VIth EDITION

COMPENDIUM OF PROBLEM DEFINITION STATEMENTS 2025 INDIAN ARMY





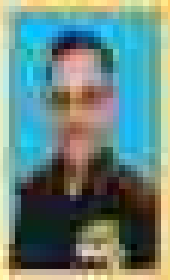

Atma Nirbhar Bharat is not about being self-contained or being closed to the world. It is about being self-reliant and self-governing.
Under the self-reliant India campaign, the country's goal is to make the nation the world's biggest military power so it can end dirndyi a modern military industry here.
(Prime Minister Narendra Modi)





MESSAGES













PREFACE



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UPDATE ON THE STATUS OF COMPENDIUM OF PROBLEM DEFINITION STATEMENTS (CPDS) 2023





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TABLE OF CONTENTS

TABLE OF CONTENTS





GUIDELINES FOR RESPONDING TO COMPENDIUM OF PROBLEM DEFINITION STATEMENTS 2025

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Appendix A

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Appendix II

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Ai


AI
ARTIFICIAL INTELLIGENCE (AI)

AI BASED AUTOMATED TARGET DETECTION FOR AFVs

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COLLATING AND ANALYSING MULTITUDE OF DATA IN CRITICAL CARE AREAS

AI BASED TRANSPORT AND ROAD SPACE MANAGEMENT SYSTEM



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[illegible]

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AI BASED SUPPLY CHAIN MAPPING SYSTEM

1. What is the Problem Statement?

2. Why is this Problem Important?

3. Understanding the Problem (Root Causes / Dependencies)

4. Problem Statement

Author Details:
Name: [illegible]
Email: [illegible]

Co-author(s) Details:
Name: [illegible]
Email: [illegible]

AI BASED PREVENTIVE MAINTENANCE OF EQUIPMENT AND DEMAND FORECAST OF SPARES

(1) What is the Problem Statement?

(2) What are the expectations?

(a)

(b)

(i)

(ii)

(iii)

(iv)

(v)

(3) Constraints, Rules & Regulations, Dependencies, Requirements, etc.

(4) Deliverables:

(a)

(b)

(a) [illegible]

(b) [illegible]

(c) [illegible]

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Primary Contact:	
[illegible]	[illegible]
Secondary Contact:	
[illegible]	[illegible]

AI SEARCH ENGINE FOR EMPLOYMENT OPPORTUNITIES OF EX SERVICEMEN

AI BASED NETWORK VULNERABILITY ASSESSMENT TOOL

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

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[illegible]

[illegible]

a) [illegible]

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Prof. [illegible]
[illegible] [illegible]

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CYBER/ SOFTWARE/ AUTOMATION

POST QUANTUM CRYPTOGRAPHY (PQC) BASED WEB BROWSER

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[illegible]

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[illegible]

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SOFTWARE DATA DIODE TO INTEGRATE TWO TRUSTED NETWORKS

1) What is the problem about?

2) Why is it important?

3) Underpinning Science in the Course/Degree

4) Interactions

Primary Contact:

Secondary Contact:

DYNAMIC ATTACK ADAPTATION

[illegible]

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AR/VR BASED TELEPHONIC CONSULTATION

VIDEO COMPRESSION TECHNOLOGY

[illegible]

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ELECTRONIC ACCESSORIES SCANNER

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UNMANNED AERIAL SYSTEMS & ROBOTICS

ALL TERRAIN UNMANNED GROUND VEHICLE

IC ENGINE BASED LOGISTIC DRONES FOR SUPER HIGH ALTITUDE AREAS

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3) [illegible]

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e) [illegible]

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HEAVY PAYLOAD LOGISTIC DRONE FOR PLAINS/ DESERT

SWARM DRONE BASED MINE DISPENSING SYSTEMS

STANDOFF RANGE EXPLOSIVE DETECTION SYSTEM

CARDBOARD DRONES

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COMMUNICATION & ELECTRONIC WARFARE

HANDSFREE SHORT RANGE INTER COMMUNICATION DIEVICE

1) What is the Problem Statement?

2) Who are the end users?

3) Understanding the Context & Why the Problem is Important

4) Constraints

a) A short range, short interruption device connecting with the mobile phone (Bluetooth) or Face to face Communication.

b) Display of caller ID.

c) Easy to use and maintain, working on any environment.

d) Low cost, affordable to the common people and it can be used by all the age groups.

