Template No.

CEMILAC\_ACGP\_IICFE/RE\_05

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

**On Aircraft**

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| <DESIGN  AGENCY  LOGO> | | **Document No.** |  | | | |
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| **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** | |
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**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)**

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| **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 |