

Stage 2 Preliminary Assessment

2.1 General Information					
Agency or State Entity Name:					
California Environmental Protection Agency (CalEP	PA)				
Organization Code:					
0555					
Proposal Name:					
CERS NextGen	0555 10				
Department of Technology Project Number:	0555-18				
2.2 Preliminary Submittal Information					
Contact Information:					
Contact First Name:					
Schumin	Wong				
Contact Email:	Contact Phon	e:			
Schumin.Wong@calepa.ca.gov	916-327-5719				
Preliminary Submission Date:	Preliminary A	ssessment Transr	nittal:		
12/31/2020	12/31/2020 (Include transmittal as an attachment to your email submission.)				
2.3 Stage 2 Preliminary Assessment					
2.3.1 Impact Assessment					
				Yes	No
. Has the Agency/state entity identified and committed subject matter experts from all business sponsors and key stakeholders?					
2. Are all current baseline systems that will be impacted by this proposal documented and current (e.g., data classification and data exchange agreements, privacy impact assessments, design documents, data flow diagram, data dictionary, application code, architecture descriptions)?					
 Does the Agency/state entity anticipate needing Technology (CDT) Statewide Technology Procuthis proposal (Market Survey, Request for Info 	rement (STP) to co	•			
4. Does the Agency/state entity anticipate submi procurement activities of this proposal?	tting a budget requ	est to support the	9		
included in Financial Information System for C	5. Could this proposal involve the development and/or purchase of systems to support activities included in Financial Information System for California (FI\$Cal) (e.g., financial accounting, asset management, human resources, procurement/ordering, inventory management, facilities				
6. Does the Agency/state entity have a designate the development of baseline and alternative services.		•	tect to lead		
7. Will the Agency/state entity's Information Sec review of any security related requirements?	urity Officer be invo	olved in the devel	opment and		
8. Does the Agency/state entity anticipate perfor vendors propose a solution?	5 // 1 1 5 1				
2.3.2 Business Complexity Assessment					
	mplexity Zone:	☐ High	☐ Medium	⊠ Low	,



2.4 Submittal Information			
Contact Information:			
Contact First Name:	Contact Last Name:		
Schumin	Wong		
Contact Email:	Contact Phone:		
Schumin.Wong@calepa.ca.gov	916-327-5719		
Submission Date:	Project Approval Executive Transmittal:		
12/31/2020	(Include transmittal as an attachment to your email submission.)		
Submission Type:			
☑ New Submission ☐ U	odated Submission (Post-Approval)		
☐ Updated Submission (Pre-Approval) ☐ W	ithdraw Submission		
R	eason: Select		
l l	f "Other," specify:		



Sections L	Ipdated (For Updated S	submissions Only) – (check all tl	hat app	oly)
	neral Information			2.10.6 Implementation Approach
	eliminary Submittal Inforr			2.10.7 Architecture Information
	age 2 Preliminary Assessm	ient		2.11 Recommended Solution ☐ 2.11.1 Rationale for Selection
	.1 Impact Assessment.2 Business Complexity As	ssessment		☐ 2.11.1 Retionale for Selection ☐ 2.11.2 Technical/Initial IT Project Oversight Framework Complexity Assessment
☐ 2.4 Su	bmittal Information			☐ 2.11.3 Procurement and Staffing Strategy
☐ 2.5 Ba	seline Processes and Syst	ems		☐ 2.11.4 Enterprise Architecture Alignment
	.1 Description			☐ 2.11.5 Project Phases
	.2 Business Process Work	flow		☐ 2.11.6 High Level Proposed Project Schedule
□ 2.5	.3 Current Architecture In	nformation		□ 2.11.7 Cost Summary
□ 2.5	.4 Current Architecture D	iagram		2.12 Staffing Plan
	.5 Security Categorization	_		☐ 2.12.1 Administrative
	d-Level Solution Requirer			☐ 2.12.2 Business Program
	sumptions and Constraint			□ 2.12.3 Information Technology (IT)
	pendencies			□ 2.12.4 Testing
	arket Research			□ 2.12.5 Data Conversion/Migration
	.1 Market Research Meth	odologies/Timeframes		☐ 2.12.6 Training and Organizational Change Management
	.2 Results of Market Rese	_		☐ 2.12.7 Resource Capacity/Skills/Knowledge for Stage 3 Solution
_	Iternative Solutions			Development
□ 2.1	0.1 Solution Type)			☐ 2.12.8 Project Management
	Recommended			☐ 2.12.8.1 Project Management Maturity Assessment
	Alternative			☐ 2.12.8.2 Project Management Planning
□ 2.1	0.2 Name			☐ 2.12.9 Organization Charts
□ 2.1	0.3 Description			2.13 Data Conversion/Migration
□ 2.1	0.4 Benefit Analysis			2.14 Financial Analysis Worksheets
□ 2.1	0.5 Assumptions and Con	straints		
Summary o	f Changes:			
	-			
C 1:4: / -	\	(-)		
	s) from Previous Stag	ge(s):		
Condition		Coloat		
Condition		Select		
Condition	Other, specify	Coloot		
Condition	Sub-category Other, specify	Select		
Condition				
Assessme		Select		
Assessine	Other, specify			
Δσency/st	cate Entity	••••		
Response	•			
Status		Select		
	Other, specify			
Select + to a	add conditions.			



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2.5 Baseline Processes and Systems

2.5.1 Description

The California Environmental Reporting System (CERS) is the statewide web-based system that supports the electronic exchange of required Unified Program information among businesses, local governments and the U.S. EPA. Unified Program information required to be submitted and reported electronically to CERS includes, but is not limited to facility data regarding hazardous material regulatory activities (such as, hazardous materials business plans, site maps, and chemical inventories), underground and aboveground storage tanks, hazardous waste generation, and inspection, compliance and enforcement actions. CERS is a custom system built and maintained by CalEPA staff. The database is built on a .NET framework and utilizes SQL servers for the operating system. Additional information about business processes and the Unified Program is available in the attached Current State Report that outlines the Business Process Workflows required in Section 2.5.2.

2.5.2 Business Process Workflow Attachment: Attach file to email submission. 2.5.3 Current Architecture Information Business Function/Process(es) Submittals Business Function/Process(es) **CUPA Processing** Business Function/Process(es) CME Business Function/Process(es) Reporting Business Function/Process(es) Administration Select + to add a business process with the same application, system, or component; COTS, MOTS or custom solution; runtime environment; system interfaces, data center location; and, security. Application, System or Component **CERS** Select + to add an application, system, or component. COTS, MOTS or Custom Custom application Name/Primary Technology: Microsoft .Net If "Yes," specify: Runtime Cloud Computing Used? ☐ Yes ⊠ No Infrastructure as a Service (IaaS) Environment Server/Device Function Web IIS, File, Application, Domain Controller, Database, VMWare, SQL Server 2012 Hardware Operating System Windows Server 2012, R2 build 9600 System Software Microsoft .NET, Cloudstrike, TFS for source code management Select + to add system software. System Interfaces CERS interfaces with nearly all 81 of the CUPA's local systems. These systems are supported by the following vendors: Accela EnvisionConnect, Accela Civic, Tyler Digital Health Department (DHD), Amanda, HealthSpace Cloud, Hedgerow, Windsor Solutions nSITE (CalEPA Regulated Site Portal) **Data Center Location** State data center operated by CDT Other, specify Security Access ☑ Public ☑ Internal State Staff ☑ External State Staff (check all that apply) ☑ Other, specify: Local regulators (CUPAs) Type of Information ☐ Personal ☐ Health ☐ Tax ☐ Financial ☐ Legal (check all that apply) ☐ Confidential ☐ Other, specify: Hazardous material location data and other "non-releasable" data fields as defined by CalEPA **Protective Measures** ☐ Technical Security ☐ Identity Authorization and Authentication



