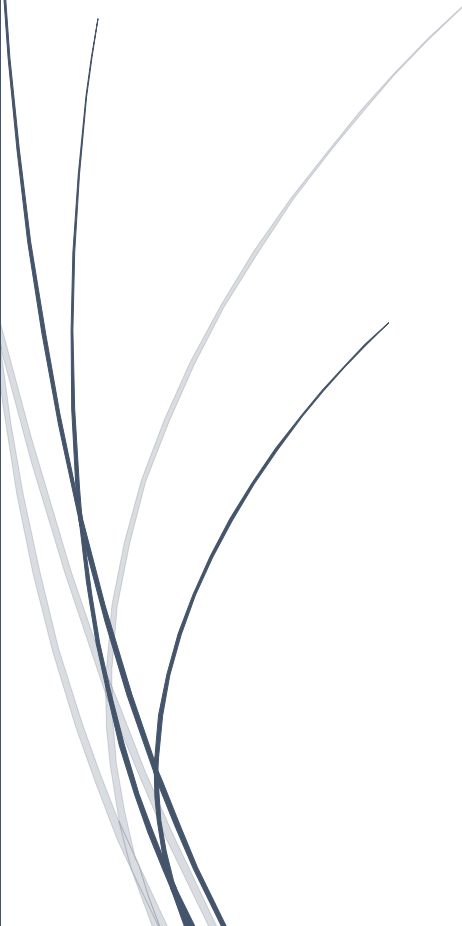


Template No.
CEMILAC_SYSGP_PBS_10

**PRODUCT BREAKDOWN AND
WORK BREAKDOWN STRUCTURE
FOR CERTIFICATION
for <LRU/SYSTEM Name>
for
<Platform Name>**

<p>Issue/Rev No: 01/00 Date of Release: 8 Feb 2025</p>
--



<DESIGN AGENCY LOGO>	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 :	<input type="checkbox"/> Secret <input type="checkbox"/> Confidential <input type="checkbox"/> Restricted <input type="checkbox"/> Unrestricted		
Title:			Project/System :	
PRODUCT BREAKDOWN AND WORK BREAKDOWN STRUCTURE FOR CERTIFICATION for <LRU/SYSTEM Name>for <Platform name>			< 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>				

Prepared By	Checked By	Approved By	Doc No. <Document number>		
			Issue	Revision	Date
					Page No: 2 of 8

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.

Prepared By	Checked By	Approved By	Doc No. <Document number		
			Issue	Revision	Date
					Page No: 3 of 8

Product Breakdown and Work breakdown Structure for Certification

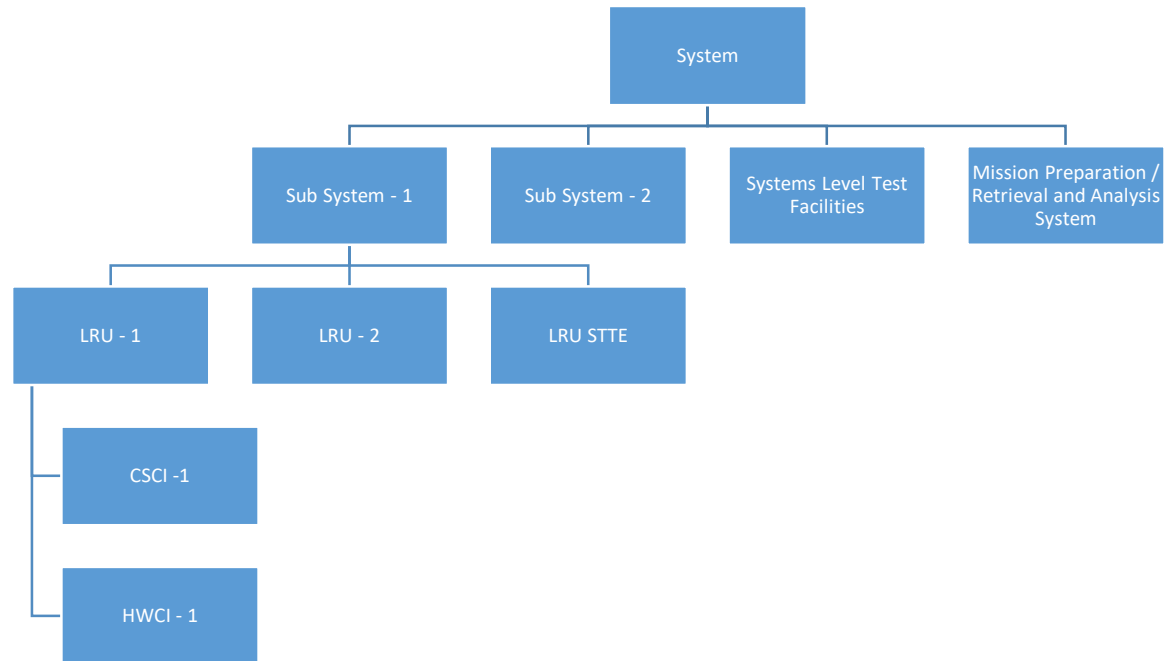
Certification is a multi-disciplinary system engineering process. It is important to plan certification activities upfront in the project for smooth and concurrent progression. In order to plan certification activities, the product Breakdown and Work Breakdown structures of the projects are required. The PBS and WBS will help in the following:

