

CIN: U75112AS1965SGC001246

No. 322632/54

Date: 31.10.2023

#### SHORT NOTICE INVITING TENDER (SNIT)

Sealed tender for the work of "Aerial Topography Survey using Drone Based Technology (LiDAR) at Industrial Estate, Nagarbera, Dist: Kamrup, Assam" is hereby invited from experienced Surveyors. Bid documents can be downloaded from AIDC's website www.aidcltd.com from 17:00 Hours on 01.11.2023 up to 14:00 Hours on 08.11.2023. For detail information, bidders are advised to visit the website. Corrigendum, if any, will be published in the said website only.

-Sd/-Managing Director





# ASSAM INDUSTRIAL DEVELOPMENT CORPORATION LIMITED (A Government of Assam Undertaking)

R.G.Baruah Road, Guwahati-781 024 Ph. : 0361-2201215, 2202216, Fax : 0361-2200060

# TENDER DOUCUMENT FOR THE WORK OF AERIAL TOPOGRAPHY SURVEY USING DRONE BASED TECHNOLOGY AT INDUSTRIAL ESTATE, NAGARBERA, DIST: KAMRUP, ASSAM

# October 2023



# ASSAM INDUSTRIAL DEVELOPMENT CORPORATION LIMITED (A Government of Assam Undertaking) R.G.Baruah Road, Guwahati-781 024 Ph. : 0361-2201215, 2202216, Fax : 0361-2200060

#### CIN: U75112AS1965SGC001246

ECF No. 322632/56

Date: 31.10.2023

#### **SHORT NOTICE FOR TENDER**

Sealed tender for the following work under AIDC Ltd. is hereby invited from experienced Surveyors with financially sound background as detailed below: -

SI No.	Details of Work	Tender Fee and Earnest money to be deposited in the form of Demand draft in favour of "Assam Industrial Development Corporation Ltd" and payable at Guwahati	Completion time
1	Aerial Topography Survey Using Drone Based Technology (LiDAR) at Industrial Estate, Nagarbera, Dist: Kamrup, Assam	Tender Fee: Rs. 500/- (Rupees Five hundred only) which is non- refundable EMD: Rs. 15,000/- for General Category and Rs. 7,500/- for SC/ST OBC Category	1 (one) week

The BOQ with specifications for the work can be downloaded from **AIDC's web site** <u>www.aidcltd.com</u> on **01.11.2023** The sealed tender will be received up to **2.00 PM (IST)** on **08.11.2023** in the office of the AIDC Ltd., R.G Baruah Road, Guwhati-781024 and will be opened on the same day in presence of interested bidders or their authorised representatives at **3.00 PM (IST)**. In the event of the office remaining closed under unavoidable circumstances, the tender will be received on next working day up to the stipulated time.

The Managing Director, Assam Industrial Development Corporation Ltd. reserves the right to reject any or all the tenders without assigning any reason thereof. Corrigendum, if any, will be published in the website only.



### ASSAM INDUSTRIAL DEVELOPMENT CORPORATION LIMITED (A GOVT. OF ASSAM UNDERTAKING) R.G. BARUAH ROAD, GUWAHATI- 24

**Tender Document for the Work of** Aerial Topography Survey Using Drone Based Technology at Industrial Estate, Nagarbera, Dist: Kamrup, Assam

	Name of Work	Aerial Topography Survey Using Drone Based		
1.		Technology at Industrial Estate, Nagarbera, Dist:		
		Kamrup, Assam		
2.	Tender Notice No	322632/56 Dated 31.10.2023		
2	Earnest Money Deposit	Rs. 15,000.00 for General Category		
5.		Rs. 7,500.00 for SC/ST/& OBC Category.		
4.	Validity Period of Tender	90 (ninety) days.		
5.	Time of Completion	1 (one) week		
6	Cost of Tender	Rs. 500.00 (Rupees Five hundred) only non-		
0.	Document	refundable.		
7	Money Receipt/ DD No			
/.	for Cost of Tender paper			
8	Date of Sale of Tender	01 11 2023 to 14 00 hours on 08 11 2023		
0.	Document	01.11.2025 to 14.00 hours on 08.11.2025		
9	Date of Receiving of	14.00 hours on 08.11.2023		
	Hard copy of Tender	11.00 hours on 00.11.2023		
10	Date of Opening of	15.00 hours on 08.11.2023		
10.	Tender	13.00 hours on 00.11.2023		
	Minimum Requirements	1. The Bidder must have experience of		
		executing similar survey works for a		
12.		Government organization as follows:		
		i) one similar drone based survey work of		
		land measuring 3440 bighas or		