Project Guide:
Dr. V. Ranga Rao
Associate Professor
Department of Electronics and Communication Engineering
Vasavi College of Engineering
Hyderabad
Email: ranga.rao@staff.vce.ac.in

Presented by:
Sai Kiran Reddy Kovvuri
Email: saikiran.kovvuri@gmail.com

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TETHERED DRONE SYSTEM AS RADIO RELAY STATION

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MANPACK ANTI GNSS BUBBLE (2-3 KM)

DECODER & CLASSIFIERS FOR RF SPECTRUM INCLUDING UAS

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TETHERED DRONE BASED COMINT & ELINT RECEIVERS

1. What is a tethered drone?

2. Why is it important?

3. Understanding the Issue in Other Countries Perspective

4. Challenges

(a)

(b)

(c)

(d)

Project Guide:

Student Coordinator:

FREE SPACE OPTICS EQUIPMENT

PROBLEM DEFINITION STATEMENT - [illegible]

AUTO OPTICAL AXIS ALIGNMENT FOR FREE SPACE OPTICS

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LPI WAVEFORM FOR SOFTWARE DEFINED RADIOS

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(a) [illegible]

(b) [illegible]

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(a) [illegible]

(b) [illegible]

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SITUATIONAL AWARENESS / INTELLIGENCE SURVEILLANCE & RECONNAISSANCE / SENSORS

[illegible]

TETHERED DRONE FOR MR-BIP32

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ADVANCE MOBILE MAST FOR ED DEVICES AND MR-BFSR

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HELICOPTER TRACKING SYSTEM

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HOLOGRAPHIC SAMBI MODEL

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360° SITUATIONAL AWARENESS KIT WITH DRIVER ASSISTANCE FOR PMV

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c) **[illegible]**

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g) **[illegible]**



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(h) [redacted]

(j) [redacted]

(k) [redacted]

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HAND HELD THROUGH WALL RADAR

LONG RANGE OPTICAL TARGET LOCATOR

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WIDE BAND GaN BASED TRANSMISSION / RECEPTION MODULES

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SPOOFING RESISTANT PNT SOLUTION

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ATOMIC CLOCK FOR TIMEKEEPING IN GNSS DENIED ENVIRONMENT

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HEAD MOUNTED CAMERA SYSTEM FOR MILITARY WORKING DOGS

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[illegible]

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[illegible]

(a) [illegible]

(b) [illegible]

[illegible]

SMART COLLARS FOR MILITARY WORKING DOGS





ARMAMENT & AMMUNITION

FRAGMENTATION ROUNDS FOR 12.7 MM SECONDARY ARMAMENT OF TANKS

[illegible]

30 MM FRAGMENTATION AMMUNITION FOR AERIAL ENGAGEMENT

[illegible]

120 MM MORTAR FOR CARRIER MORTAR TRACKED

4TH/ 5TH GENERATION ANTI-TANK GUIDED MISSILE

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

(a) [redacted]

(b) [redacted]

(c) [redacted]

(d) [redacted]

(e) [redacted]

(f) [redacted]

(g) [redacted]

(h) [redacted]

(i) [redacted]

(j) [redacted]

[redacted]

[redacted]

HELICOPTER LAUNCHED LOITERING MUNITION

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

MAN PORTABLE ANTI ARMOUR LOITER MUNITION

(1) [illegible]

[illegible]

(2) [illegible]

[illegible]

(3) [illegible]

[illegible]

(4) [illegible]

[illegible]

(a) [illegible]

(b) [illegible]

(c) [illegible]

(d) [illegible]

(e) [illegible]

(f) [illegible]

(g) [illegible]

FUEL AIR EXPLOSIVES TO BREACH MINEFIELDS

[illegible]

[illegible]

[illegible]

(a) [illegible]

(b) [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]	[illegible]
[illegible]	[illegible]

GROUND BASED TOP ATTACK ANTI TANK MINE

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

(a) [illegible]

(b) [illegible]

[illegible]

By means of this as a whole:

(a) [illegible]

(b) [illegible]

(c) [illegible]

(d) [illegible]

(e) [illegible]

(f) [illegible]

(g) [illegible]

[illegible]	[illegible]
[illegible]	[illegible]



FIRE CONTROL SYSTEM / SIGHTING SYSTEM

NIGHT SIGHT FOR DIRECT FIRING BY ARTILLERY GUNS

1. [illegible]

a. [illegible]

b. [illegible]

2. [illegible]

[illegible]

3. [illegible]

[illegible]

Project Advisor
[illegible] E-Mail: [illegible]

Forwarding Authority
[illegible] E-mail: [illegible]

DIGITAL DAY SIGHT FOR 7.62MM MMG

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

(a) [redacted]

(b) [redacted]

