

020 | ZRH | 34925774

MRS-4283199-MRS-1

SHO-0428 3199

Shipper's Name and Address ETH ZURICH, SWISS DATA SCIENCE CENTER, ELIZA HARRIS / TURRY OUMA ANDREASSTRASSE 5, TEL:+41767491871 CH-8050 ZURICH, SWITZERLAND		Shipper's Account Number		Not Negotiable M+R SPEDAG HORIZON AG Air Waybill ZUERICH-AIRPORT Issued by IN A CAPACITY AS CONTRACTING CARRIER	
Consignee's Name and Address INTERNATIONAL LIVESTOCK RESEARCH (ILRI) PIN#051104412C OLD NAIVASHA RD. P.O.B 30709 NAIROBI NORTH DISTRICT NAIROBI, KENYA*		Consignee's Account Number		Copies 1,2 and 3 of this Air Waybill are originals and have the same validity	
Issuing Carrier's Agent Name and City REF MRS-4283199-MRS-1		Accounting Information FREIGHT PREPAID *S.LEITNER@CGIAR.ORG / Y.ZHU@CGIAR.ORG ATTN SHEILA OKOMA*		It is agreed that the goods described herein are accepted in apparent good order and condition (except as noted) for carriage SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF ALL GOODS MAY BE CARRIED BY ANY OTHER MEANS INCLUDING ROAD OR ANY OTHER CARRIER UNLESS SPECIFIC CONTRARY INSTRUCTIONS ARE GIVEN HEREON BY THE SHIPPER, AND SHIPPER, AGREES THAT THE SHIPMENT MAY BE CARRIED VIA INTERMEDIATE STOPPING PLACES WHICH THE CARRIER DEEMS APPROPRIATE. THE SHIPPER'S ATTENTION IS DRAWN TO THE NOTICE CONCERNING CARRIER'S LIMITATION OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required.	
Agent's IATA Code		Account No.		Reference Number	
Airport of Departure (Addr. of First Carrier) and Requested Routing ZURICH		Optional Shipping Information		Declared Value for Carriage NVD	
To FRA	By First Carrier Lufthansa	Routing and destination To NBO By LH	To By	Currency CHF	Declared Value for Customs NCV
Airport of Destination NAIROBI		Flight/Date LH/		Amount of Insurance NIL	INSURANCE - If Carrier offers insurance, and such insurance is requested in accordance with the conditions thereof, indicate amount to be insured in figures in box marked 'Amount of Insurance'
Handling Information NOTIY: RESPONSIVE LOGISTICS KENYA LTD., 2ND FLOOR, AIRPORT TRADE CENTRE 3RD FREIGHT LANE, JOMO KENYATTA INTL. AIRPORT, NAIROBI, KENYA PIN#: P051239912B - MARKS: ADDRESS					
No of Pieces RCP	Gross Weight	kg lb	Rate Class Commodity Item No.	Chargeable Weight	Rate / Charge
4	455,0	K	Q	455,0	"AS AGREED"
DOCS: PROFORMA INVOICE / PACKING LIST / END-USER CERTIFICATES (EUC)					
4	455,0				
Prepaid		Weight Charge		Collect	
"AS AGREED"				Other Charges	
Valuation Charge					
Tax					
Total Other Charges Due Agent				Shipper certifies that the particulars on the face hereof are correct and that insofar as any part of the consignment contains dangerous goods, such part is properly described by name and is in proper condition for carriage by air according to the applicable Dangerous Goods Regulations	
Total Other Charges Due Carrier				M+R SPEDAG HORIZON AG THOMAS BÜNTER	
Total Prepaid		Total Collect		Signature of Shipper or his Agent	
"AS AGREED"				ZURICH - AIRPORT 05/10/2023 TIME: 08:14 PM M+R SPEDAG HORIZON AG AS CARRIER	
Currency Conversion Rates		CC Charges in Dest. Currency		Executed on (date) at (place) Signature of Issuing Carrier or its Agent	
For Carrier's Use only at Destination		Charges at Destination		Total Collect Charges	

SHO-0428 3199

ORIGINAL 1 (FOR ISSUING CARRIER)

Date
Proforma Invoice No.

