CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services *Directorate* (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a *collection* of information if it does not display a currently valid OMB control number. **Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.**

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY:
A002	A	TDP _____ TM _____ OTHER X-GINT

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
BIG-ST BAA	HM0476-23-BAA-0001	

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A002	LASER Technical Reports	All project technical reports	

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE
Block 16	LASER Topic Call section 3 & 4	NGA-q	

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
NO	D, See Block 16	Block 16	Block 16

8. APP CODE	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION
A	N/A	Block 16

16. REMARKS

(A002) All Reports:

Block 4: Plan shall be delivered in Microsoft Office for Government use and modification without containing any intellectual property.

Block 9: Distribution Statement Required: Distribution C (U.S. Government and their contractors) / CUI

Block 14: Distribution: Electronic submission via email to Contracting Officer Representative (COR) and Technical Manager (TM)/Program Manager (PM)

(A012) Final Reports:

Block 8: App Code: A (Government Approval Required)"

Block 10: Frequency: 1/R (One time per Phase)

Block 12: Date of First Submission: No Later Than (NLT) the final week of the Period of Performance (PoP) for Phase 1

Bock 13: Date of Subsequent Submission: No Later Than (NLT) the final week of the Period of Performance (PoP) for Phase 2

Additional Remarks: The Final Technical Report must be submitted prior to the conclusion of each phase and must encompass the entire project lifecycle. In accordance with Topic Call requirements, the report must contain: 1) Lessons learned and best practices for collecting and refining reference data; 2) A comprehensive comparative analysis between ground truth and satellite data; 3) A specific assessment of ICESat-2 data usability for submerged objects; 4) A specific assessment of ICESat-2 & GEDI usability for surface objects; 5) Detailed results of AI/ML autonomous lidar object detection; and 6) Validation of achieving detection accuracy within ±1 meter for underwater targets and cm-scale for above-ground targets.

(A022) Prototype AI/ML Report

Block 12: Demonstration NLT 30 days before end of Phase 2.

Block 13: As needed or required after submission of first Plan.

Additional Remarks: The Offeror must develop/deliver object detection algorithms using NGA approved platforms and AI/ ML techniques along with supporting documentation. The objective is to have automatic detection of manmade objects from ICESat-2 and GEDI

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES Draft	Final Reg	Final Repro
PM		1	
COR		1	
15. TOTAL	0	0	0

CONTRACT DATA REQUIREMENTS LIST *(1 Data Item)*			
A. CONTRACT LINE ITEM NO. A002	**B. EXHIBIT** A	**C. CATEGORY:** TDP _____ TM _____ OTHER X-GINT	
D. SYSTEM/ITEM BIG-ST BAA	**E. CONTRACT/PR NO.** HM0476-23-BAA-0001	**F. CONTRACTOR**	

16. REMARKS *(Continued)*

(A032) AI/ML Detection Report:
Block 12: NLT 30 days after completion of Intercomparison tests.
Block 13: As needed or required after submission of first Report.

Additional Remarks: The Report shall identify algorithms used for co-location and error estimates for object elevation. Provide details and description of implementing an algorithm in Python or MATLAB.
The Offeror must provide an intercomparison data assessment of space lidar to ground truth data for both underwater and surface target collects. The goal is to achieve ±1 m elevation (z) agreement. Intercomparison of satellite to ground truth assessment must include 3D information, latitude, longitude and elevation (X, Y, Z).

The report shall also address:
1)Activities performed and resources used during the Intercomparison Test.
2) Challenges
3) Roles and responsibilities for each transfer activity.
4)Schedules and milestones for conducting transfer activities.
5) Tracking, documenting, and mitigating transfer issues.

(A042) Field Test Collection and Report:
Block 12: NLT 2 weeks after completion of field test.
Block 13: As needed or requested by the government after submission of first Report.

Additional Remarks: Coordinate with the government on delivery of the field test data.

Report shall address:
1) Activities performed during the field test
2) Data collected during field test, description of results, initial evaluation.
3) Weather condition and other environmental condition impacting test efforts.
4) Details of coordination effort during field test.
5) Resources needed, used, to carry out test activities.

Schedules and milestones for conducting field test activities.

(A052) Bi-Weekly Report:
Block 12: 2 weeks after start of phase.
Block 13: Bi-weekly thereafter.

Additional Remarks: Information status report to Technical Manager. Format determined by Offeror and NGA after award. Acceptable options will be written email, phone call or informal video/audio conference calls.

(A062) Data Intercomparison Report:
Block 12: NLT 30 days after completion of Intercomparison tests.
Block 13: As needed or required after submission of first Report.
Block 14: Deliver through email, DOD SAFE, or any other method as agreed by the NGA PM Office and the Technical Manager.