			ii) two similar drone based survey works of
			land measuring 2150 bighas or
			iii) three similar drone based survey works of
			land measuring 1,720 bighas
			by using drone based technology in the last 5
			years ending March 2023.
		2.	The Drone operator should possess Remote
			Pilot Certificate (RPC) issued from
			Directorate of Civil Aviation, GoI
	Documents to be submitted 3.	1.	Experience certificate of similar work form a
			Government organization
		2.	Remote Pilot Certificate (RPC) issued from
13.			Directorate of Civil Aviation, GoI
		3.	GST Registration
		4.	Employment details of experienced technical
			personnel

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## FORM OF TENDER

To,

The Managing Director Assam Industrial Development Corporation Ltd. R.G. Baruah Road Guwahati- 781024, Assam

Sub: Tender for Work of Aerial Topography Survey Using Drone Based Technology At Industrial Estate, Nagarbera, Dist: Kamrup, Assam

Dear Sir,

I/we refer to the Tender Notice issued for the Work of Aerial Topography Survey Using Drone Based Technology at Industrial Estate, Nagarbera, Dist: Kamrup, Assam.

- 1. I/we do hereby offer to perform, provide, execute, complete and maintain the work in conformity with drawings, conditions of contract, specifications, schedule of quantities embodied in the Tender Document.
- 2. I/we have satisfied myself/ourselves as to the site conditions, examined the drawings and all aspects of the tender conditions. Subject to above, I/we do hereby agree, should this tender be accepted in whole or in part, to:
  - a. Abide by and fulfill all the terms and provisions of the said conditions annexed here to.
  - b. Complete the work within 1 one (week).
- 3. I/we have deposited Earnest Money of Rs 15,000.0/7,500.00 in the form of Demand Draft which, I/We note, it will not bear any interest and is subject to forfeiture if:
  - a. The agreement of the contract is not executed within 10 (Ten) days from the award of contract.
  - b. The work is not commenced by me/us at site within 3 (three) days from the date of handing over the site by the Engineer in- charge or his authorized representative.

#### Or

- c. The offer is withdrawn within the validity period of acceptance.
- 4. I/we understand that you are not bound to accept the lowest or any tender you receive.



5. The acceptance of this tender shall constitute a binding contract and any failure as mentioned in item 4 above shall constitute a breach of contract by us and the tender accepting authority shall be entitled to have the work executed at our risk and cost and to claim extra cost/ expenditure incurred by them from us.

6. Name of partners/ directors of our firm:

- a) -----
- b) -----
- c) -----

Yours faithfully

Name	 	 

Designation \_\_\_\_\_

Name of Partner/ Director of the diem

Authority to sign or name of person having

Power of attorney to sign the contract.

(Certified true copy of Power of attorney should be attached)

Signature and address of witnesses: a.

a.	Signature
	Name
	Address
b.	Signature
	Name
	Address



# GENERAL RULES AND INSTRUCTION FOR THE GUIDANCE OF TENDERER

# ASSAM INDUSTRIAL DEVELOPMENT CORPORATION LIMITED.



#### GENERAL RULES AND INSTRACTIONS FOR THE GUIDANCE OF TENDERER

These general rules and instructions for the guidance of the tenderer shall be read with in conjunction with the General Directions and Conditions of Contract which will form the integral part of the contract for all successful tenderer. All the terms and conditions laid down in both shall be binding for all purpose.

- 1. Tenders only in printed forms issued by the Managing Director, Assam Industrial Development Corporation Ltd. shall be submitted at the office of the Managing Director, Assam Industrial Development Corporation Ltd. R.G. Baruah Road, Guwahati -781024, with the name of the work and project written on the top of the envelopes.
- 2. Tenderer is advised in his own interest to satisfy him about the project site including inspection at site prior to submission of his tender. He shall be deemed to have full knowledge of all the accompanying tender documents, technical specifications and site conditions. The expenses incurred in getting information through tests/site visits shall not be reimbursed in any cases:
  - a) Site conditions including access to the site, existing and required roads and other means of transport/communication (other than that of the Employer/other Agencies) for use by him in connection with the work.
  - b) Requirement and availability of land and other facilities for his enabling works, facility, stores and workshops, steel yard etc.
  - c) Ground condition including those bearing upon transportation, disposal, handling and storage of materials required for the work or obtained there from.
  - d) Source and extent of availability of suitable materials including water etc. and labour (skilled and unskilled), required for work and Laws and Regulation governing their use and employment.
  - e) Geological, meteorological, topographical and other general features including levels of the site and its surroundings as are pertaining to and needed for the performance of the work.
  - f) The limit and extent of surface and sub-surface water to be encountered during the performance of the work and the requirement of drainage and pumping.
  - g) The type of equipment and facilities needed, preliminary to, for and in the performance of the work.
  - h) All other information pertaining to and needed for the work including information as to the risks, contingencies and other circumstances which may influence or affect the work or the cost thereof under this contract.