ETH
Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zürich

Company Name
Contact Person / Department
Address
City
Postal Code
Country
Phone No.
Email
Reference
Tax Id/VAT/EIN No.
Carrier

09.11.22
09112022-1

SENDER
ETH Zurich, Swiss Data Science Center
Eliza Harris / Turry Ouma
Andreasstrasse 5
Zurich
8060
Switzerland
0041 76 7491871
eliza.harris@sdsc.ethz.ch
CHE-115.203.630

RECIPIENT
Importer, received by:
Sonja Leitner / Yuhao Zhu
International Livestock Research Institute (ILRI)
Old Naivasha Rd, Nairobi, Kenya
S.Leitner@cgiar.org / Y.Zhu@cgiar.org

Contact at final use location:
Abigael Otinga / Ruth Njoroge
Department of Soil Science, University of Eldoret
30100 Eldoret, Kenya
amarishas@yahoo.com / njoroge3@yahoo.com

[illegible]

Type of Export (permanent or temporary?)

temporary

Terms of Delivery
(Incoterms 2020)

DDP Eldoret

Reason for Export

temporary export for research reasons	
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General Notes

Name
Position at ETH Zurich
Signature

Eliza Harris
Senior scientist, Swiss Data Science Center

Enclosure
(e.g. EUR1)

Tot. weight (t) Tot. cost (CHF)	
455.04	85'373.88

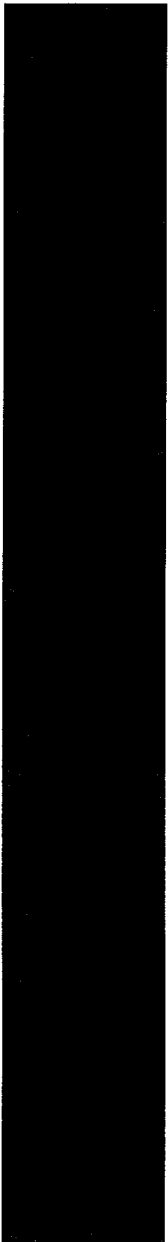
Box

(TREX)		TREX box			211.96	68'200.00	
1		TREX preconcentration system		1	50.00	40'000	
1		Stirling cooler		1	3.20	10'000	

(Rest)		Pumps / Spares box			79.88	9'300.00	
2		Small diaphragm pump for ambient air		1	3.40	350	
2		HiCube 80 ECO high vacuum turbomolecular pump		1	13.80	3'000	
2		Triscroll Pump (SH-110) vacuum pump		1	20.00	2'000	
2		Uninterruptible Power Supply (model SRV3KI)		1	26.80	700	Yes
2		Gas regulators		4	4.88	2'350	
2		Tool box & tools			10.00	500	Yes
2		TREX laptop		1	1.00	400	Yes

(Nr. 12-14)		OASIS / Spares box			88.20	7'373.88	
3		TREX-QCLAS / Oasis three cooling unit		2	45.20	3'500	
3		Spares: Swagelok, tubing, pneumatic connectors			10	984.19	
3		Spares: Chamber parts			17	1'126.69	
3		Spares: TREX, PT100, ICP-DAS			16.00	1'763	

(Gas Cylinder)		Gas bottle			75.00	500.00	
4		Gas bottle (calibration gas, 4.5 ppm N2O, 50 L)		1	75.00	500	



Stirling cooler incorporated in system; subject to Dual Use Goods documentation

See pdf for details of battery

Small batteries in things like voltmeter & drill
HP Elitebook 840 G30

MSDS attached

(Rest)	Pumps / Spares box	Quantity	L (cm)	H (cm)	W (cm)	Weight (kg)
2	Small diaphragm pump for ambient air	1	29	36	24	20
2	HiCube 80 ECO high vacuum turbomolecular pump	1	30	48	30	13.8
2	Tiscroll Pump (SH-110) vacuum pump	1	26	15	16	3.4
2	Uninterruptible Power Supply (model SRV3KI)	1	42	34	19	26.8
2	Gas regulators	4	29	12	20	4.8
2	Tool box & tools	1	32	16	45	10
2	TREX laptop (battery)	1	34	27	2	1