(c) [redacted]

[redacted]

(a) [redacted]

(b) [redacted]

(c) [redacted]

(d) [redacted]

(e) [redacted]

[redacted]	[redacted]
[redacted]	[redacted]

FIRE ASSISTANCE SYSTEM FOR ASSAULT RIFLE

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[redacted]

FIRE CONTROL SYSTEM FOR SNIPER RIFLE

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]	
[redacted]	[redacted]
[redacted]	
[redacted]	[redacted]





MOBILITY

MANPACK MODULAR CROSSING EXPEDIENTS FOR MOUNTAINS

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

TRACKED VEHICLE BASED MULTI SPAN ASSAULT BRIDGE (75-100M)

SELF PROPELLED OR HMV BASED FLOATING BRIDGE SYSTEM (INDIGENOUS)

1. Details for Problem Statement

MBT is a big issue in today's battlefield as it is extensively used by armoured formations in various terrains. Due to mobility issue of MBT's and its heavy weight, it is very difficult to cross any river in mobility. Bridge laying and other operations. Most of the bridging systems of today's need to be launched and recovered by AVLB or by using cranes. As a result, the AVLB and cranes of existing bridge systems are heavy, complicated, expensive and have poor mobility. Hence, a new bridging system

2. Operating Environment

Most bridging operations are carried out in the valley areas and across rivers. Therefore, the bridging system should be capable of operating in the above environment. The bridging system may sometimes also be required to operate in

3. Constraints Governing the Solution and Other Considerations for the Solution

(a) [illegible] Bridging system should be capable of operating in [illegible] environment.

(b) The bridge should be capable of launching and recovering by the vehicle itself without the help of any other vehicle or crane.

(c) The bridge should be capable of being launched and recovered by a single vehicle in less than [illegible] minutes.

4. Desired Outputs

The bridge should be capable of launching and recovering in less than [illegible] minutes. The bridge should be capable of [illegible] tonnes of load.

Primary Sponsor:	
Army Design Bureau	Email: [illegible]
Alternate Sponsor:	
Directorate of Armoured Corps, Army HQ	Email: [illegible]

MOTOR TUG LAUNCH (INDIGENOUS)

1. [illegible]

[illegible]

2. [illegible]

[illegible]

3. [illegible]

[illegible]

4. [illegible]

[illegible]

[illegible]	[illegible]
[illegible]	[illegible]

TYRE TECHNOLOGY FOR AUTOMATIC SNOW CHAINS



SURVIVABILITY/ INDIVIDUAL CAPABILITY ENHANCEMENT

[illegible]

PRECISION AERIAL DELIVERY SYSTEM (PADS)

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

(a) [illegible]

(b) [illegible]

(c) [illegible]

[illegible]

[illegible]

(a) [illegible]

(b) [illegible]

(c) [illegible]

(d) [illegible]

(e) [illegible]

[illegible]	
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

SOLUTION TO PREVENT FREEZING OF WATER AT HIGH ALTITUDE AREAS

Project Guide:

Student Name:

[illegible]

CHEMICAL SOIL STABILISATION

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

(a) [illegible]

(i) [illegible]

(ii) [illegible]

(b) [illegible]

[illegible]	[illegible]
[illegible]	[illegible]

BULLET PROOF VEST FOR MILITARY WORKING DOGS





LOGISTICS & MAINTENANCE

[illegible] PETROLEUM EXPLORATION EQUIPMENTS - [illegible]

UNIVERSAL GEARBOX TESTING FACILITY

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

(a) [illegible]

(b) [illegible]

(c) [illegible]

(d) [illegible]

(e) [illegible]

[illegible]	[illegible]
[illegible]	[illegible]

UNIVERSAL TEST JIG FOR ASSEMBLIES OF TATRA VEHICLE

01 What is the current state?

02 What is the current issue?

03 Impact caused by the issue on the business and key customers

No Access

04 Information

Primary Customer	
Secondary Customer	

HEALTH MONITORING & PREDICTIVE MAINTENANCE OF AFVs USING BIG DATA ANALYTICS

1) [illegible]

[illegible]

2) [illegible]

[illegible]

3) [illegible]

a) [illegible]

b) [illegible]

4) [illegible]

[illegible]

[illegible]	[illegible]
[illegible]	[illegible]

[illegible]

ADVANCED CANOPY FOR LORRY 5/7.5 TON ALS

[illegible]

[illegible]

[illegible]

(a) [illegible]

(b) [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]	[illegible]
[illegible]	[illegible]

NEW GENERATION FUEL BARRELS (200 LITRES)

1. What is the purpose of this tender?

The procurement is a tender process of the petrol company for the manufacture, supply and transportation of 200L new generation barrels. The tender process is open to [illegible] companies, which are duly registered and have the capacity to undertake the contract. The tender documents may be obtained from the procurement department at the petrol company's headquarters in [illegible] upon payment of a non-refundable fee of [illegible]. The tender documents must be submitted in a sealed envelope clearly marked with the tender number and the words "New Generation Fuel Barrels (200 Litres)" and addressed to the procurement department at the petrol company's headquarters in [illegible] on or before [illegible]. Late submissions will not be considered.

