ITEM OPPORTUNITY SYNOPSIS

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Scouting Number:	2024-180
Name of the item to be scouted:	Doping Services for Silicon Wafers
State item to be used in:	Massachusetts
Describe the Item:	
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Please describe the item application/the end use of the item.	We are looking for doping services for silicon wafers. The wafers will have SiN and SiO2 on them. We are interested in either implant or diffusion (either solid source or POCl3). If implant, we also need the drive in to be done. We only need phosphorous. We are not interested in academic labs since we want to only use a clean furnace. We prefer 3-inch round wafers, and 2-inch round is OK. Larger wafers are doable, but will require us to make changes to the rest of the process. Since our order is small, we can't go to a TSMC for example. We can supply the wafers or they can be made by vendor.
Supplier Information:	
Type of Supplier Being Sought (select from the list below):	
Manufacturer	x
Contract Manufacturer	
Distributor	
Other (Please Specify)	
Reason for Scouting Submission (select from the list below)	
2nd Supplier	
Price	
Re-Shore .	
Past supplier no longer available	
New Product Startup	х
BABA	
Other (Please Specify)	
Summary of Technical Specifications and Performance Requirements:	
Describe the manufacturing processes (elaborate to provide as much detail as possible)	We will have patterned the silicon before the doping process. So, the wafers will have seen Plasma-enhanced chemical vapor deposition (PECVD) SiN deposition, photo, a dry etch, and PECVD oxide deposition on the backside (if diffusion is being used).
Provide dimensions / size / tolerances / performance specifications of the item	We are looking for a repeatable and clean process.
List required materials needed to make the product, including materials of product components, if applicable	See description above.
Are there applicable certification requirements?	
Yes	
No	X
Please explain:	
Are there any applicable regulations that apply to the production of this item?	
Yes	
No	X
Please explain:	
Are there any other standards / requirements?	
Yes	
No	X
Please explain:	
NAICS CODES:	
NAICS 1	334413 Semiconductor and related device manufacturing
NAICS 2	
Additional Comments:	
Additional technical comments:	
Volume and Pricing:	
Estimated Potential Business Volume (i.e. #units per day, month, year):	Approximately 10 wavers/lot, and a lot every 3 weeks.
Estimated Target Price/Unit Cost Information:	TBD

Delivery Requirements:		
When is it needed by? (Immediate, 30 days, 6 months, etc.)	As soon as possible	
Describe packaging requirements (i.e. individually/group packaging, etc.)	Just to prevent breaking the wafers	
Where will this item be shipped?	Lowell, MA	
Additional Comments:		
Is there other information you would like to include?		