(Nr. 12-14)	OASIS / Spares box	Quantity	L (cm)	H (cm)	W (cm)	Weight (kg)
3	TREX-QCLAS / Oasis three cooling unit	2	34	29	28	45.2
3	Spares: Swagelok, tubing, pneumatic connectors	1	61	51	50	10
3	Spares: Chamber parts	1	51	38	34	17
3	Spares: TREX, PT100, ICP-DAS	1	50	38	38	16.00

EPFL
INN 218
1015 Lausanne

ETH Zurich
OAT W 26.
8092 Zurich

Phone: +41 44 632 80 74
E-mail: contact@datascience.ch
Web: <http://www.datascience.ch>

End-user certificate (EUC) for dual-use goods

1. Name of supplier: ETH (Swiss Data Science Center)
2. Description of the goods, software or technology: Vacuum pressure transducer, model 722B12TBA2FJ from MKS Instruments (<https://www.mks.com/>)
3. Quantity: 1
4. Will the goods be incorporated? No ☐ Yes ☒
If yes, into which product: Quantum Cascade Laser Spectrometer for N2O isotopes, manufactured by Aerodyne (USA).
5. The goods, software or technology will only be used for (end-use): The MKS transducer measures pressure in the QCLAS cell, no other use.
6. Will the goods be used for military purposes? No ☒ Yes ☐
If yes, the application must be specified:
7. Value in CHF: 650 CHF
8. Will the goods be distributed to third parties? No ☒ Yes ☐
If yes, specify the end-user and its address:
9. Full name and complete address of the end-user (incl. phone, fax, e-mail and website) and end-use location:
User: Eliza Harrid, Turry Ouma, Phillip Agredazywczuk
Swiss Data Science Centre, ETH Zürich
Andreasstrasse 5, 8050 Oerlikon, Switzerland
Phone: +41 76 749 1871
Email: eliza.harris@sdsc.ethz.ch / turry.ouma@sdsc.ethz.ch / phillip.agredazywczuk@sdsc.ethz.ch
Project website: <https://www.datascience.ch/projects/n2o-ssa>

Importer / receiver in Nairobi, Kenya:

International Livestock Research Institute (ILRI)
Attn: Sonja Leiter / Yuhao Zhu
Old Naivasha Rd, Nairobi, Kenya
Local contacts: Yuhao Zhu, Y.Zhu@cgiar.org / Sonja.Leitner@cgiar.org

Final use location: University of Eldoret, main campus

Outreach and International Students Center

30100 Eldoret, Kenya

Local contacts:

Abigael Otinga, amarishas@yahoo.com / Ruth
Njoroge, runjoro3@yahoo.com

10. I (we) certify:

- That the goods will be used only for the purpose stated and not be used in any nuclear explosive activity or unsafeguarded nuclear fuel-cycle activity or for the design, development, production, storage or use of nuclear, chemical and biological weapons or their delivery systems and for facilities engaged in such activities; the goods will also not be used for the development and the production of anti-personnel mines and cluster munition;
- That the goods will be delivered only to customers considered absolutely reliable in this regard;
- That I (we) will not transfer the goods, technology or software to a third country without the consent of the Swiss State Secretariat for Economic Affairs SECO. However, no consent is necessary for the re-export to the following countries: Argentina, Australia, Austria, Belgium, Bulgaria, Canada, Czech Republic, Denmark, Finland, France, Germany, Greece, Great Britain, Hungary, Ireland, Italy, Japan, Luxemburg, Netherlands, New Zealand, Norway, Poland, Portugal, Republic of Korea, Spain, Sweden, Turkey, Ukraine and United States of America.