- 3. The contractor will provide all the safety measures/ arrangement for the labours/workers at site. If any accident happens during the construction activity, the contractor shall fully/ solely responsible for the same
- 4. The security of the materials, equipment etc. stored at the site shall be the responsibility of the contractor. AIDC will not be responsible for any theft/shortfall of materials kept at the site.
- 5. The tender shall be in prescribed from and complete with all the details/ Annexure as required for competitive biddings for award of contract works
- 6. No tender will be received after expiry date the due date and times as indicated in the NIT under any circumstances whatsoever. No telegraphic/telephonic/fax tenders shall be considered. However, any amendment sent by the telegraph/ fax to the tender already submitted shall be considered, provided it is received before due date and time for opening of the tender in writing by post.
- 7. Earnest Money as indicated in the Tender Documents shall be deposited in the form of Crossed Demand Draft/Bankers Cheque payable at Guwahati favouring "Assam Industrial Development Corporation Ltd". Earnest Money must be submitted in separate enveloped marked "Earnest Money"

Any tender, which is not accompanied by EMD in the prescribed manner, will be summarily rejected. EMD of unsuccessful tenders shall be returned without interest within 100 clear days from the date of opening of the tenders.

- 8. The duly completed tender must be supported by self attested copies of Permanent Account Number (PAN), valid labour license, valid GST registration and work experience.
- 9. Prices should be inclusive of all taxes, duties, octroi, and any other charges or fees leviable by the local authority, on materials in respect of this contract and nothing extra will be payable for increase in such taxes of duties even if imposed or levied either before or after tenders are opened or during the currency of contract, over and above the tendered/ accepted price.
- 10. Entire work is to be completed within the stipulated time given in the work order. The completion time shall be strictly observed by the contractor and shall be reckoned from the date on which the order to commence work is given to the contractor
- 11. Taxes, Duties, Levies etc. shall be deducted at source as per statutory norms of the Government. Additional 1% (one percent) Labour CESS on bill value shall be deducted if applicable.
- 12. The bill of Quantities in tender documents comprise of construction of work mentioned in the work order/SNIT only.



- 13. The employer reserved the right to reject/negotiate all or any of the tenders and to accept in whole or part of the tenders without assigning any reason for so doing. The successful tenderer will be required to sign an agreement in the form approved by the employer, for the fulfillment of contract.
- 14. The tender shall remain valid for a period of 90 days from the date of opening of tender. In event of the tender withdrawing his offer within the validity period, for any reason what soever, Earnest Money deposited with the tender shall be forfeited to the employer.
- 15. No two or more concerns, in which an individual is interested as a proprietor/partner/director shall tender for the execution of the same work. If they do so, all such tenders shall be liable to be rejected.
- 16. The quantities indicated in the Bill of Quantities of the items are only approximate and are liable to vary to any extent and items even totally be omitted. The contractor shall not have any claim on his account and the contractor's quoted rates shall not be altered on account of any of these variations nor will it vitiate the contract in any way.
- 17. Compensation for non-commencement or delay on completion of work- time shall be regarded as the essence of contract and the failure on the part of the contractor to complete the contact on the dates stipulated in the tender and work orders for the completion of the respective works shall entitle to recover damages from the contractor by way of mutually agreed damages a sum equivalent to one half of one percent (subject to a maximum of ten percent) of the contractor is in default. The Engineer may however, at his discretion, allow the contractor such extension of time as he may decide (whose decision in writing shall be final and binding). The work shall, within the stipulated period of the contract, be proceeded with by the contractor with due diligence to ensure good progress during the execution of the work.
- 18. Conditional and/ or incomplete tenders are liable to be rejected
- 19. Whatever may be the conditions of the tender specified or indicated in the Contractor's office, it is only the conditions indicated in the "Tender Documents" unless modifications are agreed to before the order is placed that will be binding upon the contractor and the employer.
- 20. The contractor shall make his own arrangements for electrical for running vibrators, mixers, general lighting, welding etc.
- 21. The contractor shall make his own arrangement to meet his water demand for construction, curing etc. No extra payment shall be made for arranging water from outside.
- 22. The contractor shall take insurance for the works, materials and equipments for temporarily and permanent works for a total value of 50% of the amount of the contract awarded to him, for a period of one year or till the completion of work if required.