	(check all that ap		☑ Physical Security☑ Backup and Recovery☐ Other, specify:				
Data Management	Data Ow						
Data Management	Data Ow	Title: Unified Progra	ım Manager				
		Business Program:					
	Data Custo						
			rmation Officer				
		0 /	Business Program: CalEPA IT				
Business Function/	Process(es)	CUPA Performance					
		ne same application, syste		t: COTS. M	OTS or custom solution:		
	· · · · · · · · · · · · · · · · · · ·	data center location; and	•	-,,	,		
Application, Syster	·	SFTP Site hosted by					
		Select + to add an a	pplication, syste	m, or com	ponent.		
COTS, MOTS or Cu	stom	Commerical off-the	-shelf (COTS)				
Name/Prir	nary Technology:						
Runtime Environment	Cloud Computing Us	ed? ☐ Yes ☒ No ☐ If	"Yes," specify:				
	Server/Device Func	tion Secure file transfer					
	Hardw	rare Cisco UCS					
	Operating Sys	tem Windows Server 20	12 R2				
	System Softw	vare Microsoft FTPS					
		Select + to add syste	Select + to add system software.				
System Interfaces							
Data Center Locati		Other					
	Other, spe		1001 Street Sacramento, CA 95814				
Security			☐ Public ☐ Internal State Staff ☐ External State Staff				
	(check all that ap		☑ Other, specify: Local Regulators (CUPAs)				
	Type of Informa		☐ Personal ☐ Health ☐ Tax ☐ Financial ☐ Legal				
	(check all that ap		☑ Confidential ☑ Other, specify: Hazardous material location data and other "non-releasable" data fields as defined by CalEPA				
	Protective Measi		☐ Technical Security ☐ Identity Authorization and Authentication				
	(check all that ap	ply) 🛛 Physical Security	☑ Physical Security ☑ Backup and Recovery				
		☐ Other, specify:					
Data Management	Data Ow						
		Title: Unified Progr					
		Business Program:		1			
	Data Custo		Name: Sergio Gutierrez				
			Title: Agency Information Officer				
Coloct I to odd b	inoss functions/proces	Business Program:	CalEPA II				
	siness functions/proces	55E5.					
	chitecture Diagram th file to email submiss	ion					
	tegorization Impact th file to email submis						
Attachment: Attac			T TABLE 6115				
	SECURITY C	ATEGORIZATION IMPA	I TABLE SUM	IVIARY			
SECURITY	OBJECTIVE	LOW	MODER	ATE	HIGH		



Confidentiality	\boxtimes			
Integrity		\boxtimes		
Availability		\boxtimes		
2.6 Mid-Level Solution Requirements				
Attachment: Attach file to email submission.				



2.7 Assumptions and Constraints				
Assumptions/Constraints	Descripti	on/P	otential Impact	
The CUPAs will not require as much funding as	Stakeholo	ders a	already know about and utilize CERS.	
previously required for outreach to businesses.				
The SaaS or PaaS alternatives will have a shorter				
implementation than upgrading the existing solution	CEBC has	+1440	way data ayahanga hatwaan naarky ayang CLIDA	
The CERS NextGen solution will interface with existing and new third-party systems	system.	two	way data exchange between nearly every CUPA	
CalEPA will secure funding for the CERS NextGen Solution				
The implementation will involve concurrent development	Local regulator systems and vendors will concurrently develop their solutions to allow for data exchange with the CERS NextGen Solution.			
System functionality and scope is limited by program rules and regulations	rulemakiı	ng pr	es or surcharges, CalEPA must go through a ocess for authorization. This will result in a	
The procurement timeline will require approximately	minimum	ı 1 ye	ear lag.	
1 year for completion of Stage 3.				
The procurement timeline will require approximately				
6 months from bid release to award.				
Select + to add assumptions/constraints.				
2.8 Dependencies				
Element	Descripti			
The project team must be able to work with SMEs,	Regular operations pending the de-escalation of the Covid-19			
often in-person. Rulemaking is required for fee / surcharge increases.	pandemic is required to resume normal business operations. To increase fees or surcharges, CalEPA must go through a			
rulemaking is required for fee / surcharge increases.	rulemaking process for authorization. This will result in a minimum 1 year lag.			
Any required regulation changes may be the			ot be the decision owner for all regulatory	
responsibility of other regulatory departments.	changes. Some changes may rely on the decisions of other regulatory departments or boards.			
Availability of cost data from vendors.	Sufficient cost data is required to develop FAW worksheets			
	and accurate cost estimates.			
Select + to add dependencies.				
2.9 Market Research				
2.9.1 Market Research Methodologies/Timeframes				
Methodologies Used To Perform Market Research	h (check	all th	nat apply):	
⊠ Request for Information (RFI)			Trade shows	
Internet Research			Published Literature	
∨ Vendor Forums/Presentation			Leveraged Agreements	
Collaboration with other Agencies/state entities or governmental entities			Other, specify:	
Time spent conducting market research:	7 month	าร		
Date market research was started:	12/2/20)19		
Date all market research was completed:	6/30/20)20		
2.9.2 Results of Market Research				



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The Market Research phase of the project included data collection, analysis and discussion of the following activities:

- Research historical artifacts such as previous UP electronic reporting grant documentation
- Administer Research Surveys to CUPAs and Businesses
- Conduct Stakeholder Interviews
- Research Similar Entities
- Perform Vendor Outreach and conduct a Request for Information (RFI)

Key findings from these research activities include but are not limited to:

- As part of the future evolution of CERS NextGen, CalEPA should strongly consider solution scalability and the ability to add new functionality as deemed necessary by the program
 - Enhancements may include environmental reporting functionality currently supported by locally managed systems
 - Some future enhancements may require changes in regulations or state law
- Changes to CERS data fields and/or requirements often result in significant impacts on CUPAs' local systems.
 - CalEPA should establish whether grants would or should be available for CUPAs to offset the costs of modifying their local systems
 - o If so, the funding source and grant amount per CUPA
- Many CUPAs utilize their local software for multiple programs
- The CERS NextGen implementation should take into consideration concurrent development with CUPA systems
- Clear communication of any system or data field changes is required to all stakeholders, especially CUPA solution vendors, far in advance of the effective date
- Changes to CERS data fields and/or requirements result in moderate impacts to multi-jurisdictional business stakeholders including staff re-training and contractor costs to update information for regulated facilities
- CalEPA, in collaboration with the solution implementation vendor, must develop clear and detailed training materials and user guides for all user types
- The State of California and the CERS system are unique in their scope and management when compared to other state environmental management systems

2.10 Alternative Solutions

2.10.1 Solution Type

⊠ Recommended

2.10.2 Name

PaaS Best of Breed

2.10.3 Description

The PaaS alternative calls for subscribing to a cloud-based software solution that may be configured to meet CERS NextGen "core" functionality. Core functionality is defined as workflows, data capture (screens and forms), basic reporting, and search capabilities. Other functions are provided by "micro-services", or apps that have a proven track record working with the selected PaaS software. Micro-services may support functionality such as public access via a portal, business intelligence and analysis, enhanced identity management, and document management. The PaaS alternative will require a system integrator to configure the core functions and integrate the micro-services into the CERS NextGen solution. This solution may also include data storage (via regular downloads) to a State of California owned database.