Place and date:

20.09.2023

Original signature of the end-user or government official

(Name and job title of signer in block letters)

ELIZA HARRIS, SENIOR SCIENTIST



Company stamp or official seal:

EPFL
INN 218
1015 Lausanne

ETH Zurich
OAT W 26.
8092 Zurich

Phone: +41 44 632 80 74
E-mail: contact@datascience.ch
Web: <http://www.datascience.ch>

End-user certificate (EUC) for dual-use goods

1. Name of supplier: ETH (Swiss Data Science Center)
2. Description of the goods, software or technology: CryoTel® CT Stirling Cryocooler from Sunpower / AMETEK Inc. (<https://www.sunpowerinc.com/>)
3. Quantity: 2
4. Will the goods be incorporated? No ☐ Yes ☒
If yes, into which product: One unit is incorporated into the Trace Gas Extraction Unit (TREX); the second unit is a spare for the TREX system
5. The goods, software or technology will only be used for (end-use): The Stirling cooler cools the trap to -148 C to trap N2O for isotopic monitoring
6. Will the goods be used for military purposes? No ☒ Yes ☐
If yes, the application must be specified:
7. Value in CHF: 20 000 CHF
8. Will the goods be distributed to third parties? No ☒ Yes ☐
If yes, specify the end-user and its address:
9. Full name and complete address of the end-user (incl. phone, fax, e-mail and website) and end-use location:
User: Eliza Harrid, Turry Ouma, Phillip Agredazywczuk
Swiss Data Science Centre, ETH Zürich
Andreasstrasse 5, 8050 Oerlikon, Switzerland
Phone: +41 76 749 1871
Email: eliza.harris@sdsc.ethz.ch / turry.ouma@sdsc.ethz.ch / phillip.agredazywczuk@sdsc.ethz.ch
Project website:
<https://www.datascience.ch/projects/n2o-ssa>

Importer / receiver in Nairobi, Kenya:

International Livestock Research Institute (ILRI)
Attn: Sonja Leiter / Yuhao Zhu
Old Naivasha Rd, Nairobi, Kenya
Local contacts: Yuhao Zhu, Y.Zhu@cgiar.org /
Sonja Leitner S.Leitner@cgiar.org

Final use location: University of Eldoret, main campus

Outreach and International Students Center

30100 Eldoret, Kenya

Local contacts:

Abigael Otinga, amarishas@yahoo.com / Ruth
Njoroge, runjoro3@yahoo.com

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- That the goods will be delivered only to customers considered absolutely reliable in this regard;
- That I (we) will not transfer the goods, technology or software to a third country without the consent of the Swiss State Secretariat for Economic Affairs SECO. However, no consent is necessary for the re-export to the following countries: Argentina, Australia, Austria, Belgium, Bulgaria, Canada, Czech Republic, Denmark, Finland, France, Germany, Greece, Great Britain, Hungary, Ireland, Italy, Japan, Luxemburg, Netherlands, New Zealand, Norway, Poland, Portugal, Republic of Korea, Spain, Sweden, Turkey, Ukraine and United States of America.

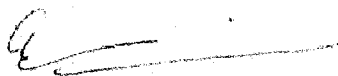
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E-mail: contact@datascience.ch
Web: <http://www.datascience.ch>

End-user certificate (EUC) for dual-use goods

1. Name of supplier: ETH (Swiss Data Science Center)
2. Description of the goods, software or technology: Trace Gas Extraction Unit (TREX)
3. Quantity: 1
4. Will the goods be incorporated? No ☒ Yes ☐
If yes, into which product:
5. The goods, software or technology will only be used for (end-use): For N2O preconcentration for isotopic measurements
6. Will the goods be used for military purposes? No ☒ Yes ☐
If yes, the application must be specified:
7. Value in CHF: 40 000 CHF
8. Will the goods be distributed to third parties? No ☒ Yes ☐
If yes, specify the end-user and its address:
9. Full name and complete address of the end-user (incl. phone, fax, e-mail and website) and end-use location:
User: Eliza Harrid, Turry Ouma, Phillip Agredazywczuk
Swiss Data Science Centre, ETH Zürich
Andreasstrasse 5, 8050 Oerlikon, Switzerland
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Email: eliza.harris@sdsc.ethz.ch / turry.ouma@sdsc.ethz.ch / phillip.agredazywczuk@sdsc.ethz.ch
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Place and date:

Original signature of the end-user or government official

(Name and job title of signer in block letters)

20.09.2023

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