

### CHECKLIST TO BE ATT WITH SOC FOR THE PROPOSAL

S No	Mandatory Details	Remarks																									
1.	Name of proj (incl ver)	Study Leave Mgt (ver 1.0)																									
2.	Name of sponsor	PME (SL) Sec / HQ ARTRAC																									
3.	Type of Sw (Bespoke/ COTS/ Customized).	Customised																									
4.	Brief justification/ endorsement on reqmt for devp of Sw appl.	Proposed web appl will automate all aspects of the Study Lve incl appl, documentation and monitoring of progress. This will lead to improved systemic efficiency.																									
5.	Aim, Scope and Purpose incl utility, beneficiaries and tgt users.	<p><b>Aim.</b> To automate Study Lve appl, documentation and monitoring processes.</p> <p><b>Scope.</b> The web appl is designed to cover all aspects of Study Lve i.e. from appl till completion.</p> <p><b>Purpose.</b> Approx 1000 offr apply for Study Lve every yr. Presently entire docu from receipt of appl till completion is being done in paper form. It leads to systemic inefficiencies, enhanced secretarial work and wastage of paper. Proposed web appl will lead to automation of the entire process.</p>																									
6.	To be hosted on internet/ ADN with brief justification.	ADN																									
7.	Being devp in house or through IT funds.	Through BISAG-N																									
8.	Usability of proposed appls by other arms/ services/ org/ est.	By all Offrs of IA																									
9.	Hw and IT infrastructure reqd in the form of Virtual Machines at Data Centre (incl memory, storage and processing capb).	<table><tr><th>Purpose</th><th>Qty</th><th># of Cores</th><th>RAM (GB)</th><th>Storage</th></tr><tr><td>Appl VM</td><td>2</td><td>8</td><td>16</td><td>100 GB</td></tr><tr><td>Database VM</td><td>2</td><td>16</td><td>32</td><td>100 GB</td></tr><tr><td>File VM</td><td>1</td><td>8</td><td>8</td><td>1 TB</td></tr><tr><td>Backup VM</td><td>1</td><td>8</td><td>8</td><td>2 TB</td></tr></table>	Purpose	Qty	# of Cores	RAM (GB)	Storage	Appl VM	2	8	16	100 GB	Database VM	2	16	32	100 GB	File VM	1	8	8	1 TB	Backup VM	1	8	8	2 TB
Purpose	Qty	# of Cores	RAM (GB)	Storage																							
Appl VM	2	8	16	100 GB																							
Database VM	2	16	32	100 GB																							
File VM	1	8	8	1 TB																							
Backup VM	1	8	8	2 TB																							
10.	Brief details of content of the proposed Sw appl.	Spring Framework, JAVA. The web appl will have various fields to be filled by applicant offr.																									
11.	Endorsement by Head of Br/ Svc/ Fmn.	MGGS Trg Branch (B)																									
12.	Details of user base.	PAN IA																									
13.	Envisaged cost of entire proj incl license fees and maint.	Nil																									

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14.	Projected dt of completion incl maj timelines.	30 Apr 2025
15.	Brief details of Sw platform and tech stack proposed for devp of appl incl op sys dependencies (if any).	Spring Framework, JAVA. The web appl will be dply on the VM on two Physical Servers. The backup VM will be configured on a separate machine loc far from the production sys.
16.	Brief details of proposed network and bandwidth reqmts.	ADN & minimum 1Mbps
17.	Brief details of OS & Sys software reqmts.	MS Server 2019/ 2022
18.	Brief details of proposed data security measures incl backup of data.	SSL and TLS for data security. Column encryption at database side. Automatic data backup every day (seven days rotation policy).
19.	Brief Details of Proposed Database Engine To Be Used In The Appl.	PostgreSQL an ACID-compliant Object Relational Database Management System, or ORDBMS.
20.	Detls of Sw architecture and COTS Sw proposed to be utilised.	(a) <b>Framework</b> : Spring Framework, Java. (b) <b>Frontend Tool</b> : HTML, CSS, Javascript. (c) <b>Database</b> : PostgreSQL. (d) <b>Web-hosting Tool</b> : Tomcat (Appl Server), Nginx (Web Server). (e) <b>Operating System</b> : Ubuntu. (f) <b>Supporting Browsers</b> : Firefox, Edge, Chrome
21.	Detls of proposed architecture - Centralised/ Federated/ Hybrid.	Centralised
22.	Brief details of proposed utilisation of Public Key Infra (PKI) and Iden and Access Mgt (IAM).	IAM
23.	Technology dependencies (if any).	Nil
24.	Database reqmts.	PostgreSQL Ver 16
25.	Enhancement upgradation (incl patch mgt/ Sw updt procedure and mechanism.	Qtrly/on-occurrence. Centrally pushed through AHCC
26.	Details of licensing (if any).	MS Window/ Server & MS SQL