Costs for the PaaS alternative include software licenses, for the platform and required micro-services, and one-time implementation costs. The one-time implementation costs include configuration of the PaaS solution, integration of micro-services, data migration, testing, training, stakeholder outreach/Organizational Change Management, and deployment. Operational costs include the annual maintenance fee for the PaaS software and micro-services, storage of data in CalCloud, and CalEPA staff or consultants need to administer the solution. Examples of a PaaS solution are Microsoft Dynamics, Salesforce.com, Infor, and SimpliGov.

Approach (Check all that apply):

- Modify the existing business process or create a new business process



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	☐ Reduce the services or level of services provided							
\boxtimes	□ Utilize new or increased contracted services □ Utilize new or increased contracted services							
	☐ Enhance the existing IT system							
\boxtimes								
	Perform a business-base	ed procurement to have ven	dors propose a soluti	on				
	Other, specify:							
2.10.4	Benefit Analysis							
Benef	its/Advantages							
• Pr	oven technology and func	tionality						
• Fa	st implementation throug	h the use of proven technol	ogy					
• M	icroservice vendors provid	le specialized services						
 Ty 	pically configurable to me	et certain unique business r	equirements					
	onducive to agile deployme							
• De	eveloper resources not rec	quired						
• Gr	reater flexibility by selectin	ng modular solutions to mee	et business needs					
• Pr	oven security and reliabili	ty in the market						
• Lo	wer up-front implementat	tion costs						
• Bu	udget constraints may allo	w gradual increases in funct	ionality					
• Ea	sy to replace or add indivi	dual modules based on cha	nging business needs					
• Pl	atform may allow CalEPA t	o add additional functionali	ty for other programs	s/systems (more inte	grated portal)			
Select	+ to add benefits/advanta	iges.						
Dicado	vantages							
		cle to design, solicit, evalua	to and coloct a platfo	rm microsorvicos a	nd integration			
	endor	cie to design, soncit, evalua	te, and select a platio	iiii, iiiiciosei vices, a	nu miegration			
		and configuration capabilit	ies not fully customiz	ahle				
			•					
			May require revisions to business processes to meet off-the-shelf functionality					
		Higher licensing and other recurring costs than upgrade existing solution						
	Dependent on vendor product roadmap for new functionality							
• Re	•	·						
	equires additional training	for all stakeholders	onality					
• Si	equires additional training gnificant change and disru	for all stakeholders ption to business operation	onality s					
• Sig	equires additional training gnificant change and disru equires significant integrat	for all stakeholders ption to business operation ion between multiple soluti	onality s ons					
SigReSt	equires additional training gnificant change and disru equires significant integrat rong reliance on integratio	for all stakeholders ption to business operation ion between multiple soluti on vendor to maintain servio	onality s ons ces	multiple vendor risk	of nartial			
SigReStM	equires additional training gnificant change and disru equires significant integrat rong reliance on integratic icroservices continuity is le	for all stakeholders ption to business operation ion between multiple soluti	onality s ons ces	multiple vendor risk	of partial			
 Sig Re St M di: 	equires additional training gnificant change and disru equires significant integrat rong reliance on integratic icroservices continuity is loscontinued support.	for all stakeholders ption to business operation ion between multiple soluti on vendor to maintain servio	onality s ons ces	multiple vendor risk	of partial			
 Sig Re St M di: 	equires additional training gnificant change and disru equires significant integrat rong reliance on integratic icroservices continuity is le	for all stakeholders ption to business operation ion between multiple soluti on vendor to maintain servio	onality s ons ces	multiple vendor risk	of partial			
 Sig Re St M di: 	equires additional training gnificant change and disru equires significant integrat rong reliance on integratic icroservices continuity is lescontinued support. + to add disadvantages.	for all stakeholders ption to business operation ion between multiple soluti on vendor to maintain servicess certain than SaaS, could	onality s ons ces be less consistent UI, Objectives After Proje		of partial			
SigReStMdi:Select	equires additional training gnificant change and disru equires significant integrat rong reliance on integratic icroservices continuity is lescontinued support. + to add disadvantages. An	for all stakeholders ption to business operation ion between multiple soluti on vendor to maintain servic ess certain than SaaS, could ticipated Time to Achieve C	onality s ons ces be less consistent UI, Objectives After Proje Timeframe	ct Go-Live				
SigReStMdi:Select	equires additional training gnificant change and disruequires significant integrations rong reliance on integrations icroservices continuity is less continued support. + to add disadvantages. An tive Number Within 1	for all stakeholders ption to business operation ion between multiple soluti on vendor to maintain servic ess certain than SaaS, could ticipated Time to Achieve C	onality s ons ces be less consistent UI, Objectives After Proje		of partial Over 4 Years			
SigReStMdi:Select	equires additional training gnificant change and disru equires significant integrat rong reliance on integratic icroservices continuity is lescontinued support. + to add disadvantages. An	for all stakeholders ption to business operation ion between multiple soluti on vendor to maintain servic ess certain than SaaS, could ticipated Time to Achieve C	onality s ons ces be less consistent UI, Objectives After Proje Timeframe	ct Go-Live				
SigReStMdi:Select	equires additional training gnificant change and disruequires significant integrations rong reliance on integrations icroservices continuity is less continued support. + to add disadvantages. An tive Number Within 1	for all stakeholders ption to business operation ion between multiple soluti on vendor to maintain servicess certain than SaaS, could ticipated Time to Achieve C Objective Year 2 Years	onality s ons ces be less consistent UI, Objectives After Proje Timeframe 3 Years	ct Go-Live				
SigReStMdi:Select	equires additional training gnificant change and disruequires significant integration rong reliance on integration icroservices continuity is less continued support. + to add disadvantages. An tive Number Within 1 1.1	for all stakeholders ption to business operation ion between multiple soluti on vendor to maintain servicess certain than SaaS, could ticipated Time to Achieve C Objective Year 2 Years	onality s ons ces be less consistent UI, Objectives After Proje Timeframe 3 Years	ct Go-Live				