Additional Remarks: The Report shall identify algorithms used for co-location and error estimates for object elevation. Provide details and description of implementing an algorithm in Python or MATLAB.
The Offeror must provide an intercomparison data assessment of space lidar to ground truth data for both underwater and surface target collects. The goal is to achieve ±1 m elevation (z) agreement. Intercomparison of satellite to ground truth assessment must include 3D information, latitude, longitude and elevation (X, Y, Z).

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The report shall also address:
1)Activities performed and resources used during the Intercomparison Test.
2) Challenges
3) Roles and responsibilities for each transfer activity.
4)Schedules and milestones for conducting transfer activities.
5) Tracking, documenting, and mitigating transfer issues.

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INSTRUCTIONS FOR COMPLETING DD FORM 1423

(See DoD 5010.12-M for detailed instructions.)

FOR GOVERNMENT PERSONNEL

Item A. Self-explanatory.

Item B. Self-explanatory.

Item C. Mark (X) appropriate category: TDP - Technical Data Package; TM - Technical Manual; Other - other category of data, such as "Provisioning,""Configuration Management," etc.

Item D. Enter name of system/item being acquired that data will support.

Item E. Self-explanatory (to be filled in after contract award).

Item F. Self-explanatory (to be filled in after contract award).

Item G. Signature of preparer of CDRL.

Item H. Date CDRL was prepared.

Item I. Signature of CDRL approval authority.

Item J. Date CDRL was approved.

Item 1. See DoD FAR Supplement Subpart 4.71 for proper numbering.

Item 2. Enter title as it appears on data acquisition document cited in Item 4.

Item 3. Enter subtitle of data item for further definition of data item (optional entry).

Item 4. Enter Data Item Description (DID) number, military specification number, or military standard number listed in DoD 5010.12-L (AMSDL), or one-time DID number, that defines data content and format requirements.

Item 5. Enter reference to tasking in contract that generates requirement for the data item (e.g., Statement of Work paragraph number).

Item 6. Enter technical office responsible for ensuring adequacy of the data item.

Item 7. Specify requirement for inspection/acceptance of the data item by the Government.

Item 8. Specify requirement for approval of a draft before preparation of the final data item.

Item 9. For technical data, specify requirement for contractor to mark the appropriate distribution statement on the data (ref. DoDD 5230.24).

Item 10. Specify number of times data items are to be delivered.

Item 11. Specify as-of date of data item, when applicable.

Item 12. Specify when first submittal is required.

Item 13. Specify when subsequent submittals are required, when applicable.

FOR THE CONTRACTOR

Item 17. Specify appropriate price group from one of the following groups of effort in developing estimated prices for each data item listed on the DD Form 1423.

a. Group I. Definition - Data which is not otherwise essential to the contractor's performance of the primary contracted effort (production, development, testing, and administration) but which is required by DD Form 1423.

Estimated Price - Costs to be included under Group I are those applicable to preparing and assembling the data item in conformance with Government requirements, and the administration and other expenses related to reproducing and delivering such data items to the Government.

b. Group II. Definition - Data which is essential to the performance of the primary contracted effort but the contractor is required to perform additional work to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, or quality of the data item.

Estimated Price - Costs to be included under Group II are those incurred over and above the cost of the essential data item without conforming to Government requirements, and the administrative and other expenses related to reproducing and delivering such data item to the Government.

c. Group III. Definition - Data which the contractor must develop for his internal use in performance of the primary contracted effort and does not require any substantial change to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, and quality of the data item.

Estimated Price - Costs to be included under Group III are the administrative and other expenses related to reproducing and delivering such data item to the Government.

d. Group IV. Definition - Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying these data to the Government is minimal.

Estimated Price - Group IV items should normally be shown on the DD Form 1423 at no cost.

Item 14. Enter addressees and number of draft/final copies to be delivered to each addressee. Explain reproducible copies in Item 16. **Item 15.** Enter total number of draft/final copies to be delivered. **Item 16.** Use for additional/clarifying information for Items 1 through 15. Examples are: Tailoring of documents cited in Item 4; Clarification of submittal dates in Items 12 and 13; Explanation of reproducible copies in Item 14.; Desired medium for delivery of the data item.	**Item 18.** For each data item, enter an amount equal to that portion of the total price which is estimated to be attributable to the production or development for the Government of that item of data. These estimated data prices shall be developed only from those costs which will be incurred as a direct result of the requirement to supply the data, over and above those costs which would otherwise be incurred in performance of the contract if no data were required. The estimated data prices shall not include any amount for rights in data. The Government's right to use the data shall be governed by the pertinent provisions of the contract.

DD FORM 1423-1 (BACK), FEB 2001