By | <Project Leader Name>, <Designation><Design Agency><Officer\_Name>, <Designation>RCMA <Name> |  |
|  **<Design Firm Name & Address>** |

**Disclaimer:**

This document is a guidance document. Applicable section / table rows may be considered. Any additional details may be added. Any not applicable section/ table rows may be deleted. The template is very general and vary with process to process followed by Development Agency. The document may be fine-tuned with the TAA for finalization.

**Main Template for Integration of Indigenous/CFE Store/system /Role Equipment (RE)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SL. NO** | **PARTICULARS** | **REMARKS** | **COMPLIANCE STATUS** | **REFERENCES** |
| 1 | Air Staff Requirement (ASR) | Issued by the User |  |  |
| 2 | Air Service Qualitative Requirement (ASQR) |
| 3 | Preliminary Service Qualitative Requirement (PSQR) |
| 4 | Concept of Utilisation |
| 5 | Air HQ /IHQ/Army Aviation Task Directive | Issued by Air HQ/IHQ/ Army Aviation to all concerned |  |  |
| 6 | Work Breakdown Structure for proposed Integration (WBS & PBS) | Issued by the Project/Development Partner |  |  |
| 7 | CEMILAC Directive | Issued by CEMILAC to all concerned RCMAs |  |  |
| 8 | Airworthiness Certification Plan (ACP) | 1. Document to be prepared by the Main Contractor / Design Agency based on the details stipulated in ASR / ASQR / PSQR issued by the user.
2. Comprehensive ACP to be verified and approved by all concerned.
 |  | RCMA(N)/Template/01 |
| 9 | Technical Specifications of Store / Sub system / RE  | 1. Document to be prepared by the Main Contractor / Design Agency based on the following details stipulated in ASR / ASQR / PSQR issued by the user:
2. On which A/c CFE / RE to be integrated
3. Configuration of CFE store / RE with existing stores on the a/c
4. Essential Physical parameters such as Dimensions / Weight / CG / Moment of Inertia of store / RE, Max / Min. ‘g’, IAS during C&H and Release, Max. / Min - AoA / AoS of the aircraft etc.
 |  | To be submitted by Design Agency duly approved Type Record of CFE items / Stores along with Technical Specifications / Test Reports needs to be furnished |
| 10 | System Requirements Specification Sub system / LRU Development – | 1. Requirement Specification is devised by the Designer based on the requirements projected in ASR.
 |  | To be submitted by Design Agency duly approved |
| 11 | FMEA, FMECA, SSA (Aircraft level) | 1. Document is to evolved by the designer from component to system level as per MIL-STD-1629, MIL-STD-882.
 |  | RCMA(N)/Template/02 |
| 12 | Feasibility Study Report (Mechanical & Avionics) | a. Activity to be undertaken as per the clearance requirement specified in the MIL-STD-1289. |  | To be submitted by Design Agency duly coordinated by all concerned  |
| 13 | Integration Design Review (IDR)  |  |  | RCMA(N)/Template/03 |
| 14 | Advanced Modification Instructions (AMI) |  |  | Form – 33 of IMAP-23 |
| 15 | Aircraft integration & FTI scheme (Mechanical/Electrical)(Drawings, DAL, BOM, ICDs, SOPs, I etc) | Flight Test Instrumentation (if applicable) |  | To be submitted by Design Agency for approval/coordination /review  |
| 16 | Qualification test schedule  | To be tailored to the requirements to end use application  |  | RCMA(N)/Template/04 |
| 17 | Integration Reviews (Mechanical/Aerodynamic/Electrical) |  |  | RCMA(N)/Template/05 |
| 18 | Aircraft level EMI/EMC Test Schedule |  |  | RCMA(N)/Template/06 |
| 19 | Aircraft level Ground Test Schedule  |  |  | RCMA(N)/Template/07 |
| 20 | Test Adequacy Review Board (TARB) |  |  | Board recommendation  |
| 21 | Flight Readiness Review Board (FRRB) |  |  | Board recommendation |
| 22 | Flight Safety Review Board (FSRB) |  |  | Board recommendation |
| 23 | Store/system/software Clearance | CoC & Type Record supported by Test Repost in case of CFE  |  | CEMILAC/RCMA |
| 24 | Flight Test Plan  |  |  | Flight Test Agency (FTA) |
| 25 | Ground Test report / Work Done report  |  |  | Designer/Main contractor / Flight Test Agency |
| 26 | Flight Clearance Certificate (FCC) 1. Carriage & Handling
2. Carriage & Handling (Asymmetric config)
3. Avionic Missile
4. Dummy Drop
5. Live Drop
6. Post Flight Analysis
7. Modification Retention
 |  After each phase of flight trials; PFA needs to be undertaken prior to clearance of next phase of trials  |  | Form – 100,100A,101 of IMAP-23 |
| 27 | Post Flight Analysis  |  |  | Report of flight trials and RoD of PFA |
| 28 | User Acceptance report  | On successful completion of all phases of flight trials FTA to submit acceptance report  |  | FTA |
| 29 | Local Modification Committee (LMC) | Ratification of the modification  |  | LMC approval for Clearance for Service Use (CSU) Form – 28 of IMAP-23 |
| 30 | Series Production Drawings & Approval of Mod leaflet |  |  | Form – 35 of IMAP-23 |