3.1

3.2

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				2 0 paramont or 1 000	(.,,	
Sele	ect + to add objec	tives.					
		Anticipated Tir	me to Achieve Finan	cial Benefits After Pi	oject Go-Live		
F	inancial Benefit	Within 1 Year	2 Years	3 Years	4 Years	Over 4 Years	
In	creased Revenues						
	Cost Savings	Cost Savings					
	Cost Avoidance						
	Cost Recovery						
2.10	0.5 Assumptions an	d Constraints					
Paa	S implementation v	vill be the second	fastest of all alterna	tives considered.			
Call	PA IT staff will bec	ome responsible f	or maintaining the s	oftware and configur	ation post-impleme	ntation.	
The	PaaS subscription	icenses must fall	within the estimated	l budget.			
			ill be provided as a b	olanket 'site-license'	or allow for unlimite	d scalability	
	nout additional pro						
	ect + to add assump						
	0.6 Implementation						
			enhancement or nev	v system proposed (check all that apply)		
	Enhance the curre	•					
	Develop a new cu						
\boxtimes	Purchase a Comm						
	Purchase or obtai	n a system from a	nother government	agency (Transfer)			
	Subscribe to a Sof	tware as a Service	e (SaaS) system				
	Other, specify:						
Ide	ntify cloud service	s to be leveraged	(check all that apply	r):			
	Software as a Serv	vice (SaaS) provide	ed by OTech				
	Software as a Serv	vice (SaaS) provide	ed by commercial ve	ndor			
\boxtimes	Platform as a Serv	rice (PaaS) provide	ed by OTech				
\boxtimes	Platform as a Serv	rice (PaaS) provide	ed by commercial ve	ndor			
	Infrastructure as a	a Service (IaaS) pro	ovided by OTech				
	Infrastructure as a	Service (IaaS) pro	ovided by commercia	al vendor			
	No cloud services	will be leveraged	by this alternative.	Provide a description	of why cloud servic	es are not being	
	leveraged:		•	·	·	· ·	
	-						
Ide	entify who will mod	lify the existing sy	stem or create the	new system (check a	Il that apply):		
\boxtimes	Agency/state enti	ty IT staff					
\boxtimes	A vendor will be c	ontracted					
	Inter-agency agre	ement will be esta	ablished with anothe	er governmental ager	ncy. Specify Agency	name(s):	
	Other, specify:						
Ide	entify the implemen	ntation strategy:					
\boxtimes	All requirements	will be addressed	in this proposed pro	ject in a single implei	mentation.		
	Requirements wil	l be addressed in i	ncremental impleme	entations in this prop	osed project.		
	Some requiremen	ts will be address	ed in this proposed p	project. The remaining	g requirements will	be addressed at a	
	later date.						
	Specify the year w	hen the remainin	g requirements will	be addressed:			
	ntify if the technol	ogy for the propo	sed project will be i	mission critical and n	ublic facing:		
Ide	intily if the technol	og, ioi tile biobe	sea project will be i	mosion circical and p	abile lacing.		



2.10.7 Architecture	e Information						
Business Function/	Process(es)	Submittals					
		CUPA Processing	g				
		CME					
		CUPA Performar	nce Evaluation				
Select + to add a bu	usiness process with the san	ne application, sys	stem, or componen	t; COTS, MOTS or custom solution;			
runtime environme	ent; system interfaces, data	center location; a	nd, security.				
Application, System	n or Component	TBD					
		Select + to add a	an application, syste	em, or component.			
COTS, MOTS or Cus	stom	COTS					
N	ame/Primary Technology:	TBD					
Runtime Environment	Cloud Computing Used?	⊠ Yes □ No	If "Yes," specify:	Platform as a Service (PaaS)			
	Server/Device Function	TBD					
	Hardware	TBD					
	Operating System	TBD					
	System Software	TBD					
		Select + to add system software.					
System Interfaces		The solution must interface with nearly all 81 of the CUPA's local systems. These systems are supported by the following vendors: Accela EnvisionConnect, Accela Civic, Tyler Digital Health Department (DHD), Amanda, HealthSpace Cloud, Hedgerow, Windsor Solutions nSITE (CalEPA Regulated Site Portal)					
Data Center Location Other, specify	on	Commercial data center					
Security	Access	□ Public □ Interpretation □ Interpr	ernal State Staff	☐ External State Staff			
	(check all that apply)	⊠ Other, specify	: Local Regulators	(CUPAs)			
	Type of Information	☐ Personal ☐	Health 🗌 Tax 🔲	Financial 🗆 Legal			
	(check all that apply)	oxtimes Confidential	☑ Other, specify:	Hazardous material location data			
		and other "non-releasable" data fields as defined by CalEPA					
	Protective Measures	□ Technical Sec □	urity 🛛 Identity A	uthorization and Authentication			
	(check all that apply)	□ Physical Security □ Backup and Recovery					
		\square Other, specify	/ :				
Data Management	Data Owner	Name: John Pair	ne				
		Title: Unified Pro	ogram Manager				
		Business Progra	m: Unified Program	1			
	Data Custodian	Name: Sergio Gu	utierrez				
			ormation Officer				
		Business Prograi	m: CalEPA IT				



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Select + to add business functions/processes.

2.10.1 Solution Type

⋈ Alternative

2.10.2 Name

SaaS Best of Breed

2.10.3 Description

The SaaS alternative calls for subscribing to a cloud-based software solution. The SaaS alternative presumably can support 85% or more of the CERS NextGen requirements, with the remaining requirements being provided by other SaaS software that will be integrated into the system by the primary SaaS provider. This solution may also include data storage (via regular downloads) to a State of California owned database (stored in CalCloud).

Costs for the SaaS alternative include software license subscriptions and one-time implementation costs. The one-time implementation costs include configuration of the SaaS solution, integration with software needed to meet requirements, data migration, testing, training, stakeholder outreach/Organizational Change Management, and deployment. Operational costs include the annual subscription fee for the SaaS software, storage of data in CalCloud, and CalEPA staff or consultants need to administer the solution. Examples of a SaaS solution that are currently supporting one or more CUPAs, Public Health, Public Safety, or Environmental Protection organizations are Tyler DHD, Accela Civic, and Amanda.

Approach (Check all that apply):

 ppioac	in teneer an that apply.			
\boxtimes	Increase staff – new or existing capabilities			
\boxtimes	Modify the existing business process or create a new business process			
	Reduce the services or level of services provided			
\boxtimes	Utilize new or increased contracted services			
	Enhance the existing IT system			
\boxtimes	Create a new IT system			
	Perform a business-based procurement to have vendors propose a solution			
	Other, specify:			

2.10.4 Benefit Analysis

Benefits/Advantages

- Proven technology and functionality
- Existing Unified Program customer base
- Faster implementation than other alternatives
- SaaS vendors are well-informed in the vertical markets they serve
- Typically configurable to meet certain unique business requirements
- Conducive to agile deployment methodology
- Developer resources not required
- Proven security and reliability in the market
- Lower up-front implementation costs than PaaS.

Select + to add benefits/advantages

Disadvantages

- Limited to existing functions and configuration capabilities, not fully customizable
- May require revisions to business processes to meet off-the-shelf functionality
- Higher licensing and other recurring costs
- Dependent on vendor product roadmap for new functionality
- Requires additional training for all stakeholders
- Significant change and disruption to business operations
- Requires the vendor to integrate multiple solutions if one SaaS solution cannot meet all requirements

Select + to add disadvantages

Anticipated Time to Achieve Objectives After Project Go-Live



		Objective 1	Timoframo		
Objective	Within 1 Year	2 Years	3 Years	4 Years	Over 4 Years
Number	Within 1 real	Z icais	3 Tears	4 icais	Over 4 rears
1.1	\boxtimes	П	П	П	П
1.2	\boxtimes				
2.1	\boxtimes				
2.2					
3.1		<u>—</u>			
3.2		Ш		Ш	Ш
Select + to add obje					
			cial Benefits After P	-	
Financial Benefit	Within 1 Year	2 Years	3 Years	4 Years	Over 4 Years
Increased Revenues	_				
Cost Savings	 -				
Cost Avoidance	_				
Cost Recovery					
2.10.5 Assumptions	and Constraints				
The SaaS alternative	will meet at least 859	% of requirements.			
The SaaS subscription	n licenses must fall w	ithin the estimated	l budget.		
The public facing por	tal for businesses wil	l be provided as a b	olanket 'site-license'	or allow for unlimite	ed scalability
without additional pr	rocurement.				
Select + to add assur					
2.10.6 Implementati					
	existing IT system er	nhancement or nev	w system proposed (check all that apply)	:
☐ Enhance the cu					
·	custom solution	(COTC)1			
	nmercial off-the-Shelf	• •	(T (C)		
	tain a system from ar		agency (Transfer)		
	Software as a Service	(SaaS) system			
Other, specify:	ces to be leveraged (chack all that apply	/\•		
	ervice (SaaS) provide		7)•		
	ervice (SaaS) provide	•	endor		
	ervice (PaaS) provide	•			
	ervice (PaaS) provide	•	endor		
	is a Service (IaaS) pro	•			
	is a Service (laaS) pro		al vendor		
	es will be leveraged b	•		n of why cloud servi	ces are not being
leveraged:				, 5.000 551 710	2. 2. 2
	odify the existing sys	stem or create the	new system (check a	ill that apply):	
☐ Agency/state e					
A vendor will be				6	()
☐ Inter-agency agreement will be established with another governmental agency. Specify Agency name(s):					