2. What is the scope of the contract?

The contract is for the supply of 10,000 new generation fuel barrels (200 litres) to the petrol company's depots in [illegible]. The barrels must be manufactured in accordance with the petrol company's specifications and must be delivered to the depots within [illegible] days of the date of the purchase order.

3. Tender documents, including the Petroleum (Exploration) Regulations

The tender documents include the Petroleum (Exploration) Regulations, which set out the terms and conditions of the contract. The tenderer must comply with all of the requirements of the Petroleum (Exploration) Regulations in order to be considered for the contract.

4. Other matters

The petrol company reserves the right to reject any or all tenders received. The petrol company also reserves the right to negotiate with any tenderer before awarding the contract. The petrol company may also require the successful tenderer to provide a performance bond or other security before the contract is awarded.

(a) [illegible]

(i) [illegible]

(ii) [illegible]

(iii) [illegible]

(iv) [illegible]

(v) [illegible]

CONTAINER FOR LOCAL DEMOLITION OF UNSERVICEABLE EXPLOSIVES/ UXO

DIRECT ENERGY DEPOSITION TECHNOLOGY FOR RECLAMATION OF SPARES

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Principal Contact
[illegible]

Secondary Contacts
[illegible]





IMPORT SUBSTITUTION/ INDIGENISATION

MEMS GYROSCOPES FOR ARMOURED FIGHTING VEHICLES

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

SINGLE MODULE RADAR AND RADAR SIGNAL PROCESSOR CARDS

1. What is the problem about?

2. Why it needs our attention?

3. Current status of the problem?

4. Expectations:

Primary Contact:

Email:

Secondary Contact:

Email:

INDIGENOUS RECOIL PISTON ROD OF 130MM M-46 TOWED GUN SYSTEM

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

ELECTRO OPTICAL FIRE CONTROL SYSTEM FOR 40MM L-70 GUNS

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

(a) [illegible]

(b) [illegible]

(c) [illegible]

[illegible]	[illegible]
[illegible]	[illegible]

MIRROR UNIT OF THERMAL IMAGER SIGHT OF TANK T-90

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

RADIATOR BLOCK OF RANGE FINDER UNIT OF TANK T-90

(1) What is the Problem Statement

(2) Why the Problem is Unique?

(3) Solution Searching Keywords of the Problem Statement

(4) Conclusion

Primary Domain:	
Secondary Domain:	

CONTROL CARD OF GUNNER CONTROL UNIT FOR UPGRADED TISAS OF TANK T-72

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

MAIN BOARD CIRCUIT CARD ASSEMBLY OF THERMAL IMAGER ATGM

CANT ANGLE SENSOR OF THERMAL IMAGER SIGHT OF TANK T-72

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]	[illegible]
[illegible]	[illegible]

GYROSCOPIC STABILIZER ASSEMBLY OF LIDF TPDK-1 OF TANK T-72

Objective of Pendulum Oscillation

Working Principle of Pendulum Oscillation

Troubleshooting Procedure of Pendulum Oscillation Malfunctions

Precautions

ALL TYPES OF DEWAR DETECTOR COOLER ASSEMBLY

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Primary Contact:
[illegible]

Alternate Contact:
[illegible]

SCENE - JACKET DOWN TROUSER DOWN

SCNE - MODULAR GLOVES

1. [illegible]

[illegible]

2. [illegible]

[illegible]

3. [illegible]

[illegible]

4. [illegible]

[illegible]

(a) [illegible]

(b) [illegible]

(c) [illegible]

(d) [illegible]

(e) [illegible]

(f) [illegible]

(g) [illegible]

Primary Contact:
[illegible]

Secondary Contact:
[illegible]

MOUNTAINEERING EQUIPMENT FOR HAA - ROCK PITON

NOTES

NOTES

NOTES

NOTES

NOTES


Electronic Warfare
Artificial Intelligence (AI)
Unmanned Aerial Systems
Situational Awareness
Mobility
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