- 23. The employer shall not provide any forms for availing rebate in duties and taxes etc. The bidder shall quote with full taxes and duties as per applicable. The price escalation will not be allowed on any account.
- 24. The contractor shall comply with all bye-laws and regulations of local and other statutory authorities having jurisdiction over the works and shall be responsible for payment of all fees and other charges.
- 25. The Employer shall have full power and authority to instruct the contractor, from time to time during execution of the work to make any alteration in, omissions from, additions to, or submissions for, the original specifications, drawings, design and instruction that may appear to him to be necessary and the contractor shall be bound to carry on the works in accordance with any instructions which may be given in writing in "Site Order Book".
- 26. The contractor shall not sub-contract with any third party for the performance of all or any portion of the work without written permission of the Employer. Such arrangement, if any shall be declared at the time of offer.
- 27. If the contractor shall desire an extension of time for completion of the work due to any act of neglect of the Employer or due to some extra work, additions and alterations in original specifications, designs and drawings ordered during the execution of works or any strikes, lockout, fire, war act or public enemy or by any other reasonable cause, then he shall apply in writing to the employer before 15 (fifteen) days of schedule date of completion.
- 28. The successful bidder shall provide to the employer a Performance Security in the form of Demand Draft for an amount of equivalent to 5% of the Bid Value Plus additional security of unbalance bids in accordance with APWD office order vide dtd. 15<sup>th</sup> Feb'2011.

#### **29. CONTRACTOR'S SCOPE OF WORK**

AIDC is planning to develop its land at Village: Mandira near Nagarbera into an Industrial Estate along with a Solar Power Plant. To ascertain the exact topography of the land along with its water bodies, AIDC has decided to carry out Lidar based Drone survey at Industrial Estate, Nagarbera, Dist Kamrup. In addition of the plot area of 1885 bighas, the periphery of the perimeter of the plot upto 100 m (742.74 Bighas), Kulsi river upto Brahmaputra (1121.24 bighas), and the road from the plot to Singra at NH 17 (560.62 Bighas) also needs to be surveyed.

#### The main deliverables of the Ariel Topography Survey shall be:

i. Deployment of drone/UAV with necessary survey tools, equipment/instruments for automated data collection, capture high resolution images/ videos. The work will involve carrying out detailed engineering topographic survey and contour using drones/



UAVs and prepare plans (maps) on suitable scales, capturing all physical features like roads, trees, electric lines/ poles, water lines (visible on ground), storm water drains, wells, rivulets, dune sand areas, localized rock outcrops, nullahs/ canals, grazing/ pasture grounds, concrete structures, human settlements, etc. if any.

- ii. Supply of hardware & software required for processing the gathered data in a scientific way to generate the reports in standard forms & formats, prepare 2D maps & 3D models.
- iii. Engagement of qualified and experienced survey personnel/ manpower in sufficient numbers to carry out this job in the designated areas in stipulated timeline.
- Follow/ adopt applicable Indian and International practices/ regulations/ standards & codes to deliver best results
- v. The Drawings shall be prepared by experienced draughtsman/ personnel with experience in PPK (post processed kinematic)/RTK (real time kinematic) data processing, using suitable software like Auto CAD, DJI PPK software etc
- vi. The survey report recommendations shall be prepared and certified by qualified engineer
- vii. All data should be primary data. No secondary data shall be accepted.
- viii. Topographical map (AutoCAD file and hard copy) with all annotations including the plot boundary, Ortho mosaic, contours, DSM, DTM, 3D Model, Contour map 0.5 m interval, Grid, Point Cloud
- ix. The map shall be embeddable in Google earth
- x. KML file
- xi. Establishing a permanent bench mark at site
- xii. Collecting High flood level from concerned authority and establishing/marking the same at the bench mark (required only for plot and its peripheral area)
- xiii. Generating a model showing comparison of water level the plot at HFL & present condition (required only for plot and its peripheral area)
- xiv. Calculation land area at present condition and at high flood level (required only for plot and its peripheral area)
- xv. Calculation of land filling required. (required only for plot and its peripheral area)
- xvi. Create a 3D model for the main trunk road along the plot
- xvii. Shadow and watershed analysis (required only for plot and its peripheral area)



