

1. MINIMUM QUALIFICATIONS	YES	NO
The Proposer must have participated in at least one project involving characterizing non-exhaust emissions similar measurements demonstrating their ability to perform the proposed measurements		
The Proposer must have participated in at least one sampling campaign using real-time PM _{2.5} and PM ₁₀ mass measurement, real-time PM size distribution measurement, real-time PN measurement, PM _{2.5} and PM ₁₀ gravimetric filter samples, real-time gaseous emission measurement, as listed in the Scope of Work, or similar instruments, demonstrating their ability to perform the proposed measurements.		
The Proposer must demonstrate the ability to identify California representative trains and railways or equivalent to as testing subjects and routes as required in the Scope of Work.		
The Proposer must have published research findings from at least one previous study in reputable peer-reviewed journals.		
<i>If minimum qualifications are NOT met, STOP HERE.</i>		
<i>Scoring Items</i>		
2. TECHNICAL EXPERIENCE AND APPROACH*	Points Available 30*	Points Awarded
Proposer describes relevant experience and breadth of knowledge in performing the tasks described in the Scope of Work and how skills developed in previous related work will be applied to this study. Proposer identifies specific techniques, instruments, software, numerical analysis tools, and other notable/unique expertise to be employed in performing data collection, processing, and analysis. Proposer provides a detailed description of the overall approach and methodology that would be utilized to accomplish the tasks listed in the Scope of Work. Proposer provides a concise work plan and schedule detailing how they aim to accomplish each task, the responsible party for performing the task, and the anticipated date of completion. Proposer demonstrates their understanding of CARB program needs and policies that are directly related to this research work.		
3. WORK PLAN AND APPROACH**	Points Available	Points Awarded

	25**	
Proposer outlines their methodologies and strategies for acquiring essential information and data concerning representative train activities in California. Proposer demonstrates their ability to build and sustain successful relationships with freight train, passenger train, and railyard operators in California, in measuring locomotive emissions, collecting train emissions and activity data, characterizing train duty cycles, and relevant to the tasks described in the scope of work; letters of support to this work from train and railyard operators are highly recommended. Proposer demonstrates building a project team with expertise in collaborating/communicating with train and railyard operators, testing and characterizing train operations either on rail in-use conditions or at laboratory setup, and analyzing engine and train operations using advanced numerical analysis tools. Proposer describes approaches to communicating effectively with CARB project management team, among project team members, and train and railyard operation and data acquisition collaborators.		
4. PROJECT MANAGEMENT PLAN	Points Available 5	Points Awarded
Proposer provides a clear management structure and project organization. Proposer includes methods to measure proposed progress against the plan and within the project schedule.		
5. QUALITY ASSURANCE/QUALITY CONTROL PLAN	Points Available 10	Points Awarded
Proposer describes quality assurance/quality control plan (QA/QC) and describes their ability to provide sound results. Proposer demonstrates their experience performing QA/QC activities and demonstrates a record of assuring data quality and delivering quality-assured data.		
6. COST	Points Available 30	Points Awarded
This criterion allows staff to evaluate and compare the budgets of each proposal relative to those of its competitors. The technically qualified proposal that has the		

lowest cost will be given a maximum score of 30 for this criterion.		
TOTAL POINTS	Maximum Available 100	SCORE

A proposal must have a total score of at least 85 points to be qualified for consideration for this contract.

* Proposals receiving less than 25 points for this criterion will not qualify for further consideration.

** Proposals receiving less than 20 points for this criterion will not qualify for further consideration.