- (i) Understand the total work involved in the project
- (ii) Know the list of development partners with defined boundaries and authorisation to apply for & receive certificates
- (iii) Allocate the work to RCMA's based on the domain and skill set
- (iv) Draft the certification plan
- (v) Tailoring of standards

Product breakdown structure

A detailed breakdown of the System into Subsystems, LRUs (including CSCI/HWCI). The PBS also includes the test rigs and ATEs. A sample representation of the PBS is given below.

Prepared By	Checked By	Approved By	Doc No. <Document number		
			Issue	Revision	Date
					Page No: 4 of 8



a)	System Nomenclature	:	
b)	System Part Number	:	
c)	Platform(s)	:	
d)	Primary Design Agency (Main Contractor)	:	
e)	Aircraft Integration & Aircraft Ground Testing Agency	:	
f)	Aircraft Flight Testing Agency	:	
g)	Any other relevant details	:	

Prepared By	Checked By	Approved By	Doc No. <Document number		
			Issue	Revision	Date
					Page No: 5 of 8

Product Breakdown Structure of the complete system

Indigenously Developed Systems:

Sl.No.	LRU/Part Name	Part No.	Design agency	Development partner (if outsourced)	IP Holder	Govt QA agency	<u>Production Agency</u>	Sw Design agency	Firmware Design agency

Previously developed Indigenous Systems re-used in the present project

Sl.No	LRU/ Part Name	Part No.	Previous project & platform	Certification status in previous project	Re-use level (Hw/Sw/ Both)	Modifications required for adaptation (Hw/ Sw/ Both/ None)	Original design agency	IP Holder	Modification agency

Indigenous Commercial Off the Shelf Items:

Sl.No	LRU/ Part Name	Part No.	Design Firm (IP holder)	Certification status	Already in Use in any Indian Military/ Civil platform?	Any Customisation required for Present Application?

Prepared By	Checked By	Approved By	Doc No. <Document number		
			Issue	Revision	Date
					Page No: 6 of 8

CSE/CFE/BOI:

Sl.No	LRU/ Part Name	Part No.	Design Firm (IP holder) & Country of origin	Certification by Airworthiness authorities	Category of product (CSE/CFE/BOI)	Details, if already in Use in any Indian Military/ Civil platform	Any Customisation required for Present Application?

Note 1: PBS shall be comprehensive by including every part that needs to be separately certified. Please include any interconnecting cable looms, supplementing parts (standard/BOI/CSE) being delivered along with the system. Physical & Logical connectivity block diagrams and context diagrams may be attached.

Test Rigs, Simulators and Ground Equipment Required

Sl. No.	Test Rig / Ground equipment Name	Utilisation Phase (R&D/ Production/ Delivery to services)	Hardware Design agency	Software Design agency	Firmware design agency

Work Breakdown Structure

Prepared By	Checked By	Approved By	Doc No. <Document number		
			Issue	Revision	Date
					Page No: 7 of 8

Sl.No.	LRU Name & Part No.	Work share of Main contractor	Work share of sub-contractor/ Design agency	Work share of Development partner	Workshare of Production agency

Note 2: Overall responsibilities of these agencies may be brought out at top level bullet points. It may also be indicated which agency will be applying for certificate.

Note 3: Initially there can be a few TBDs, which later need to be confirmed before starting of certification activities for that product, and PBS/WBS should be re-issued.

Note 4: Certificate will be issued to the IP Holder or the main contractor as decided in the Certification Plan.

Prepared By	Checked By	Approved By	Doc No. <Document number		
			Issue	Revision	Date
					Page No: 8 of 8