#### **DETAILED SCOPE OF WORK**

- A. Phase I: Drone Service
  - 1) **High resolution 2D Map of the whole area:** A photogrammetrically ortho-rectified and digitally stitched mosaic of images should be shared in .tiff format and CAD compatible ECW format. A detailed, accurate photo representation of the AOI should be created out of many photos that have been stitched together and geometrically corrected ("ortho-rectified") so that it is as accurate as a map.
  - 2) Topographical drawing in .dwg format: Drawings should show the main physical features on the ground, such as fences, roads, rivers, lakes, and forests, as well as the changes in elevation between landforms such as valleys and hills. Location and boundaries of the site should be clearly visible on the processed data.
  - 3) Land use Land Plan Drawing: Geo-spatial data collected using the UAV including basic geo- information imagery for mapping and documenting land use, topographical names, boundaries, transportation and utilities, settlements, and public facilities. This data was used to gain understanding of the mine tract level land resources for the planning purposes. The digitized assets and surroundings of the location to have a full knowledge of the asset location and ownership and encroachment. The maps/ plans will be delivered in the .dwg format
  - 4) Access to Cloud Platform: Cloud based analytics platform must have actionable aerial intelligence to reduce time and costs, improve safety and make faster decisions in the survey and mapping, that transforms traditional method by delivering real-time data-driven insights to decision-makers. Platform would enable the user to have a repository of the data and perform various functions such as annotation marking, zooming in, zooming out, applying filters, comments etc. Users can generate customized reports in .pdf as well as .xlsx format. Cloud platform have following features:
    - Role based access of the project
    - Output of survey and mapping can be analyze through platform
    - Online reporting preparation (PDF/Excel sheet)
    - Download and share reports
    - Video/image-based analytics like zoom, image capture and reporting
    - Platform should be complete cloud based digital repository to keep the historical data
    - Automated process & workflow
    - Defining flight path



- Survey and Mapping / Planning / GIS functionalities
- Progress Monitoring

#### 5) **Final Deliverables:**

- i. **High resolution Orthomosiac:** A photogrammetrically geo rectified and digitally stitched mosaic of images where the geometric distortion has been corrected and the imagery has been colour balanced to produce a seamless mosaic dataset
- ii. **3D point cloud:** Derived data calculated by matching several photographs (in the case of photogrammetry survey) to correspond it to a surface point on the surveyed object
- iii. DSM/DTM: A DTM is digital representation of the bare earth surface without any height information of structures above the ground (trees, high rise buildings, poles, towers etc.) (1m x 1m grid in DWG format)
- iv. **Spot height:** A spot height is an exact point on a map with an elevation recorded beside it that represents its height above a given datum
- v. **Contour (required interval):** In cartography, a contour line (often just called a "contour") joins points of equal elevation (height) above a given level. It helps illustrate, for example a topographic map, which thus shows valleys and hills, and the steepness or gentleness of slopes. (In DWG format)
- vi. **Topographical drawing:** Drawings which show the main physical features on the ground, such as buildings, fences, roads, rivers, lakes and forests, as well as the changes in elevation between landforms such as valleys and hills. (DWG format)

Other deliverables include:

- 1. Layout in PDF format and hard copy in A0 size paper.
- 2. Aerial video of the complete site
- 3. Final Deliverables:

Data Type	Formats		
Standard Drone Outputs			
Orthomosiac	.tif (Geotiff)		
Contours	.shp, .dxf, .str		
DSM/ DTM	.tif (Geotiff), .str		
Drawing	.dwg		
Aerial video of the AOI	.mp4		
Report	Pdf/excel		



#### B. Phase – II: Shadow and Watershed Analysis

Shading analysis is a very crucial step in finalizing panel locations in distributed Photo Voltaic (PV) solar installation. Any kind of shading is detrimental to the performance of the entire solar PV plant. Solar panels are mostly arranged in strings to meet voltage requirements. A shade in one panel not only reduces the efficiency of that panel but cuts short supply from entire string.