	Other, specify:
Ide	ntify the implementation strategy:
\boxtimes	All requirements will be addressed in this proposed project in a single implementation.
	Requirements will be addressed in incremental implementations in this proposed project.
	Some requirements will be addressed in this proposed project. The remaining requirements will be addressed at a
	later date.
	Specify the year when the remaining requirements will be addressed:
Ide	ntify if the technology for the proposed project will be mission critical and public facing:
\boxtimes	The technology implemented for this proposed project will be considered mission critical and public facing.
2.10	0.7 Architecture Information



runtime environment; system interfaces, data			Submitals CUPA Processing CME CUPA Performance Evaluation Reporting Administration ne application, system, or component; COTS, MOTS or custom solution; center location; and, security.					
Application, System	n or Co	omponent	TBD					
			Select +	to add a	in application, syste	em, or component.		
COTS, MOTS or Cus	tom		Comme	rical off-	the-shelf (COTS)			
N	lame/	Primary Technology:	TBD					
Runtime Environment	Clo	ud Computing Used?	⊠ Yes	□ No	If "Yes," specify:	Software as a Service (SaaS)		
	Sei	rver/Device Function	TBD					
		Hardware	TBD					
		Operating System	System TBD					
		System Software	ware TBD					
		S	Select + to add system software					
System Interfaces			The solution must interface with nearly all 81 of the CUPA's local systems. These systems are supported by the following vendors: Accela EnvisionConnect, Accela Civic, Tyler Digital Health Department (DHD), Amanda, HealthSpace Cloud, Hedgerow, Windsor Solutions nSITE (CalEPA Regulated Site Portal)					
Data Center Location	on		Select					
		Other, specify						
Security		Access (check all that apply)	☑ Public ☑ Internal State Staff ☑ External State Staff☑ Other, specify: Local Regulators (CUPAs)					
		Type of Information (check all that apply)	☐ Personal ☐ Health ☐ Tax ☐ Financial ☐ Legal ☐ Confidential ☐ Other, specify: Hazardous material location data and other "non-releasable" data fields as defined by CalEPA					
		Protective Measures (check all that apply)	☐ Technical Security ☐ Identity Authorization and Authentication					
Data Management		Data Owner	Name:	John Pai	ne			
			Title: Ur	nified Pro	ogram Manager			
			Busines	s Prograi	m: Unified Program	1		
		Data Custodian		Sergio G				
					formation Officer			
			Busines	s Prograi	m: CalEPA IT			



				2 0 paramont or 1 00		.,,
		functions/proce	esses			
2.10.1 Solut	tion Type					
	tive					
2.10.2 Name	e					
Upgrade / C	Custom Devel	opment in CalC	loud			
2.10.3 Desci	ription					
This alternat	tive will bring	the existing CE	RS Operating Systen	n, .NET framework, S	QL Server versions a	nd patches up to
supportable	e versions. Up	grading the exi	sting legacy .Net app	lications and Service	es could require signif	ficant refactoring
and rewritin	ng. In additio	n, the function	ality will be updated	to resolve a majority	\prime of the pain points id	entified in the
					ifications of existing f	·
	•		•		ERS will include busir	•
•	•	-	•		nt, quality manageme	•
	_				cleanup and possibly	
		-	sts post deployment	wiii include Calepa a	nd/or contractor sup	port and storing
	ien in CalClou <mark>Check all that</mark>					
		- new or existin	a canabilities			
			process or create a no	aw husiness process		
	•	- ,		ew business process		
	Reduce the services or level of services provided					
	✓ Utilize new or increased contracted services✓ Enhance the existing IT system					
	reate a new l		I I			
		•	curement to have ve	endors proposo a soli	ution	
	ther, specify:	•	curement to have ve	indors propose a son	ution	
2.10.4 Bene						
Benefits/Ad	•					
		ces (technology	staff)			
	nange to end		, 3.0117			
		sing costs than	other options			
	g required for					
	trol over app					
	add benefits/a					
Disadvantag	σως					
		timeline of all a	alternatives consider	ed		
			for development, tes		 nt	
			s for maintenance ar			
	on CalEPA inf					
			dence on developme	nt team to implemer	nt security policies	
Future risk c	of obsolescen	ice				
Not leveragi	ing provent to	echnology used	l by other clients in t	he market		
Select + to add disadvantages						
		Anticipate	d Time to Achieve O	bjectives After Proie	ect Go-Live	
			Objective ⁻			
Objectiv	ve W	ithin 1 Year	2 Years	3 Years	4 Years	Over 4 Years
Numbe						



1.1	\boxtimes							
1.2	\boxtimes							
2.1	\boxtimes							
2.2			\boxtimes					
3.1			\boxtimes					
3.2			\boxtimes					
Select + to add ob	jectives							
	Anticinated Ti	me to Achieve Finan	cial Renefits After P	roiect Go-Live				
Anticipated Time to Achieve Financial Benefits After Project Go-Live Financial Benefit Within 1 Year 2 Years 3 Years 4 Years Over 4 Years								
Increased Revenue								
Cost Saving					П			
Cost Avoidanc								
Cost Recover								
	<u> </u>							
2.10.5 Assumptions								
Custom developme	nt implementation v	vill be the longest of	all alternatives consi	dered.				
The UI can remain o	consistent with the e	xisting CERS UI, there	efore reducing training	ng and customer ado	ption time.			
CalEPA will maintain	n total ownership an	d control over the so	lution and will conti	nue maintenance and	d operation of the			
solution post-imple								
_	it of rework to fix exi	isting system deficier	ncies this alternative	is expected to be the	most complex of			
all options.		· · · · · · · · · · · · · · · · · · ·						
		of staff involvement in		er documentation an	d training.			
Calepa's current tec	chnology can be upg	raded without startir	ng over					
CalEPA will augmen	t staffing resources	with additional state	staff or with contrac	tors				
Select + to add assu	mptions/constraints	5						
2.10.6 Implementa	tion Approach							
Identify the type o	of existing IT system	enhancement or nev	w system proposed (check all that apply):				
	urrent system							
☐ Develop a new	custom solution							
	mmercial off-the-She							
	•	another government	agency (Transfer)					
	Software as a Service	e (SaaS) system						
Other, specify:								
Identify cloud services to be leveraged (check all that apply):								
	Service (SaaS) provid							
	` '	led by commercial ve	enuor					
	Service (PaaS) provid	led by OTech led by commercial ve	ndor					
	as a Service (laaS) pr	•	HIGOI					
		rovided by Commerci	al vendor					
		by this alternative.		n of why cloud service	es are not being			
leveraged:		,	21122 2 2 2 2 2 2 2 1 1 2 1 2 1	, 5.55.0 55. 110				
3								



Ide	ntify who will modify the existing system or create the new system (check all that apply):				
\boxtimes	Agency/state entity IT staff				
\boxtimes	A vendor will be contracted				
	Inter-agency agreement will be established with another governmental agency. Specify Agency name(s):				
	Other, specify:				
Ide	ntify the implementation strategy:				
	All requirements will be addressed in this proposed project in a single implementation.				
\boxtimes	Requirements will be addressed in incremental implementations in this proposed project.				
	Some requirements will be addressed in this proposed project. The remaining requirements will be addressed at a				
	later date.				
	Specify the year when the remaining requirements will be addressed:				
Ide	ntify if the technology for the proposed project will be mission critical and public facing:				
\boxtimes	The technology implemented for this proposed project will be considered mission critical and public facing.				
2.10	.7 Architecture Information				



Business Function/Process(es)		Submittals CUPA Processing CME CUPA Performance Evaluation Reporting Administration				
	usiness process with the sam ent; system interfaces, data o	• •	•	; COTS, MOTS or custom solution;		
Application, System	or Component	CERS	· ·			
		Select + to add a	an application, syste	m, or component.		
COTS, MOTS or Cus		Custom applicat	ion			
N	lame/Primary Technology:	Microsoft .Net				
Runtime Environment	Cloud Computing Used?					
	Server/Device Function	Microsoft SQL S	erver 2019			
	Hardware					
	Operating System	Windows Server 2019				
	System Software	Microsoft .NET 4.8.				
		.NET is a component of the Windows OS. Components receive the same				
		support as their parent product or platform. Select + to add system software				
System Interfaces		The solution must interface with nearly all 81 of the CUPA's local				
System meenuces		systems. These systems are supported by the following vendors: Accela EnvisionConnect, Accela Civic, Tyler Digital Health Department (DHD), Amanda, HealthSpace Cloud, Hedgerow, Windsor Solutions nSITE (CalEPA Regulated Site Portal)				
Data Center Location	on	Select	,			
	Other, specify					
Security	Access	⊠ Public ⊠ Interpretation	ternal State Staff 🛛	☑ External State Staff		
	(check all that apply)	☑ Other, specify: Local Regulators (CUPAs)				
	Type of Information	☐ Personal ☐	Health □ Tax □	Financial 🗆 Legal		
	(check all that apply)	☑ Confidential ☑ Other, specify: Hazardous material location data and other "non-releasable" data fields as defined by CalEPA				
	Protective Measures	□ Technical Sec □	curity 🛛 Identity A	uthorization and Authentication		
	(check all that apply)	☑ Physical Security	rity ⊠Backup and	Recovery		
		\square Other, specif	y:			
Data Management	Data Owner	Name: John Pair				
		Title: Unified Pro				
			m: Unified Program			
Data Custodian		Name: Sergio Gu				
		<u> </u>	ormation Officer			
		Business Program: CalEPA IT				



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Select + to add business functions/processes.

2.11 Recommended Solution

2.11.1 Rationale for Selection

CalEPA has assessed the implications of a proposed IT solution as it relates to the business problems and opportunities identified in the Stage 1 Business Analysis submission. After extensive review and careful consideration, CalEPA recommends a PaaS solution.

At this time, CalEPA does not have a strong preference for either a SaaS or PaaS solution, though there is a minor preference for a SaaS solution. There are a few vendors that have existing SaaS solutions that are well established in the industry vertical of environmental reporting solutions. These solution vendors already have moderate programmatic knowledge that will likely facilitate a smooth and more expedient implementation. That stated, CalEPA aims to conduct the CERS NextGen procurement in a way that is open to the broadest vendor community possible. Based on the results from the Market Research, there are a variety of SaaS and PaaS vendors that are able to meet the majority of the midlevel requirements out-of-the-box with configuration. In addition, the vendors' interpretation of SaaS and PaaS definitions vary between products. The greater difference that Market Research revealed is vendors that have an existing solution that is more COTS/out-of-the-box compared to solutions that the vendor would have to significantly build out through configuration. CalEPA intends to welcome responses that propose both SaaS and PaaS solutions, and will use the PaaS solution timeline and cost estimates for planning purposes.

When evaluating vendor responses, CalEPA will conduct a thorough best value evaluation that considers the vendor's ability to meet the requirements, the proposed implementation timeline, and of course, solution costs. Additional details regarding procurement and evaluation will be documented during S3SD.

Attachment: Attach file to email submission.						
2.11.2 Technical/Initial	CA-PMM Complex	ity Assess	ment			
Complex	kity			Complexity Zone		
		□ Zo	ne I	Low Criticality/Risk		
Technical Complexity So	core: 1.7	⊠ Zo	ne II/III	Medium Criticality/Risk		
		□ Zo	ne IV	High Criticality/Risk		
2.11.3 Procurement an	2.11.3 Procurement and Staffing Strategy					
Activity						
Solicitation Development						
Responsible (check all that apply)	Responsible When Needed		Cost Estimate Verification (check all that apply)			
□ Agency/state entity			☐ Market research conducted (MR)			
staff	Development		☐ Cost estimate provided (CE)			
⊠ STP staff	☐ Stage 4 Project					
☐ CDT Project Approvals	Readiness and		□ DGS CE			
and Oversight staff	Approval		☐ Request for Information (RFI) conducted			
☐ CA-PMO staff	☐ After project is		⊠ Com	parable vendor services have	been used on previous	
☐ DGS staff	approved (afte	_	cont	racts (CV)		
□ Contractor	Project Reading	ess and	⊠ Leve	eraged Procurement Agreeme	nt (LPA)	
☐ Other, specify:	Approval)					
Complete Only if Contract	ctor Responsible for A	ctivity				
Procurement Vehicle	Request for Offer/Ca Award Schedules (RF		ultiple	Contract Type	Fixed Price (FP)	
If "Other," specify:				If "Other," specify:		