A shadow falling on a panel blocks the flow of solar energy and eventually, the panel gets damaged through heating. The efficiency of a panel at any time reduces in direct proportion to the area of the shadowed part of the panel. Sometimes even panels not in shadow zone get heated as they try to compensate for the power loss. Most often the damaged panels are not covered under warranty, adding to the operations cost of the plant.

Shade created by movable objects such as trees and similar objects can be avoided by removing them to create a shade-free area. However, in the case of immovable objects such as fixed structures, we need to leave surrounding areas falling in the shadow zone.

The bidder shall carry out shadow analysis covering entire land parcels across 365 days of the year by using 3D Modelling with shading simulator tool.

#### Watershed Analysis:

A watershed is the area of land where all the water that falls in it and drains off it goes into the same place or common outlet. A watershed is also defined by topographic divides between two or more adjacent catchment basins, such as a ridge or a crest.

Watershed analysis refers to the process of using DEM and raster data operations to delineate watersheds and to derive features such as streams, stream network, catchment areas, basin etc.

Data Type	Formats
Orthomosaic	.tiff
Drawing	.dwg
Report	Pdf/excel

This will be completed by GIS spatial Analysis. Final Deliverables will be:

#### C. Work of Drone and DGPS:



#### The following steps should be followed for the drone survey:

i. Ground Control Point establishment: Marking of TBMs/GCPs with DGPS (reference benchmark approved by the engineer-in-charge) at sites under survey by parallel levelling, establishing, and constructing benchmark, grid and reference in the field, and determining the coordinates of all the boundary corner stones, lengths of boundaries, including angles and area of the plot.

GCP establishment: A GCP is any point whose coordinates are known in relation to object-space reference coordinates in the spatial coordinate system. On the ground, such points are marked in a manner to make them visible in aerial photographs. GCPs are a prerequisite for proper placement and orientation of aerial photographs when evolving geo referenced and 3D models like Orthomosiac, point cloud, DTM, DSM etc.

- ii. DGPS Deployment: DGPS or differential global positioning system is used to extract RTK/static points on existing physical structures. These points are helpful to arrive at latitude, longitude and elevation values or x, y and z coordinates. These points are very valuable during data processing for enhanced accuracy. In the absence of these DGPS-derived data points, an error factor ranging from 1 to 5 meters is seen. With these points in place, one can acquire high accuracy data with minimum tolerances for measurement errors or tolerances
- **iii. Data Acquisition:** Conduct aerial surveys using flight planning applications and capture good resolution/overlapped geotagged images.
- iv. **Flight /Mission Planning:** This is a flight navigation map which comprises waypoints (wherein the GCPs also act as key waypoints). It helps the drone chart a specific route at a given altitude, take the appropriate turns, hover wherever required and defines the front and side overlaps, yaw, pitch, roll and tilt tolerances. The most popular flight or mission is a grid mission. Similarly, there can be circular, spiral or other mission types based on the specific data acquisition needs of the customer.
- v. **Data Processing:** Process the data using existing GCPs' and prepare high definition 2D/3D maps.

The raw data thus acquired is processed using high configuration machines deploying multi-core multi-thread image processors. Photogrammetry software are central to such data processing. Processing involves overlaying the ground control points grid with the sequential arrangement of geo-tagged images to evolve an Orthomosiac of the entire survey area or even evolve a 3D point cloud. An



Orthomosiac is a digitally stitched mosaic of hundreds or thousands of individual photos of different parts of the survey area. When merged without any errors, the Orthomosiac presents a single image file of the entire survey area

vi. **Topographical Drawing Preparation:** Import the processed data in a CAD software and evolve a detailed topographical drawing and other relevant outputs.



# **BILL OF QUANTITIES** ASSAM INDUSTRIAL DEVELOPMENT CORPORATION LIMITED.



# **Bill of quantities**

Sl No.	Description	Unit	Quantity	Rate (in Rs.)	Amount (in Rs.)
1	Aerial Topography Survey Using Drone Based Technology (LiDAR) at Industrial Estate, Nagarbera, Dist: Kamrup, Assam and submitting all the deliverables as mentioned in this RFP/Tender documents in both soft copy and hard copies (3 sets)	Bighas	4300		
	Total (in	cluding all	taxes)		

In words – (Rupees \_\_\_\_\_)



#### Annexure-1

### LIST OF DOCUMENTS SUBMITTED ALONG WITH THE TENDER:

- 1.
- 2.
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#### Annexure- 2

# LIST OF INSTRUMENTS:

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