Project Oversight	Project Oversight						
Responsible (check all that apply)	When Needed (check all that apply)		Cost Estimate Verification (check all that apply)				
☑ Agency/state entity	Stage 3 Solution	☐ Mar	☐ Market research conducted (MR)				
staff	Development	☐ Cost	☐ Cost estimate provided (CE)				
☐ STP staff		\boxtimes CDT	CE				
□ CDT Project Approvals	Readiness and	☐ DGS	S CE				
and Oversight staff	Approval	☐ Req	uest for Information (RFI) cond	lucted			
☐ CA-PMO staff	✓ After project is		nparable vendor services have	been used on previous			
☐ DGS staff	approved (after Stage 4		tracts (CV)				
☐ Contractor	Project Readiness and Approval)	☐ Leve	Leveraged Procurement Agreement (LPA)				
☐ Other, specify:	Approvary						
Complete Only if Contractor Responsible for Activity							
Procurement Vehicle	None		Contract Type	Time and Materials (T&M)			
If "Other," specify:	Click here to enter text.	If "Other," specify:		Click here to enter text.			
Independent Verification and Validation (IV&V)							
			Cost Estimate				
Posnonsible	When Needed						
Responsible (check all that apply)	When Needed (check all that apply)		Verification				
Responsible (check all that apply) Agency/state entity	When Needed (check all that apply) ☐ Stage 3 Solution	☐ Mar					
(check all that apply)	(check all that apply)		Verification (check all that ap				
(check all that apply) ☐ Agency/state entity	(check all that apply) ☐ Stage 3 Solution		Verification (check all that ap rket research conducted (MR) t estimate provided (CE)				
(check all that apply) ☐ Agency/state entity staff	(check all that apply) ☐ Stage 3 Solution Development	⊠ Cost	Verification (check all that ap rket research conducted (MR) t estimate provided (CE)				
(check all that apply) ☐ Agency/state entity staff ☐ STP staff ☐ CDT Project Approvals and Oversight staff	(check all that apply) ☐ Stage 3 Solution Development ☐ Stage 4 Project Readiness and Approval	⊠ Cost □ CDT □ DGS	Verification (check all that ap rket research conducted (MR) t estimate provided (CE)	ply)			
(check all that apply) ☐ Agency/state entity staff ☐ STP staff ☐ CDT Project Approvals	(check all that apply) ☐ Stage 3 Solution Development ☐ Stage 4 Project Readiness and Approval ☐ After project is	☑ Cost☐ CDT☐ DGS☐ Req☑ Com	Verification (check all that ap rket research conducted (MR) t estimate provided (CE) CE	ply) lucted			
(check all that apply) ☐ Agency/state entity staff ☐ STP staff ☐ CDT Project Approvals and Oversight staff ☐ CA-PMO staff ☐ DGS staff	(check all that apply) ☐ Stage 3 Solution Development ☑ Stage 4 Project Readiness and Approval ☑ After project is approved (after Stage 4	⊠ Cost □ CDT □ DGS □ Req ⊠ Com	Verification (check all that aper ket research conducted (MR) to estimate provided (CE) CE CE CE Uest for Information (RFI) conducted (RFI) conducted (CV)	ply) lucted been used on previous			
(check all that apply) ☐ Agency/state entity staff ☐ STP staff ☐ CDT Project Approvals and Oversight staff ☐ CA-PMO staff ☐ DGS staff ☐ Contractor	(check all that apply) ☐ Stage 3 Solution Development ☐ Stage 4 Project Readiness and Approval ☐ After project is approved (after Stage 4 Project Readiness and	⊠ Cost □ CDT □ DGS □ Req ⊠ Com	Verification (check all that ap rket research conducted (MR) t estimate provided (CE) CE CE CE uest for Information (RFI) conducted	ply) lucted been used on previous			
(check all that apply) ☐ Agency/state entity staff ☐ STP staff ☐ CDT Project Approvals and Oversight staff ☐ CA-PMO staff ☐ DGS staff	(check all that apply) ☐ Stage 3 Solution Development ☑ Stage 4 Project Readiness and Approval ☑ After project is approved (after Stage 4	⊠ Cost □ CDT □ DGS □ Req ⊠ Com	Verification (check all that aper ket research conducted (MR) to estimate provided (CE) CE CE CE Uest for Information (RFI) conducted (RFI) conducted (CV)	ply) lucted been used on previous			
(check all that apply) ☐ Agency/state entity staff ☐ STP staff ☐ CDT Project Approvals and Oversight staff ☐ CA-PMO staff ☐ DGS staff ☐ Contractor ☐ Other, specify:	(check all that apply) ☐ Stage 3 Solution Development ☐ Stage 4 Project Readiness and Approval ☐ After project is approved (after Stage 4 Project Readiness and	⊠ Cost □ CDT □ DGS □ Req ⊠ Com	Verification (check all that aper ket research conducted (MR) to estimate provided (CE) CE CE CE Uest for Information (RFI) conducted (RFI) conducted (CV)	ply) lucted been used on previous			
(check all that apply) ☐ Agency/state entity staff ☐ STP staff ☐ CDT Project Approvals and Oversight staff ☐ CA-PMO staff ☐ DGS staff ☐ Contractor ☐ Other, specify:	(check all that apply) ☐ Stage 3 Solution Development ☐ Stage 4 Project Readiness and Approval ☐ After project is approved (after Stage 4 Project Readiness and Approval)	⊠ Cost □ CDT □ DGS □ Req ⊠ Com cont □ Leve	Verification (check all that aper ket research conducted (MR) to estimate provided (CE) CE CE CE Uest for Information (RFI) conducted (RFI) conducted (CV)	ply) lucted been used on previous			
(check all that apply) ☐ Agency/state entity staff ☐ STP staff ☐ CDT Project Approvals and Oversight staff ☐ CA-PMO staff ☐ DGS staff ☐ Contractor ☐ Other, specify: Complete Only if Contractor	(check all that apply) ☐ Stage 3 Solution Development ☐ Stage 4 Project Readiness and Approval ☐ After project is approved (after Stage 4 Project Readiness and Approval) tor Responsible for Activity Request for Offer/California N	⊠ Cost □ CDT □ DGS □ Req ⊠ Com cont □ Leve	Verification (check all that aported research conducted (MR)) t estimate provided (CE) CCE GCE uest for Information (RFI) conducted (CV) eraged Procurement Agreemen	ply) lucted been used on previous nt (LPA)			
(check all that apply) ☐ Agency/state entity staff ☐ STP staff ☐ CDT Project Approvals and Oversight staff ☐ CA-PMO staff ☐ DGS staff ☐ Contractor ☐ Other, specify: Complete Only if Contractor Procurement Vehicle	(check all that apply) ☐ Stage 3 Solution Development ☐ Stage 4 Project Readiness and Approval ☐ After project is approved (after Stage 4 Project Readiness and Approval) tor Responsible for Activity Request for Offer/California N Award Schedules (RFO/CMAS) Click here to enter text.	⊠ Cost □ CDT □ DGS □ Req ⊠ Com cont □ Leve	Verification (check all that aper let research conducted (MR)) t estimate provided (CE) CCE GCE uest for Information (RFI) conduparable vendor services have tracts (CV) eraged Procurement Agreement Contract Type If "Other," specify:	lucted been used on previous nt (LPA) Fixed Price (FP) Click here to enter text.			
(check all that apply) ☐ Agency/state entity staff ☐ STP staff ☐ CDT Project Approvals and Oversight staff ☐ CA-PMO staff ☐ DGS staff ☒ Contractor ☐ Other, specify: Complete Only if Contract Procurement Vehicle If "Other," specify:	(check all that apply) ☐ Stage 3 Solution Development ☐ Stage 4 Project Readiness and Approval ☐ After project is approved (after Stage 4 Project Readiness and Approval) tor Responsible for Activity Request for Offer/California N Award Schedules (RFO/CMAS) Click here to enter text.	⊠ Cost □ CDT □ DGS □ Req ⊠ Com cont □ Leve	Verification (check all that aperket research conducted (MR) t estimate provided (CE) CE CE uest for Information (RFI) conduparable vendor services have tracts (CV) eraged Procurement Agreemen	lucted been used on previous nt (LPA) Fixed Price (FP) Click here to enter text.			



□ Agency/state entity staff □ STP staff □ CDT Project Approvals and Oversight staff □ CA-PMO staff □ DGS staff □ Contractor □ Other, specify:	 Stage 3 Solution Development Stage 4 Project Readiness and Approval After project is approved (after Stage 4 Project Readiness and Approval) 	 ☐ Market research conducted (MR) ☒ Cost estimate provided (CE) ☐ CDT CE ☐ DGS CE ☐ Request for Information (RFI) conducted ☒ Comparable vendor services have been used on previous contracts (CV) ☐ Leveraged Procurement Agreement (LPA) 		
Procurement Vehicle	tor Responsible for Activity Request for Offer/Master Servi	ice	Contract Type	Fixed Price (FP)
	Agreement (RFO/MSA)		•	Click here to enter
If "Other," specify:	Click here to enter text.		If "Other," specify:	text.
Data Cleansing				
Responsible (check all that apply)	When Needed (check all that apply)		Cost Estimate Verification (check all that ap	
☐ Agency/state entity staff ☐ STP staff ☐ CDT Project Approvals and Oversight staff ☐ CA-PMO staff ☐ DGS staff ☑ Contractor ☐ Other, specify:	 ☑ Stage 3 Solution Development ☑ Stage 4 Project Readiness and Approval ☑ After project is approved (after Stage 4 Project Readiness and Approval) 	 □ Market research conducted (MR) ☑ Cost estimate provided (CE) □ CDT CE □ DGS CE □ Request for Information (RFI) conducted ☑ Comparable vendor services have been used on previous contracts (CV) □ Leveraged Procurement Agreement (LPA) 		
Complete Only if Contract	tor Responsible for Activity			
Procurement Vehicle	Request for Offer/Information Technology Consulting Services (ITMSA)	5	Contract Type	Fixed Price (FP)
If "Other," specify:	Click here to enter text.		If "Other," specify:	Click here to enter text.
Integration/Developmen	t			
Responsible (check all that apply)	When Needed (check all that apply)		Cost Estimate Verification (check all that ap	
 □ Agency/state entity staff □ STP staff □ CDT Project Approvals and Oversight staff □ CA-PMO staff □ DGS staff ⋈ Contractor □ Other, specify: 	ency/state entity Iff Development P staff Development Developmen		been used on previous	



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Complete Only if Contractor Responsible for Activity						
Procurement Vehicle	Formal Solicitation (IFB/ RFP) Contract Type Fixed			d Price (FP)		
If "Other," specify: Click here to enter text. If "Other," specify: Click here to enter text.					nter	
Select + to add activities.						
				Yes	No	
Will any of the activities identified above result in a competitive or non-competitive solicitation that will be over the Agency/state entity's DGS delegated purchasing authority?						
2 11 4 Enternrise Architecture Alignment						

This proposed solution focuses on extending and enhancing the information and technology foundation already in place at CalEPA Agency while also delivering new solutions to meet the ever increasing demands of the Agency business needs and the changing technology landscape. We view technology as an enabler to empower the Agency to realize its vision, mission, and strategic priorities. With the implementation of new solutions is in keeping with a Service Oriented Architecture (SOA), enables Agency entities to close to achieving target enterprise architecture. Utilizing SaaS/PaaS cloud data platform provides the ability to move applications between clouds to optimize processing and analytics while significantly reducing costs. Also improves the ability to adapt to changing requirements.

Proposed enterprise architecture capabilities, improves security, scalability, resilience and promotes more efficient platform utilization. Performance and scalability are improved by minimizing interdependencies. Promotes the accuracy and consistency of data and the efficiency of data management processes.

Information Technology Capability Table						
Information Technology Capability	Existing Enterprise Capability to be Leveraged	New Enterprise Capability Needed				
Public or Internal Portal/Website		\boxtimes				
Public or Internal Mobile Application		\boxtimes				
Enterprise Service Bus		\boxtimes				
Identity and Access Management		\boxtimes				
Enterprise Content Management (including document scanning and eForms capabilities)		\boxtimes				
Business Intelligence and Data Warehousing		\boxtimes				
Master Data Management		\boxtimes				
Big Data Analytics						



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2.11.5 Project Phases						
Phase	Planning					
	Description			Phase I	Deliveral	ole
PAL stages	2-4.		Vendo	r solicitation documer	nts	
				evel and Detailed Solu	tion Requ	uirements
				ted contracts		
Phase	Implementation		Appro	ved PAL documentation	on	
Tilasc	Description			Dhace I	Deliveral	nla
Prime vend	lor development of the sol	ution	Solutio	on (CERS NextGen)	Denvera	ЛС
Phase	Stabilization			,		
	Description			Phase I	Deliveral	ole
On year ad	option period after go-live		Post Ir	nplementation Evalua	tion Repo	ort (PIER)
Select + to	add project phases.					
2.11.6 Hig	h Level Proposed Projec					
	Project Planning Start	1/14/2020		Proposed Project Plan	ning 6,	/30/2023
Date:	Project Start Date:	7/7/2023		ind Date:	1	/9/2026
Proposed F	Project Start Date:	////2023		Proposed Project End Date:	1/	19/2026
Activity Na	me				Start Da	ite End Date
Stage 3 Soluti	on Development				2/1/202	21 1/1/2023
Solicitation De	evelopment			7/1/2021 11/30/20		
Stage 4 Projec	ct Readiness and Approval				1/2/202	23 6/30/2023
Pre-soliciation	n for Industry Comments				7/1/202	9/8/2022
Solicitation Re	elease				1/9/202	23 2/17/2023
Solicitation No	egotiations				4/17/20	23 5/5/2020
Solicitation Av	ward				6/9/202	23 7/1/2023
Requirements	S				2/1/202	21 12/30/2021
Implementati	on				7/1/202	23 6/30/2025
Go Live					7/1/202	25 6/30/2026
Maintenance	and Operations				6/30/20	26
Select + to	add activities					
2.11.7 Cost Summary						
	To	tal Proposed Planning	g Cost:	\$6,320,927		
	Total Proposed Project Cost:					
Total Proposed Future Operations IT Staff & OE&E Cost (Continuing)				\$4,751,611		
Tota	al Proposed Annual Future	Operations IT Costs (M&O):	\$2,375,806		
2.12 Staf	ffing Plan					
	ministrative					

2.12.1 Administrative

See Resource Management Plan

2.12.2 Business Program



California Department of Technology, SIMM 19B (Rev. 2.1), Revision 5/21/2018

See Resource Management Plan

2.12.3 Information Technology (IT)

See Resource Management Plan

2.12.4 Testing

See Resource Management Plan

2.12.5 Data Conversion/Migration

See Resource Management Plan

2.12.6 Training and Organizational Change Management

See Resource Management Plan

2.12.7 Resource Capacity/Skills/Knowledge for Stage 3 Solution Development

See Resource Management Plan

2.12.8 Project Management

2.12.8.1 Project Management Risk Assessment

Project Management Risk Score: 1.5
Attachment: Attach file to email submission.

2.12.8.2 Project Management Planning

Are the following project management plans or project artifacts complete, approved by the designated Agency/state entity authority, and available for Department of Technology review?

Project Charter	Yes	In Progress
Scope Management Plan	No	
Risk Management Plan	Yes	Approved
Issue and Action Item Management Plan	Yes	Approved
Communication Management Plan	Yes	Approved
Schedule Management Plan	No	
Human Resource Management Plan	Yes	Approved
Staff Management Plan	Not Applicable	See Resource Management Plan
Stakeholder Management Plan	Not Applicable	See Resource and Communication Management Plan
Governance Plan	Yes	Approved

2.12.9 Organization Charts

Attachment: Attach file to email submission.

2.13 Data Conversion/Migration

Identify the status of each of the following data conversion/migration activities:

Data Conversion/Migration Planning	Not Started	Data Quality Assessment	In Progress
Data Conversion/Migration Requirements	Not Started	Data Quality Business Rules	In Progress
Current Environment Analysis	Completed	Data Dictionaries	Completed
Data Profiling	In Progress	Data Cleansing and Correction	In Progress

Attachment: Attach files to email submission.

2.14 Financial Analysis Worksheets



Attachment: Attach file to email submission.		
Preliminary Assessment – Department of Technology Use Only		
Original "New Submission" Date	12/31/2020	
Form Received Date	12/31/2020	
Form Accepted Date	12/31/2020	
Form Status	Complete	
Form Status Date	4/1/2021	
Main Form – Department of Technology Use Only		
Original "New Submission" Date	12/31/2020	
Form Received Date	12/31/2020	
Form Accepted Date	12/31/2020	
Form Status	Complete	
Form Status Date	4/1/2021	
Form Disposition	Approved	
Form Disposition Date	4/1/2021	